

Tobacco: preventing uptake, promoting quitting and treating dependence

Search strategies

NICE guideline <number>

September 2021

*Commissioned by the National Institute for
Health and Care Excellence*

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1 Overview of the search process

1.1.1 Quality assurance

All search strategies below were written, tested and run by a trained member of the NICE Information Services team with several years' experience of running searches for systematic reviews. The MEDLINE strategies below were all quality assured (QA) by other members of the IS team. All translated search strategies were peer reviewed to ensure their accuracy. Both QA procedures were adapted from the 2016 PRESS Checklist.

1.1.2 Overview of the searches

Review question and Topic	Search approach	Date of main search	Search admin	Date of rerun searches	Search filters used	Date limits used	Language limits used
RQ1.1 RQ1.2 Mass media	Single search covering both questions. Top up covering children aged 5-11	Main search September 2018 Top up December 2018	Deduplication: EndNote Screening: EPPI Reviewer v4	None	None	1998-current	English only
RQ2.1 RQ2.2 Retail	Single search covering both questions. Top up 1 covering children aged 5-11 Top up 2 covering online sales	Main search October 2018 Top up 1 December 2018 Top Up 2 November 2018	Deduplication: EndNote Screening: EPPI Reviewer v4	None	None	1998-current	English only
RQ3.1 Smokefree class competitions	Single search Top up covering children aged 5-11	Main search November 2018 Top up December 2018	Deduplication: EndNote Screening: EPPI Reviewer v4	None	None	2008-current	English only
RQ1, RQ2, RQ3 Prevention Cost effectiveness	Single search was done for CE evidence relevant to the 5 prevention questions.	Main search January 2019	Deduplication: EndNote Screening: RIS file sent to YHEC	None	Cost Effectiveness - standard NICE terms	1998-current	English only

RQ4.1 RQ6.2 RQ6.3 RQ6.4 Ecigs	One search covering 4 questions	Main search January 2019	Main search and Rerun 1: Deduplication: EndNote Screening: EPPI Reviewer v4 Rerun 2 Deduplication and Screening: EPPI Reviewer v5	Rerun 1: Nov 2019 Rerun 2: July 2020	None	None	English only
RQ5.1 Pregnancy opt out	One search specific to this question	Main search April 2019	Deduplication: EndNote Screening: EPPI Reviewer v4	None	None	1998-current	English only
RQ5.2 Pregnancy incentives	One search specific to this question	Main search April 2019	Deduplication: EndNote Screening: EPPI Reviewer v4	None	None	1998-current	English only
RQ5.3 Pregnancy NRT and Ecigs	NICE search for RQ5.3b cohort studies. RQ5.3a and RQ5.3c covered by Cochrane in an update of their review	Main search April 2019	Deduplication: EndNote Screening: EPPI Reviewer v4	None	Cohort studies – standard NICE terms	1998-current	None
RQ5.1, RQ5.2, RQ5.3 Pregnancy Cost effectiveness	Single search was done for CE evidence relevant to the 3 pregnancy questions	Main search July 2019	Deduplication: EndNote Screening: RIS file sent to YHEC	None	Cost Effectiveness - standard NICE terms	None	English only
RQ6.1a Ecigs NMA Cessation	Single search	Main search done by Bristol not NICE. 2 Reruns done by NICE	Main search: Bristol Uni Rerun 1 Deduplication: EndNote Screening: EPPI Reviewer v4 Rerun 2 Deduplication and Screening:	Rerun 1: Nov 2019 Rerun 2: July 2020	None	None	None

			EPPI Reviewer v5				
RQ6.1b Ecigs NMA Harm reduction	Single search	Main search July 2019	Main search and Rerun 1: Deduplication: EndNote Screening: EPPI Reviewer v4 Rerun 2 Deduplication and Screening: EPPI Reviewer v5	Rerun 1: Nov 2019 Rerun 2: July 2020	RCT - McMaster Best balance SR - HealthEv.ca	None	English only
RQ6.1 Ecigs NMA Cost effectiveness	One search specific to the cost elements of both RQ6.1a and RQ6.1b	Main search October 2019	Deduplication: EndNote Screening: RIS file sent to YHEC	None	Cost Effectiveness - standard NICE terms	None	English only
RQ7.1 Relapse prevention	No NICE searches planned as Cochrane were planning to update their review "Relapse prevention interventions for smoking cessation".						
RQ7.1 Relapse prevention cost effectiveness	One search specific to this question with the topic elements written for this as there was no previous effectiveness search	Main search September 2019	Deduplication: EndNote Screening: RIS file sent to YHEC	None	Cost Effectiveness - standard NICE terms	None	None
RQ8.1 Mental health	One search specific to this question	Main search August 2020	Deduplication and screening done in EPPI v5.	None	RCT - McMaster Best balance SR - HealthEv.ca	1998-current	English only
RQ8.1 Mental health cost effectiveness	Single search was done for CE evidence relevant to RQ8.1	Main search August 2020	Deduplication: EndNote Screening: RIS file sent to YHEC	None	Cost Effectiveness - standard NICE terms	None	English only

2 Search for RQ1.1 and 1.2 (Effectiveness)

<p>Topic: Tobacco Portfolio</p> <p>Question details:</p> <ul style="list-style-type: none"> • 1.1a. Which mass media interventions delivered through digital media are effective and cost effective in preventing children, young people and young adults from taking up smoking? • 1.1b. Are these interventions acceptable for young people and young adults? • 1.2a. Are smoking cessation mass media campaigns aimed at adults, including those delivered through digital media, effective and cost effective in preventing uptake of smoking among children, young people and young adults? • 1.2b. Do these interventions change children, young people and young adults' perceptions of the social acceptability of smoking or people who smoke? In what way, and what aspects of interventions are perceived as having caused the change?

2.1 Table of results – main search

Database name	Date searched	Database Platform	Database segment or version
Applied Social Science Index and Abstracts (ASSIA)	21/09/2018	ProQuest	(1987 - current)
Cochrane Central Register of Controlled Trials (CENTRAL)	21/09/2018	Wiley	Cochrane Central Register of Controlled Trials Issue 8 of 12, August 2018
Cochrane Database of Systematic Reviews (CDSR)	21/09/2018	Wiley	Cochrane Database of Systematic Reviews Issue 9 of 12, September 2018
Embase	21/09/2018	Ovid	Embase 1974 to 2018 September 20
Health Management Information Consortium (HMIC)	21/09/2018	Ovid	HMIC Health Management Information Consortium 1979 to July 2018
MEDLINE	21/09/2018	Ovid	Ovid MEDLINE(R) 1946 to September 20, 2018
MEDLINE-in-Process (including	21/09/2018	Ovid	Ovid MEDLINE(R) Epub Ahead of Print September 20, 2018, Ovid MEDLINE(R) In-

Epub Ahead-of-Print)			Process & Other Non-Indexed Citations September 20, 2018
PsycINFO	21/09/2018	Ovid	PsycINFO 1806 to September Week 3 2018
Social Policy and Practice (SPP)	21/09/2018	Ovid	Social Policy and Practice 201807
Forward citation searching	21/09/2018	-	Web of Science Core Collection (1990-present)

Search source	No. of records retrieved	Results	Total results	De-duplicated
Applied Social Science Index and Abstracts (ASSIA)	996	17074	17322	10328
Cochrane Central Register of Controlled Trials (CENTRAL)	894			
Cochrane Database of Systematic Reviews (CDSR)	54			
Embase	4464			
Health Management Information Consortium (HMIC)	354			
MEDLINE	6147			
MEDLINE-in-Process (including Epub Ahead-of-Print)	891			
PsycINFO	3163			
Social Policy and Practice (SPP)	111			
Surveillance reviews for PH14	7			
Scoping searches	4			
Forward citation searching	237			

2.2 Table of results – top up

Database name	Date searched	Database Platform	Database segment or version
Applied Social Science Index	-		Not searched for the Top Up

and Abstracts (ASSIA)			
Cochrane Central Register of Controlled Trials (CENTRAL)	12/12/18	Wiley	Cochrane Central Register of Controlled Trials Issue 12 of 12, December 2018
Cochrane Database of Systematic Reviews (CDSR)	12/12/18	Wiley	Cochrane Database of Systematic Reviews Issue 12 of 12, December 2018
Embase	12/12/18	Ovid	Embase 1974 to 2018 December 11
Health Management Information Consortium (HMIC)	12/12/18	Ovid	HMIC Health Management Information Consortium 1979 to September 2018
MEDLINE	12/12/18	Ovid	Ovid MEDLINE(R) 1946 to December 06, 2018
MEDLINE-in-Process (including Epub Ahead-of-Print)	12/12/18	Ovid	Database(s): Ovid MEDLINE(R) Epub Ahead of Print December 10, 2018, Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations December 06, 2018
PsycINFO	12/12/18	Ovid	PsycINFO 1806 to December Week 1 2018
Social Policy and Practice (SPP)	12/12/18	Ovid	Social Policy and Practice 201810

Search source	No. of records retrieved	Results	Total results	De-duplicated
Applied Social Science Index and Abstracts (ASSIA)	0	2684	1022	1662
Cochrane Central Register of Controlled Trials (CENTRAL)	267			
Cochrane Database of Systematic Reviews (CDSR)	23			
Embase	912			
Health Management Information Consortium (HMIC)	69			
MEDLINE	897			

MEDLINE-in-Process (including Epub Ahead-of-Print)	156			
PsycINFO	341			
Social Policy and Practice (SPP)	19			

2.3 Database strategy outline

(smoking OR tobacco OR cigarettes or shisha or vaping) AND

(mass media or digital media) AND

(children OR young people OR young adults) AND

1998-Current AND Limits

3 Database strategies – main search

3.1.1 Database name: Applied Social Science Index and Abstracts (ASSIA)

Set#	Searched for	Results
S1	MAINSUBJECT.EXACT("Smoking") OR MAINSUBJECT.EXACT("Moderate smoking") OR MAINSUBJECT.EXACT("Heavy smoking") OR MAINSUBJECT.EXACT("Occasional smoking") OR MAINSUBJECT.EXACT("Tobacco products") OR MAINSUBJECT.EXACT("Tobacco") OR MAINSUBJECT.EXACT("Cigars") OR MAINSUBJECT.EXACT("Cigarettes")	13079
S2	TI,AB(smoking* or smoker* or antismok* or anti smok* or anti-smok*)	17165
S3	TI,AB(tobacco* or nicotin* or cigar* or cigs)	12859
S4	TI,AB(ecig* or e-cig* or e-voke* or vape* or vaping)	70
S5	TI,AB(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies)	73
S6	TI,AB(bupropion* or zyban* or varenicline* or champix* or nicorette* or niquitin* or nicotinell* or nicassist*)	325
S7	TI,AB(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas)	195
S8	S1 OR S2 OR S3 OR S4 OR S5 OR S6 OR S7	22711
S9	MAINSUBJECT.EXACT("Press") OR MAINSUBJECT.EXACT("Radio") OR MAINSUBJECT.EXACT("Broadcasting") OR MAINSUBJECT.EXACT("Mass media") OR MAINSUBJECT.EXACT("Newspapers") OR MAINSUBJECT.EXACT("Television") OR MAINSUBJECT.EXACT("Advertisements") OR MAINSUBJECT.EXACT("Films")	6589
S10	MAINSUBJECT.EXACT("Internet") OR MAINSUBJECT.EXACT("Videogames") OR MAINSUBJECT.EXACT("Electronic mail systems") OR MAINSUBJECT.EXACT("Telecommunications") OR MAINSUBJECT.EXACT("Mobile phones") OR MAINSUBJECT.EXACT("Marketing") OR MAINSUBJECT.EXACT("Advertising") OR	18433

	MAINSUBJECT.EXACT("Social marketing") OR MAINSUBJECT.EXACT("Persuasive communication") OR MAINSUBJECT.EXACT("World Wide Web") OR MAINSUBJECT.EXACT("Web sites") OR MAINSUBJECT.EXACT("Virtual communities")	
S11	TI,AB(social media* or social network* or blog* or vlog* or video- blog*)	21053
S12	TI,AB(Bebo* or Facebook* or YouTube* or Twitter* or LinkedIn* or Pinterest* or Google* or Tumblr* or Instagram* or WhatsApp* or Reddit* or Flickr* or SnapChat* or Yahoo* or Bing* or MSN* or Wikipedia* or Myspace*)	5123
S13	TI,AB(marketing or advertis* or publicis* or publiciz* or publicity or mass media or media campaign* or communication* media*)	14187
S14	TI((tv or television* or televize* or televise* or cable or satellite or cinema* or movie* or media or newspaper* or journal* or magazine* or interactive* or dvd or dvds or video* or tape or tapes or cassette* or film or films or broadcast* or radio* or audio* or telecommunicat*) near/3 (market* or campaign* or advert* or commercial* or program* or intervention* or information*))	1019
S15	S9 OR S10 OR S11 OR S12 OR S13 OR S14	56300
S16	s8 and s15	2306
S17	MAINSUBJECT.EXACT("Adolescents") OR MAINSUBJECT.EXACT("Girls") OR MAINSUBJECT.EXACT("Children") OR MAINSUBJECT.EXACT("Boys") OR MAINSUBJECT.EXACT("Pupils") OR MAINSUBJECT.EXACT("Students") OR MAINSUBJECT.EXACT("Young men") OR MAINSUBJECT.EXACT("Young women") OR MAINSUBJECT.EXACT("Young adults") OR MAINSUBJECT.EXACT("Young adulthood")	93831
S18	TI,AB(young* near/2 (adult* or person* or people* or men or man or women or woman or male* or female*))	35209
S19	TI,AB(child* or adolescen* or kid or kids or youth* or youngster* or minor or minors or underage* or under-age* or "under age*" or teen or teens or teenager* or juvenile* or boy or boys or boyhood or girl or girls or girlhood or schoolchild* or "school age*" or schoolage* or pupil or pupils or student*)	31051 1
S20	S17 OR S18 OR S19	33273 4

S21	s16 and s20	1118
S22	((s16 and s20) AND at.exact("Letter To The Editor" OR "News" OR "Conference Proceeding" OR "Editorial" OR "Conference Paper" OR "Editorial Cartoon/Comic" OR "Conference")) AND la.exact("English")	26
S23	s21 not s22	1092
S24	(s21 not s22) AND pd(19980101-20181231)	996

3.1.2 Database name: Cochrane Central Register of Controlled Trials (CENTRAL)

- #1 MeSH descriptor: [Tobacco Use] explode all trees
- #2 MeSH descriptor: [Tobacco] this term only
- #3 MeSH descriptor: [Tobacco Use Disorder] this term only
- #4 MeSH descriptor: [Tobacco Use Cessation] this term only
- #5 MeSH descriptor: [Tobacco Use Cessation Products] this term only
- #6 MeSH descriptor: [Smoking] this term only
- #7 MeSH descriptor: [Pipe Smoking] explode all trees
- #8 MeSH descriptor: [Smoking Reduction] this term only
- #9 MeSH descriptor: [Smoking Cessation] this term only
- #10 MeSH descriptor: [Vaping] this term only
- #11 MeSH descriptor: [Nicotine] this term only
- #12 MeSH descriptor: [Smokers] this term only
- #13 MeSH descriptor: [Smoking Devices] explode all trees
- #14 MeSH descriptor: [Smoking Prevention] this term only
- #15 MeSH descriptor: [Varenicline] this term only
- #16 MeSH descriptor: [Bupropion] this term only
- #17 (smoking* or smoker* or antismok* or anti smok* or anti-smok*):ti,ab
- #18 (tobacco* or nicotin* or cigar* or cigs):ti,ab
- #19 (ecig* or e-cig* or e-voke* or vape* or vaping):ti,ab
- #20 (bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies):ti,ab

- #21 (bupropion* or zyban* or varenicline* or champix* or nicorette* or niquitin* or nicotinell* or nicassist*):ti,ab
- #22 (waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas):ti,ab
- #23 {or #1-#22}
- #24 MeSH descriptor: [Multimedia] this term only
- #25 MeSH descriptor: [Tape Recording] explode all trees
- #26 MeSH descriptor: [Computers, Handheld] this term only
- #27 MeSH descriptor: [Internet] this term only
- #28 MeSH descriptor: [Blogging] this term only
- #29 MeSH descriptor: [Social Networking] this term only
- #30 MeSH descriptor: [Social Media] this term only
- #31 MeSH descriptor: [Electronic Mail] this term only
- #32 MeSH descriptor: [Cell Phone] this term only
- #33 MeSH descriptor: [Text Messaging] this term only
- #34 MeSH descriptor: [Smartphone] this term only
- #35 MeSH descriptor: [Video Games] this term only
- #36 MeSH descriptor: [Mobile Applications] this term only
- #37 ((digital* or digitis* or digitiz* or electronic* or wireless or online) near/3 (intervention* or communicat* or technol* or media* or market* or campaign* or advert* or ad or ads or commercial* or device* or platform* or forum* or community* or communities* or discussion*)):ti,ab
- #38 (ehealth* or e-health* or mhealth* or m-health* or mobile health*):ti,ab

- #39 ((laptop or palm or handheld or tablet or pda or pc) near/3 comput*):ti,ab
- #40 ((mobile* or cell* or tablet*) near (phone* or telephone* or handset* or hand-set*)):ti,ab
- #41 (smartphone* or smart-phone* or smart telephone* or iphone* or i-phone* or ipad* or i-pad* or blackberry* or smartwatch* or smart-watch* or android or device-based or mobile-based or podcast*):ti,ab
- #42 ((mobile or electronic* or digital*) near/3 (device* or tablet* or application*)):ti,ab
- #43 (app or apps or online* or on-line* or internet* or www or web or website* or webpage* or webcast* or portal or search engine*):ti,ab
- #44 (social media* or social network* or blog* or vlog* or video-blog*):ti,ab
- #45 (Bebo* or Facebook* or YouTube* or Twitter* or LinkedIn* or Pinterest* or Google* or Tumblr* or Instagram* or WhatsApp* or Reddit* or Flickr* or SnapChat* or Yahoo* or Bing* or MSN* or Wikipedia* or Myspace*):ti,ab
- #46 (e-mail* or email* or electronic mail* or mailing list*):ti,ab
- #47 (text messag* or texting or texter* or texted or SMS or short messag* or multimedia messag* or multi-media messag* or mms or instant messag*):ti,ab
- #48 (advergame or advergames or advergaming):ti,ab
- #49 MeSH descriptor: [Telephone] this term only
- #50 MeSH descriptor: [Mass Media] explode all trees
- #51 MeSH descriptor: [Information Dissemination] this term only
- #52 MeSH descriptor: [Persuasive Communication] this term only
- #53 MeSH descriptor: [Nonverbal Communication] this term only
- #54 MeSH descriptor: [Serial Publications] explode all trees

- #55 MeSH descriptor: [Pamphlets] this term only
- #56 MeSH descriptor: [Telecommunications] this term only
- #57 MeSH descriptor: [Marketing] explode all trees
- #58 MeSH descriptor: [Communications Media] this term only
- #59 MeSH descriptor: [Government Publications as Topic] this term only
- #60 MeSH descriptor: [Audiovisual Aids] this term only
- #61 (marketing or advertis* or publicis* or publiciz* or publicity or mass media or media campaign* or communication* media*):ti,ab
- #62 ((tv or television* or televize* or televise* or cable or satellite or cinema* or movie* or media or newspaper* or journal* or magazine* or interactive* or dvd or dvds or video* or tape or tapes or cassette* or motion picture* or film or films or broadcast* or radio* or audio* or telecommunicat*) near/3 (market* or campaign* or advert* or ad or ads or commercial* or program* or intervention* or information*)):ti,ab
- #63 ((pamphlet* or handout* or hand out* or booklet* or leaflet* or literature or poster or posters or publication* or viral* or buzz*) near/3 (market* or campaign* or advert* or commercial* or program* or intervention* or information*)):ti,ab
- #64 ((outreach* or written* or printed* or oral* or campaign* or resource* or disseminat*) near/1 information):ti,ab
- #65 ((nationwide* or statewide* or countrywide* or citywide* or national* or nation wide* or state wide* or country wide* or city wide* or government*) near/3 (market* or campaign* or advert* or commercial* or program* or intervention* or information)):ti,ab
- #66 {or #24-#65}
- #67 MeSH descriptor: [Minors] this term only

- #68 MeSH descriptor: [Adolescent Behavior] this term only
- #69 MeSH descriptor: [Adolescent] this term only
- #70 MeSH descriptor: [Adolescent Health] this term only
- #71 MeSH descriptor: [Adolescent Development] this term only
- #72 MeSH descriptor: [Child Behavior] this term only
- #73 MeSH descriptor: [Child] this term only
- #74 MeSH descriptor: [Child Development] this term only
- #75 MeSH descriptor: [Young Adult] this term only
- #76 MeSH descriptor: [Students] this term only
- #77 (young* near/2 (adult* or person* or people* or men or man or women or woman or male* or female*)):ti,ab
- #78 (child* or adolescen* or kid or kids or youth* or youngster* or minor or minors or underage* or under-age* or "under age*" or teen or teens or teenager* or juvenile* or boy or boys or boyhood or girl or girls or girlhood or schoolchild* or "school age*" or schoolage* or pupil or pupils or student*):ti,ab
- #79 ("under 18" or "under eighteen*" or "under 25" or "under twenty five*"):ti,ab
- #80 (("twelve" or "thirteen" or "fourteen" or "fifteen" or "sixteen" or "seventeen" or "eighteen" or "nineteen" or "twenty" or "twenty one" or "twenty two" or "twenty three" or "twenty four") near/2 (year or years or age or ages or aged)):ti,ab
- #81 (("12" or "13" or "14" or "15" or "16" or "17" or "18" or "19" or "20" or "21" or "22" or "23" or "24") near/2 (year or years or age or ages or aged)):ti,ab
- #82 {or #67-#81}

#83 #23 and #66 and #82

#84 "clinicaltrials.gov":so

#85 #83 not #84

#86 "conference":pt

#87 #85 not #86

#88 #85 not #86 with Publication year from 1998 to 2018, in Trials

Not possible to export the whole strategy with the numbers visible.

-	+	#83	#23 and #66 and #82	1397
-	+	#84	"clinicaltrials.gov":so	126760
-	+	#85	#83 not #84	1179
-	+	#86	"conference":pt	126036
-	+	#87	#85 not #86	1063
-	+	#88	#85 not #86 with Publication Year from 1998 to 2018, in Trials	894

Cochrane Reviews 0	Cochrane Protocols 0	Trials 894	Editorials 0	Special collections 0	Clinical Answers 0
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894 Trials matching on "'#88 - #85 not #86" with Publication year from 1998 to 2018, in Trials'

Cochrane Central Register of Controlled Trials
Issue 8 of 12, August 2018

3.1.3 Database name: Cochrane Database of Systematic Reviews (CDSR)

- #1 MeSH descriptor: [Tobacco Use] explode all trees
- #2 MeSH descriptor: [Tobacco] this term only
- #3 MeSH descriptor: [Tobacco Use Disorder] this term only
- #4 MeSH descriptor: [Tobacco Use Cessation] this term only
- #5 MeSH descriptor: [Tobacco Use Cessation Products] this term only
- #6 MeSH descriptor: [Smoking] this term only
- #7 MeSH descriptor: [Pipe Smoking] explode all trees
- #8 MeSH descriptor: [Smoking Reduction] this term only
- #9 MeSH descriptor: [Smoking Cessation] this term only
- #10 MeSH descriptor: [Vaping] this term only
- #11 MeSH descriptor: [Nicotine] this term only
- #12 MeSH descriptor: [Smokers] this term only
- #13 MeSH descriptor: [Smoking Devices] explode all trees
- #14 MeSH descriptor: [Smoking Prevention] this term only
- #15 MeSH descriptor: [Varenicline] this term only
- #16 MeSH descriptor: [Bupropion] this term only
- #17 (smoking* or smoker* or antismok* or anti smok* or anti-smok*):ti,ab
- #18 (tobacco* or nicotin* or cigar* or cigs):ti,ab
- #19 (ecig* or e-cig* or e-voke* or vape* or vaping):ti,ab
- #20 (bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies):ti,ab
- #21 (bupropion* or zyban* or varenicline* or champix* or nicorette* or niquitin* or nicotinell* or nicassist*):ti,ab
- #22 (waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas):ti,ab

- #23 {or #1-#22}
- #24 MeSH descriptor: [Multimedia] this term only
- #25 MeSH descriptor: [Tape Recording] explode all trees
- #26 MeSH descriptor: [Computers, Handheld] this term only
- #27 MeSH descriptor: [Internet] this term only
- #28 MeSH descriptor: [Blogging] this term only
- #29 MeSH descriptor: [Social Networking] this term only
- #30 MeSH descriptor: [Social Media] this term only
- #31 MeSH descriptor: [Electronic Mail] this term only
- #32 MeSH descriptor: [Cell Phone] this term only
- #33 MeSH descriptor: [Text Messaging] this term only
- #34 MeSH descriptor: [Smartphone] this term only
- #35 MeSH descriptor: [Video Games] this term only
- #36 MeSH descriptor: [Mobile Applications] this term only
- #37 ((digital* or digitis* or digitiz* or electronic* or wireless or online) near/3 (intervention* or communicat* or technol* or media* or market* or campaign* or advert* or ad or ads or commercial* or device* or platform* or forum* or community* or communities* or discussion*)):ti,ab
- #38 (ehealth* or e-health* or mhealth* or m-health* or mobile health*):ti,ab
- #39 ((laptop or palm or handheld or tablet or pda or pc) near/3 comput*):ti,ab
- #40 ((mobile* or cell* or tablet*) near (phone* or telephone* or handset* or hand-set*)):ti,ab
- #41 (smartphone* or smart-phone* or smart telephone* or iphone* or i-phone* or ipad* or i-pad* or blackberry* or smartwatch* or smart-watch* or android or device-based or mobile-based or podcast*):ti,ab
- #42 ((mobile or electronic* or digital*) near/3 (device* or tablet* or application*)):ti,ab

- #43 (app or apps or online* or on-line* or internet* or www or web or website* or webpage* or webcast* or portal or search engine*):ti,ab
- #44 (social media* or social network* or blog* or vlog* or video-blog*):ti,ab
- #45 (Bebo* or Facebook* or YouTube* or Twitter* or LinkedIn* or Pinterest* or Google* or Tumblr* or Instagram* or WhatsApp* or Reddit* or Flickr* or SnapChat* or Yahoo* or Bing* or MSN* or Wikipedia* or Myspace*):ti,ab
- #46 (e-mail* or email* or electronic mail* or mailing list*):ti,ab
- #47 (text messag* or texting or texter* or texted or SMS or short messag* or multimedia messag* or multi-media messag* or mms or instant messag*):ti,ab
- #48 (advergame or advergames or advergaming):ti,ab
- #49 MeSH descriptor: [Telephone] this term only
- #50 MeSH descriptor: [Mass Media] explode all trees
- #51 MeSH descriptor: [Information Dissemination] this term only
- #52 MeSH descriptor: [Persuasive Communication] this term only
- #53 MeSH descriptor: [Nonverbal Communication] this term only
- #54 MeSH descriptor: [Serial Publications] explode all trees
- #55 MeSH descriptor: [Pamphlets] this term only
- #56 MeSH descriptor: [Telecommunications] this term only
- #57 MeSH descriptor: [Marketing] explode all trees
- #58 MeSH descriptor: [Communications Media] this term only
- #59 MeSH descriptor: [Government Publications as Topic] this term only
- #60 MeSH descriptor: [Audiovisual Aids] this term only
- #61 (marketing or advertis* or publicis* or publiciz* or publicity or mass media or media campaign* or communication* media*):ti,ab
- #62 ((tv or television* or televize* or televise* or cable or satellite or cinema* or movie* or media or newspaper* or journal* or magazine* or interactive* or dvd or dvds or video* or tape or tapes or cassette* or motion picture* or film or films or broadcast* or radio* or audio* or telecommunicat*) near/3 (market* or

campaign* or advert* or ad or ads or commercial* or program* or intervention* or information*)):ti,ab

#63 ((pamphlet* or handout* or hand out* or booklet* or leaflet* or literature or poster or posters or publication* or viral* or buzz*) near/3 (market* or campaign* or advert* or commercial* or program* or intervention* or information*)):ti,ab

#64 ((outreach* or written* or printed* or oral* or campaign* or resource* or disseminat*) near/1 information):ti,ab

#65 ((nationwide* or statewide* or countrywide* or citywide* or national* or nation wide* or state wide* or country wide* or city wide* or government*) near/3 (market* or campaign* or advert* or commercial* or program* or intervention* or information*)):ti,ab

#66 {or #24-#65}

#67 MeSH descriptor: [Minors] this term only

#68 MeSH descriptor: [Adolescent Behavior] this term only

#69 MeSH descriptor: [Adolescent] this term only

#70 MeSH descriptor: [Adolescent Health] this term only

#71 MeSH descriptor: [Adolescent Development] this term only

#72 MeSH descriptor: [Child Behavior] this term only

#73 MeSH descriptor: [Child] this term only

#74 MeSH descriptor: [Child Development] this term only

#75 MeSH descriptor: [Young Adult] this term only

#76 MeSH descriptor: [Students] this term only

#77 (young* near/2 (adult* or person* or people* or men or man or women or woman or male* or female*)):ti,ab

#78 (child* or adolescen* or kid or kids or youth* or youngster* or minor or minors or underage* or under-age* or "under age*" or teen or teens or teenager* or juvenile* or boy or boys or boyhood or girl or girls or girlhood or schoolchild* or "school age*" or schoolage* or pupil or pupils or student*)):ti,ab

#79 ("under 18" or "under eighteen*" or "under 25" or "under twenty five*"):ti,ab

#80 (("twelve" or "thirteen" or "fourteen" or "fifteen" or "sixteen" or "seventeen" or "eighteen" or "nineteen" or "twenty" or "twenty one" or "twenty two" or "twenty three" or "twenty four") near/2 (year or years or age or ages or aged)):ti,ab

#81 (("12" or "13" or "14" or "15" or "16" or "17" or "18" or "19" or "20" or "21" or "22" or "23" or "24") near/2 (year or years or age or ages or aged)):ti,ab

#82 {or #67-#81}

#83 #23 and #66 and #82

#84 "clinicaltrials.gov":so

#85 #83 not #84

#86 "conference":pt

#87 #85 not #86

#88 #85 not #86 in Cochrane Reviews, Cochrane Protocols

Not possible to export the whole strategy with the numbers visible.

-	+	#83	#23 and #66 and #82	1397
-	+	#84	"clinicaltrials.gov":so	126760
-	+	#85	#83 not #84	1179
-	+	#86	"conference":pt	126036
-	+	#87	#85 not #86	1063
-	+	#88	#85 not #86 <small>In Cochrane Reviews and Cochrane Protocols</small>	54

Cochrane Reviews 53	Cochrane Protocols 1	Trials 0	Editorials 0	Special collections 0	Clinical Answers 0	More ▼
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53 Cochrane Reviews matching on "'#88 - #85 not #86" in Cochrane Reviews, Cochrane Protocols'

Cochrane Database of Systematic Reviews
Issue 9 of 12, September 2018

3.1.4 Database name: Embase

Database(s): **Embase** 1974 to 2018 September 20

Search Strategy:

#	Searches	Results
1	"tobacco use"/	7302
2	tobacco consumption/	1808
3	tobacco/	41341
4	tobacco dependence/	18341
5	"smoking and smoking related phenomena"/	177
6	smoking/	269123
7	smoking habit/	20622
8	cigar smoking/	81
9	cigarette smoking/	50731
10	bidi smoking/	113
11	exp pipe smoking/	131
12	exp parental smoking/	6754
13	adolescent smoking/	1604
14	smoking reduction/	62
15	smoking prevention/	279
16	smoking cessation/	52344
17	smoking cessation program/	2905
18	nicotine replacement therapy/	4560
19	nicotine/	41546
20	nicotine gum/	2807

21	nicotine lozenge/	252
22	nicotine patch/	1919
23	exp smoking device/	4385
24	vaping/	502
25	Varenicline/	3930
26	Bupropion/	16305
27	(smoking* or smoker* or antismok* or anti smok* or anti-smok*).ti,ab.	323341
28	(tobacco* or nicotin* or cigar* or cigs).ti,ab.	230781
29	(ecig* or e-cig* or e-voke* or vape* or vaping).ti,ab.	3055
30	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).ti,ab.	790
31	(bupropion* or zyban* or varenicline* or champix* or nicorette* or niqutin* or nicotinell* or nicassist*).ti,ab.	7403
32	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).ti,ab.	2166
33	or/1-32	567601
34	multimedia/	3433
35	audio recording/	2371
36	videorecording/	70211
37	personal digital assistant/	1263
38	internet/	98856
39	blogging/	236
40	social network/	12537
41	social media/	12354
42	e-mail/	17179

43	mobile phone/	14311
44	text messaging/	3546
45	smartphone/	6069
46	video game/	2120
47	mobile application/	6613
48	((digital* or digitis* or digitiz* or electronic* or wireless or online) adj3 (intervention* or communicat* or technol* or media* or market* or campaign* or advert* or ad or ads or commercial* or device* or platform* or forum* or community* or communities* or discussion*)).ti,ab.	34949
49	(ehealth* or e-health* or mhealth* or m-health* or mobile health*).ti,ab.	7556
50	((laptop or palm or handheld or tablet or pda or pc) adj3 comput*).ti,ab.	3985
51	((mobile* or cell* or tablet*) adj (phone* or telephone* or handset* or hand-set*)).ti,ab.	11809
52	(smartphone* or smart-phone* or smart telephone* or iphone* or i-phone* or ipad* or i-pad* or blackberry* or smartwatch* or smart-watch* or android or device-based or mobile-based or podcast*).ti,ab.	19273
53	((mobile or electronic* or digital*) adj3 (device* or tablet* or application*)).ti,ab.	20153
54	(app or apps or online* or on-line* or internet* or www or web or website* or webpage* or webcast* or portal or search engine*).ti,ab.	435253
55	(social media* or social network* or blog* or vlog* or video-blog*).ti,ab.	25555
56	(Bebo* or Facebook* or YouTube* or Twitter* or LinkedIn* or Pinterest* or Google* or Tumblr* or Instagram* or WhatsApp* or Reddit* or Flickr* or SnapChat* or Yahoo* or Bing* or MSN* or Wikipedia* or Myspace*).ti,ab.	52866
57	(e-mail* or email* or electronic mail* or mailing list*).ti,ab.	28021
58	(text messag* or texting or texter* or texted or SMS or short messag* or multimedia messag* or multi-media messag* or mms or instant messag*).ti,ab.	16403
59	(advergame or advergaming).ti,ab.	26

60	telephone/	33655
61	mass communication/	13727
62	mass medium/	17106
63	radio/	264
64	television/	12639
65	webcast/	304
66	wireless communication/	4240
67	information dissemination/	19059
68	persuasive communication/	7771
69	nonverbal communication/	8058
70	telecommunication/	22613
71	movie/	1059
72	marketing/	21327
73	exp social marketing/	4776
74	advertising/	2045
75	audiovisual aid/	668
76	(marketing or advertis* or publicis* or publiciz* or publicity or mass media or media campaign* or communication* media*).ti,ab. ((tv or television* or televize* or televise* or cable or satellite or cinema* or movie* or media or newspaper* or journal* or magazine* or interactive* or dvd or dvds or video* or 77 tape or tapes or cassette* or motion picture* or film or films or broadcast* or radio* or audio* or telecommunicat*) adj3 (market* or campaign* or advert* or ad or ads or commercial* or program* or intervention* or information*).ti,ab. ((pamphlet* or handout* or hand out* or booklet* or leaflet* or literature or poster or 78 posters or publication* or viral* or buzz*) adj3 (market* or campaign* or advert* or commercial* or program* or intervention* or information*).ti,ab.	59902

79	((outreach* or written* or printed* or oral* or campaign* or resource* or disseminat*) adj1 information).ti,ab.	10167
80	((nationwide* or statewide* or countrywide* or citywide* or national* or nation wide* or state wide* or country wide* or city wide* or government*) adj3 (market* or campaign* or advert* or commercial* or program* or intervention* or information)).ti,ab.	48955
81	or/34-80	943679
82	33 and 81	27462
83	"minor (person)"/	505
84	adolescent behavior/	7560
85	adolescent/	1370395
86	adolescent health/	7212
87	adolescent development/	3298
88	adolescence/	33653
89	child behavior/	41407
90	child development/	41237
91	child/	1499378
92	boy/	26576
93	girl/	36020
94	school child/	325772
95	young adult/	252728
96	juvenile/	33965
97	student/ or college student/ or elementary student/ or high school student/ or middle school student/ or non-medical student/ or undergraduate student/ or university student/	124469
98	(young* adj2 (adult* or person* or people* or men or man or women or woman or male* or female*)).ti,ab.	268806

99	(child* or adolescen* or kid or kids or youth* or youngster* or minor or minors or underage* or under-age* or "under age*" or teen or teens or teenager* or juvenile* or boy or boys or boyhood or girl or girls or girlhood or schoolchild* or "school age*" or schoolage* or pupil or pupils or student*).ti,ab.	2422870
100	("under 18" or "under eighteen*" or "under 25" or "under twenty five*").ti,ab.	5456
101	((("twelve" or "thirteen" or "fourteen" or "fifteen" or "sixteen" or "seventeen" or "eighteen" or "nineteen" or "twenty" or "twenty one" or "twenty two" or "twenty three" or "twenty four") adj2 (year or years or age or ages or aged)).ti,ab.	56536
102	((("12" or "13" or "14" or "15" or "16" or "17" or "18" or "19" or "20" or "21" or "22" or "23" or "24") adj2 (year or years or age or ages or aged)).ti,ab.	1235791
103	or/83-102	4444344
104	82 and 103	10747
105	nonhuman/ not (human/ and nonhuman/)	4207176
106	104 not 105	10701
107	(letter or editorial).pt.	1605500
108	106 not 107	10557
109	(conference abstract or conference paper or conference proceeding or "conference review").pt.	3908422
110	108 not 109	8202
111	limit 110 to medline	3019
112	110 not 111	5183
113	limit 112 to english language	4919
114	limit 113 to yr="1998 -Current"	4464

3.1.5 Database name: Health Management Information Consortium (HMIC)

Database(s): **HMIC Health Management Information Consortium** 1979 to July 2018

Search Strategy:

#	Searches	Results
1	(smoking* or smoker* or antismok* or anti smok* or anti-smok*).ti,ab.	7516
2	(smoking* or smoker* or antismok* or anti smok* or anti-smok*).sh.	5310
3	(tobacco* or nicotin* or cigar* or cigs).ti,ab.	3678
4	(tobacco* or nicotin* or cigar* or cigs).sh.	1672
5	(ecig* or e-cig* or e-voke* or vape* or vaping).ti,ab.	73
6	(ecig* or e-cig* or e-voke* or vape* or vaping).sh.	0
7	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).ti,ab.	12
8	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).sh.	1
9	(bupropion* or zyban* or varenicline* or champix* or nicorette* or niquitin* or nicotinell* or nicassist*).ti,ab.	123
10	(bupropion* or zyban* or varenicline* or champix* or nicorette* or niquitin* or nicotinell* or nicassist*).sh.	0
11	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).ti,ab.	13
12	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).sh.	0
13	or/1-12	9448
14	((digital* or digitis* or digitiz* or electronic* or wireless or online) adj3 (intervention* or communicat* or technol* or media* or market* or campaign* or advert* or ad or ads or commercial* or device* or platform* or forum* or community* or communities* or discussion*)).ti,ab.	658
15	(digital* or digitis* or digitiz* or electronic* or wireless or online).sh.	1992

16	(ehealth* or e-health* or mhealth* or m-health* or mobile health*).ti,ab.	314
17	(ehealth* or e-health* or mhealth* or m-health* or mobile health*).sh.	80
18	((laptop or palm or handheld or tablet or pda or pc) adj3 comput*).ti,ab.	62
19	(laptop or palm or handheld or tablet or pda or pc).sh.	0
20	((mobile* or cell* or tablet*) adj (phone* or telephone* or handset* or hand-set*).ti,ab.	298
21	(mobile phone* or mobile telephone* or cell phone* or cell telephone* or cellular phone* or cellular telephone*).sh.	278
22	(smartphone* or smart-phone* or smart telephone* or iphone* or i-phone* or ipad* or i-pad* or blackberry* or smartwatch* or smart-watch* or android or device-based or mobile-based or podcast*).ti,ab.	138
23	(smartphone* or smart-phone* or smart telephone* or iphone* or i-phone* or ipad* or i-pad* or blackberry* or smartwatch* or smart-watch* or android or device-based or mobile-based or podcast*).sh.	3
24	((mobile or electronic* or digital*) adj3 (device* or tablet* or application*).ti,ab.	143
25	(mobile device* or mobile application* or electronic device* or electronic application* or digital device* or digital application*).sh.	0
26	(app or apps or online* or on-line* or internet* or www or web or website* or webpage* or webcast* or portal or search engine*).ti,ab.	9054
27	(app or apps or online* or on-line* or internet* or www or web or website* or webpage* or webcast* or portal or search engine*).sh.	2424
28	(social media* or social network* or blog* or vlog* or video-blog*).ti,ab.	790
29	(social media* or social network* or blog* or vlog* or video-blog*).sh.	380
30	(Bebo* or Facebook* or YouTube* or Twitter* or LinkedIn* or Pinterest* or Google* or Tumblr* or Instagram* or WhatsApp* or Reddit* or Flickr* or SnapChat* or Yahoo* or Bing* or MSN* or Wikipedia* or Myspace*).ti,ab.	610
31	(Bebo* or Facebook* or YouTube* or Twitter* or LinkedIn* or Pinterest* or Google* or Tumblr* or Instagram* or WhatsApp* or Reddit* or Flickr* or SnapChat* or Yahoo* or Bing* or MSN* or Wikipedia* or Myspace*).sh.	3

32	(text messag* or texting or texter* or texted or SMS or short messag* or multimedia messag* or multi-media messag* or mms or instant messag*).ti,ab.	223
33	(text messag* or texting or texter* or texted or SMS or short messag* or multimedia messag* or multi-media messag* or mms or instant messag*).sh.	84
34	(advergame or advergimes or advergaming).ti,ab.	3
35	(advergame or advergimes or advergaming).sh.	0
36	(marketing or advertis* or publicis* or publiciz* or publicity or mass media or media campaign* or communication* media*).ti,ab.	3413
37	(marketing or advertis* or publicis* or publiciz* or publicity or mass media or media campaign* or communication* media*).sh.	2104
38	((tv or television* or televize* or televise* or cable or satellite or cinema* or movie* or media or newspaper* or journal* or magazine* or interactive* or dvd or dvds or video* or tape or tapes or cassette* or motion picture* or film or films or broadcast* or radio* or audio* or telecommunicat*) adj3 (market* or campaign* or advert* or ad or ads or commercial* or program* or intervention* or information*)).ti,ab.	1360
39	(tv or television* or televize* or televise* or cinema* or movie* or media or newspaper* or magazine* or interactive* or dvd or dvds or video* or tape or tapes or cassette* or motion picture* or film or films or broadcast* or radio* or audio* or telecommunicat* or marketing* or campaign* or advert* or commercials*).sh.	4469
40	((pamphlet* or handout* or hand out* or booklet* or leaflet* or literature or poster or posters or publication* or viral* or buzz*) adj3 (market* or campaign* or advert* or commercial* or program* or intervention* or information*)).ti,ab.	991
41	(pamphlet* or handout* or hand out* or booklet* or leaflet* or literature or poster or posters or publication* or viral* or buzz*).sh.	549
42	((outreach* or written* or printed* or oral* or campaign* or resource* or disseminat*) adj1 information).ti,ab.	808
43	(outreach* or disseminat*).sh.	1083
44	((nationwide* or statewide* or countrywide* or citywide* or national* or nation wide* or state wide* or country wide* or city wide* or government*) adj3 (market* or campaign* or advert* or commercial* or program* or intervention* or information*)).ti,ab.	2998

45	(nationwide* or statewide* or countrywide* or citywide* or national* or nation wide* or state wide* or country wide* or city wide* or government publication*).sh.	3465
46	or/14-45	29444
47	13 and 46	1184
48	(young* adj2 (adult* or person* or people* or men or man or women or woman or male* or female*)).ti,ab.	8289
49	young*.sh.	10934
50	(child* or adolescen* or kid or kids or youth* or youngster* or minor or minors or underage* or under-age* or "under age*" or teen or teens or teenager* or juvenile* or boy or boys or boyhood or girl or girls or girlhood or schoolchild* or "school age*" or schoolage* or pupil or pupils or student*).ti,ab.	42200
51	(child* or adolescen* or kid or kids or youth* or youngster* or minor or minors or underage* or under-age* or "under age*" or teen or teens or teenager* or juvenile* or boy or boys or boyhood or girl or girls or girlhood or schoolchild* or "school age*" or schoolage* or pupil or pupils or student*).sh.	27662
52	("under 18" or "under eighteen*" or "under 25" or "under twenty five*").ti,ab.	202
53	("under 18" or "under eighteen*" or "under 25" or "under twenty five*").sh.	0
54	("twelve" or "thirteen" or "fourteen" or "fifteen" or "sixteen" or "seventeen" or "eighteen" or "nineteen" or "twenty" or "twenty one" or "twenty two" or "twenty three" or "twenty four") adj2 (year or years or age or ages or aged)).ti,ab.	607
55	("twelve" or "thirteen" or "fourteen" or "fifteen" or "sixteen" or "seventeen" or "eighteen" or "nineteen" or "twenty" or "twenty one" or "twenty two" or "twenty three" or "twenty four").sh.	0
56	("12" or "13" or "14" or "15" or "16" or "17" or "18" or "19" or "20" or "21" or "22" or "23" or "24") adj2 (year or years or age or ages or aged)).ti,ab.	10181
57	("12" or "13" or "14" or "15" or "16" or "17" or "18" or "19" or "20" or "21" or "22" or "23" or "24").sh.	0
58	or/48-57	57406
59	47 and 58	416

60 limit 59 to yr="1998 -Current"

354

3.1.6 Database name: MEDLINE

Database(s): **Ovid MEDLINE(R)** 1946 to September 20, 2018

Search Strategy:

#	Searches	Results
1	exp "tobacco use"/	1842
2	tobacco/	28763
3	"tobacco use disorder"/	10397
4	"tobacco use cessation"/	1029
5	"tobacco use cessation products"/	1491
6	smoking/	133449
7	exp Pipe smoking/	58
8	smoking reduction/	14
9	"smoking cessation"/	25932
10	vaping/	182
11	nicotine/	24133
12	Smokers/	426
13	exp Smoking Devices/	7693
14	smoking prevention/	17381
15	Varenicline/	1122
16	Bupropion/	2852
17	(smoking* or smoker* or antismok* or anti smok* or anti-smok*).ti,ab.	201673
18	(tobacco* or nicotin* or cigar* or cigs).ti,ab.	178654
19	(ecig* or e-cig* or e-voke* or vape* or vaping).ti,ab.	1853
20	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).ti,ab.	473

21	(bupropion* or zyban* or varenicline* or champix* or nicotine* or niquitin* or nicotinell* or nicassist*).ti,ab.	4520
22	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).ti,ab.	1396
23	or/1-22	352825
24	Multimedia/	1789
25	exp tape recording/	15221
26	Computers, Handheld/	3250
27	Internet/	65890
28	Blogging/	883
29	Social Networking/	2171
30	Social Media/	4987
31	Electronic Mail/	2452
32	Cell Phone/	7451
33	Text Messaging/	2014
34	Smartphone/	2213
35	video games/	4352
36	mobile applications/	3357
37	((digital* or digitis* or digitiz* or electronic* or wireless or online) adj3 (intervention* or communicat* or technol* or media* or market* or campaign* or advert* or ad or ads or commercial* or device* or platform* or forum* or community* or communities* or discussion*)).ti,ab.	19718
38	(ehealth* or e-health* or mhealth* or m-health* or mobile health*).ti,ab.	4746
39	((laptop or palm or handheld or tablet or pda or pc) adj3 comput*).ti,ab.	2541
40	((mobile* or cell* or tablet*) adj (phone* or telephone* or handset* or hand-set*).ti,ab.	7227

41	(smartphone* or smart-phone* or smart telephone* or iphone* or i-phone* or ipad* or i-pad* or blackberry* or smartwatch* or smart-watch* or android or device-based or mobile-based or podcast*).ti,ab.	8857
42	((mobile or electronic* or digital*) adj3 (device* or tablet* or application*)).ti,ab.	11040
43	(app or apps or online* or on-line* or internet* or www or web or website* or webpage* or webcast* or portal or search engine*).ti,ab.	267371
44	(social media* or social network* or blog* or vlog* or video-blog*).ti,ab.	15642
45	(Bebo* or Facebook* or YouTube* or Twitter* or LinkedIn* or Pinterest* or Google* or Tumblr* or Instagram* or WhatsApp* or Reddit* or Flickr* or SnapChat* or Yahoo* or Bing* or MSN* or Wikipedia* or Myspace*).ti,ab.	29464
46	(e-mail* or email* or electronic mail* or mailing list*).ti,ab.	11581
47	(text messag* or texting or texter* or texted or SMS or short messag* or multimedia messag* or multi-media messag* or mms or instant messag*).ti,ab.	10029
48	(advergame or advergaming).ti,ab.	19
49	Telephone/	11001
50	exp mass media/	43648
51	information dissemination/	14613
52	persuasive communication/	3454
53	nonverbal communication/	3904
54	exp serial publications/	49285
55	pamphlets/	3684
56	telecommunications/	4690
57	exp marketing/	33420
58	communications media/	1414
59	Government Publications as Topic/	694

60	Audiovisual Aids/	6733
61	(marketing or advertis* or publicis* or publiciz* or publicity or mass media or media campaign* or communication* media*).ti,ab.	40659
62	((tv or television* or televize* or televise* or cable or satellite or cinema* or movie* or media or newspaper* or journal* or magazine* or interactive* or dvd or dvds or video* or tape or tapes or cassette* or motion picture* or film or films or broadcast* or radio* or audio* or telecommunicat*) adj3 (market* or campaign* or advert* or ad or ads or commercial* or program* or intervention* or information*)).ti,ab.	29415
63	((pamphlet* or handout* or hand out* or booklet* or leaflet* or literature or poster or posters or publication* or viral* or buzz*) adj3 (market* or campaign* or advert* or commercial* or program* or intervention* or information*)).ti,ab.	9884
64	((outreach* or written* or printed* or oral* or campaign* or resource* or disseminat*) adj1 information).ti,ab.	6556
65	((nationwide* or statewide* or countrywide* or citywide* or national* or nation wide* or state wide* or country wide* or city wide* or government*) adj3 (market* or campaign* or advert* or commercial* or program* or intervention* or information)).ti,ab.	32970
66	or/24-65	606896
67	23 and 66	16439
68	minors/	2466
69	Adolescent Behavior/ or Adolescent/ or Adolescent Health/ or Adolescent Development/	1885101
70	Child Behavior/ or Child/ or Child Development/	1600512
71	young adult/	687201
72	students/	50230
73	(young* adj2 (adult* or person* or people* or men or man or women or woman or male* or female*)).ti,ab.	182877
74	(child* or adolescen* or kid or kids or youth* or youngster* or minor or minors or underage* or under-age* or "under age*" or teen or teens or teenager* or juvenile* or boy	1772138

or boys or boyhood or girl or girls or girlhood or schoolchild* or "school age*" or schoolage* or pupil or pupils or student*).ti,ab.	
75 ("under 18" or "under eighteen*" or "under 25" or "under twenty five*").ti,ab.	3061
(("twelve" or "thirteen" or "fourteen" or "fifteen" or "sixteen" or "seventeen" or "eighteen" or "nineteen" or "twenty" or "twenty one" or "twenty two" or "twenty three" or "twenty four") adj2 (year or years or age or ages or aged)).ti,ab.	36970
77 ("12" or "13" or "14" or "15" or "16" or "17" or "18" or "19" or "20" or "21" or "22" or "23" or "24") adj2 (year or years or age or ages or aged)).ti,ab.	731508
78 or/68-77	4026228
79 67 and 78	7707
80 Animals/ not (Animals/ and Humans/)	4463817
81 79 not 80	7689
82 limit 81 to (letter or historical article or comment or editorial or news or case reports)	397
83 81 not 82	7292
84 limit 83 to english language	6887
85 limit 84 to yr="1998 -Current"	6147

3.1.7 Database name: MEDLINE-in-Process (including Epub Ahead-of-Print)

Database(s): **Ovid MEDLINE(R) Epub Ahead of Print** September 20, 2018, **Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations** September 20, 2018

Search Strategy:

#	Searches	Results
1	(smoking* or smoker* or antismok* or anti smok* or anti-smok*).ti,ab.	23714
2	(tobacco* or nicotin* or cigar* or cigs).ti,ab.	20894
3	(ecig* or e-cig* or e-voke* or vape* or vaping).ti,ab.	917
4	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).ti,ab.	89
5	(bupropion* or zyban* or varenicline* or champix* or nicorette* or niquitin* or nicotinell* or nicassist*).ti,ab.	598
6	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).ti,ab.	439
7	or/1-6	37404
8	((digital* or digitis* or digitiz* or electronic* or wireless or online) adj3 (intervention* or communicat* or technol* or media* or market* or campaign* or advert* or ad or ads or commercial* or device* or platform* or forum* or community* or communities* or discussion*).ti,ab.	10943
9	(ehealth* or e-health* or mhealth* or m-health* or mobile health*).ti,ab.	1960
10	((laptop or palm or handheld or tablet or pda or pc) adj3 comput*).ti,ab.	492
11	((mobile* or cell* or tablet*) adj (phone* or telephone* or handset* or hand-set*).ti,ab.	2193
12	(smartphone* or smart-phone* or smart telephone* or iphone* or i-phone* or ipad* or i-pad* or blackberry* or smartwatch* or smart-watch* or android or device-based or mobile-based or podcast*).ti,ab.	4998
13	((mobile or electronic* or digital*) adj3 (device* or tablet* or application*).ti,ab.	9427
14	(app or apps or online* or on-line* or internet* or www or web or website* or webpage* or webcast* or portal or search engine*).ti,ab.	61328

15	(social media* or social network* or blog* or vlog* or video-blog*).ti,ab.	5210
16	(Bebo* or Facebook* or YouTube* or Twitter* or LinkedIn* or Pinterest* or Google* or Tumblr* or Instagram* or WhatsApp* or Reddit* or Flickr* or SnapChat* or Yahoo* or Bing* or MSN* or Wikipedia* or Myspace*).ti,ab.	9279
17	(e-mail* or email* or electronic mail* or mailing list*).ti,ab.	2921
18	(text messag* or texting or texter* or texted or SMS or short messag* or multimedia messag* or multi-media messag* or mms or instant messag*).ti,ab.	2257
19	(advergame or advergaming).ti,ab.	4
20	(marketing or advertis* or publicis* or publiciz* or publicity or mass media or media campaign* or communication* media*).ti,ab.	6191
21	((tv or television* or televize* or televise* or cable or satellite or cinema* or movie* or media or newspaper* or journal* or magazine* or interactive* or dvd or dvds or video* or tape or tapes or cassette* or motion picture* or film or films or broadcast* or radio* or audio* or telecommunicat*) adj3 (market* or campaign* or advert* or ad or ads or commercial* or program* or intervention* or information*)).ti,ab.	5061
22	((pamphlet* or handout* or hand out* or booklet* or leaflet* or literature or poster or posters or publication* or viral* or buzz*) adj3 (market* or campaign* or advert* or commercial* or program* or intervention* or information*)).ti,ab.	1781
23	((outreach* or written* or printed* or oral* or campaign* or resource* or disseminat*) adj1 information).ti,ab.	953
24	((nationwide* or statewide* or countrywide* or citywide* or national* or nation wide* or state wide* or country wide* or city wide* or government*) adj3 (market* or campaign* or advert* or commercial* or program* or intervention* or information*)).ti,ab.	4945
25	or/8-24	104753
26	7 and 25	2468
27	(young* adj2 (adult* or person* or people* or men or man or women or woman or male* or female*)).ti,ab.	26635
28	(child* or adolescen* or kid or kids or youth* or youngster* or minor or minors or underage* or under-age* or "under age*" or teen or teens or teenager* or juvenile* or boy or boys or	219665

boyhood or girl or girls or girlhood or schoolchild* or "school age*" or schoolage* or pupil or pupils or student*).ti,ab.	
29 ("under 18" or "under eighteen*" or "under 25" or "under twenty five*").ti,ab.	436
(("twelve" or "thirteen" or "fourteen" or "fifteen" or "sixteen" or "seventeen" or "eighteen" or "nineteen" or "twenty" or "twenty one" or "twenty two" or "twenty three" or "twenty four") adj2 (year or years or age or ages or aged)).ti,ab.	4684
31 ("12" or "13" or "14" or "15" or "16" or "17" or "18" or "19" or "20" or "21" or "22" or "23" or "24") adj2 (year or years or age or ages or aged)).ti,ab.	98867
32 or/27-31	299486
33 26 and 32	913
34 limit 33 to english language	903
35 limit 34 to yr="1998 -Current"	891

3.1.8 Database name: PsycINFO

Database(s): **PsycINFO** 1806 to September Week 3 2018

Search Strategy:

#	Searches	Results
1	tobacco smoking/	29006
2	smoking cessation/	12164
3	electronic cigarettes/	715
4	nicotine/	10382
5	bupropion/	915
6	(smoking* or smoker* or antismok* or anti smok* or anti-smok*).ti,ab.	47251
7	(tobacco* or nicotin* or cigar* or cigs).ti,ab.	43804
8	(ecig* or e-cig* or e-voke* or vape* or vaping).ti,ab.	1012
9	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).ti,ab.	82
10	(bupropion* or zyban* or varenicline* or champix* or nicorette* or niquitin* or nicotinell* or nicassist*).ti,ab.	2600
11	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).ti,ab.	514
12	or/1-11	67995
13	exp multimedia/	27134
14	internet/	27725
15	blog/	392
16	online social networks/	6614
17	internet usage/	2095
18	online community/	703
19	social media/	5660

20	websites/	4528
21	computer mediated communication/	5376
22	text messaging/	674
23	exp mobile devices/	5852
24	computer games/	6527
25	((digital* or digitis* or digitiz* or electronic* or wireless or online) adj3 (intervention* or communicat* or technol* or media* or market* or campaign* or advert* or ad or ads or commercial* or device* or platform* or forum* or community* or communities* or discussion*)).ti,ab.	18701
26	(ehealth* or e-health* or mhealth* or m-health* or mobile health*).ti,ab.	1690
27	((laptop or palm or handheld or tablet or pda or pc) adj3 comput*).ti,ab.	1183
28	((mobile* or cell* or tablet*) adj (phone* or telephone* or handset* or hand-set*).ti,ab.	4654
29	(smartphone* or smart-phone* or smart telephone* or iphone* or i-phone* or ipad* or i-pad* or blackberry* or smartwatch* or smart-watch* or android or device-based or mobile-based or podcast*).ti,ab.	4689
30	((mobile or electronic* or digital*) adj3 (device* or tablet* or application*).ti,ab.	4409
31	(app or apps or online* or on-line* or internet* or www or web or website* or webpage* or webcast* or portal or search engine*).ti,ab.	127681
32	(social media* or social network* or blog* or vlog* or video-blog*).ti,ab.	30397
33	(Bebo* or Facebook* or YouTube* or Twitter* or LinkedIn* or Pinterest* or Google* or Tumblr* or Instagram* or WhatsApp* or Reddit* or Flickr* or SnapChat* or Yahoo* or Bing* or MSN* or Wikipedia* or Myspace*).ti,ab.	22824
34	(e-mail* or email* or electronic mail* or mailing list*).ti,ab.	8972
35	(text messag* or texting or texter* or texted or SMS or short messag* or multimedia messag* or multi-media messag* or mms or instant messag*).ti,ab.	4320
36	(advergame or advergames or advergaming).ti,ab.	92

37	telephone systems/	1931
38	exp mass media/	39802
39	information dissemination/	1563
40	persuasive communication/	4980
41	telecommunications media/	1370
42	exp marketing/	21035
43	exp advertising/	12229
44	communications media/	3371
45	audiovisual instruction/	527
46	(marketing or advertis* or publicis* or publiciz* or publicity or mass media or media campaign* or communication* media*).ti,ab.	47444
47	((tv or television* or televize* or televise* or cable or satellite or cinema* or movie* or media or newspaper* or journal* or magazine* or interactive* or dvd or dvds or video* or tape or tapes or cassette* or motion picture* or film or films or broadcast* or radio* or audio* or telecommunicat*) adj3 (market* or campaign* or advert* or ad or ads or commercial* or program* or intervention* or information*)).ti,ab.	18700
48	((pamphlet* or handout* or hand out* or booklet* or leaflet* or literature or poster or posters or publication* or viral* or buzz*) adj3 (market* or campaign* or advert* or commercial* or program* or intervention* or information*)).ti,ab.	6342
49	((outreach* or written* or printed* or oral* or campaign* or resource* or disseminat*) adj1 information).ti,ab.	2997
50	((nationwide* or statewide* or countrywide* or citywide* or national* or nation wide* or state wide* or country wide* or city wide* or government*) adj3 (market* or campaign* or advert* or commercial* or program* or intervention* or information*)).ti,ab.	8906
51	or/13-50	300883
52	12 and 51	7492
53	adolescent development/	44940

54 adolescent attitudes/	18792
55 adolescent characteristics/	2659
56 Childhood Development/	64832
57 child attitudes/	7015
58 child characteristics/	2136
59 Students/	22109
60 College Students/	71778
61 Community College Students/	1728
62 Junior College Students/	231
63 Middle School Students/	7961
64 High School Students/	30340
65 Junior High School Students/	11466
66 (young* adj2 (adult* or person* or people* or men or man or women or woman or male* or female*)).ti,ab.	100413
67 (child* or adolescen* or kid or kids or youth* or youngster* or minor or minors or underage* or under-age* or "under age*" or teen or teens or teenager* or juvenile* or boy or boys or boyhood or girl or girls or girlhood or schoolchild* or "school age*" or schoolage* or pupil or pupils or student*).ti,ab.	1258155
68 ("under 18" or "under eighteen*" or "under 25" or "under twenty five*").ti,ab.	881
69 ("twelve" or "thirteen" or "fourteen" or "fifteen" or "sixteen" or "seventeen" or "eighteen" or "nineteen" or "twenty" or "twenty one" or "twenty two" or "twenty three" or "twenty four") adj2 (year or years or age or ages or aged)).ti,ab.	11069
70 ("12" or "13" or "14" or "15" or "16" or "17" or "18" or "19" or "20" or "21" or "22" or "23" or "24") adj2 (year or years or age or ages or aged)).ti,ab.	265669
71 or/53-70	1449432
72 52 and 71	3625

73 limit 72 to ("column/opinion" or editorial or letter)	58
74 72 not 73	3567
75 limit 74 to animal	26
76 74 not 75	3541
77 limit 76 to english language	3428
78 limit 77 to yr="1998 -Current"	3163

3.1.9 Database name: Social Policy and Practice (SPP)

Database(s): **Social Policy and Practice** 201807

Search Strategy:

#	Searches	Results
1	(smoking* or smoker* or antismok* or anti smok* or anti-smok*).ti,ab.	1373
2	(smoking* or smoker* or antismok* or anti smok* or anti-smok*).sh.	858
3	(tobacco* or nicotin* or cigar* or cigs).ti,ab.	647
4	(tobacco* or nicotin* or cigar* or cigs).sh.	226
5	(ecig* or e-cig* or e-voke* or vape* or vaping).ti,ab.	4
6	(ecig* or e-cig* or e-voke* or vape* or vaping).sh.	0
7	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).ti,ab.	0
8	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).sh.	0
9	(bupropion* or zyban* or varenicline* or champix* or nicorette* or niquitin* or nicotinell* or nicassist*).ti,ab.	4
10	(bupropion* or zyban* or varenicline* or champix* or nicorette* or niquitin* or nicotinell* or nicassist*).sh.	2
11	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).ti,ab.	5
12	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).sh.	4
13	or/1-12	1913
14	((digital* or digitis* or digitiz* or electronic* or wireless or online) adj3 (intervention* or communicat* or technol* or media* or market* or campaign* or advert* or ad or ads or commercial* or device* or platform* or forum* or community* or communities* or discussion*)).ti,ab.	919
15	(digital* or digitis* or digitiz* or electronic* or wireless or online).sh.	711
16	(ehealth* or e-health* or mhealth* or m-health* or mobile health*).ti,ab.	45

17	(ehealth* or e-health* or mhealth* or m-health* or mobile health*).sh.	0
18	((laptop or palm or handheld or tablet or pda or pc) adj3 comput*).ti,ab.	44
19	(laptop or palm or handheld or tablet or pda or pc).sh.	6
20	((mobile* or cell* or tablet*) adj (phone* or telephone* or handset* or hand-set*)).ti,ab.	286
21	(mobile phone* or mobile telephone* or cell phone* or cell telephone* or cellular phone* or cellular telephone*).sh.	214
22	(smartphone* or smart-phone* or smart telephone* or iphone* or i-phone* or ipad* or i-pad* or blackberry* or smartwatch* or smart-watch* or android or device-based or mobile-based or podcast*).ti,ab.	114
23	(smartphone* or smart-phone* or smart telephone* or iphone* or i-phone* or ipad* or i-pad* or blackberry* or smartwatch* or smart-watch* or android or device-based or mobile-based or podcast*).sh.	1
24	((mobile or electronic* or digital*) adj3 (device* or tablet* or application*)).ti,ab.	130
25	(mobile device* or mobile application* or electronic device* or electronic application* or digital device* or digital application*).sh.	1
26	(app or apps or online* or on-line* or internet* or www or web or website* or webpage* or webcast* or portal or search engine*).ti,ab.	7910
27	(app or apps or online* or on-line* or internet* or www or web or website* or webpage* or webcast* or portal or search engine*).sh.	3547
28	(social media* or social network* or blog* or vlog* or video-blog*).ti,ab.	2423
29	(social media* or social network* or blog* or vlog* or video-blog*).sh.	3143
30	(Bebo* or Facebook* or YouTube* or Twitter* or LinkedIn* or Pinterest* or Google* or Tumblr* or Instagram* or WhatsApp* or Reddit* or Flickr* or SnapChat* or Yahoo* or Bing* or MSN* or Wikipedia* or Myspace*).ti,ab.	3795
31	(Bebo* or Facebook* or YouTube* or Twitter* or LinkedIn* or Pinterest* or Google* or Tumblr* or Instagram* or WhatsApp* or Reddit* or Flickr* or SnapChat* or Yahoo* or Bing* or MSN* or Wikipedia* or Myspace*).sh.	62

32	(text messag* or texting or texter* or texted or SMS or short messag* or multimedia messag* or multi-media messag* or mms or instant messag*).ti,ab.	111
33	(text messag* or texting or texter* or texted or SMS or short messag* or multimedia messag* or multi-media messag* or mms or instant messag*).sh.	1
34	(advergame or advergaming).ti,ab.	0
35	(advergame or advergaming).sh.	0
36	(marketing or advertis* or publicis* or publiciz* or publicity or mass media or media campaign* or communication* media*).ti,ab.	2155
37	(marketing or advertis* or publicis* or publiciz* or publicity or mass media or media campaign* or communication* media*).sh.	2088
38	((tv or television* or televize* or televise* or cable or satellite or cinema* or movie* or media or newspaper* or journal* or magazine* or interactive* or dvd or dvds or video* or tape or tapes or cassette* or motion picture* or film or films or broadcast* or radio* or audio* or telecommunicat*) adj3 (market* or campaign* or advert* or ad or ads or commercial* or program* or intervention* or information*)).ti,ab.	635
39	(tv or television* or televize* or televise* or cinema* or movie* or media or newspaper* or magazine* or interactive* or dvd or dvds or video* or tape or tapes or cassette* or motion picture* or film or films or broadcast* or radio* or audio* or telecommunicat* or marketing* or campaign* or advert* or commercials*).sh.	2947
40	((pamphlet* or handout* or hand out* or booklet* or leaflet* or literature or poster or posters or publication* or viral* or buzz*) adj3 (market* or campaign* or advert* or commercial* or program* or intervention* or information*)).ti,ab.	659
41	(pamphlet* or handout* or hand out* or booklet* or leaflet* or literature or poster or posters or publication* or viral* or buzz*).sh.	200
42	((outreach* or written* or printed* or oral* or campaign* or resource* or disseminat*) adj1 information).ti,ab.	371
43	(outreach* or disseminat*).sh.	548
44	((nationwide* or statewide* or countrywide* or citywide* or national* or nation wide* or state wide* or country wide* or city wide* or government*) adj3 (market* or campaign* or advert* or commercial* or program* or intervention* or information*)).ti,ab.	2525

45	(nationwide* or statewide* or countrywide* or citywide* or national* or nation wide* or state wide* or country wide* or city wide* or government publication*).sh.	4941
46	or/14-45	30146
47	13 and 46	266
48	(young* adj2 (adult* or person* or people* or men or man or women or woman or male* or female*)).ti,ab.	28048
49	young*.sh.	31858
50	(child* or adolescen* or kid or kids or youth* or youngster* or minor or minors or underage* or under-age* or "under age*" or teen or teens or teenager* or juvenile* or boy or boys or boyhood or girl or girls or girlhood or schoolchild* or "school age*" or schoolage* or pupil or pupils or student*).ti,ab.	96624
51	(child* or adolescen* or kid or kids or youth* or youngster* or minor or minors or underage* or under-age* or "under age*" or teen or teens or teenager* or juvenile* or boy or boys or boyhood or girl or girls or girlhood or schoolchild* or "school age*" or schoolage* or pupil or pupils or student*).sh.	73843
52	("under 18" or "under eighteen*" or "under 25" or "under twenty five*").ti,ab.	340
53	("under 18" or "under eighteen*" or "under 25" or "under twenty five*").sh.	8
54	("twelve" or "thirteen" or "fourteen" or "fifteen" or "sixteen" or "seventeen" or "eighteen" or "nineteen" or "twenty" or "twenty one" or "twenty two" or "twenty three" or "twenty four") adj2 (year or years or age or ages or aged)).ti,ab.	895
55	("twelve" or "thirteen" or "fourteen" or "fifteen" or "sixteen" or "seventeen" or "eighteen" or "nineteen" or "twenty" or "twenty one" or "twenty two" or "twenty three" or "twenty four").sh.	2
56	("12" or "13" or "14" or "15" or "16" or "17" or "18" or "19" or "20" or "21" or "22" or "23" or "24") adj2 (year or years or age or ages or aged)).ti,ab.	11120
57	("12" or "13" or "14" or "15" or "16" or "17" or "18" or "19" or "20" or "21" or "22" or "23" or "24").sh.	0
58	or/48-57	118349
59	47 and 58	129

60 limit 59 to yr="1998 -Current"

111

3.2 Supplementary search techniques

3.2.1 Surveillance reviews

The following papers were extracted from the surveillance review for PH14 and added to the EndNote file.

Langley T, Szatkowski L, Lewis S, McNeill A, Gilmore AB, Salway R, Sims M. (2014). The freeze on mass media campaigns in England: a natural experiment of the impact of tobacco control campaigns on quitting behaviour. *Addiction* 2014; 109:995-1002.

Langley T, Lewis S, McNeill A, Gilmore A, Szatkowski L, West R, Sims M. (2013). Characterising tobacco control mass media campaigns in England. *Addiction* 2013

Langley TE, McNeill A, Lewis S, Szatkowski L, Quinn C. (2012). The impact of media campaigns on smoking cessation activity: A structural vector autoregression analysis. *Addiction* 2012

Sims M, Salway R, Langley T, Lewis S, McNeill A, Szatkowski L, Gilmore AB. (2014). Effectiveness of tobacco control television advertising in changing tobacco use in England: a population-based cross-sectional study. *Addiction* 2014; 109: 986-994.

Smokefree SouthWest. (2014). Be There Tomorrow. A campaign that changed the behaviour of 125,000 smokers in the South West. June 2014

U.S. Department of Health and Human Services. (2012). *Preventing Tobacco Use Among Youth and Young Adults: A report of the Surgeon General*. <http://www.surgeongeneral.gov/library/reports/preventing-youth-tobacco-use/full-report.pdf>

U.S. National Cancer Institute. Monograph 19. The Role of the Media in Promoting and Reducing Tobacco Use <http://cancercontrol.cancer.gov/brp/tcrb/monographs/19/index.html>

3.2.2 Scoping searches

The following papers were identified during the scoping searches for this topic and added to the EndNote file

Carson-Chahhoud KV et al. Massmedia interventions for preventing smoking in young people (Review) Cochrane Database of Systematic Reviews

Fallin A, Neilands TB, Jordan JW, Hong JS, Ling PM. Wreaking "HAVOC" on smoking: Social branding to reach young adult 'Partiers' in Oklahoma. *American Journal of Preventive Medicine* 2015;48(1S1):S78–85.

Siegel M, Biener L (2000) The impact of an antismoking media campaign on progression to established smoking: results of a longitudinal youth study. *American Journal of Public Health*, 90(3): 380-386.

Smith KH, Stutts MA (2006) The Influence of Individual Factors on the Effectiveness of Message Content in Antismoking Advertisements Aimed at Adolescents. *Journal of Consumer Affairs*, 40(2): 261-293.

3.2.3 Forward citation searching

The following 8 papers were identified during the scoping searches and they were used for citation searching in Web of Science. Only those references that could be accessed through the NICE subscription to WOS were added to the search results. This used Web of Science Core Collection (1990-present). The citations were added to the marked list in WOS and then the papers published before 1998 were excluded. Duplicates were removed from the marked list in WOS before downloading the results.

Completed 21/09/18 using "Web of Science Core Collection (1990-present)".

Total added to marked list = 237 citations

Carson-Chahhoud KV et al. Massmedia interventions for preventing smoking in young people (Review) *Cochrane Database of Systematic Reviews* 30 citations

Fallin A, Neilands TB, Jordan JW, Hong JS, Ling PM. Wreaking "HAVOC" on smoking: Social branding to reach young adult 'Partiers' in Oklahoma. *American Journal of Preventive Medicine* 2015;48(1S1):S78–85. 15 citations

Langley T, Szatkowski L, Lewis S, McNeill A, Gilmore AB, Salway R, Sims M. (2014). The freeze on mass media campaigns in England: a natural experiment of the impact of tobacco control campaigns on quitting behaviour. *Addiction* 2014; 109:995-1002. 15 citations

Langley T, Lewis S, McNeill A, Gilmore A, Szatkowski L, West R, Sims M. (2013). Characterising tobacco control mass media campaigns in England. *Addiction* 2013

Langley TE, McNeill A, Lewis S, Szatkowski L, Quinn C. (2012). The impact of media campaigns on smoking cessation activity: A structural vector autoregression analysis. *Addiction* 2012 10 citations

Siegel M, Biener L (2000) The impact of an antismoking media campaign on progression to established smoking: results of a longitudinal youth study. *American Journal of Public Health*, 90(3): 380-386. 153 citations

Sims M, Salway R, Langley T, Lewis S, McNeill A, Szatkowski L, Gilmore AB. (2014). Effectiveness of tobacco control television advertising in changing tobacco use in England: a population-based cross-sectional study. *Addiction* 2014; 109: 986-994. 25 citations

Smith KH, Stutts MA (2006) The Influence of Individual Factors on the Effectiveness of Message Content in Antismoking Advertisements Aimed at Adolescents. *Journal of Consumer Affairs*, 40(2): 261-293. 20 citations

Science Citation Index Expanded (SCI-EXPANDED) --1990-present

Social Sciences Citation Index (SSCI) --1990-present

Arts & Humanities Citation Index (A&HCI) --1990-present

Emerging Sources Citation Index (ESCI) --2015-present

3.3 Web searching

3.3.1 Search engines

Search engine	
Name	Health Services/Technology Assessment Texts (HSTAT)
URL	https://www.ncbi.nlm.nih.gov/books/NBK16710
Date searched	19/10/2018
Search terms	#1 (((((tobacco[MeSH Terms]) OR tobacco use[MeSH Terms]) OR smoking[MeSH Terms]) OR smoking cessation[MeSH Terms]) OR smoking prevention[MeSH Terms]) 2504 #2 (((smoking[Title]) OR cigarette[Title]) OR tobacco[Title]) 2258 #3 (#1 OR #2) 3780 #4 hstatcollect[filter] #5 #3 AND #4 1189 Results: 1 to 20 of 27 books (1189 items)
How the results were selected	Only selected documents if the title or abstract were directly relevant to the questions
Results	US Department of Health and Human Services (2012) Preventing tobacco use among youth and young adults. A report of the Surgeon General https://www.ncbi.nlm.nih.gov/sites/books/NBK99237/pdf/Bookshelf_NBK99237.pdf US National Cancer Institute (2008) <i>The Role of the Media in Promoting and Reducing Tobacco Use</i> . Monograph 19 https://cancercontrol.cancer.gov/brp/tcrb/monographs/19/index.html

	<p>US Institute Of Medicine of The National Academies (2007) Ending the tobacco problem. A blueprint for the nation</p> <p>https://www.nap.edu/read/11795/chapter/25</p>
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Search engine	
Name	NICE Evidence Search
URL	https://www.evidence.nhs.uk
Date searched	19/10/2018
Search terms	<p>(tobacco OR smoking OR cigarette) AND advertising* 2114 results</p> <p>(tobacco OR smoking OR cigarette) AND marketing* 2221 results</p> <p>(tobacco OR smoking OR cigarette) AND "mass media" 442 results</p> <p>(tobacco OR smoking OR cigarette) AND television* 764 results</p> <p>(tobacco OR smoking OR cigarette) AND normalisation* 163 results</p> <p>(tobacco OR smoking OR cigarette) AND denormalisation* 17 results</p>
How the results were selected	Only selected documents if the title or abstract were directly relevant to the questions. For each question, sorted by relevance and then reviewed all of the first 250 results then applied filters for 'guidance and policy' and 'practice based evidence' and reviewed 250 again, then removed filters and applied Area of Interest-Public Health and reviewed a further 250.
Results	<p>BMA (2008) Forever cool: the influence of smoking imagery on young people</p> <p>https://www.stir.ac.uk/media/stirling/services/faculties/management/documents/Angus---Forever-Cool-the-influence-of-smoking-imagery.pdf</p>

	<p>Canadian Paediatric Society (2016) Position statement. Preventing smoking in children and adolescents: Recommendations for practice and policy https://www.cps.ca/en/documents/position/preventing-smoking</p> <p>European Centre for Disease Prevention and Control (2016) ECDC Technical Document. Social media strategy development: a guide to using social media for public health communication https://ecdc.europa.eu/sites/portal/files/media/en/publications/Publications/social-media-strategy-guide-for-public-health-communication.pdf</p> <p>Liverpool John Moores University Centre for Public Health (2011) Challenging the tobacco industry – is there a role for industry denormalisation to promote reductions in youth smoking in the UK? A review of the evidence https://phi.ljmu.ac.uk/wp-content/uploads/2012/08/challenging-the-tobacco-industry---is-there-a-role-for-industry-denormalisation-to-promote-reductions-in-youth-smoking-in-the-uk---a-review-of-the-evidence.pdf</p> <p>Liverpool John Moores University Centre for Public Health (2011) Challenging the Tobacco Industry - is there a role for industry denormalisation to promote reductions in youth smoking in the UK? Phases One and Two Final Report https://phi.ljmu.ac.uk/wp-content/uploads/2012/08/challenging-the-tobacco-industry---is-there-a-role-for-industry-de-normalisation-to-promote-reductions-in-youth-smoking-in-the-uk-phases-one-and-two-final-report.pdf</p> <p>Liverpool John Moores University Centre for Public Health (2009) Evidence relating to new tobacco control priorities that aim to protect children and young people from exposure to tobacco. Evidence review and map of tobacco control activities in the North West of England https://phi.ljmu.ac.uk/wp-content/uploads/2013/10/porcellato-2.pdf</p> <p>Liverpool John Moores University Centre for Public Health (2006) Population Targeting: Tools for Social Marketing https://phi.ljmu.ac.uk/wp-content/uploads/2012/08/synthesis-no-6-population-targeting-tools-for-social-marketing.pdf</p> <p>NICE Eyes on Evidence (2015) 'Positive' and 'negative' emotive content in tobacco control TV adverts http://arms.evidence.nhs.uk/resources/hub/1046031/attachment</p>
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	<p>The NSMC (2011) Big pocket guide to using social marketing for behaviour change http://www.thensmc.com/file/235/download?token=suDtr3iX</p> <p>Public Health Research Consortium (2009) A review of young people and smoking in England https://www.research.ed.ac.uk/portal/files/8472628/PHRC_A7_08_Final_Report.pdf</p> <p>US Food and Drug Administration (2018) FDA launches new, comprehensive campaign to warn kids about the dangers of e-cigarette use as part of agency's Youth Tobacco Prevention Plan, amid evidence of sharply rising use among kids https://www.fda.gov/NewsEvents/Newsroom/PressAnnouncements/ucm620788.htm</p> <p>World Health Organization (2014) What do we know about the strengths and weakness of different policy mechanisms to influence health behaviour in the population? http://www.euro.who.int/__data/assets/pdf_file/0003/270138/PS15-web.pdf?ua=1</p> <p>World Health Organization (2011) Smoke-free movies: from evidence to action. 2nd edition. http://www.who.int/tobacco/publications/marketing/smoke_free_movies_2nd_edition/en/</p>
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Search engine	
Name	Tobacco Control Database for the WHO European Region
URL	http://data.euro.who.int/tobacco
Date searched	19/10/2018
Search terms	<p>The database just returned an error message so browsed http://www.euro.who.int/en/health-topics/disease-prevention/tobacco</p> <p>http://www.euro.who.int/en/health-topics/disease-prevention/tobacco/publications/a-z-list-of-all-publications2</p> <p>http://apps.who.int/iris/browse</p>

	<p>Searched for tobacco, smoking, cigarettes</p> <p>Searched for mass media, advertising, marketing.</p>
How the results were selected	<p>Only selected documents if the title or abstract were directly relevant to the questions</p>
Results	<p>International Agency for Research on Cancer (2008) Methods for Evaluating Tobacco Control Policies. IARC Handbooks of Cancer Prevention Volume 12</p> <p>http://publications.iarc.fr/Book-And-Report-Series/Iarc-Handbooks-Of-Cancer-Prevention/Methods-For-Evaluating-Tobacco-Control-Policies-2008</p> <p>World Health Organization (2017) WHO report on the global tobacco epidemic, 2017. Monitoring tobacco use and prevention policies</p> <p>http://apps.who.int/iris/bitstream/handle/10665/255874/9789241512824-eng.pdf</p> <p>World Health Organization (2011) WHO report on the global tobacco epidemic 2011. Warning about the dangers of tobacco</p> <p>https://www.who.int/tobacco/global_report/2011/en/</p> <p>World Health Organization Europe (2017) Tobacco-free generations. Protecting children from tobacco in the WHO European Region</p> <p>http://www.euro.who.int/__data/assets/pdf_file/0008/343376/20170428_WHO-TobaccoFreeGeneration-DRAFT09.pdf</p> <p>World Health Organization Europe (2010) Empower Women – Combating Tobacco Industry Marketing in the WHO European Region</p> <p>http://www.euro.who.int/__data/assets/pdf_file/0014/128120/e93852.pdf?ua=1</p>

3.3.2 Website browsing

Website	
Name	Action on Smoking and Health (ASH)
URL	http://ash.org.uk/home
Date searched	18/10/2018
Search terms (including any specific sections browsed)	Browsed briefings, reports, fact sheets, information, submissions Illicit trade section Also the Scotland page https://www.ashscotland.org.uk/what-we-do/campaign/policy-reports/
Results	<p>ASH (2018) Young people and smoking http://ash.org.uk/wp-content/uploads/2015/07/FS2YoungPeople1803FINAL.pdf</p> <p>ASH (2018) Science and Technology Committee Inquiry into the Impact of social media and screen-use on young people's health http://ash.org.uk/information-and-resources/reports-submissions/submissions/ash-and-ukctas-response-to-the-select-committee-on-science-and-technology-inquiry-into-the-impact-of-social-media-and-screen-use-on-young-peoples-health/</p> <p>ASH (2016) Stoptober: ASH calls for more mass media campaigns to help smokers to quit http://ash.org.uk/media-and-news/press-releases-media-and-news/stoptober-ash-calls-for-more-mass-media-campaigns-to-help-smokers-to-quit/</p> <p>ASH (2015) Tobacco Advertising and Promotion in the UK http://ash.org.uk/download/tobacco-advertising-and-promotion-in-the-uk/</p> <p>ASH (2000) Danger! PR in the playground: tobacco industry initiatives on youth smoking http://ash.org.uk/information-and-resources/young-people-tobacco-information-and-resources/danger-pr-in-the-playground-tobacco-industry-initiatives-on-youth-smoking/</p> <p>Atusingwize, Edwinah; Lewis, Sarah; Langley, Tessa (2015) Economic evaluations of tobacco control mass media campaigns: a systematic review. <i>Tobacco Control</i>, 24(4), 320-327. This is not in EndNote because it doesn't mention young people. It's mentioned here. https://tobaccocontrol.bmj.com/content/24/4/320.short</p>

Website	
Name	Center for Disease Control and Prevention (CDC) Media Campaign Resource Center (MCRC)

URL	https://www.cdc.gov/tobacco/multimedia/media-campaigns/index.htm
Date searched	18/10/2018
Search terms (including any specific sections browsed)	Browsed https://www.cdc.gov/tobacco/basic_information/youth/index.htm
Results	None specific (already had Surgeon General reports)

Website	
Name	Fresh
URL	http://freshne.com/what-we-do/our-campaigns
Date searched	18/10/2018
Search terms (including any specific sections browsed)	Checked the press releases for any notices about reports or evaluations.
Results	None specific

Website	
Name	Local Government Association
URL	https://www.local.gov.uk
Date searched	18/10/2018
Search terms (including any specific sections browsed)	Social care, health and integration https://www.local.gov.uk/publications?topic[2495]=2495 Case studies https://www.local.gov.uk/case-studies Searched for tobacco, smoking, cigarettes, mass media
Results	Local Government Association (2018) Dorset County Council: using technology to deliver behaviour change at scale https://www.local.gov.uk/dorset-county-council-using-technology-deliver-behaviour-change-scale Local Government Association (2017) Using social media in targeted campaigns

	https://www.local.gov.uk/using-social-media-targeted-campaigns
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Website	
Name	National Centre for Smoking Cessation and Training
URL	http://www.ncsct.co.uk
Date searched	18/10/2018
Search terms (including any specific sections browsed)	Browsed sections on research briefings, clinical tools, research resources. Searched for mass media, advertising, marketing.
Results	None specific

Website	
Name	National Trading Standards
URL	http://www.nationaltradingstandards.uk
Date searched	18/10/2018
Search terms (including any specific sections browsed)	Browsed Work Areas, Documents Searched for tobacco, smoking, cigarettes Searched for mass media, advertising, marketing.
Results	None specific

Website	
Name	Northern Ireland Assembly
URL	http://www.niassembly.gov.uk/
Date searched	19/10/2018
Search terms (including any specific sections browsed)	Browsed Research and Information Service, research publications and Committee for Health, Social Services and Public Safety. Searched for tobacco, smoking, cigarettes
Results	None specific

Website	
Name	Public Health England

URL	https://www.gov.uk/government/organisations/public-health-england
Date searched	18/10/2018
Search terms (including any specific sections browsed)	<p>Searched for tobacco, smoking, cigarettes, marketing, advertising, mass media</p> <p>https://www.gov.uk/government/organisations/latest?organisations%5B%5D=public-health-england</p> <p>Searched announcements for tobacco, smoking, cigarettes, marketing, advertising, mass media</p> <p>https://www.gov.uk/government/announcements?departments%5B%5D=public-health-england</p>
Results	<p>Public Health England Campaign resource centre</p> <p>https://campaignresources.phe.gov.uk/resources/campaigns</p> <p>Public Health England (2018) Stoptober 2017: Campaign Evaluation</p> <p>https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/743844/Stoptober_2017_campaign_evaluation.pdf</p> <p>Public Health England (2017) Digital-first public health: Public Health England's digital strategy</p> <p>https://www.gov.uk/government/publications/digital-first-public-health/digital-first-public-health-public-health-englands-digital-strategy</p> <p>Public Health England (2015) Evaluation of the Be Clear on Cancer lung cancer awareness campaign regional pilot, East and West Midlands 10 October to 13 November 2011</p> <p>https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/412943/CRUK_Regional_Lung_Report_HHG.pdf</p>

Website	
Name	Royal College of Paediatrics and Child Health
URL	https://www.rcpch.ac.uk/
Date searched	19/10/2018

Search terms (including any specific sections browsed)	Searched for tobacco, smoking, cigarettes, marketing, advertising, mass media. Browsed resources and key topics. Browsed https://www.rcpch.ac.uk/resources/subject-archives-guide-smoking https://www.rcpch.ac.uk/topic/smoking-tobacco
Results	

Website	
Name	Royal College of Physicians
URL	https://www.rcplondon.ac.uk
Date searched	19/10/2018
Search terms (including any specific sections browsed)	Searched for tobacco, smoking, cigarettes Browsed the public health section https://www.rcplondon.ac.uk/projects/rcp-policy-public-health And also the tags smoking and tobacco https://www.rcplondon.ac.uk/search/topic/smoking-and-tobacco
Results	None directly relevant to these questions

Website	
Name	Scottish Government
URL	https://www.gov.scot
Date searched	19/10/2018
Search terms (including any specific sections browsed)	Searched for tobacco, smoking, cigarettes in publications https://beta.gov.scot/publications Browsed the smoking page https://www.gov.scot/Topics/Health/Services/Smoking Also used https://www.scotpho.org.uk/behaviour/tobacco-use/key-points/
Results	Scottish Government (2014) 'Take it right outside' Campaign Tracking Research Key findings – Post-campaign

	<p>https://www.gov.scot/Resource/0045/00459841.pdf</p> <p>Scottish Government (2018) Raising Scotland's tobacco-free generation: our tobacco control action plan 2018 https://beta.gov.scot/publications/raising-scotlands-tobacco-free-generation-tobacco-control-action-plan-2018/</p>
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Website	
Name	Smokefree NHS
URL	https://www.nhs.uk/smokefree
Date searched	19/10/2018
Search terms (including any specific sections browsed)	Browsed the resources section
Results	None specific e.g. assessments or evaluations – just examples of campaigns.

Website	
Name	Smoking Toolkit Study
URL	http://www.smokinginengland.info
Date searched	19/10/2018
Search terms (including any specific sections browsed)	Browsed reports, key publications, STS documents Searched for marketing, advertising, mass media.
Results	None specific – noted link to study already in EndNote. 23834209

Website	
Name	Treat Tobacco
URL	http://www.treatobacco.net/en/index.php
Date searched	19/10/2018
Search terms (including any specific sections browsed)	Followed the links from http://www.treatobacco.net/en/page_198.php

	http://www.treatobacco.net/en/page_156.php
Results	<p>US Centers for Disease Control and Prevention (2013) Impact of a National Tobacco Education Campaign on Weekly Numbers of Quitline Calls and Website Visitors</p> <p>https://www.cdc.gov/mmwr/preview/mmwrhtml/mm6237a3.htm</p> <p>US Community Guide (2013) Tobacco Use and Secondhand Smoke Exposure: Mass-Reach Health Communication Interventions</p> <p>https://www.thecommunityguide.org/findings/tobacco-use-and-secondhand-smoke-exposure-mass-reach-health-communication-interventions</p>

Website	
Name	UK Centre for Tobacco and Alcohol Studies
URL	http://ukctas.net/index.html
Date searched	19/10/2018
Search terms (including any specific sections browsed)	<p>Browsed What we do – policy, research, dissemination.</p> <p>Searched for proxy, proxies, illicit, retail</p> <p>Browsed mass media section.</p> <p>http://ukctas.net/featured-projects/massmedia.html</p>
Results	None specific. All of the cited papers already listed in EndNote.

Website	
Name	University of Bath Tobacco Control Research Group
URL	https://researchportal.bath.ac.uk/en/organisations/uk-centre-for-tobacco-control-studies
Date searched	19/10/2018
Search terms (including any specific sections browsed)	Browsed research outputs
Results	None for these questions

Website

Name	University of Stirling Centre for Tobacco Control Research
URL	https://www.stir.ac.uk/about/faculties-and-services/health-sciences-sport/research/research-groups/centre-for-tobacco-control-research/publications
Date searched	19/10/2018
Search terms (including any specific sections browsed)	Browsed publications and projects
Results	<p>These reports are listed on the website but without links and I have been unable to locate any further details – so they have not been added to the search results.</p> <p>Hastings G, Brown A and Angus K (2008) Youth Smoking: the Impact of Marketing and the Media. Background paper for World Health Organization Tobacco Free Initiative Global Consultation on Effective Youth Tobacco Control Policy Interventions. Stirling: CRUK Centre for Tobacco Control Research.</p> <p>Angus K, Brown A and Hastings G (2008) The Effect of Tobacco Control Mass Media Campaigns, Counter-Advertising, and Other Related Community Interventions on Youth Tobacco Use. Background paper for World Health Organization Tobacco Free Initiative Global Consultation on Effective Youth Tobacco Control Policy Interventions. Stirling : CRUK Centre for Tobacco Control Research.</p> <p>Checked here http://apps.who.int/iris/browse as well as other searches.</p>

Website	
Name	Welsh Government
URL	https://gov.wales/?lang=en
Date searched	19/10/2018
Search terms (including any specific sections browsed)	<p>Searched for tobacco, smoking, cigarettes</p> <p>Browsed Health and Social Services topic</p>
Results	<p>Welsh Government (2017) Tobacco control delivery plan for Wales 2017-2020</p> <p>https://beta.gov.wales/sites/default/files/publications/2017-11/tobacco-control-delivery-plan-for-wales-2017-to-2020.pdf</p>

4 Database strategies – top up

4.1.1 Database strategy outline

(smoking OR tobacco OR cigarettes or shisha or vaping) AND

(mass media or digital media) AND

(primary school children) AND

1998-Current AND Limits

4.1.2 Database name: Applied Social Science Index and Abstracts (ASSIA)

No top up search run because the original main strategy did not use the lines for the age ranges.

4.1.3 Database name: Cochrane Central Register of Controlled Trials (CENTRAL)

- #1 MeSH descriptor: [Tobacco Use] explode all trees 217
- #2 MeSH descriptor: [Tobacco] this term only 159
- #3 MeSH descriptor: [Tobacco Use Disorder] this term only 1455
- #4 MeSH descriptor: [Tobacco Use Cessation] this term only 94
- #5 MeSH descriptor: [Tobacco Use Cessation Products] this term only 419
- #6 MeSH descriptor: [Smoking] this term only 5580
- #7 MeSH descriptor: [Pipe Smoking] explode all trees 1
- #8 MeSH descriptor: [Smoking Reduction] this term only 6
- #9 MeSH descriptor: [Smoking Cessation] this term only 3699
- #10 MeSH descriptor: [Vaping] this term only 7
- #11 MeSH descriptor: [Nicotine] this term only 2279
- #12 MeSH descriptor: [Smokers] this term only 65
- #13 MeSH descriptor: [Smoking Devices] explode all trees 328
- #14 MeSH descriptor: [Smoking Prevention] this term only 1536
- #15 MeSH descriptor: [Varenicline] this term only 388
- #16 MeSH descriptor: [Bupropion] this term only 734
- #17 (smoking* or smoker* or antismok* or anti smok* or anti-smok*):ti,ab
23150
- #18 (tobacco* or nicotin* or cigar* or cigs):ti,ab 12373

- #19 (ecig* or e-cig* or e-voke* or vape* or vaping):ti,ab 5652
- #20 (bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies):ti,ab 98
- #21 (bupropion* or zyban* or varenicline* or champix* or nicorette* or niquitin* or nicotinell* or nicassist*):ti,ab 1940
- #22 (waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas):ti,ab 135
- #23 {or #1-#22} 33737
- #24 MeSH descriptor: [Multimedia] this term only 202
- #25 MeSH descriptor: [Tape Recording] explode all trees 1173
- #26 MeSH descriptor: [Computers, Handheld] this term only 230
- #27 MeSH descriptor: [Internet] this term only 3299
- #28 MeSH descriptor: [Blogging] this term only 13
- #29 MeSH descriptor: [Social Networking] this term only 62
- #30 MeSH descriptor: [Social Media] this term only 92
- #31 MeSH descriptor: [Electronic Mail] this term only 294
- #32 MeSH descriptor: [Cell Phone] this term only 591
- #33 MeSH descriptor: [Text Messaging] this term only 589
- #34 MeSH descriptor: [Smartphone] this term only 191
- #35 MeSH descriptor: [Video Games] this term only 549
- #36 MeSH descriptor: [Mobile Applications] this term only 329
- #37 ((digital* or digitis* or digitiz* or electronic* or wireless or online) near/3 (intervention* or communicat* or technol* or media* or market* or campaign* or advert* or ad or ads or commercial* or device* or platform* or forum* or community* or communities* or discussion*)):ti,ab 3166
- #38 (ehealth* or e-health* or mhealth* or m-health* or mobile health*):ti,ab 2925
- #39 ((laptop or palm or handheld or tablet or pda or pc) near/3 comput*):ti,ab 526
- #40 ((mobile* or cell* or tablet*) near (phone* or telephone* or handset* or handset*)):ti,ab 1820
- #41 (smartphone* or smart-phone* or smart telephone* or iphone* or i-phone* or ipad* or i-pad* or blackberry* or smartwatch* or smart-watch* or android or device-based or mobile-based or podcast*):ti,ab 2599
- #42 ((mobile or electronic* or digital*) near/3 (device* or tablet* or application*)):ti,ab 1633
- #43 (app or apps or online* or on-line* or internet* or www or web or website* or webpage* or webcast* or portal or search engine*):ti,ab 31405

- #44 (social media* or social network* or blog* or vlog* or video-blog*):ti,ab 4861
- #45 (Bebo* or Facebook* or YouTube* or Twitter* or LinkedIn* or Pinterest* or Google* or Tumblr* or Instagram* or WhatsApp* or Reddit* or Flickr* or SnapChat* or Yahoo* or Bing* or MSN* or Wikipedia* or Myspace*):ti,ab 2815
- #46 (e-mail* or email* or electronic mail* or mailing list*):ti,ab 2793
- #47 (text messag* or texting or texter* or texted or SMS or short messag* or multimedia messag* or multi-media messag* or mms or instant messag*):ti,ab 3650
- #48 (advergame or advergames or advergaming):ti,ab 7
- #49 MeSH descriptor: [Telephone] this term only 1885
- #50 MeSH descriptor: [Mass Media] explode all trees 1769
- #51 MeSH descriptor: [Information Dissemination] this term only 218
- #52 MeSH descriptor: [Persuasive Communication] this term only 287
- #53 MeSH descriptor: [Nonverbal Communication] this term only 110
- #54 MeSH descriptor: [Serial Publications] explode all trees 112
- #55 MeSH descriptor: [Pamphlets] this term only 826
- #56 MeSH descriptor: [Telecommunications] this term only 82
- #57 MeSH descriptor: [Marketing] explode all trees 456
- #58 MeSH descriptor: [Communications Media] this term only 21
- #59 MeSH descriptor: [Government Publications as Topic] this term only 1
- #60 MeSH descriptor: [Audiovisual Aids] this term only 351
- #61 (marketing or advertis* or publicis* or publiciz* or publicity or mass media or media campaign* or communication* media*):ti,ab 4833
- #62 ((tv or television* or televize* or televise* or cable or satellite or cinema* or movie* or media or newspaper* or journal* or magazine* or interactive* or dvd or dvds or video* or tape or tapes or cassette* or motion picture* or film or films or broadcast* or radio* or audio* or telecommunicat*) near/3 (market* or campaign* or advert* or ad or ads or commercial* or program* or intervention* or information*)):ti,ab 4891
- #63 ((pamphlet* or handout* or hand out* or booklet* or leaflet* or literature or poster or posters or publication* or viral* or buzz*) near/3 (market* or campaign* or advert* or commercial* or program* or intervention* or information*)):ti,ab 14659
- #64 ((outreach* or written* or printed* or oral* or campaign* or resource* or disseminat*) near/1 information):ti,ab 1040
- #65 ((nationwide* or statewide* or countrywide* or citywide* or national* or nation wide* or state wide* or country wide* or city wide* or government*) near/3 (market* or campaign* or advert* or commercial* or program* or intervention* or information*)):ti,ab 3781

#66 {or #24-#65} 72435

#67 (("five" or "six" or "seven" or "eight" or "nine" or "ten" or "eleven") near/2 (year or years or age or ages or aged)):ti,ab 13425

#68 (("5" or "6" or "7" or "8" or "9" or "10" or "11") near/2 (year or years or age or ages or aged)):ti,ab 105678

#69 {or #67-#68} 113902

#70 #23 and #66 and #69 459

#71 "clinicaltrials.gov":so 128557

#72 #70 not #71 414

#73 "conference":pt 126410

#74 #72 not #73 329

#75 #72 not #73 with Publication Year from 1998 to 2018, in Trials 267

Cochrane Reviews 0	Cochrane Protocols 0	Trials 267	Editorials 0	Special collections 0	Clinical Answers 0
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267 Trials matching on "#75 - #72 not #73" with Publication Year from 1998 to 2018, in Trials'

Cochrane Central Register of Controlled Trials

Issue 12 of 12, December 2018

4.1.4 Database name: Cochrane Database of Systematic Reviews (CDSR)

- 1 MeSH descriptor: [Tobacco Use] explode all trees 217
- #2 MeSH descriptor: [Tobacco] this term only 159
- #3 MeSH descriptor: [Tobacco Use Disorder] this term only 1455
- #4 MeSH descriptor: [Tobacco Use Cessation] this term only 94
- #5 MeSH descriptor: [Tobacco Use Cessation Products] this term only 419
- #6 MeSH descriptor: [Smoking] this term only 5580
- #7 MeSH descriptor: [Pipe Smoking] explode all trees 1
- #8 MeSH descriptor: [Smoking Reduction] this term only 6
- #9 MeSH descriptor: [Smoking Cessation] this term only 3699
- #10 MeSH descriptor: [Vaping] this term only 7
- #11 MeSH descriptor: [Nicotine] this term only 2279
- #12 MeSH descriptor: [Smokers] this term only 65
- #13 MeSH descriptor: [Smoking Devices] explode all trees 328
- #14 MeSH descriptor: [Smoking Prevention] this term only 1536
- #15 MeSH descriptor: [Varenicline] this term only 388
- #16 MeSH descriptor: [Bupropion] this term only 734
- #17 (smoking* or smoker* or antismok* or anti smok* or anti-smok*):ti,ab
23150
- #18 (tobacco* or nicotin* or cigar* or cigs):ti,ab 12373
- #19 (ecig* or e-cig* or e-voke* or vape* or vaping):ti,ab 5652
- #20 (bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or
rollies):ti,ab 98
- #21 (bupropion* or zyban* or varenicline* or champix* or nicorette* or niquitin* or
nicotinell* or nicassist*):ti,ab 1940
- #22 (waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka
or hookas or shisha or shishas or sheesha or sheeshas):ti,ab 135
- #23 {or #1-#22} 33737
- #24 MeSH descriptor: [Multimedia] this term only 202
- #25 MeSH descriptor: [Tape Recording] explode all trees 1173
- #26 MeSH descriptor: [Computers, Handheld] this term only 230
- #27 MeSH descriptor: [Internet] this term only 3299
- #28 MeSH descriptor: [Blogging] this term only 13

- #29 MeSH descriptor: [Social Networking] this term only 62
- #30 MeSH descriptor: [Social Media] this term only 92
- #31 MeSH descriptor: [Electronic Mail] this term only 294
- #32 MeSH descriptor: [Cell Phone] this term only 591
- #33 MeSH descriptor: [Text Messaging] this term only 589
- #34 MeSH descriptor: [Smartphone] this term only 191
- #35 MeSH descriptor: [Video Games] this term only 549
- #36 MeSH descriptor: [Mobile Applications] this term only 329
- #37 ((digital* or digitis* or digitiz* or electronic* or wireless or online) near/3 (intervention* or communicat* or technol* or media* or market* or campaign* or advert* or ad or ads or commercial* or device* or platform* or forum* or community* or communities* or discussion*)):ti,ab 3166
- #38 (ehealth* or e-health* or mhealth* or m-health* or mobile health*):ti,ab 2925
- #39 ((laptop or palm or handheld or tablet or pda or pc) near/3 comput*):ti,ab 526
- #40 ((mobile* or cell* or tablet*) near (phone* or telephone* or handset* or hand-set*)):ti,ab 1820
- #41 (smartphone* or smart-phone* or smart telephone* or iphone* or i-phone* or ipad* or i-pad* or blackberry* or smartwatch* or smart-watch* or android or device-based or mobile-based or podcast*):ti,ab 2599
- #42 ((mobile or electronic* or digital*) near/3 (device* or tablet* or application*)):ti,ab 1633
- #43 (app or apps or online* or on-line* or internet* or www or web or website* or webpage* or webcast* or portal or search engine*):ti,ab 31405
- #44 (social media* or social network* or blog* or vlog* or video-blog*):ti,ab 4861
- #45 (Bebo* or Facebook* or YouTube* or Twitter* or LinkedIn* or Pinterest* or Google* or Tumblr* or Instagram* or WhatsApp* or Reddit* or Flickr* or SnapChat* or Yahoo* or Bing* or MSN* or Wikipedia* or Myspace*):ti,ab 2815
- #46 (e-mail* or email* or electronic mail* or mailing list*):ti,ab 2793
- #47 (text messag* or texting or texter* or texted or SMS or short messag* or multimedia messag* or multi-media messag* or mms or instant messag*):ti,ab 3650
- #48 (advergame or advergames or advergaming):ti,ab 7
- #49 MeSH descriptor: [Telephone] this term only 1885
- #50 MeSH descriptor: [Mass Media] explode all trees 1769
- #51 MeSH descriptor: [Information Dissemination] this term only 218
- #52 MeSH descriptor: [Persuasive Communication] this term only 287

- #53 MeSH descriptor: [Nonverbal Communication] this term only 110
- #54 MeSH descriptor: [Serial Publications] explode all trees 112
- #55 MeSH descriptor: [Pamphlets] this term only 826
- #56 MeSH descriptor: [Telecommunications] this term only 82
- #57 MeSH descriptor: [Marketing] explode all trees 456
- #58 MeSH descriptor: [Communications Media] this term only 21
- #59 MeSH descriptor: [Government Publications as Topic] this term only 1
- #60 MeSH descriptor: [Audiovisual Aids] this term only 351
- #61 (marketing or advertis* or publicis* or publiciz* or publicity or mass media or media campaign* or communication* media*):ti,ab 4833
- #62 ((tv or television* or televize* or televise* or cable or satellite or cinema* or movie* or media or newspaper* or journal* or magazine* or interactive* or dvd or dvds or video* or tape or tapes or cassette* or motion picture* or film or films or broadcast* or radio* or audio* or telecommunicat*) near/3 (market* or campaign* or advert* or ad or ads or commercial* or program* or intervention* or information*)):ti,ab 4891
- #63 ((pamphlet* or handout* or hand out* or booklet* or leaflet* or literature or poster or posters or publication* or viral* or buzz*) near/3 (market* or campaign* or advert* or commercial* or program* or intervention* or information*)):ti,ab 14659
- #64 ((outreach* or written* or printed* or oral* or campaign* or resource* or disseminat*) near/1 information):ti,ab1040
- #65 ((nationwide* or statewide* or countrywide* or citywide* or national* or nation wide* or state wide* or country wide* or city wide* or government*) near/3 (market* or campaign* or advert* or commercial* or program* or intervention* or information)):ti,ab 3781
- #66 {or #24-#65} 72435
- #67 (("five" or "six" or "seven" or "eight" or "nine" or "ten" or "eleven") near/2 (year or years or age or ages or aged)):ti,ab 13425
- #68 (("5" or "6" or "7" or "8" or "9" or "10" or "11") near/2 (year or years or age or ages or aged)):ti,ab 105678
- #69 {or #67-#68} 113902
- #70 #23 and #66 and #69 459
- #71 "clinicaltrials.gov":so 128557
- #72 #70 not #71 414
- #73 "conference":pt 126410
- #74 #72 not #73 329
- #75 #72 not #73 in Cochrane Reviews, Cochrane Protocols 23

Cochrane Reviews 22	Cochrane Protocols 1	Trials 0	Editorials 0	Special collections 0	Clinical Answers 0
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1 Cochrane Protocol matching on "'#75 - #72 not #73" in Cochrane Reviews, Cochrane Protocols'

Did you mean: *knot noct nota*

Cochrane Database of Systematic Reviews

Issue 12 of 12, December 2018

4.1.5 Database name: Embase

Database(s): Embase 1974 to 2018 December 11

Search Strategy:

#	Searches	Results
1	"tobacco use"/	7752
2	tobacco consumption/	1948
3	tobacco/	41992
4	tobacco dependence/	18695
5	"smoking and smoking related phenomena"/	180
6	smoking/	275369
7	smoking habit/	21006
8	cigar smoking/	92
9	cigarette smoking/	51468
10	bidi smoking/	118
11	exp pipe smoking/	146
12	exp parental smoking/	6989
13	adolescent smoking/	1646
14	smoking reduction/	81
15	smoking prevention/	326
16	smoking cessation/	53431
17	smoking cessation program/	2990
18	nicotine replacement therapy/	4655
19	nicotine/	42113
20	nicotine gum/	2830
21	nicotine lozenge/	255
22	nicotine patch/	1962
23	exp smoking device/	5045
24	vaping/	616
25	Varenicline/	4018

26	Bupropion/	16583
27	(smoking* or smoker* or antismok* or anti smok* or anti-smok*).ti,ab.	330526
28	(tobacco* or nicotin* or cigar* or cigs).ti,ab.	234995
29	(ecig* or e-cig* or e-voke* or vape* or vaping).ti,ab.	3380
30	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).ti,ab.	805
31	(bupropion* or zyban* or varenicline* or champix* or nicorette* or niquitin* or nicotinell* or nicassist*).ti,ab.	7533
32	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).ti,ab.	2264
33	or/1-32	579663
34	multimedia/	3532
35	audio recording/	2499
36	videorecording/	72795
37	personal digital assistant/	1291
38	internet/	100508
39	blogging/	250
40	social network/	13175
41	social media/	13516
42	e-mail/	17842
43	mobile phone/	14692
44	text messaging/	3744
45	smartphone/	6974
46	video game/	2326
47	mobile application/	7139
48	((digital* or digitis* or digitiz* or electronic* or wireless or online) adj3 (intervention* or communicat* or technol* or media* or market* or campaign* or advert* or ad or ads or commercial* or device* or platform* or forum* or community* or communities* or discussion*)).ti,ab.	36884
49	(ehealth* or e-health* or mhealth* or m-health* or mobile health*).ti,ab.	8016

50	((laptop or palm or handheld or tablet or pda or pc) adj3 comput*).ti,ab.	4076
51	((mobile* or cell* or tablet*) adj (phone* or telephone* or handset* or hand-set*)).ti,ab.	12230
52	(smartphone* or smart-phone* or smart telephone* or iphone* or i-phone* or ipad* or i-pad* or blackberry* or smartwatch* or smart-watch* or android or device-based or mobile-based or podcast*).ti,ab.	20600
53	((mobile or electronic* or digital*) adj3 (device* or tablet* or application*)).ti,ab.	21500
54	(app or apps or online* or on-line* or internet* or www or web or website* or webpage* or webcast* or portal or search engine*).ti,ab.	451609
55	(social media* or social network* or blog* or vlog* or video-blog*).ti,ab.	27049
56	(Bebo* or Facebook* or YouTube* or Twitter* or LinkedIn* or Pinterest* or Google* or Tumblr* or Instagram* or WhatsApp* or Reddit* or Flickr* or SnapChat* or Yahoo* or Bing* or MSN* or Wikipedia* or Myspace*).ti,ab.	55365
57	(e-mail* or email* or electronic mail* or mailing list*).ti,ab.	29057
58	(text messag* or texting or texter* or texted or SMS or short messag* or multimedia messag* or multi-media messag* or mms or instant messag*).ti,ab.	16984
59	(advergame or advergames or advergaming).ti,ab.	26
60	telephone/	34236
61	mass communication/	13811
62	mass medium/	17307
63	radio/	316
64	television/	12778
65	webcast/	309
66	wireless communication/	4356
67	information dissemination/	19369
68	persuasive communication/	7909
69	nonverbal communication/	8143
70	telecommunication/	22880
71	movie/	1216
72	marketing/	21744

73	exp social marketing/	5033
74	advertising/	2360
75	audiovisual aid/	693
76	(marketing or advertis* or publicis* or publiciz* or publicity or mass media or media campaign* or communication* media*).ti,ab.	61227
77	((tv or television* or televize* or televise* or cable or satellite or cinema* or movie* or media or newspaper* or journal* or magazine* or interactive* or dvd or dvds or video* or tape or tapes or cassette* or motion picture* or film or films or broadcast* or radio* or audio* or telecommunicat*) adj3 (market* or campaign* or advert* or ad or ads or commercial* or program* or intervention* or information*)).ti,ab.	51494
78	((pamphlet* or handout* or hand out* or booklet* or leaflet* or literature or poster or posters or publication* or viral* or buzz*) adj3 (market* or campaign* or advert* or commercial* or program* or intervention* or information*)).ti,ab.	17165
79	((outreach* or written* or printed* or oral* or campaign* or resource* or disseminat*) adj1 information).ti,ab.	10386
80	((nationwide* or statewide* or countrywide* or citywide* or national* or nation wide* or state wide* or country wide* or city wide* or government*) adj3 (market* or campaign* or advert* or commercial* or program* or intervention* or information)).ti,ab.	50272
81	or/34-80	974086
82	33 and 81	28396
83	(("five" or "six" or "seven" or "eight" or "nine" or "ten" or "eleven") adj2 (year or years or age or ages or aged)).ti,ab.	267878
84	(("5" or "6" or "7" or "8" or "9" or "10" or "11") adj2 (year or years or age or ages or aged)).ti,ab.	1101543
85	or/83-84	1304849
86	82 and 85	2429
87	nonhuman/ not (human/ and nonhuman/)	4281687
88	86 not 87	2423
89	(letter or editorial).pt.	1643019
90	88 not 89	2419
91	(conference abstract or conference paper or conference proceeding or "conference review").pt.	3995014
92	90 not 91	1462

93 limit 92 to medline	386
94 92 not 93	1076
95 limit 94 to english language	1009
96 limit 95 to yr="1998 -Current"	912

4.1.6 Database name: Health Management Information Consortium (HMIC)

Database(s): HMIC Health Management Information Consortium 1979 to September 2018

Search Strategy:

#	Searches	Results
1	(smoking* or smoker* or antismok* or anti smok* or anti-smok*).ti,ab.	7519
2	(smoking* or smoker* or antismok* or anti smok* or anti-smok*).sh.	5310
3	(tobacco* or nicotin* or cigar* or cigs).ti,ab.	3678
4	(tobacco* or nicotin* or cigar* or cigs).sh.	1672
5	(ecig* or e-cig* or e-voke* or vape* or vaping).ti,ab.	73
6	(ecig* or e-cig* or e-voke* or vape* or vaping).sh.	0
7	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).ti,ab.	12
8	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).sh.	1
9	(bupropion* or zyban* or varenicline* or champix* or nicorette* or niquitin* or nicotinell* or nicassist*).ti,ab.	123
10	(bupropion* or zyban* or varenicline* or champix* or nicorette* or niquitin* or nicotinell* or nicassist*).sh.	0
11	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).ti,ab.	13
12	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).sh.	0
13	or/1-12	9450
14	((digital* or digitis* or digitiz* or electronic* or wireless or online) adj3 (intervention* or communicat* or technol* or media* or market* or campaign* or advert* or ad or ads or commercial* or device* or platform* or forum* or community* or communities* or discussion*)).ti,ab.	663
15	(digital* or digitis* or digitiz* or electronic* or wireless or online).sh.	1998
16	(ehealth* or e-health* or mhealth* or m-health* or mobile health*).ti,ab.	315
17	(ehealth* or e-health* or mhealth* or m-health* or mobile health*).sh.	80
18	((laptop or palm or handheld or tablet or pda or pc) adj3 comput*).ti,ab.	62
19	(laptop or palm or handheld or tablet or pda or pc).sh.	0

20	((mobile* or cell* or tablet*) adj (phone* or telephone* or handset* or hand-set*)).ti,ab.	298
21	(mobile phone* or mobile telephone* or cell phone* or cell telephone* or cellular phone* or cellular telephone*).sh.	278
22	(smartphone* or smart-phone* or smart telephone* or iphone* or i-phone* or ipad* or i-pad* or blackberry* or smartwatch* or smart-watch* or android or device-based or mobile-based or podcast*).ti,ab.	138
23	(smartphone* or smart-phone* or smart telephone* or iphone* or i-phone* or ipad* or i-pad* or blackberry* or smartwatch* or smart-watch* or android or device-based or mobile-based or podcast*).sh.	3
24	((mobile or electronic* or digital*) adj3 (device* or tablet* or application*)).ti,ab.	143
25	(mobile device* or mobile application* or electronic device* or electronic application* or digital device* or digital application*).sh.	0
26	(app or apps or online* or on-line* or internet* or www or web or website* or webpage* or webcast* or portal or search engine*).ti,ab.	9066
27	(app or apps or online* or on-line* or internet* or www or web or website* or webpage* or webcast* or portal or search engine*).sh.	2430
28	(social media* or social network* or blog* or vlog* or video-blog*).ti,ab.	791
29	(social media* or social network* or blog* or vlog* or video-blog*).sh.	381
30	(Bebo* or Facebook* or YouTube* or Twitter* or LinkedIn* or Pinterest* or Google* or Tumblr* or Instagram* or WhatsApp* or Reddit* or Flickr* or SnapChat* or Yahoo* or Bing* or MSN* or Wikipedia* or Myspace*).ti,ab.	610
31	(Bebo* or Facebook* or YouTube* or Twitter* or LinkedIn* or Pinterest* or Google* or Tumblr* or Instagram* or WhatsApp* or Reddit* or Flickr* or SnapChat* or Yahoo* or Bing* or MSN* or Wikipedia* or Myspace*).sh.	3
32	(text messag* or texting or texter* or texted or SMS or short messag* or multimedia messag* or multi-media messag* or mms or instant messag*).ti,ab.	223
33	(text messag* or texting or texter* or texted or SMS or short messag* or multimedia messag* or multi-media messag* or mms or instant messag*).sh.	84
34	(advergame or advergames or advergaming).ti,ab.	3
35	(advergame or advergames or advergaming).sh.	0
36	(marketing or advertis* or publicis* or publiciz* or publicity or mass media or media campaign* or communication* media*).ti,ab.	3413

37	(marketing or advertis* or publicis* or publiciz* or publicity or mass media or media campaign* or communication* media*).sh.	2104
38	((tv or television* or televize* or televise* or cable or satellite or cinema* or movie* or media or newspaper* or journal* or magazine* or interactive* or dvd or dvds or video* or tape or tapes or cassette* or motion picture* or film or films or broadcast* or radio* or audio* or telecommunicat*) adj3 (market* or campaign* or advert* or ad or ads or commercial* or program* or intervention* or information*)).ti,ab.	1360
39	(tv or television* or televize* or televise* or cinema* or movie* or media or newspaper* or magazine* or interactive* or dvd or dvds or video* or tape or tapes or cassette* or motion picture* or film or films or broadcast* or radio* or audio* or telecommunicat* or marketing* or campaign* or advert* or commercials*).sh.	4470
40	((pamphlet* or handout* or hand out* or booklet* or leaflet* or literature or poster or posters or publication* or viral* or buzz*) adj3 (market* or campaign* or advert* or commercial* or program* or intervention* or information*)).ti,ab.	994
41	(pamphlet* or handout* or hand out* or booklet* or leaflet* or literature or poster or posters or publication* or viral* or buzz*).sh.	549
42	((outreach* or written* or printed* or oral* or campaign* or resource* or disseminat*) adj1 information).ti,ab.	808
43	(outreach* or disseminat*).sh.	1086
44	((nationwide* or statewide* or countrywide* or citywide* or national* or nation wide* or state wide* or country wide* or city wide* or government*) adj3 (market* or campaign* or advert* or commercial* or program* or intervention* or information*)).ti,ab.	3004
45	(nationwide* or statewide* or countrywide* or citywide* or national* or nation wide* or state wide* or country wide* or city wide* or government publication*).sh.	3468
46	or/14-45	29484
47	13 and 46	1184
48	(("five" or "six" or "seven" or "eight" or "nine" or "ten" or "eleven") adj2 (year or years or age or ages or aged)).ti,ab.	7282
49	("five" or "six" or "seven" or "eight" or "nine" or "ten" or "eleven").sh.	0
50	(("5" or "6" or "7" or "8" or "9" or "10" or "11") adj2 (year or years or age or ages or aged)).ti,ab.	4207
51	("5" or "6" or "7" or "8" or "9" or "10" or "11").sh.	0
52	or/48-51	10653
53	47 and 52	79

54 limit 53 to yr="1998 -Current"

69

4.1.7 Database name: MEDLINE

Database(s): Ovid MEDLINE(R) 1946 to December 06, 2018

Search Strategy:

#	Searches	Results
1	exp "tobacco use"/	2008
2	tobacco/	28976
3	"tobacco use disorder"/	10469
4	"tobacco use cessation"/	1037
5	"tobacco use cessation products"/	1512
6	smoking/	134065
7	exp Pipe smoking/	64
8	smoking reduction/	14
9	"smoking cessation"/	26127
10	vaping/	209
11	nicotine/	24254
12	Smokers/	510
13	exp Smoking Devices/	7913
14	smoking prevention/	17444
15	Varenicline/	1134
16	Bupropion/	2867
17	(smoking* or smoker* or antismok* or anti smok* or anti-smok*).ti,ab.	203332
18	(tobacco* or nicotin* or cigar* or cigs).ti,ab.	179945
19	(ecig* or e-cig* or e-voke* or vape* or vaping).ti,ab.	1943
20	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).ti,ab.	476
21	(bupropion* or zyban* or varenicline* or champix* or nicorette* or niquitin* or nicotinell* or nicassist*).ti,ab.	4572
22	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).ti,ab.	1418
23	or/1-22	355508

24 Multimedia/	1802
25 exp tape recording/	15265
26 Computers, Handheld/	3284
27 Internet/	66447
28 Blogging/	894
29 Social Networking/	2233
30 Social Media/	5217
31 Electronic Mail/	2469
32 Cell Phone/	7543
33 Text Messaging/	2066
34 Smartphone/	2384
35 video games/	4468
36 mobile applications/ ((digital* or digitis* or digitiz* or electronic* or wireless or online) adj3 (intervention* or communicat* or technol* or media* or market* or 37 campaign* or advert* or ad or ads or commercial* or device* or platform* or forum* or community* or communities* or discussion*)).ti,ab.	20125
38 (ehealth* or e-health* or mhealth* or m-health* or mobile health*).ti,ab.	4877
39 ((laptop or palm or handheld or tablet or pda or pc) adj3 comput*).ti,ab.	2571
40 ((mobile* or cell* or tablet*) adj (phone* or telephone* or handset* or hand-set*).ti,ab.	7330
41 (smartphone* or smart-phone* or smart telephone* or iphone* or i- phone* or ipad* or i-pad* or blackberry* or smartwatch* or smart-watch* or android or device-based or mobile-based or podcast*).ti,ab.	9173
42 ((mobile or electronic* or digital*) adj3 (device* or tablet* or application*).ti,ab.	11297
43 (app or apps or online* or on-line* or internet* or www or web or website* or webpage* or webcast* or portal or search engine*).ti,ab.	271776
44 (social media* or social network* or blog* or vlog* or video-blog*).ti,ab.	16030
45 (Bebo* or Facebook* or YouTube* or Twitter* or LinkedIn* or Pinterest* or Google* or Tumblr* or Instagram* or WhatsApp* or Reddit* or Flickr* or SnapChat* or Yahoo* or Bing* or MSN* or Wikipedia* or Myspace*).ti,ab.	30312

46 (e-mail* or email* or electronic mail* or mailing list*).ti,ab.	11757
(text messag* or texting or texter* or texted or SMS or short messag* or 47 multimedia messag* or multi-media messag* or mms or instant messag*).ti,ab.	10171
48 (advergame or advergaming or advergaming).ti,ab.	19
49 Telephone/	11058
50 exp mass media/	43838
51 information dissemination/	14784
52 persuasive communication/	3475
53 nonverbal communication/	3914
54 exp serial publications/	49795
55 pamphlets/	3704
56 telecommunications/	4697
57 exp marketing/	33557
58 communications media/	1426
59 Government Publications as Topic/	695
60 Audiovisual Aids/	6753
61 (marketing or advertis* or publicis* or publiciz* or publicity or mass media or media campaign* or communication* media*).ti,ab.	41024
((tv or television* or televize* or televise* or cable or satellite or cinema* or movie* or media or newspaper* or journal* or magazine* or 62 interactive* or dvd or dvds or video* or tape or tapes or cassette* or motion picture* or film or films or broadcast* or radio* or audio* or telecommunicat*) adj3 (market* or campaign* or advert* or ad or ads or commercial* or program* or intervention* or information*).ti,ab.	29793
((pamphlet* or handout* or hand out* or booklet* or leaflet* or literature or poster or posters or publication* or viral* or buzz*) adj3 (market* or 63 campaign* or advert* or commercial* or program* or intervention* or information*).ti,ab.	9998
64 ((outreach* or written* or printed* or oral* or campaign* or resource* or disseminat*) adj1 information).ti,ab.	6615
((nationwide* or statewide* or countrywide* or citywide* or national* or nation wide* or state wide* or country wide* or city wide* or 65 government*) adj3 (market* or campaign* or advert* or commercial* or program* or intervention* or information).ti,ab.	33345

66 or/24-65	614971
67 23 and 66	16614
68 (("five" or "six" or "seven" or "eight" or "nine" or "ten" or "eleven") adj2 (year or years or age or ages or aged)).ti,ab.	174632
69 (("5" or "6" or "7" or "8" or "9" or "10" or "11") adj2 (year or years or age or ages or aged)).ti,ab.	658296
70 or/68-69	794947
71 67 and 70	1126
72 Animals/ not (Animals/ and Humans/)	4487157
73 71 not 72	1124
74 limit 73 to (letter or historical article or comment or editorial or news or case reports)	18
75 73 not 74	1106
76 limit 75 to english language	1020
77 limit 76 to yr="1998 -Current"	897

4.1.8 Database name: MEDLINE-in-Process (including Epub Ahead-of-Print)

Database(s): Ovid MEDLINE(R) Epub Ahead of Print December 10, 2018, Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations December 06, 2018

Search Strategy:

#	Searches	Results
1	(smoking* or smoker* or antismok* or anti smok* or anti-smok*).ti,ab.	24831
2	(tobacco* or nicotin* or cigar* or cigs).ti,ab.	21665
3	(ecig* or e-cig* or e-voke* or vape* or vaping).ti,ab.	1020
4	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).ti,ab.	93
5	(bupropion* or zyban* or varenicline* or champix* or nicorette* or niquitin* or nicotinell* or nicassist*).ti,ab.	604
6	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).ti,ab.	480
7	or/1-6	38887
8	((digital* or digitis* or digitiz* or electronic* or wireless or online) adj3 (intervention* or communicat* or technol* or media* or market* or campaign* or advert* or ad or ads or commercial* or device* or platform* or forum* or community* or communities* or discussion*).ti,ab.	11601
9	(ehealth* or e-health* or mhealth* or m-health* or mobile health*).ti,ab.	2116
10	((laptop or palm or handheld or tablet or pda or pc) adj3 comput*).ti,ab.	515
11	((mobile* or cell* or tablet*) adj (phone* or telephone* or handset* or hand-set*).ti,ab.	2347
12	(smartphone* or smart-phone* or smart telephone* or iphone* or i-phone* or ipad* or i-pad* or blackberry* or smartwatch* or smart-watch* or android or device-based or mobile-based or podcast*).ti,ab.	5411
13	((mobile or electronic* or digital*) adj3 (device* or tablet* or application*).ti,ab.	9956
14	(app or apps or online* or on-line* or internet* or www or web or website* or webpage* or webcast* or portal or search engine*).ti,ab.	64588
15	(social media* or social network* or blog* or vlog* or video-blog*).ti,ab.	5603
16	(Bebo* or Facebook* or YouTube* or Twitter* or LinkedIn* or Pinterest* or Google* or Tumblr* or Instagram* or WhatsApp* or Reddit* or Flickr* or SnapChat* or Yahoo* or Bing* or MSN* or Wikipedia* or Myspace*).ti,ab.	9809
17	(e-mail* or email* or electronic mail* or mailing list*).ti,ab.	3056

18	(text messag* or texting or texter* or texted or SMS or short messag* or multimedia messag* or multi-media messag* or mms or instant messag*).ti,ab.	2420
19	(advergame or advergames or advergaming).ti,ab.	5
20	(marketing or advertis* or publicis* or publiciz* or publicity or mass media or media campaign* or communication* media*).ti,ab.	6397
21	((tv or television* or televize* or televise* or cable or satellite or cinema* or movie* or media or newspaper* or journal* or magazine* or interactive* or dvd or dvds or video* or tape or tapes or cassette* or motion picture* or film or films or broadcast* or radio* or audio* or telecommunicat*) adj3 (market* or campaign* or advert* or ad or ads or commercial* or program* or intervention* or information*)).ti,ab.	5239
22	((pamphlet* or handout* or hand out* or booklet* or leaflet* or literature or poster or posters or publication* or viral* or buzz*) adj3 (market* or campaign* or advert* or commercial* or program* or intervention* or information*)).ti,ab.	1870
23	((outreach* or written* or printed* or oral* or campaign* or resource* or disseminat*) adj1 information).ti,ab.	1001
24	((nationwide* or statewide* or countrywide* or citywide* or national* or nation wide* or state wide* or country wide* or city wide* or government*) adj3 (market* or campaign* or advert* or commercial* or program* or intervention* or information*)).ti,ab.	5149
25	or/8-24	110117
26	7 and 25	2648
27	(("five" or "six" or "seven" or "eight" or "nine" or "ten" or "eleven") adj2 (year or years or age or ages or aged)).ti,ab.	21706
28	(("5" or "6" or "7" or "8" or "9" or "10" or "11") adj2 (year or years or age or ages or aged)).ti,ab.	81370
29	or/27-28	98885
30	26 and 29	163
31	limit 30 to english language	159
32	limit 31 to yr="1998 -Current"	156

4.1.9 Database name: PsycINFO

Database(s): PsycINFO 1806 to December Week 1 2018

Search Strategy:

#	Searches	Results
1	tobacco smoking/	29175
2	smoking cessation/	12218
3	electronic cigarettes/	756
4	nicotine/	10446
5	bupropion/	919
6	(smoking* or smoker* or antismok* or anti smok* or anti-smok*).ti,ab.	47649
7	(tobacco* or nicotin* or cigar* or cigs).ti,ab.	44217
8	(ecig* or e-cig* or e-voke* or vape* or vaping).ti,ab.	1085
9	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).ti,ab.	83
10	(bupropion* or zyban* or varenicline* or champix* or nicorette* or niquitin* or nicotinell* or nicassist*).ti,ab.	2620
11	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).ti,ab.	535
12	or/1-11	68594
13	exp multimedia/	27249
14	internet/	27834
15	blog/	404
16	online social networks/	6733
17	internet usage/	2129
18	online community/	726
19	social media/	5910
20	websites/	4566
21	computer mediated communication/	5428
22	text messaging/	702
23	exp mobile devices/	5996

24	computer games/	6626
25	((digital* or digitis* or digitiz* or electronic* or wireless or online) adj3 (intervention* or communicat* or technol* or media* or market* or campaign* or advert* or ad or ads or commercial* or device* or platform* or forum* or community* or communities* or discussion*)).ti,ab.	19094
26	(ehealth* or e-health* or mhealth* or m-health* or mobile health*).ti,ab.	1747
27	((laptop or palm or handheld or tablet or pda or pc) adj3 comput*).ti,ab.	1196
28	((mobile* or cell* or tablet*) adj (phone* or telephone* or handset* or hand-set*)).ti,ab.	4721
29	(smartphone* or smart-phone* or smart telephone* or iphone* or i-phone* or ipad* or i-pad* or blackberry* or smartwatch* or smart-watch* or android or device-based or mobile-based or podcast*).ti,ab.	4886
30	((mobile or electronic* or digital*) adj3 (device* or tablet* or application*)).ti,ab.	4524
31	(app or apps or online* or on-line* or internet* or www or web or website* or webpage* or webcast* or portal or search engine*).ti,ab.	130055
32	(social media* or social network* or blog* or vlog* or video-blog*).ti,ab.	31020
33	(Bebo* or Facebook* or YouTube* or Twitter* or LinkedIn* or Pinterest* or Google* or Tumblr* or Instagram* or WhatsApp* or Reddit* or Flickr* or SnapChat* or Yahoo* or Bing* or MSN* or Wikipedia* or Myspace*).ti,ab.	23277
34	(e-mail* or email* or electronic mail* or mailing list*).ti,ab.	9084
35	(text messag* or texting or texter* or texted or SMS or short messag* or multimedia messag* or multi-media messag* or mms or instant messag*).ti,ab.	4412
36	(advergame or advergames or advergaming).ti,ab.	94
37	telephone systems/	1942
38	exp mass media/	39977
39	information dissemination/	1584
40	persuasive communication/	5006
41	telecommunications media/	1371
42	exp marketing/	21198
43	exp advertising/	12284
44	communications media/	3384

45	audiovisual instruction/	529
46	((marketing or advertis* or publicis* or publiciz* or publicity or mass media or media campaign* or communication* media*).ti,ab.	47836
47	((tv or television* or televize* or televise* or cable or satellite or cinema* or movie* or media or newspaper* or journal* or magazine* or interactive* or dvd or dvds or video* or tape or tapes or cassette* or motion picture* or film or films or broadcast* or radio* or audio* or telecommunicat*) adj3 (market* or campaign* or advert* or ad or ads or commercial* or program* or intervention* or information*).ti,ab.	18865
48	((pamphlet* or handout* or hand out* or booklet* or leaflet* or literature or poster or posters or publication* or viral* or buzz*) adj3 (market* or campaign* or advert* or commercial* or program* or intervention* or information*).ti,ab.	6418
49	((outreach* or written* or printed* or oral* or campaign* or resource* or disseminat*) adj1 information).ti,ab.	3019
50	((nationwide* or statewide* or countrywide* or citywide* or national* or nation wide* or state wide* or country wide* or city wide* or government*) adj3 (market* or campaign* or advert* or commercial* or program* or intervention* or information).ti,ab.	8988
51	or/13-50	304913
52	12 and 51	7627
53	exp elementary school students/	42188
54	(("five" or "six" or "seven" or "eight" or "nine" or "ten" or "eleven") adj2 (year or years or age or ages or aged)).ti,ab.	38381
55	(("5" or "6" or "7" or "8" or "9" or "10" or "11") adj2 (year or years or age or ages or aged)).ti,ab.	150818
56	or/53-55	221259
57	52 and 56	385
58	limit 57 to ("column/opinion" or editorial or letter)	4
59	57 not 58	381
60	limit 59 to animal	0
61	59 not 60	381
62	limit 61 to english language	372
63	limit 62 to yr="1998 -Current"	341

4.1.10 Database name: Social Policy and Practice (SPP)

Database(s): Social Policy and Practice 201810

Search Strategy:

#	Searches	Results
1	(smoking* or smoker* or antismok* or anti smok* or anti-smok*).ti,ab.	1382
2	(smoking* or smoker* or antismok* or anti smok* or anti-smok*).sh.	864
3	(tobacco* or nicotin* or cigar* or cigs).ti,ab.	652
4	(tobacco* or nicotin* or cigar* or cigs).sh.	226
5	(ecig* or e-cig* or e-voke* or vape* or vaping).ti,ab.	4
6	(ecig* or e-cig* or e-voke* or vape* or vaping).sh.	0
7	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).ti,ab.	0
8	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).sh.	0
9	(bupropion* or zyban* or varenicline* or champix* or nicorette* or niquitin* or nicotinell* or nicassist*).ti,ab.	4
10	(bupropion* or zyban* or varenicline* or champix* or nicorette* or niquitin* or nicotinell* or nicassist*).sh.	2
11	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).ti,ab.	5
12	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).sh.	4
13	or/1-12	1925
14	((digital* or digitis* or digitiz* or electronic* or wireless or online) adj3 (intervention* or communicat* or technol* or media* or market* or campaign* or advert* or ad or ads or commercial* or device* or platform* or forum* or community* or communities* or discussion*)).ti,ab.	945
15	(digital* or digitis* or digitiz* or electronic* or wireless or online).sh.	733
16	(ehealth* or e-health* or mhealth* or m-health* or mobile health*).ti,ab.	47
17	(ehealth* or e-health* or mhealth* or m-health* or mobile health*).sh.	0
18	((laptop or palm or handheld or tablet or pda or pc) adj3 comput*).ti,ab.	44
19	(laptop or palm or handheld or tablet or pda or pc).sh.	6
20	((mobile* or cell* or tablet*) adj (phone* or telephone* or handset* or hand-set*)).ti,ab.	287

21	(mobile phone* or mobile telephone* or cell phone* or cell telephone* or cellular phone* or cellular telephone*).sh.	215
22	(smartphone* or smart-phone* or smart telephone* or iphone* or i-phone* or ipad* or i-pad* or blackberry* or smartwatch* or smart-watch* or android or device-based or mobile-based or podcast*).ti,ab.	119
23	(smartphone* or smart-phone* or smart telephone* or iphone* or i-phone* or ipad* or i-pad* or blackberry* or smartwatch* or smart-watch* or android or device-based or mobile-based or podcast*).sh.	1
24	((mobile or electronic* or digital*) adj3 (device* or tablet* or application*)).ti,ab.	132
25	(mobile device* or mobile application* or electronic device* or electronic application* or digital device* or digital application*).sh.	1
26	(app or apps or online* or on-line* or internet* or www or web or website* or webpage* or webcast* or portal or search engine*).ti,ab.	8030
27	(app or apps or online* or on-line* or internet* or www or web or website* or webpage* or webcast* or portal or search engine*).sh.	3591
28	(social media* or social network* or blog* or vlog* or video-blog*).ti,ab.	2452
29	(social media* or social network* or blog* or vlog* or video-blog*).sh.	3190
30	(Bebo* or Facebook* or YouTube* or Twitter* or LinkedIn* or Pinterest* or Google* or Tumblr* or Instagram* or WhatsApp* or Reddit* or Flickr* or SnapChat* or Yahoo* or Bing* or MSN* or Wikipedia* or Myspace*).ti,ab.	3806
31	(Bebo* or Facebook* or YouTube* or Twitter* or LinkedIn* or Pinterest* or Google* or Tumblr* or Instagram* or WhatsApp* or Reddit* or Flickr* or SnapChat* or Yahoo* or Bing* or MSN* or Wikipedia* or Myspace*).sh.	62
32	(text messag* or texting or texter* or texted or SMS or short messag* or multimedia messag* or multi-media messag* or mms or instant messag*).ti,ab.	110
33	(text messag* or texting or texter* or texted or SMS or short messag* or multimedia messag* or multi-media messag* or mms or instant messag*).sh.	1
34	(advergame or advergames or advergaming).ti,ab.	0
35	(advergame or advergames or advergaming).sh.	0
36	(marketing or advertis* or publicis* or publiciz* or publicity or mass media or media campaign* or communication* media*).ti,ab.	2157
37	(marketing or advertis* or publicis* or publiciz* or publicity or mass media or media campaign* or communication* media*).sh.	2090

38	((tv or television* or televize* or televise* or cable or satellite or cinema* or movie* or media or newspaper* or journal* or magazine* or interactive* or dvd or dvds or video* or tape or tapes or cassette* or motion picture* or film or films or broadcast* or radio* or audio* or telecommunicat*) adj3 (market* or campaign* or advert* or ad or ads or commercial* or program* or intervention* or information*)).ti,ab.	636
39	(tv or television* or televize* or televise* or cinema* or movie* or media or newspaper* or magazine* or interactive* or dvd or dvds or video* or tape or tapes or cassette* or motion picture* or film or films or broadcast* or radio* or audio* or telecommunicat* or marketing* or campaign* or advert* or commercials*).sh.	2967
40	((pamphlet* or handout* or hand out* or booklet* or leaflet* or literature or poster or posters or publication* or viral* or buzz*) adj3 (market* or campaign* or advert* or commercial* or program* or intervention* or information*)).ti,ab.	668
41	(pamphlet* or handout* or hand out* or booklet* or leaflet* or literature or poster or posters or publication* or viral* or buzz*).sh.	200
42	((outreach* or written* or printed* or oral* or campaign* or resource* or disseminat*) adj1 information).ti,ab.	372
43	(outreach* or disseminat*).sh.	550
44	((nationwide* or statewide* or countrywide* or citywide* or national* or nation wide* or state wide* or country wide* or city wide* or government*) adj3 (market* or campaign* or advert* or commercial* or program* or intervention* or information*)).ti,ab.	2531
45	(nationwide* or statewide* or countrywide* or citywide* or national* or nation wide* or state wide* or country wide* or city wide* or government publication*).sh.	4947
46	or/14-45	30378
47	13 and 46	268
48	(("five" or "six" or "seven" or "eight" or "nine" or "ten" or "eleven") adj2 (year or years or age or ages or aged)).ti,ab.	4399
49	("five" or "six" or "seven" or "eight" or "nine" or "ten" or "eleven").sh.	1
50	(("5" or "6" or "7" or "8" or "9" or "10" or "11") adj2 (year or years or age or ages or aged)).ti,ab.	6107
51	("5" or "6" or "7" or "8" or "9" or "10" or "11").sh.	0
52	or/48-51	10205
53	47 and 52	22
54	limit 53 to yr="1998 -Current"	19

4.2 Search narrative

Notes

It was difficult to separate the strategies for questions 1.1 and 1.2. This meant that the search for 1.1 was probably wider than it otherwise would have been. The indexing was not applied consistently enough to be able to distinguish the searches and it is difficult to search for interventions for adults where the outcomes are measured on children. We discussed whether there should be a separate cluster for any papers that were about denormalisation (without terms for children) but this was not pursued after testing.

The way that the mass media intervention was targeted at adults meant that this search had to include terms for smoking cessation (as that's what the adults were being persuaded to do) and not just prevention (which is the outcome we were interested in for the children and young people).

1.1 was about digital media and 1.2 was about mass media but, as a single search strategy was used, the search for 1.1 included mass media terms. This would have to be dealt with at sifting. The terms for 1.2 that were not in 1.1 were newspapers, posters, leaflets, books, tv, radio and text messaging. We added terms for video games and vlogs during search QA. We also discussed the scope in relation to PH14 and removed hotlines and telemedicine.

The protocol and scope suggested that mobile apps were not included in digital media but the fine detail in the definition was not reflected in the MeSH terms. It is possible to access a mass media channel through an app (e.g. tv) rather than an app just being a downloadable piece of software. Apps were therefore retained in the strategy.

Smoking imagery on tv and film was outside of NICE's remit.

The overlap and use of a single search also meant that the search went back to 1998 for both reviews, when 1.1 only really needed to update PH14 and could have been 2007-2018. This was discussed and the review team decided not to do anything different with date limits.

The strategy was adapted from PH14. Bidi and kretek were in PH14 so they were retained. But the scope was slightly different so we removed smokeless tobacco and added waterpipes and ecigs. We did not add heat-not-burn products.

After peer review we added rollies to the smoking terms. We were reluctant to add more slang terms (e.g. "fags") as they were not in PH14 and they are unlikely to be used in articles (unless qualitative studies). Plus they should be indexed with the MeSH terms already used.

The search is structured to have a set of terms for young people. These terms focus on the people and not the places where they could be found (e.g. schools or colleges). The search was tested without these terms to find a broader set on the impact of mass media but the results at scoping were 10,000 higher in MEDLINE (17k instead of 7k).

The terms for young people make some effort to capture the 18-24 age group. There is still the chance that papers could present data in tables where it is stratified by age, without this being mentioned in the abstract. We are likely to miss these papers. The only way to retrieve them would be to remove this set of terms from the strategy, numbers as above.

The numbers meant we did not look at digital or mass media interventions in other areas e.g. for preventing alcohol.

Top up search

An additional search was done on 12 December 2018 to cover children aged 5-11. The search history is recorded separately.

The top up search added the following lines to MEDLINE:

((("five" or "six" or "seven" or "eight" or "nine" or "ten" or "eleven") adj2 (year or years or age or ages or aged)).ti,ab.

((("5" or "6" or "7" or "8" or "9" or "10" or "11") adj2 (year or years or age or ages or aged)).ti,ab.

No additional MeSH terms were required. An additional heading was required in PyscINFO for elementary school students. The search was run on the same databases as above, except for ASSIA as the age-related terms were not used in the main search anyway.

The top-up search had 2684 results, 1022 duplicates were removed, leaving 1662. The 1662 were compared to the EndNote file for the main search and anything that would have already been screened was removed. A further 998 were removed, leaving 664 new hits from the top up for screening.

A consolidated version incorporating the main search and the top-up search is available and should be used for updates or, after publication, surveillance.

Note for future versions that:

- the 2019 Emtree reload included the new term "nonsmoker".
- The 2019 MeSH reload included the new terms:
 - "nonsmokers" and "Ex-smokers"
 - Smoking cessation agents

The first would affect line 12 as we would now need to decide whether to explode that term or not.

And the agents term would need to be added into the searches alongside "tobacco use cessation products"/.

The term Amfebutamone is used instead of Bupropion in Embase and so the Emtree term and free-text term would need to be added to any updates.

5 Search for RQ2.1 and RQ2.2 (Effectiveness)

Topic: Tobacco Portfolio
Question details:
2.1 Which interventions are effective and cost effective at reducing proxy purchasing of tobacco on behalf of children and young people, through engaging and educating retailers and the general public?
2.2 Which interventions are effective and cost effective at reducing the supply of illicit tobacco to children, young people and young adults, through engaging and educating retailers and the general public?

5.1 Table of results – main search

Database name	Date searched	Database Platform	Database segment or version
Applied Social Science Index and Abstracts (ASSIA)	03/10/18	ProQuest	1987 - current
Cochrane Central Register of Controlled Trials (CENTRAL)	03/10/18	Wiley	Cochrane Central Register of Controlled Trials Issue 10 of 12, October 2018
Cochrane Database of Systematic Reviews (CDSR)	03/10/18	Wiley	Cochrane Database of Systematic Reviews Issue 10 of 12, October 2018
EconLit	03/10/18	Ovid	Econlit 1886 to September 27, 2018
Embase	03/10/18	Ovid	Embase 1974 to 2018 October 2
Health Management Information	03/10/18	Ovid	HMIC Health Management Information Consortium 1979 to July 2018

Consortium (HMIC)			
MEDLINE	03/10/18	Ovid	Ovid MEDLINE(R) 1946 to October 02, 2018
MEDLINE-in-Process (including Epub Ahead-of-Print)	03/10/18	Ovid	Ovid MEDLINE(R) Epub Ahead of Print October 02, 2018, Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations October 02, 2018
PsycINFO	03/10/18	Ovid	PsycINFO 1806 to September Week 4 2018
Social Policy and Practice (SPP)	03/10/18	Ovid	Social Policy and Practice 201807

Main search

Search source	No. of records retrieved	Results	Total results	De-duplicated
Applied Social Science Index and Abstracts (ASSIA)	750	8280	8741	5484
Cochrane Central Register of Controlled Trials (CENTRAL)	222			
Cochrane Database of Systematic Reviews (CDSR)	7			
EconLit	87			
Embase	2381			
Health Management Information Consortium (HMIC)	203			
MEDLINE	2860			
MEDLINE-in-Process (including Epub Ahead-of-Print)	372			
PsycINFO	1289			
Social Policy and Practice (SPP)	109			
Surveillance reviews for PH14	3	461		
Scoping searches	12			
Forward citation searching	446			

5.2 Table of results – primary school age top up

Database name	Date searched	Database Platform	Database segment or version
Applied Social Science Index and Abstracts (ASSIA)	-	-	Not searched for the Top Up

Cochrane Central Register of Controlled Trials (CENTRAL)	14/12/18	Wiley	Cochrane Central Register of Controlled Trials Issue 12 of 12, December 2018
Cochrane Database of Systematic Reviews (CDSR)	14/12/18	Wiley	Cochrane Database of Systematic Reviews Issue 12 of 12, December 2018
EconLit	14/12/18	Ovid	Econlit 1886 to December 06, 2018
Embase	14/12/18	Ovid	Embase 1974 to 2018 December 13
Health Management Information Consortium (HMIC)	14/12/18	Ovid	HMIC Health Management Information Consortium 1979 to September 2018
MEDLINE	14/12/18	Ovid	Ovid MEDLINE(R) 1946 to December 13, 2018
MEDLINE-in-Process (including Epub Ahead-of-Print)	14/12/18	Ovid	Ovid MEDLINE(R) Epub Ahead of Print December 13, 2018, Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations December 13, 2018
PsycINFO	14/12/18	Ovid	PsycINFO 1806 to December Week 2 2018
Social Policy and Practice (SPP)	14/12/18	Ovid	Social Policy and Practice 201810

Primary school age top up

Search source	No. of records retrieved	Results	De-duplicated	Unique
Applied Social Science Index and Abstracts (ASSIA)	0	1170	778	316
Cochrane Central Register of Controlled Trials (CENTRAL)	41			
Cochrane Database of Systematic Reviews (CDSR)	2			
EconLit	12			
Embase	511			

Health Management Information Consortium (HMIC)	29			
MEDLINE	359			
MEDLINE-in-Process (including Epub Ahead-of-Print)	60			
PsycINFO	143			
Social Policy and Practice (SPP)	13			

5.3 Table of results – online sales top up

Database name	Date searched	Database Platform	Database segment or version
Applied Social Science Index and Abstracts (ASSIA)	29/11/18	ProQuest	1987 - current
Cochrane Central Register of Controlled Trials (CENTRAL)	29/11/18	Wiley	Cochrane Central Register of Controlled Trials Issue 11 of 12, November 2018
Cochrane Database of Systematic Reviews (CDSR)	29/11/18	Wiley	Cochrane Database of Systematic Reviews Issue 11 of 12, November 2018
EconLit	29/11/18	Ovid	Econlit 1886 to November 22, 2018
Embase	29/11/18	Ovid	Embase 1974 to 2018 November 28
Health Management Information Consortium (HMIC)	29/11/18	Ovid	HMIC Health Management Information Consortium 1979 to September 2018
MEDLINE	29/11/18	Ovid	Ovid MEDLINE(R) 1946 to November 28, 2018
MEDLINE-in-Process (including	29/11/18	Ovid	Ovid MEDLINE(R) Epub Ahead of Print November 28, 2018, Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations November 28, 2018

Epub Ahead-of-Print)			
PsycINFO	29/11/18	Ovid	PsycINFO 1806 to November Week 4 2018
Social Policy and Practice (SPP)	29/11/18	Ovid	Social Policy and Practice 201810

Online sales top up

Search source	No. of records retrieved	Total results	De-duplicated within the new set	De-duplicated against main Retail search
Applied Social Science Index and Abstracts (ASSIA)	77	1270	816	
Cochrane Central Register of Controlled Trials (CENTRAL)	37			
Cochrane Database of Systematic Reviews (CDSR)	6			
EconLit	19			
Embase	314			
Health Management Information Consortium (HMIC)	186			
MEDLINE	347			
MEDLINE-in-Process (including Epub Ahead-of-Print)	93			
PsycINFO	164			
Social Policy and Practice (SPP)	27			

5.4 Database strategy outline

Main search

Tobacco AND (Proxy sales OR Under age sales)

OR

Tobacco AND Young people AND Retail

OR

Tobacco AND Illicit activities AND Retail

OR

Tobacco AND Illicit activities AND Young people

AND 1998-Current AND Limits

Primary school age top up

Tobacco AND Young people AND Retail

OR

Tobacco AND Illicit activities AND Young people

AND 1998-Current AND Limits

Online sales top up

Tobacco AND Online sales

AND 1998-Current AND Limits

Amalgamated – use if the searches are reun or updated

Tobacco AND (Proxy sales OR Under age sales OR Online sales)

OR

Tobacco AND Young people AND Retail

OR

Tobacco AND Illicit activities AND Retail

OR

Tobacco AND Illicit activities AND Young people

AND 1998-Current AND Limits

6 Database strategies – main search

6.1.1 Database name: Applied Social Science Index and Abstracts (ASSIA)

Set#	Searched for	Results
S1	MAINSUBJECT.EXACT("Smoking") OR MAINSUBJECT.EXACT("Moderate smoking") OR MAINSUBJECT.EXACT("Heavy smoking") OR MAINSUBJECT.EXACT("Occasional smoking") OR MAINSUBJECT.EXACT("Tobacco products") OR MAINSUBJECT.EXACT("Tobacco") OR MAINSUBJECT.EXACT("Cigars") OR MAINSUBJECT.EXACT("Cigarettes")	13116
S2	TI,AB(smoking* or smoker* or antismok* or anti smok* or anti-smok*)	17195
S3	TI,AB(tobacco* or cigar* or cigs)	11635
S4	TI,AB(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies)	76
S5	TI,AB(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas)	195
S6	S1 OR S2 OR S3 OR S4 OR S5	22268
S7	MAINSUBJECT.EXACT("Shopping") OR MAINSUBJECT.EXACT("Retailing") OR MAINSUBJECT.EXACT("Shopping centres") OR MAINSUBJECT.EXACT("Shops") OR MAINSUBJECT.EXACT("Supermarkets")	1011
S8	TI,AB(retail* or newsagent* or shopkeeper* or shop keeper* or vendor* or supermarket* or store keeper* or storekeeper* or merchant* or tobacconist* or shop or shops or shopping or shopped or store or stores or "off licence*" or "off license*" or offlicence* or offlicense* or business* or commerce* or commercial* or trading* or trade or trades or trader* or "sales assistant*" or shopworker* or seller* or "super market*")	26879
S9	s7 or s8	27000
S10	MAINSUBJECT.EXACT("Adolescents") OR MAINSUBJECT.EXACT("Girls") OR MAINSUBJECT.EXACT("Children") OR MAINSUBJECT.EXACT("Boys") OR MAINSUBJECT.EXACT("Pupils") OR MAINSUBJECT.EXACT("Students") OR MAINSUBJECT.EXACT("Young men") OR	94139

	MAINSUBJECT.EXACT("Young women") OR MAINSUBJECT.EXACT("Young adults") OR MAINSUBJECT.EXACT("Young adulthood")	
S11	TI,AB(young* near/2 (adult* or person* or people* or men or man or women or woman or male* or female*))	35305
S12	TI,AB(child* or adolescen* or kid or kids or youth* or youngster* or minor or minors or underage* or under-age* or "under age*" or teen or teens or teenager* or juvenile* or boy or boys or boyhood or girl or girls or girlhood or schoolchild* or "school age*" or schoolage* or pupil or pupils or student*)	31104 9
S13	s10 or s11 or s12	33333 0
S14	s6 and s9 and s13	265
S15	MAINSUBJECT.EXACT("Fraud") OR MAINSUBJECT.EXACT("Criminal offences") OR MAINSUBJECT.EXACT("Crime") OR MAINSUBJECT.EXACT("Criminal behaviour") OR MAINSUBJECT.EXACT("Tax evasion") OR MAINSUBJECT.EXACT("Smuggling") OR MAINSUBJECT.EXACT("Illegal sales")	7447
S16	TI,AB((illicit* or illegal* or counterfeit* or fake* or unbrand* or disguise* or disguising or prohibit* or smuggl* or bootleg* or contraband* or untax* or unlawful* or crime* or criminal* or law or enforcement* or legal* or genuine* or lawful* or branded or taxed or fraud*) near/3 (tobacco* or cigar* or cigs or smoking*))	833
S17	TI,AB((tax* or taxes or taxation* or duty or duties or customs or excise*) near/3 (avoid* or evad* or evasion* or unpaid* or paid* or pay*))	529
S18	s15 or s16 or s17	8661
S19	s6 and s9 and s18	107
S20	s6 and s13 and s18	470
S21	s14 AND pd(19980101-20181231)	243
S22	s19 AND pd(19980101-20181231)	92
S23	s20 AND pd(19980101-20181231)	415
S24	TI,AB(proxy* or proxies*)	2389
S25	TI,AB((underage* or under age* or under-age*) and (trading* or trade or trades or sold* or sale* or sell or sells or supply* or supplied or supplies or retail* or vend or vends or vending or shopping or shopped or	1026

	selling* or purchas* or bought* or buys or buy or buying or consumer* or customer* or shop or shops or obtain* or procur*)	
S26	TI,AB(age* near/3 (verify* or verifies* or verification* or verified* or proof* or prove*))	117
S27	TI,AB((identity* or identification* or ID) near/3 (verify* or verifies* or verification* or verified* or proof* or prove* or evidence* or show* or demand* or request*))	1144
S28	s24 or s25 or s26 or s27	4651
S29	s6 and s28	163
S30	s29 AND pd(19980101-20181231)	154

The database would not accept complicated searches and so the strategy had to be amended to accommodate the technical limitations. Also, the results from s21, s22, s23, s30 could not be combined into a single set because of the technical limits. The results from all of these lines were added to the marked list and then a combined set in a single ris file with 750 results were downloaded.

6.1.2 Database name: Cochrane Central Register of Controlled Trials (CENTRAL)

- ID Search
- #1 MeSH descriptor: [Tobacco Use] explode all trees
 - #2 MeSH descriptor: [Tobacco] this term only
 - #3 MeSH descriptor: [Tobacco Use Disorder] this term only
 - #4 MeSH descriptor: [Tobacco Use Cessation] this term only
 - #5 MeSH descriptor: [Tobacco Use Cessation Products] this term only
 - #6 MeSH descriptor: [Smoking] this term only
 - #7 MeSH descriptor: [Pipe Smoking] explode all trees
 - #8 MeSH descriptor: [Smoking Reduction] this term only
 - #9 MeSH descriptor: [Smoking Cessation] this term only
 - #10 MeSH descriptor: [Smokers] this term only
 - #11 MeSH descriptor: [Smoking Devices] explode all trees
 - #12 MeSH descriptor: [Smoking Prevention] this term only
 - #13 (smoking* or smoker* or antismok* or anti smok* or anti-smok*):ti,ab
 - #14 (tobacco* or cigar* or cigs):ti,ab
 - #15 (bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies):ti,ab
 - #16 (waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas):ti,ab
 - #17 {or #1-#16}
 - #18 ((proxy* or proxies*) near/3 (trading* or trade or trades or sold* or sale* or sell or sells or supply* or supplied or supplies or retail* or vend or vends or vending or shopping or shopped or selling* or purchas* or bought* or buys or buy or buying or consumer* or customer* or shop or shops or obtain* or procur*)):ti,ab
 - #19 ((proxy* or proxies*) near/3 (parent* or mother* or father* or family* or families* or relatives or friend* or sibling* or brother* or sister* or adult or adults or older*)):ti,ab
 - #20 ((underage* or under age* or under-age*) near/3 (trading* or trade or trades or sold* or sale* or sell or sells or supply* or supplied or supplies or retail* or vend or vends or vending or shopping or shopped or selling* or purchas* or bought* or buys or buy or buying or consumer* or customer* or shop or shops or obtain* or procur*)):ti,ab
 - #21 (age* near/3 (verify* or verifies* or verification* or verified* or proof* or prove*)):ti,ab
 - #22 ((identity* or identification* or ID) near/3 (verify* or verifies* or verification* or verified* or proof* or prove* or evidence* or show* or demand* or request*)):ti,ab

- #23 {or #18-#22}
- #24 #17 and #23
- #25 MeSH descriptor: [Small Business] this term only
- #26 MeSH descriptor: [Commerce] this term only
- #27 (retail* or newsagent* or shopkeeper* or shop keeper* or vendor* or supermarket* or store keeper* or storekeeper* or merchant* or tobacconist* or shop or shops or shopping or shopped or store or stores or "off licence*" or "off license*" or officence* or officense* or business* or commerce* or commercial* or trading* or trade or trades or trader* or "sales assistant*" or shopworker* or seller* or "super market*"):ti,ab
- #28 {or #25-#27}
- #29 MeSH descriptor: [Minors] this term only
- #30 MeSH descriptor: [Adolescent Behavior] this term only
- #31 MeSH descriptor: [Adolescent] this term only
- #32 MeSH descriptor: [Adolescent Health] this term only
- #33 MeSH descriptor: [Adolescent Development] this term only
- #34 MeSH descriptor: [Child Behavior] this term only
- #35 MeSH descriptor: [Child] this term only
- #36 MeSH descriptor: [Child Development] this term only
- #37 MeSH descriptor: [Young Adult] this term only
- #38 MeSH descriptor: [Students] this term only
- #39 (young* near/2 (adult* or person* or people* or men or man or women or woman or male* or female*)):ti,ab
- #40 (child* or adolescen* or kid or kids or youth* or youngster* or minor or minors or underage* or under-age* or "under age*" or teen or teens or teenager* or juvenile* or boy or boys or boyhood or girl or girls or girlhood or schoolchild* or "school age*" or schoolage* or pupil or pupils or student*):ti,ab
- #41 ("under 18" or "under eighteen*" or "under 25" or "under twenty five*"):ti,ab
- #42 (("twelve" or "thirteen" or "fourteen" or "fifteen" or "sixteen" or "seventeen" or "eighteen" or "nineteen" or "twenty" or "twenty one" or "twenty two" or "twenty three" or "twenty four") near/2 (year or years or age or ages or aged)):ti,ab
- #43 (("12" or "13" or "14" or "15" or "16" or "17" or "18" or "19" or "20" or "21" or "22" or "23" or "24") near/2 (year or years or age or ages or aged)):ti,ab
- #44 {or #29-#43}
- #45 #17 and #28 and #44
- #46 MeSH descriptor: [Law Enforcement] this term only
- #47 MeSH descriptor: [Crime] this term only

#48 MeSH descriptor: [Criminal Behavior] this term only

#49 MeSH descriptor: [Fraud] this term only

#50 ((illicit* or illegal* or counterfeit* or fake* or black market* or unbrand* or disguise* or disguising or prohibit* or smuggl* or bootleg* or contraband* or untax* or unlawful* or crime* or criminal* or law enforcement* or legal* or genuine* or lawful* or branded or "trade mark*" or taxed or fraud*) near/3 (tobacco* or cigar* or cigs or smoking* or smoker* or antismok* or anti smok* or anti-smok* or bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies or waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas)):ti,ab

#51 ((tax* or taxes or taxation* or duty or duties or customs or excise*) near/3 (avoid* or evad* or evasion* or unpaid* or paid* or pay*)):ti,ab

#52 {or #46-#51}

#53 #17 and #52 and #28

#54 #17 and #52 and #44

#55 #24 or #45 or #53 or #54

#56 "clinicaltrials.gov":so

#57 #55 not #56

#58 "conference":pt

#59 #57 not #58

#60 #57 not #58 with Publication year from 1998 to 2018, in Trials

Cochrane Reviews 0	Cochrane Protocols 0	Trials 222	Editorials 0	Special collections 0	More ▼
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222 Trials matching on "#60 - #57 not #58" with Publication year from 1998 to 2018, in Trials'

Cochrane Central Register of Controlled Trials
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#53	#17 and #52 and #28	▼	31
#54	#17 and #52 and #44	▼	132
#55	#24 or #45 or #53 or #54	▼	340
#56	"clinicaltrials.gov":so	▼	127826
#57	#55 not #56	▼	295
#58	"conference":pt	▼	125579
#59	#57 not #58	▼	260
#60	#57 not #58 with Publication Year from 1998 to 2018, in Trials	▼	222

6.1.3 Database name: Cochrane Database of Systematic Reviews (CDSR)

ID Search

- #1 MeSH descriptor: [Tobacco Use] explode all trees
- #2 MeSH descriptor: [Tobacco] this term only
- #3 MeSH descriptor: [Tobacco Use Disorder] this term only
- #4 MeSH descriptor: [Tobacco Use Cessation] this term only
- #5 MeSH descriptor: [Tobacco Use Cessation Products] this term only
- #6 MeSH descriptor: [Smoking] this term only
- #7 MeSH descriptor: [Pipe Smoking] explode all trees
- #8 MeSH descriptor: [Smoking Reduction] this term only
- #9 MeSH descriptor: [Smoking Cessation] this term only
- #10 MeSH descriptor: [Smokers] this term only
- #11 MeSH descriptor: [Smoking Devices] explode all trees
- #12 MeSH descriptor: [Smoking Prevention] this term only
- #13 (smoking* or smoker* or antismok* or anti smok* or anti-smok*):ti,ab
- #14 (tobacco* or cigar* or cigs):ti,ab
- #15 (bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies):ti,ab
- #16 (waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas):ti,ab
- #17 {or #1-#16}
- #18 ((proxy* or proxies*) near/3 (trading* or trade or trades or sold* or sale* or sell or sells or supply* or supplied or supplies or retail* or vend or vends or vending or shopping or shopped or selling* or purchas* or bought* or buys or buy or buying or consumer* or customer* or shop or shops or obtain* or procur*)):ti,ab
- #19 ((proxy* or proxies*) near/3 (parent* or mother* or father* or family* or families* or relatives or friend* or sibling* or brother* or sister* or adult or adults or older*)):ti,ab
- #20 ((underage* or under age* or under-age*) near/3 (trading* or trade or trades or sold* or sale* or sell or sells or supply* or supplied or supplies or retail* or vend or vends or vending or shopping or shopped or selling* or purchas* or bought* or buys or buy or buying or consumer* or customer* or shop or shops or obtain* or procur*)):ti,ab
- #21 (age* near/3 (verify* or verifies* or verification* or verified* or proof* or prove*)):ti,ab
- #22 ((identity* or identification* or ID) near/3 (verify* or verifies* or verification* or verified* or proof* or prove* or evidence* or show* or demand* or request*)):ti,ab

- #23 {or #18-#22}
- #24 #17 and #23
- #25 MeSH descriptor: [Small Business] this term only
- #26 MeSH descriptor: [Commerce] this term only
- #27 (retail* or newsagent* or shopkeeper* or shop keeper* or vendor* or supermarket* or store keeper* or storekeeper* or merchant* or tobacconist* or shop or shops or shopping or shopped or store or stores or "off licence*" or "off license*" or officence* or officense* or business* or commerce* or commercial* or trading* or trade or trades or trader* or "sales assistant*" or shopworker* or seller* or "super market*"):ti,ab
- #28 {or #25-#27}
- #29 MeSH descriptor: [Minors] this term only
- #30 MeSH descriptor: [Adolescent Behavior] this term only
- #31 MeSH descriptor: [Adolescent] this term only
- #32 MeSH descriptor: [Adolescent Health] this term only
- #33 MeSH descriptor: [Adolescent Development] this term only
- #34 MeSH descriptor: [Child Behavior] this term only
- #35 MeSH descriptor: [Child] this term only
- #36 MeSH descriptor: [Child Development] this term only
- #37 MeSH descriptor: [Young Adult] this term only
- #38 MeSH descriptor: [Students] this term only
- #39 (young* near/2 (adult* or person* or people* or men or man or women or woman or male* or female*)):ti,ab
- #40 (child* or adolescen* or kid or kids or youth* or youngster* or minor or minors or underage* or under-age* or "under age*" or teen or teens or teenager* or juvenile* or boy or boys or boyhood or girl or girls or girlhood or schoolchild* or "school age*" or schoolage* or pupil or pupils or student*):ti,ab
- #41 ("under 18" or "under eighteen*" or "under 25" or "under twenty five*"):ti,ab
- #42 (("twelve" or "thirteen" or "fourteen" or "fifteen" or "sixteen" or "seventeen" or "eighteen" or "nineteen" or "twenty" or "twenty one" or "twenty two" or "twenty three" or "twenty four") near/2 (year or years or age or ages or aged)):ti,ab
- #43 (("12" or "13" or "14" or "15" or "16" or "17" or "18" or "19" or "20" or "21" or "22" or "23" or "24") near/2 (year or years or age or ages or aged)):ti,ab
- #44 {or #29-#43}
- #45 #17 and #28 and #44
- #46 MeSH descriptor: [Law Enforcement] this term only
- #47 MeSH descriptor: [Crime] this term only

#48 MeSH descriptor: [Criminal Behavior] this term only

#49 MeSH descriptor: [Fraud] this term only

#50 ((illicit* or illegal* or counterfeit* or fake* or black market* or unbrand* or disguise* or disguising or prohibit* or smuggl* or bootleg* or contraband* or untax* or unlawful* or crime* or criminal* or law enforcement* or legal* or genuine* or lawful* or branded or "trade mark*" or taxed or fraud*) near/3 (tobacco* or cigar* or cigs or smoking* or smoker* or antismok* or anti smok* or anti-smok* or bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies or waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas)):ti,ab

#51 ((tax* or taxes or taxation* or duty or duties or customs or excise*) near/3 (avoid* or evad* or evasion* or unpaid* or paid* or pay*)):ti,ab

#52 {or #46-#51}

#53 #17 and #52 and #28

#54 #17 and #52 and #44

#55 #24 or #45 or #53 or #54

#60 #24 or #45 or #53 or #54 with Publication year from 1998 to 2018, in Reviews

#53	#17 and #52 and #28	31
#54	#17 and #52 and #44	132
#55	#24 or #45 or #53 or #54	340
#56	#24 or #45 or #53 or #54	7

with Cochrane Library publication date from Jan 1998 to Dec 2018, in Cochrane Reviews

Cochrane Reviews 7	Cochrane Protocols 0	Trials 0	Editorials 0	Special collections 0	More ▼
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7 Cochrane Reviews matching on "#56 - #24 or #45 or #53 or #54" with Cochrane Library publication date between Jan 1998 and Dec 2018, in Cochrane Reviews'

Cochrane Database of Systematic Reviews
Issue 10 of 12, October 2018

6.1.4 Database name: EconLit

Database(s): Econlit 1886 to September 27, 2018

Search Strategy:

#	Searches	Results
1	(smoking* or smoker* or antismok* or anti smok* or anti-smok*).ti,ab.	1957
2	(tobacco* or cigar* or cigs).ti,ab.	2408
3	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).ti,ab.	25
4	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).ti,ab.	18
5	or/1-4	3520
6	((proxy* or proxies*) adj3 (trading* or trade or trades or sold* or sale* or sell or sells or supply* or supplied or supplies or retail* or vend or vends or vending or shopping or shopped or selling* or purchas* or bought* or buys or buy or buying or consumer* or customer* or shop or shops or obtain* or procur*).ti,ab.	275
7	((proxy* or proxies*) adj3 (parent* or mother* or father* or family* or families* or relatives or friend* or sibling* or brother* or sister* or adult or adults or older*).ti,ab.	55
8	((underage* or under age* or under-age*) adj3 (trading* or trade or trades or sold* or sale* or sell or sells or supply* or supplied or supplies or retail* or vend or vends or vending or shopping or shopped or selling* or purchas* or bought* or buys or buy or buying or consumer* or customer* or shop or shops or obtain* or procur*).ti,ab.	8
9	(age* adj3 (verify* or verifies* or verification* or verified* or proof* or prove*).ti,ab.	154
10	((identity* or identification* or ID) adj3 (verify* or verifies* or verification* or verified* or proof* or prove* or evidence* or show* or demand* or request*).ti,ab.	465
11	or/6-10	956
12	5 and 11	10
13	(retail* or newsagent* or shopkeeper* or shop keeper* or vendor* or supermarket* or store keeper* or storekeeper* or merchant* or tobacconist* or shop or shops or shopping or shopped or store or stores or "off licence*" or "off license*" or officence* or offlicense* or business* or commerce* or commercial* or trading* or trade or trades or trader* or "sales assistant*" or shopworker* or seller* or "super market*").ti,ab.	220904
14	(young* adj2 (adult* or person* or people* or men or man or women or woman or male* or female*).ti,ab.	4716

15	(child* or adolescen* or kid or kids or youth* or youngster* or minor or minors or underage* or under-age* or "under age*" or teen or teens or teenager* or juvenile* or boy or boys or boyhood or girl or girls or girlhood or schoolchild* or "school age*" or schoolage* or pupil or pupils or student*).ti,ab.	52115
16	("under 18" or "under eighteen*" or "under 25" or "under twenty five*").ti,ab.	48
17	((("twelve" or "thirteen" or "fourteen" or "fifteen" or "sixteen" or "seventeen" or "eighteen" or "nineteen" or "twenty" or "twenty one" or "twenty two" or "twenty three" or "twenty four") adj2 (year or years or age or ages or aged)).ti,ab.	4004
18	((("12" or "13" or "14" or "15" or "16" or "17" or "18" or "19" or "20" or "21" or "22" or "23" or "24") adj2 (year or years or age or ages or aged)).ti,ab.	9147
19	or/14-18	64779
20	5 and 13 and 19	42
21	((illicit* or illegal* or counterfeit* or fake* or black market* or unbrand* or disguise* or disguising or prohibit* or smuggl* or bootleg* or contraband* or untax* or unlawful* or crime* or criminal* or law enforcement* or legal* or genuine* or lawful* or branded or "trade mark*" or taxed or fraud*) adj3 (tobacco* or cigar* or cigs or smoking* or smoker* or antismok* or anti smok* or anti-smok* or bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies or waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas)).ti,ab.	95
22	((tax* or taxes or taxation* or duty or duties or customs or excise*) adj3 (avoid* or evad* or evasion* or unpaid* or paid* or pay*)).ti,ab.	5326
23	or/21-22	5413
24	5 and 23 and 13	27
25	5 and 23 and 19	16
26	12 or 20 or 24 or 25	91
27	limit 26 to yr="1998 -Current"	87

6.1.5 Database name: Embase

Database(s): Embase 1974 to 2018 October 2

Search Strategy:

#	Searches	Results
1	"tobacco use"/	7364
2	tobacco consumption/	1828
3	tobacco/	41422
4	tobacco dependence/	18368
5	"smoking and smoking related phenomena"/	177
6	smoking/	270104
7	smoking habit/	20705
8	cigar smoking/	84
9	cigarette smoking/	50806
10	bidi smoking/	115
11	exp pipe smoking/	134
12	exp parental smoking/	6777
13	adolescent smoking/	1611
14	smoking reduction/	63
15	smoking prevention/	282
16	smoking cessation/	52460
17	smoking cessation program/	2924
18	exp smoking device/	4449
19	(smoking* or smoker* or antismok* or anti smok* or anti-smok*).ti,ab.	324460
20	(tobacco* or cigar* or cigs).ti,ab.	163591
21	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).ti,ab.	791
22	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).ti,ab.	2177
23	or/1-22	493341
24	proxy/	654

25	((proxy* or proxies*) adj3 (trading* or trade or trades or sold* or sale* or sell or sells or supply* or supplied or supplies or retail* or vend or vends or vending or shopping or shopped or selling* or purchas* or bought* or buys or buy or buying or consumer* or customer* or shop or shops or obtain* or procur*)).ti,ab.	233
26	((proxy* or proxies*) adj3 (parent* or mother* or father* or family* or families* or relatives or friend* or sibling* or brother* or sister* or adult or adults or older*)).ti,ab.	1748
27	((underage* or under age* or under-age*) adj3 (trading* or trade or trades or sold* or sale* or sell or sells or supply* or supplied or supplies or retail* or vend or vends or vending or shopping or shopped or selling* or purchas* or bought* or buys or buy or buying or consumer* or customer* or shop or shops or obtain* or procur*)).ti,ab.	146
28	(age* adj3 (verify* or verifies* or verification* or verified* or proof* or prove*)).ti,ab.	4948
29	((identity* or identification* or ID) adj3 (verify* or verifies* or verification* or verified* or proof* or prove* or evidence* or show* or demand* or request*)).ti,ab.	13904
30	or/24-29	21478
31	23 and 30	462
32	commercial phenomena/	40822
33	(retail* or newsagent* or shopkeeper* or shop keeper* or vendor* or supermarket* or store keeper* or storekeeper* or merchant* or tobacconist* or shop or shops or shopping or shopped or store or stores or "off licence*" or "off license*" or offlicence* or offlicense* or business* or commerce* or commercial* or trading* or trade or trades or trader* or "sales assistant*" or shopworker* or seller* or "super market*").ti,ab.	615760
34	or/32-33	634136
35	"minor (person)"/	507
36	adolescent behavior/	7640
37	adolescent/	1373789
38	adolescent health/	7244
39	adolescent development/	3320
40	adolescence/	33740
41	child behavior/	41473
42	child development/	41322
43	child/	1503533

44 boy/	26581
45 girl/	36122
46 school child/	326655
47 young adult/	255154
48 juvenile/	34123
49 student/ or college student/ or elementary student/ or high school student/ or middle school student/ or non-medical student/ or undergraduate student/ or university student/	125117
50 (young* adj2 (adult* or person* or people* or men or man or women or woman or male* or female*)).ti,ab.	269734
51 (child* or adolescen* or kid or kids or youth* or youngster* or minor or minors or underage* or under-age* or "under age*" or teen or teens or teenager* or juvenile* or boy or boys or boyhood or girl or girls or girlhood or schoolchild* or "school age*" or schoolage* or pupil or pupils or student*).ti,ab.	2429349
52 ("under 18" or "under eighteen*" or "under 25" or "under twenty five*").ti,ab.	5477
53 (("twelve" or "thirteen" or "fourteen" or "fifteen" or "sixteen" or "seventeen" or "eighteen" or "nineteen" or "twenty" or "twenty one" or "twenty two" or "twenty three" or "twenty four") adj2 (year or years or age or ages or aged)).ti,ab.	56677
54 (("12" or "13" or "14" or "15" or "16" or "17" or "18" or "19" or "20" or "21" or "22" or "23" or "24") adj2 (year or years or age or ages or aged)).ti,ab.	1240479
55 or/35-54	4456982
56 23 and 34 and 55	3126
57 law enforcement/	9459
58 crime/	19149
59 Criminal behavior/	7813
60 fraud/	1839
61 ((illicit* or illegal* or counterfeit* or fake* or black market* or unbrand* or disguise* or disguising or prohibit* or smuggl* or bootleg* or contraband* or untax* or unlawful* or crime* or criminal* or law enforcement* or legal* or genuine* or lawful* or branded or "trade mark*" or taxed or fraud*) adj3 (tobacco* or cigar* or cigs or smoking* or smoker* or antismok* or anti smok* or anti-smok* or bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies or	2860

waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas)).ti,ab.	
62 ((tax* or taxes or taxation* or duty or duties or customs or excise*) adj3 (avoid* or evad* or evasion* or unpaid* or paid* or pay*)).ti,ab.	1051
63 or/57-62	40266
64 23 and 34 and 63	572
65 23 and 55 and 63	2006
66 31 or 56 or 64 or 65	5485
67 nonhuman/ not (human/ and nonhuman/)	4215270
68 66 not 67	5411
69 (letter or editorial).pt.	1610106
70 68 not 69	5331
71 (conference abstract or conference paper or conference proceeding or "conference review").pt.	3924541
72 70 not 71	4432
73 limit 72 to medline	1554
74 72 not 73	2878
75 limit 74 to english language	2728
76 limit 75 to yr="1998 -Current"	2381

6.1.6 Database name: Health Management Information Consortium (HMIC)

Database(s): HMIC Health Management Information Consortium 1979 to July 2018

Search Strategy:

#	Searches	Results
1	(smoking* or smoker* or antismok* or anti smok* or anti-smok*).ti,ab.	7516
2	(smoking* or smoker* or antismok* or anti smok* or anti-smok*).sh.	5310
3	(tobacco* or cigar* or cigs).ti,ab.	3431
4	(tobacco* or cigar* or cigs).sh.	1434
5	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).ti,ab.	12
6	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).sh.	1
7	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).ti,ab.	13
8	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).sh.	0
9	or/1-8	9400
10	((proxy* or proxies*) adj3 (trading* or trade or trades or sold* or sale* or sell or sells or supply* or supplied or supplies or retail* or vend or vends or vending or shopping or shopped or selling* or purchas* or bought* or buys or buy or buying or consumer* or customer* or shop or shops or obtain* or procur*).ti,ab.	9
11	((proxy* or proxies*) adj3 (parent* or mother* or father* or family* or families* or relatives or friend* or sibling* or brother* or sister* or adult or adults or older*).ti,ab.	18
12	(proxy or proxies).sh.	0
13	((underage* or under age* or under-age*) adj3 (trading* or trade or trades or sold* or sale* or sell or sells or supply* or supplied or supplies or retail* or vend or vends or vending or shopping or shopped or selling* or purchas* or bought* or buys or buy or buying or consumer* or customer* or shop or shops or obtain* or procur*).ti,ab.	19
14	(underage* or under age* or under-age*).sh.	0
15	(age* adj3 (verify* or verifies* or verification* or verified* or proof* or prove*).ti,ab.	27
16	(verify* or verifies* or verification* or verified* or proof* or prove*).sh.	1

17	((identity* or identification* or ID) adj3 (verify* or verifies* or verification* or verified* or proof* or prove* or evidence* or show* or demand* or request*).ti,ab.	49
18	(identity* or identification* or ID).sh.	76
19	or/10-18	193
20	9 and 19	25
21	(retail* or newsagent* or shopkeeper* or shop keeper* or vendor* or supermarket* or store keeper* or storekeeper* or merchant* or tobacconist* or shop or shops or shopping or shopped or store or stores or retail* or "off licence*" or "off license*" or offlicence* or offlicense* or business* or commerce* or commercial* or trading* or trade or trades or trader* or "sales assistant*" or shopworker* or seller* or "super market*").ti,ab.	8606
22	(retail* or newsagent* or shopkeeper* or shop keeper* or vendor* or supermarket* or store keeper* or storekeeper* or merchant* or tobacconist* or shop or shops or shopping or shopped or store or stores or retail* or "off licence*" or "off license*" or offlicence* or offlicense* or business* or commerce* or commercial* or trading* or trade or trades or trader* or "sales assistant*" or shopworker* or seller* or "super market*").sh.	1199
23	or/21-22	9133
24	(young* adj2 (adult* or person* or people* or men or man or women or woman or male* or female*).ti,ab.	8289
25	young*.sh.	10934
26	(child* or adolescen* or kid or kids or youth* or youngster* or minor or minors or underage* or under-age* or "under age*" or teen or teens or teenager* or juvenile* or boy or boys or boyhood or girl or girls or girlhood or schoolchild* or "school age*" or schoolage* or pupil or pupils or student*).ti,ab.	42200
27	(child* or adolescen* or kid or kids or youth* or youngster* or minor or minors or underage* or under-age* or "under age*" or teen or teens or teenager* or juvenile* or boy or boys or boyhood or girl or girls or girlhood or schoolchild* or "school age*" or schoolage* or pupil or pupils or student*).sh.	27662
28	("under 18" or "under eighteen*" or "under 25" or "under twenty five*").ti,ab.	202
29	("under 18" or "under eighteen*" or "under 25" or "under twenty five*").sh.	0
30	((("twelve" or "thirteen" or "fourteen" or "fifteen" or "sixteen" or "seventeen" or "eighteen" or "nineteen" or "twenty" or "twenty one" or "twenty two" or "twenty three" or "twenty four") adj2 (year or years or age or ages or aged)).ti,ab.	607

31	("twelve" or "thirteen" or "fourteen" or "fifteen" or "sixteen" or "seventeen" or "eighteen" or "nineteen" or "twenty" or "twenty one" or "twenty two" or "twenty three" or "twenty four").sh.	0
32	((("12" or "13" or "14" or "15" or "16" or "17" or "18" or "19" or "20" or "21" or "22" or "23" or "24") adj2 (year or years or age or ages or aged)).ti,ab.	10181
33	("12" or "13" or "14" or "15" or "16" or "17" or "18" or "19" or "20" or "21" or "22" or "23" or "24").sh.	0
34	or/24-33	57406
35	9 and 23 and 34	122
36	((illicit* or illegal* or counterfeit* or fake* or black market* or unbrand* or disguise* or disguising or prohibit* or smuggl* or bootleg* or contraband* or untax* or unlawful* or crime* or criminal* or law enforcement* or legal* or genuine* or lawful* or branded or "trade mark*" or taxed or fraud*) adj3 (tobacco* or cigar* or cigs or smoking* or smoker* or antismok* or anti smok* or anti-smok* or bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies or waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas)).ti,ab.	150
37	((illicit* or illegal* or counterfeit* or fake* or black market* or unbrand* or disguise* or disguising or prohibit* or smuggl* or bootleg* or contraband* or untax* or unlawful* or crime* or criminal* or law enforcement* or legal* or genuine* or lawful* or branded or "trade mark*" or taxed or fraud*).sh.	3385
38	((tax* or taxes or taxation* or duty or duties or customs or excise*) adj3 (avoid* or evad* or evasion* or unpaid* or paid* or pay*)).ti,ab.	178
39	(tax* or taxes or taxation* or duty or duties or customs or excise*).sh.	1599
40	or/36-39	5244
41	9 and 40 and 23	48
42	9 and 40 and 34	104
43	20 or 35 or 41 or 42	237
44	limit 43 to yr="1998 -Current"	203

6.1.7 Database name: MEDLINE

Database(s): Ovid MEDLINE(R) 1946 to October 02, 2018

Search Strategy:

#	Searches	Results
1	exp "tobacco use"/	1882
2	tobacco/	28800
3	"tobacco use disorder"/	10417
4	"tobacco use cessation"/	1029
5	"tobacco use cessation products"/	1493
6	smoking/	133565
7	exp Pipe smoking/	58
8	smoking reduction/	14
9	"smoking cessation"/	25974
10	Smokers/	442
11	exp Smoking Devices/	7739
12	smoking prevention/	17400
13	(smoking* or smoker* or antismok* or anti smok* or anti-smok*).ti,ab.	201985
14	(tobacco* or cigar* or cigs).ti,ab.	122142
15	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).ti,ab.	473
16	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).ti,ab.	1401
17	or/1-16	299291
18	((proxy* or proxies*) adj3 (trading* or trade or trades or sold* or sale* or sell or sells or supply* or supplied or supplies or retail* or vend or vends or vending or shopping or shopped or selling* or purchas* or bought* or buys or buy or buying or consumer* or customer* or shop or shops or obtain* or procur*).ti,ab.	163
19	((proxy* or proxies*) adj3 (parent* or mother* or father* or family* or families* or relatives or friend* or sibling* or brother* or sister* or adult or adults or older*).ti,ab.	1059
20	((underage* or under age* or under-age*) adj3 (trading* or trade or trades or sold* or sale* or sell or sells or supply* or supplied or supplies or retail* or vend or vends or vending or shopping or shopped or	124

	selling* or purchas* or bought* or buys or buy or buying or consumer* or customer* or shop or shops or obtain* or procur*)).ti,ab.	
21	(age* adj3 (verify* or verifies* or verification* or verified* or proof* or prove*)).ti,ab.	3177
22	((identity* or identification* or ID) adj3 (verify* or verifies* or verification* or verified* or proof* or prove* or evidence* or show* or demand* or request*)).ti,ab.	10986
23	or/18-22	15460
24	17 and 23	335
25	small business/	231
26	commerce/	22696
27	(retail* or newsagent* or shopkeeper* or shop keeper* or vendor* or supermarket* or store keeper* or storekeeper* or merchant* or tobacconist* or shop or shops or shopping or shopped or store or stores or "off licence*" or "off license*" or officence* or offlicense* or business* or commerce* or commercial* or trading* or trade or trades or trader* or "sales assistant*" or shopworker* or seller* or "super market*").ti,ab.	304064
28	or/25-27	317333
29	Minors/	2467
30	Adolescent Behavior/ or Adolescent/ or Adolescent Health/ or Adolescent Development/	1887587
31	Child Behavior/ or Child/ or Child Development/	1602200
32	young adult/	689957
33	students/	50411
34	(young* adj2 (adult* or person* or people* or men or man or women or woman or male* or female*)).ti,ab.	183246
35	(child* or adolescen* or kid or kids or youth* or youngster* or minor or minors or underage* or under-age* or "under age*" or teen or teens or teenager* or juvenile* or boy or boys or boyhood or girl or girls or girlhood or schoolchild* or "school age*" or schoolage* or pupil or pupils or student*).ti,ab.	1774885
36	("under 18" or "under eighteen*" or "under 25" or "under twenty five*").ti,ab.	3067
37	((("twelve" or "thirteen" or "fourteen" or "fifteen" or "sixteen" or "seventeen" or "eighteen" or "nineteen" or "twenty" or "twenty one" or "twenty two" or "twenty three" or "twenty four") adj2 (year or years or age or ages or aged)).ti,ab.	37018

38	((("12" or "13" or "14" or "15" or "16" or "17" or "18" or "19" or "20" or "21" or "22" or "23" or "24") adj2 (year or years or age or ages or aged)).ti,ab.	732933
39	or/29-38	4032414
40	17 and 28 and 39	2187
41	Law enforcement/	3312
42	Crime/	14755
43	Criminal behavior/	180
44	Fraud/	6976
45	((illicit* or illegal* or counterfeit* or fake* or black market* or unbrand* or disguise* or disguising or prohibit* or smuggl* or bootleg* or contraband* or untax* or unlawful* or crime* or criminal* or law enforcement* or legal* or genuine* or lawful* or branded or "trade mark*" or taxed or fraud*) adj3 (tobacco* or cigar* or cigs or smoking* or smoker* or antismok* or anti smok* or anti-smok* or bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies or waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas)).ti,ab.	1998
46	((tax* or taxes or taxation* or duty or duties or customs or excise*) adj3 (avoid* or evad* or evasion* or unpaid* or paid* or pay*)).ti,ab.	810
47	or/41-46	26656
48	17 and 47 and 28	470
49	17 and 47 and 39	1399
50	24 or 40 or 48 or 49	3794
51	Animals/ not (Animals/ and Humans/)	4467667
52	50 not 51	3771
53	limit 52 to (letter or historical article or comment or editorial or news or case reports)	168
54	52 not 53	3603
55	limit 54 to english language	3343
56	limit 55 to yr="1998 -Current"	2860

6.1.8 Database name: MEDLINE-in-Process (including Epub Ahead-of-Print)

Database(s): Ovid MEDLINE(R) Epub Ahead of Print October 02, 2018, Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations October 02, 2018

Search Strategy:

#	Searches	Results
1	(smoking* or smoker* or antismok* or anti smok* or anti-smok*).ti,ab.	23933
2	(tobacco* or cigar* or cigs).ti,ab.	16198
3	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).ti,ab.	90
4	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).ti,ab.	448
5	or/1-4	33038
6	((proxy* or proxies*) adj3 (trading* or trade or trades or sold* or sale* or sell or sells or supply* or supplied or supplies or retail* or vend or vends or vending or shopping or shopped or selling* or purchas* or bought* or buys or buy or buying or consumer* or customer* or shop or shops or obtain* or procur*).ti,ab.	24
7	((proxy* or proxies*) adj3 (parent* or mother* or father* or family* or families* or relatives or friend* or sibling* or brother* or sister* or adult or adults or older*).ti,ab.	167
8	((underage* or under age* or under-age*) adj3 (trading* or trade or trades or sold* or sale* or sell or sells or supply* or supplied or supplies or retail* or vend or vends or vending or shopping or shopped or selling* or purchas* or bought* or buys or buy or buying or consumer* or customer* or shop or shops or obtain* or procur*).ti,ab.	17
9	(age* adj3 (verify* or verifies* or verification* or verified* or proof* or prove*).ti,ab.	382
10	((identity* or identification* or ID) adj3 (verify* or verifies* or verification* or verified* or proof* or prove* or evidence* or show* or demand* or request*).ti,ab.	1258
11	or/6-10	1836
12	5 and 11	36
13	(retail* or newsagent* or shopkeeper* or shop keeper* or vendor* or supermarket* or store keeper* or storekeeper* or merchant* or tobacconist* or shop or shops or shopping or shopped or store or stores or "off licence*" or "off license*" or officence* or offlicense* or business* or commerce* or commercial* or trading* or trade or trades or trader* or "sales assistant*" or shopworker* or seller* or "super market*").ti,ab.	59599

14	(young* adj2 (adult* or person* or people* or men or man or women or woman or male* or female*)).ti,ab.	26937
15	(child* or adolescen* or kid or kids or youth* or youngster* or minor or minors or underage* or under-age* or "under age*" or teen or teens or teenager* or juvenile* or boy or boys or boyhood or girl or girls or girlhood or schoolchild* or "school age*" or schoolage* or pupil or pupils or student*).ti,ab.	221785
16	("under 18" or "under eighteen*" or "under 25" or "under twenty five*").ti,ab.	445
17	((("twelve" or "thirteen" or "fourteen" or "fifteen" or "sixteen" or "seventeen" or "eighteen" or "nineteen" or "twenty" or "twenty one" or "twenty two" or "twenty three" or "twenty four") adj2 (year or years or age or ages or aged)).ti,ab.	4713
18	((("12" or "13" or "14" or "15" or "16" or "17" or "18" or "19" or "20" or "21" or "22" or "23" or "24") adj2 (year or years or age or ages or aged)).ti,ab.	99930
19	or/14-18	302398
20	5 and 13 and 19	217
21	((illicit* or illegal* or counterfeit* or fake* or black market* or unbrand* or disguise* or disguising or prohibit* or smuggl* or bootleg* or contraband* or untax* or unlawful* or crime* or criminal* or law enforcement* or legal* or genuine* or lawful* or branded or "trade mark*" or taxed or fraud*) adj3 (tobacco* or cigar* or cigs or smoking* or smoker* or antismok* or anti smok* or anti-smok* or bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies or waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas)).ti,ab.	280
22	((tax* or taxes or taxation* or duty or duties or customs or excise*) adj3 (avoid* or evad* or evasion* or unpaid* or paid* or pay*)).ti,ab.	148
23	or/21-22	423
24	5 and 23 and 13	51
25	5 and 23 and 19	128
26	12 or 20 or 24 or 25	388
27	limit 26 to english language	382
28	limit 27 to yr="1998 -Current"	372

6.1.9 Database name: PsycINFO

Database(s): PsycINFO 1806 to September Week 4 2018

Search Strategy:

#	Searches	Results
1	tobacco smoking/	29022
2	smoking cessation/	12168
3	(smoking* or smoker* or antismok* or anti smok* or anti-smok*).ti,ab.	47283
4	(tobacco* or cigar* or cigs).ti,ab.	32842
5	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).ti,ab.	82
6	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).ti,ab.	515
7	or/1-6	58931
8	((proxy* or proxies*) adj3 (trading* or trade or trades or sold* or sale* or sell or sells or supply* or supplied or supplies or retail* or vend or vends or vending or shopping or shopped or selling* or purchas* or bought* or buys or buy or buying or consumer* or customer* or shop or shops or obtain* or procur*).ti,ab.	86
9	((proxy* or proxies*) adj3 (parent* or mother* or father* or family* or families* or relatives or friend* or sibling* or brother* or sister* or adult or adults or older*).ti,ab.	572
10	((underage* or under age* or under-age*) adj3 (trading* or trade or trades or sold* or sale* or sell or sells or supply* or supplied or supplies or retail* or vend or vends or vending or shopping or shopped or selling* or purchas* or bought* or buys or buy or buying or consumer* or customer* or shop or shops or obtain* or procur*).ti,ab.	90
11	(age* adj3 (verify* or verifies* or verification* or verified* or proof* or prove*).ti,ab.	435
12	((identity* or identification* or ID) adj3 (verify* or verifies* or verification* or verified* or proof* or prove* or evidence* or show* or demand* or request*).ti,ab.	3374
13	or/8-12	4523
14	7 and 13	82
15	retailing/	3612
16	shopping/	1700
17	shopping centers/	282

18	commerce/	1874
19	family business/	380
20	small businesses/	1244
21	(retail* or newsagent* or shopkeeper* or shop keeper* or vendor* or supermarket* or store keeper* or storekeeper* or merchant* or tobacconist* or shop or shops or shopping or shopped or store or stores or "off licence*" or "off license*" or officence* or officense* or business* or commerce* or commercial* or trading* or trade or trades or trader* or "sales assistant*" or shopworker* or seller* or "super market*").ti,ab.	106738
22	or/15-21	108332
23	adolescent development/	44986
24	adolescent attitudes/	18811
25	adolescent characteristics/	2668
26	Childhood Development/	64877
27	child attitudes/	7018
28	child characteristics/	2138
29	Students/	22124
30	College Students/	71818
31	Community College Students/	1728
32	Junior College Students/	231
33	Middle School Students/	7965
34	High School Students/	30346
35	Junior High School Students/	11466
36	(young* adj2 (adult* or person* or people* or men or man or women or woman or male* or female*)).ti,ab.	100500
37	(child* or adolescen* or kid or kids or youth* or youngster* or minor or minors or underage* or under-age* or "under age*" or teen or teens or teenager* or juvenile* or boy or boys or boyhood or girl or girls or girlhood or schoolchild* or "school age*" or schoolage* or pupil or pupils or student*).ti,ab.	1258843
38	("under 18" or "under eighteen*" or "under 25" or "under twenty five*").ti,ab.	882
39	((("twelve" or "thirteen" or "fourteen" or "fifteen" or "sixteen" or "seventeen" or "eighteen" or "nineteen" or "twenty" or "twenty one" or	11073

"twenty two" or "twenty three" or "twenty four") adj2 (year or years or age or ages or aged)).ti,ab.	
40 ("12" or "13" or "14" or "15" or "16" or "17" or "18" or "19" or "20" or "21" or "22" or "23" or "24") adj2 (year or years or age or ages or aged)).ti,ab.	265855
41 or/23-40	1450221
42 7 and 22 and 41	653
43 law enforcement/	3787
44 crime/	14415
45 fraud/	797
46 criminals/	12667
47 criminal behavior/	8610
48 ((illicit* or illegal* or counterfeit* or fake* or black market* or unbrand* or disguise* or disguising or prohibit* or smuggl* or bootleg* or contraband* or untax* or unlawful* or crime* or criminal* or law enforcement* or legal* or genuine* or lawful* or branded or "trade mark*" or taxed or fraud*) adj3 (tobacco* or cigar* or cigs or smoking* or smoker* or antismok* or anti smok* or anti-smok* or bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies or waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas)).ti,ab.	1217
49 ((tax* or taxes or taxation* or duty or duties or customs or excise*) adj3 (avoid* or evad* or evasion* or unpaid* or paid* or pay*)).ti,ab.	646
50 or/43-49	35609
51 7 and 22 and 50	139
52 7 and 41 and 50	849
53 14 or 42 or 51 or 52	1544
54 limit 53 to ("column/opinion" or editorial or letter)	24
55 53 not 54	1520
56 limit 55 to animal	8
57 55 not 56	1512
58 limit 57 to english language	1437
59 limit 58 to yr="1998 -Current"	1289

6.1.10 Database name: Social Policy and Practice (SPP)

Database(s): Social Policy and Practice 201807

Search Strategy:

#	Searches	Results
1	(smoking* or smoker* or antismok* or anti smok* or anti-smok*).ti,ab.	1373
2	(smoking* or smoker* or antismok* or anti smok* or anti-smok*).sh.	858
3	(tobacco* or cigar* or cigs).ti,ab.	603
4	(tobacco* or cigar* or cigs).sh.	221
5	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).ti,ab.	0
6	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).sh.	0
7	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).ti,ab.	5
8	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).sh.	4
9	or/1-8	1897
10	((proxy* or proxies*) adj3 (trading* or trade or trades or sold* or sale* or sell or sells or supply* or supplied or supplies or retail* or vend or vends or vending or shopping or shopped or selling* or purchas* or bought* or buys or buy or buying or consumer* or customer* or shop or shops or obtain* or procur*).ti,ab.	10
11	((proxy* or proxies*) adj3 (parent* or mother* or father* or family* or families* or relatives or friend* or sibling* or brother* or sister* or adult or adults or older*).ti,ab.	31
12	(proxy or proxies).sh.	2
13	((underage* or under age* or under-age*) adj3 (trading* or trade or trades or sold* or sale* or sell or sells or supply* or supplied or supplies or retail* or vend or vends or vending or shopping or shopped or selling* or purchas* or bought* or buys or buy or buying or consumer* or customer* or shop or shops or obtain* or procur*).ti,ab.	14
14	(underage* or under age* or under-age*).sh.	29
15	(age* adj3 (verify* or verifies* or verification* or verified* or proof* or prove*).ti,ab.	56
16	(verify* or verifies* or verification* or verified* or proof* or prove*).sh.	19

17	((identity* or identification* or ID) adj3 (verify* or verifies* or verification* or verified* or proof* or prove* or evidence* or show* or demand* or request*).ti,ab.	74
18	(identity* or identification* or ID).sh.	278
19	or/10-18	505
20	9 and 19	9
21	(retail* or newsagent* or shopkeeper* or shop keeper* or vendor* or supermarket* or store keeper* or storekeeper* or merchant* or tobacconist* or shop or shops or shopping or shopped or store or stores or retail* or "off licence*" or "off license*" or offlicence* or offlicense* or business* or commerce* or commercial* or trading* or trade or trades or trader* or "sales assistant*" or shopworker* or seller* or "super market*").ti,ab.	11637
22	(retail* or newsagent* or shopkeeper* or shop keeper* or vendor* or supermarket* or store keeper* or storekeeper* or merchant* or tobacconist* or shop or shops or shopping or shopped or store or stores or retail* or "off licence*" or "off license*" or offlicence* or offlicense* or business* or commerce* or commercial* or trading* or trade or trades or trader* or "sales assistant*" or shopworker* or seller* or "super market*").sh.	4378
23	or/21-22	13068
24	(young* adj2 (adult* or person* or people* or men or man or women or woman or male* or female*).ti,ab.	28048
25	young*.sh.	31858
26	(child* or adolescen* or kid or kids or youth* or youngster* or minor or minors or underage* or under-age* or "under age*" or teen or teens or teenager* or juvenile* or boy or boys or boyhood or girl or girls or girlhood or schoolchild* or "school age*" or schoolage* or pupil or pupils or student*).ti,ab.	96624
27	(child* or adolescen* or kid or kids or youth* or youngster* or minor or minors or underage* or under-age* or "under age*" or teen or teens or teenager* or juvenile* or boy or boys or boyhood or girl or girls or girlhood or schoolchild* or "school age*" or schoolage* or pupil or pupils or student*).sh.	73843
28	("under 18" or "under eighteen*" or "under 25" or "under twenty five*").ti,ab.	340
29	("under 18" or "under eighteen*" or "under 25" or "under twenty five*").sh.	8
30	((("twelve" or "thirteen" or "fourteen" or "fifteen" or "sixteen" or "seventeen" or "eighteen" or "nineteen" or "twenty" or "twenty one" or "twenty two" or "twenty three" or "twenty four") adj2 (year or years or age or ages or aged)).ti,ab.	895

31	("twelve" or "thirteen" or "fourteen" or "fifteen" or "sixteen" or "seventeen" or "eighteen" or "nineteen" or "twenty" or "twenty one" or "twenty two" or "twenty three" or "twenty four").sh.	2
32	((("12" or "13" or "14" or "15" or "16" or "17" or "18" or "19" or "20" or "21" or "22" or "23" or "24") adj2 (year or years or age or ages or aged)).ti,ab.	11120
33	("12" or "13" or "14" or "15" or "16" or "17" or "18" or "19" or "20" or "21" or "22" or "23" or "24").sh.	0
34	or/24-33	118349
35	9 and 23 and 34	27
36	((illicit* or illegal* or counterfeit* or fake* or black market* or unbrand* or disguise* or disguising or prohibit* or smuggl* or bootleg* or contraband* or untax* or unlawful* or crime* or criminal* or law enforcement* or legal* or genuine* or lawful* or branded or "trade mark*" or taxed or fraud*) adj3 (tobacco* or cigar* or cigs or smoking* or smoker* or antismok* or anti smok* or anti-smok* or bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies or waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas)).ti,ab.	57
37	((illicit* or illegal* or counterfeit* or fake* or black market* or unbrand* or disguise* or disguising or prohibit* or smuggl* or bootleg* or contraband* or untax* or unlawful* or crime* or criminal* or law enforcement* or legal* or genuine* or lawful* or branded or "trade mark*" or taxed or fraud*).sh.	13605
38	((tax* or taxes or taxation* or duty or duties or customs or excise*) adj3 (avoid* or evad* or evasion* or unpaid* or paid* or pay*)).ti,ab.	225
39	(tax* or taxes or taxation* or duty or duties or customs or excise*).sh.	2012
40	or/36-39	15732
41	9 and 40 and 23	12
42	9 and 40 and 34	95
43	20 or 35 or 41 or 42	124
44	limit 43 to yr="1998 -Current"	109

6.2 Supplementary search techniques

6.2.1 Surveillance reviews

The following papers were extracted from the surveillance review for PH14 and added to the EndNote file.

McNeill A, Iringe-Koko B, Bains M, Bauld L, Siggens G, Russell A. (2014). Countering the demand for, and supply of, illicit tobacco: an assessment of the North of England Tackling Illicit Tobacco for Better Health Programme. *Tobacco Control* 2014; 23: e44-e50.

Stead M, Jones L, Docherty G, Gough B, Antoniak M, McNeill A. (2013). 'No-one actually goes to a shop and buys them do they?': attitudes and behaviours regarding illicit tobacco in a multiply disadvantaged community in England. *Addiction* 2013.

Sutcliffe K, Brunton G, Twamley K, Hinds K, O'Mara-Eves AJ, Thomas J (2011). Young people's access to tobacco: a mixed-method systematic review. London: EPPI Centre, Social Science Research Unit, Institute of Education, University of London.

6.2.2 Scoping searches

The following papers were identified during the scoping searches for this topic and added to the EndNote file

Altman DG, Wheelis AY, McFarlane M, Lee H, Fortmann SP. The relationship between tobacco access and use among adolescents: a four community study. *Social Science & Medicine* 1999;48:759-75.

Biglan A, Ary D, Koehn V, Levings D, Smith S, Wright Z, et al. Mobilizing positive reinforcement in communities to reduce youth access to tobacco. *American Journal of Community Psychology* 1996;24:625-38.

DiFranza, JR Which interventions against the sale of tobacco to minors can be expected to reduce smoking? *TOBACCO CONTROL* 21 4 436-442

Dovell RA, Mowat DL, Dorland J, Lam M. Changes among retailers selling cigarettes to minors. *Canadian Journal of Public Health* 1996;87:66-8.

Gemson DH, Moats HL, Watkins BX, Ganz ML, Robinson S, Heaton E. Laying down the law: reducing illegal tobacco sales to minors in central Harlem. *American Journal of Preventive Medicine* 1998;88:936-9.

Junck E, Humphries J, Rissel C. Reducing tobacco sales to minors in Manly: 10 months follow-up. *Health Promotion Journal of Australia* 1997;7:29-34.

Keay KD, Woodruff SI, Wildey MB, Kenney EM. Effect of a retailer intervention on cigarette sales to minors in San Diego County, California. *Tobacco Control* 1993;2:145-51.

Laverty AA et al. Child awareness of and access to cigarettes: impacts of the point-of-sale display ban in England. *Tobacco Control*. 2018 Sep 20. 30237314.ui

Nuyts PAW; Kuijpers TG; Willemsen MC; Kunst AE How can a ban on tobacco sales to minors be effective in changing smoking behaviour among youth? - A realist review *Preventive Medicine*. 115:61-67, 2018 Oct. 30144483.ui

Robertson L; Marsh L; Hoek J; McGee R. New Zealand tobacco control experts' views towards policies to reduce tobacco availability. *New Zealand Medical Journal*. 130(1456):27-35, 2017 Jun 02 28571046.ui

Robertson L; Marsh L; Edwards R; Hoek J; van der Deen FS; McGee R. Regulating tobacco retail in New Zealand: what can we learn from overseas?. *New Zealand Medical Journal*. 129(1432):74-9, 2016 Apr 01. 27356255.ui

Stead L & Lancaster T Interventions for preventing tobacco sales to minors *Cochrane Database of Systematic Reviews*, 2005

6.2.3 Forward citation searching

The following papers were identified during surveillance and scoping searches and they were used for citation searching in Web of Science. Only those references that could be accessed through the NICE subscription to WOS were added to the search results. The 488 citations were added to the marked list in WOS and then the papers published before 1998 were excluded. Duplicates were removed from the marked list in WOS before downloading the 446 results.

Completed 3/10/18 using "Web of Science Core Collection (1990-present)".

Altman DG, Wheelis AY, McFarlane M, Lee H, Fortmann SP. The relationship between tobacco access and use among adolescents: a four community study. *Social Science & Medicine* 1999;48:759-75.

Biglan A, Ary D, Koehn V, Levings D, Smith S, Wright Z, et al. Mobilizing positive reinforcement in communities to reduce youth access to tobacco. *American Journal of Community Psychology* 1996;24:625-38.

DiFranza, JR Which interventions against the sale of tobacco to minors can be expected to reduce smoking? *TOBACCO CONTROL* 21 4 436-442

Dovell RA, Mowat DL, Dorland J, Lam M. Changes among retailers selling cigarettes to minors. *Canadian Journal of Public Health* 1996;87:66-8.

Gemson DH, Moats HL, Watkins BX, Ganz ML, Robinson S, Heaton E. Laying down the law: reducing illegal tobacco sales to minors in central Harlem. *American Journal of Preventive Medicine* 1998;88:936-9.

Junck E, Humphries J, Rissel C. Reducing tobacco sales to minors in Manly: 10 months follow-up. *Health Promotion Journal of Australia* 1997;7:29-34.

Keay KD, Woodruff SI, Wildey MB, Kenney EM. Effect of a retailer intervention on cigarette sales to minors in San Diego County, California. *Tobacco Control* 1993;2:145-51.

Laverty AA et al. Child awareness of and access to cigarettes: impacts of the point-of-sale display ban in England. *Tobacco Control*. 2018 Sep 20. 30237314.ui

McNeill A, Iringe-Koko B, Bains M, Bauld L, Siggens G, Russell A. (2014). Countering the demand for, and supply of, illicit tobacco: an assessment of the North of England Tackling Illicit Tobacco for Better Health Programme. *Tobacco Control* 2014; 23: e44-e50.

Nuyts PAW; Kuijpers TG; Willemsen MC; Kunst AE How can a ban on tobacco sales to minors be effective in changing smoking behaviour among youth? - A realist review *Preventive Medicine*. 115:61-67, 2018 Oct. 30144483.ui

Robertson L; Marsh L; Hoek J; McGee R. New Zealand tobacco control experts' views towards policies to reduce tobacco availability. *New Zealand Medical Journal*. 130(1456):27-35, 2017 Jun 02 28571046.ui

Robertson L; Marsh L; Edwards R; Hoek J; van der Deen FS; McGee R Regulating tobacco retail in New Zealand: what can we learn from overseas?. *New Zealand Medical Journal*. 129(1432):74-9, 2016 Apr 01. 27356255.ui

Stead M, Jones L, Docherty G, Gough B, Antoniak M, McNeill A. (2013). 'No-one actually goes to a shop and buys them do they?': attitudes and behaviours regarding illicit tobacco in a multiply disadvantaged community in England. *Addiction* 2013.

Stead L & Lancaster T Interventions for preventing tobacco sales to minors
Cochrane Database of Systematic Reviews, 2005

Science Citation Index Expanded (SCI-EXPANDED) --1990-present

Social Sciences Citation Index (SSCI) --1990-present

Arts & Humanities Citation Index (A&HCI) --1990-present

Emerging Sources Citation Index (ESCI) --2015-present

6.3 Web searching

6.3.1 Search engines

Search engine	
Name	EconBiz
URL	https://www.econbiz.de
Date searched	15/10/2018
Search terms	<p>(tobacco AND retailer)</p> <p>(smoking AND retailer)</p> <p>(cigarette AND retailer)</p> <p>(tobacco AND proxy sale)</p> <p>(smoking AND proxy sale)</p> <p>(cigarette AND proxy sale)</p> <p>(tobacco AND underage)</p> <p>(smoking AND underage)</p> <p>(cigarette AND underage)</p> <p>(tobacco AND shops)</p> <p>(smoking AND shops)</p> <p>(cigarette AND shops)</p> <p>(tobacco AND supermarket)</p> <p>(smoking AND supermarket)</p> <p>(cigarette AND supermarket)</p> <p>(tobacco AND illicit)</p> <p>(smoking AND illicit)</p> <p>(cigarette AND illicit)</p> <p>(tobacco AND counterfeit)</p>

	<p>(smoking AND counterfeit)</p> <p>(cigarette AND counterfeit)</p> <p>(tobacco AND smuggle)</p> <p>(smoking AND smuggle)</p> <p>(cigarette AND smuggle)</p> <p>(tobacco AND illegal)</p> <p>(smoking AND illegal)</p> <p>(cigarette AND illegal)</p> <p>All terms were truncated</p>
How the results were selected	Restricted searches to English, reports, 1998-2018. Only selected documents if the title or abstract were directly relevant to the questions.
Results	<p>Health Canada, Tobacco Control Programme (2008) Retailer Compliance as a Predictor of Youth Smoking Participation and Consumption</p> <p>https://mpra.ub.uni-muenchen.de/3078/1/MPRA_paper_3078.pdf</p> <p>Institute for the Study of Labor, Bonn (2012) Reducing underage alcohol and tobacco use: Evidence from the introduction of vertical identification cards, Discussion Paper Series, 6951</p> <p>https://www.econstor.eu/bitstream/10419/67209/1/72930017X.pdf</p>

Search engine	
Name	Health Services/Technology Assessment Texts (HSTAT)
URL	https://www.ncbi.nlm.nih.gov/books/NBK16710
Date searched	15/10/2018
Search terms	<p>#1 (((((tobacco[MeSH Terms]) OR tobacco use[MeSH Terms]) OR smoking[MeSH Terms]) OR smoking cessation[MeSH Terms]) OR smoking prevention[MeSH Terms]) 2504</p> <p>#2 (((smoking[Title]) OR cigarette[Title]) OR tobacco[Title]) 2258</p>

	<p>#3 (#1 OR #2) 3780</p> <p>#4 hstatcollect[filter]</p> <p>#5 #3 AND #4 1189</p> <p>Results: 1 to 20 of 27 books (1189 items)</p>
How the results were selected	Only selected documents if the title or abstract were directly relevant to the questions.
Results	<p>U.S. Department of Health and Human Services (2012) Preventing Tobacco Use Among Youth and Young Adults: A Report of the Surgeon General</p> <p>https://www.ncbi.nlm.nih.gov/books/NBK99237/</p> <p>U.S. Institute of Medicine (2015) Public Health Implications of Raising the Minimum Age of Legal Access to Tobacco Products</p> <p>https://www.ncbi.nlm.nih.gov/books/NBK310412/</p>

Search engine	
Name	NICE Evidence Search
URL	https://www.evidence.nhs.uk
Date searched	17/10/2018
Search terms	<p>(tobacco OR smoking OR cigarette) AND retail*</p> <p>1309 results</p> <p>(tobacco OR smoking OR cigarette) AND proxy*</p> <p>440 results</p> <p>(tobacco OR smoking OR cigarette) AND "proxy sales"</p> <p>7 results</p> <p>(tobacco OR smoking OR cigarette) AND underage*</p> <p>273 results</p> <p>(tobacco OR smoking OR cigarette) AND shop*</p> <p>2756 results</p>

	<p>(tobacco OR smoking OR cigarette) AND supermarket* 552 results</p> <p>(tobacco OR smoking OR cigarette) AND illicit* 1207 results</p> <p>(tobacco OR smoking OR cigarette) AND illegal* 1073 results</p> <p>(tobacco OR smoking OR cigarette) AND counterfeit* 116 results</p> <p>(tobacco OR smoking OR cigarette) AND smuggl* 284 results</p>
How the results were selected	<p>Only selected documents if the title or abstract were directly relevant to the questions. For each question, sorted by relevance and then reviewed all of the first 250 results then applied filters for 'guidance and policy' and 'practice based evidence' and reviewed 250 again, then removed filters and applied Area of Interest-Public Health and reviewed a further 250.</p>
Results	<p>NHS Health Scotland (2018) What is the causal link between tobacco outlet density and smoking prevalence http://www.healthscotland.scot/media/1831/what-is-the-causal-link-between-tobacco-outlet-density-and-smoking-prevalence.pdf</p> <p>Liverpool John Moores University Centre for Public Health (2009) Smoking behaviour in North West schoolchildren: a study of fifteen and sixteen year olds https://phi.ljmu.ac.uk/wp-content/uploads/2012/08/smoking-behaviour-in-north-west-school-children-a-study-of-fifteen-and-sixteen-year-olds.pdf</p> <p>US Food and Drug Administration (2018) This is our watch https://www.fda.gov/TobaccoProducts/GuidanceComplianceRegulatoryInformation/Retail/ucm237741.htm</p>

Search engine	
Name	Tobacco Control Database for the WHO European Region
URL	http://data.euro.who.int/tobacco
Date searched	15/10/2018
Search terms	The database just returned an error message so browsed http://www.euro.who.int/en/health-topics/disease-prevention/tobacco http://www.euro.who.int/en/health-topics/disease-prevention/tobacco/publications/a-z-list-of-all-publications2 http://apps.who.int/iris/browse
How the results were selected	Only selected documents if the title or abstract were directly relevant to the questions.
Results	World Health Organization (2013) Protocol to eliminate illicit trade in tobacco products http://apps.who.int/iris/bitstream/handle/10665/80873/9789241505246_eng.pdf

6.3.2 Website browsing

Website	
Name	Action on Smoking and Health (ASH)
URL	http://ash.org.uk/home
Date searched	12/10/2018
Search terms (including any specific sections browsed)	Browsed briefings, reports, fact sheets, information Illicit trade section Searched for proxy, proxies Also the Scotland page https://www.ashscotland.org.uk/what-we-do/campaign/policy-reports/
Results	ASH 2017 Illicit trade in tobacco Illicit tobacco reduces the public health impact of tobacco tax rises and increases demand for tobacco products. http://ash.org.uk/information-and-resources/fact-sheets/illicit-trade-in-tobacco/

	<p>ASH (2017) HM Revenue & Customs Consultation: Sanctions to tackle tobacco duty evasion and other excise duty evasion</p> <p>http://ash.org.uk/information-and-resources/reports-submissions/submissions/ash-response-hmrc-consultation-sanctions-tackle-tobacco-duty-evasion-excise-duty-evasion/</p> <p>ASH (2017) Implementing Regulation on Traceability System for Tobacco Products, Implementing Decision on Security Features, and Delegated Regulation on Data Storage Contracts</p> <p>http://ash.org.uk/information-and-resources/reports-submissions/submissions/ash-submission-eu-consultation-tracking-tracing-tobacco-products/</p> <p>ASH (2016) ASH response to HMRC Consultation on Tobacco Illicit Trade Protocol – licensing of equipment and the supply chain</p> <p>http://ash.org.uk/information-and-resources/tobacco-industry-information-and-resources/hmrc-consultation-on-tobacco-illicit-trade-protocol-ash-response/</p> <p>ASH 2016 Counter Arguments – How important is tobacco to small retailers?</p> <p>This report scrutinises the messages sent to small retailers by the tobacco industry and asks whether the traditional approach to selling tobacco in small shops is still in retailers' best interests, given the ongoing decline in the market and the recent changes to how tobacco is sold. Includes a link to the survey data.</p> <p>http://ash.org.uk/information-and-resources/reports-submissions/reports/counter-arguments-how-important-is-tobacco-to-small-retailers/</p> <p>ASH 2015 Illicit Tobacco: What is the tobacco industry trying to do?</p> <p>reports on the tobacco industry's conflicting positions on the illicit trade.</p> <p>http://ash.org.uk/information-and-resources/briefings/illicit-tobacco-what-is-the-tobacco-industry-trying-to-do/</p> <p>ASH 2015 Young people and smoking</p>
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	<p>Since the late 1990s smoking among 11-15 year olds has been steadily falling after two decades of little change. Children are more likely to smoke if their parents smoke and parental attitude to smoking is also an important factor.</p> <p>http://ash.org.uk/wp-content/uploads/2015/07/FS2YoungPeople1803FINAL.pdf</p> <p>ASH 2011 Briefing on Tobacco Vending Machines</p> <p>The sale of tobacco products from vending machines became illegal in England from 1 October 2011. This briefing explains the background to the law and why it was introduced.</p> <p>http://ash.org.uk/information-and-resources/briefings/ash-briefing-on-tobacco-vending-machines/</p> <p>ASH 2009 Cost Benefit Analysis of the FCTC Protocol on Illicit Trade in tobacco products.</p> <p>This report assesses the likely costs and benefits of implementing the Illicit Trade Protocol in the UK.</p> <p>http://ash.org.uk/information-and-resources/reports-submissions/reports/cost-benefit-analysis-of-the-fctc-protocol-on-illicit-trade-in-tobacco-products/</p> <p>The general ASH illicit tobacco page is here http://ash.org.uk/category/information-and-resources/taxation-illicit-trade/illicit-trade/</p> <p>See also the campaign https://notafavour.scot/</p> <p>ASH Scotland (2016) Dodgy cigs</p> <p>https://www.ashscotland.org.uk/media/547503/dodgy-cigs-report-final.pdf</p> <p>Society of Chief Officers of Trading Standards in Scotland (2008) Reducing Tobacco Sales to Young People. A collaborative working guide for organisations and agencies who wish to contribute to reducing sales of tobacco to under-eighteens</p> <p>https://www.ashscotland.org.uk/media/2861/Reducing%20tobacco%20sales%20collaborative%20guide.pdf</p>
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	<p>ASH Scotland Don't risk it – buying tobacco for under 18s https://www.ashscotland.org.uk/media/612800/north-ayrshire-case-study-proxy.pdf</p> <p>ASH Scotland, South Ayrshire Council Proxy purchase of tobacco awareness campaign https://www.ashscotland.org.uk/media/8129/South_Ayrshire_Tobacco_Campaign.pdf</p> <p>NHS Lothian (2015) Using a social action approach to investigate young people's access to tobacco via social sources http://www.intranet.education.ed.ac.uk/public/Young-People-Access-to-Tobacco-Project-Full-report.pdf</p>
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Website	
Name	British Independent Retailers Association (BIRA)
URL	https://bira.co.uk
Date searched	12/10/2018
Search terms (including any specific sections browsed)	Browsed knowledge hub Searched for tobacco, smoking, cigarettes, proxy, proxies, illicit
Results	BIRA - date unclear but it's reporting data from 2017 Increase in the number of independent openings subdued by a rise in closures across GB https://bira.co.uk/increase-independents-rise-closures-uk/

Website	
Name	Chartered Trading Standards Institute (CTSI)
URL	https://www.tradingstandards.uk
Date searched	12/10/2018
Search terms (including any specific)	Browsed news and policy-publications

<p>sections browsed)</p>	<p>Tobacco control page https://www.tradingstandards.uk/news-policy/tobacco-control</p>
<p>Results</p>	<p>Chartered Trading Standard Institute 2018 Tobacco control survey, England, 2017/18 – a report of council trading standards service activity.</p> <p>Chapter 8 p28 is called "Illicit tobacco products".</p> <p>https://www.tradingstandards.uk/media/documents/news--policy/tobacco-control/tobacco-report-2017-18-final-version.pdf</p> <p>note this is an annual survey and previous editions are available.</p> <p>Chartered Trading Standard Institute 2016 A coordinated operation to tackle the supply of illicit tobacco in England. Operation Henry 2 "OH2". Commissioned by the Department of Health Tobacco Policy Team & delivered by the Chartered Trading Standards Institute</p> <p>https://www.tradingstandards.uk/media/documents/policy/improving-the-health-of-society/oh2-final-version-august-15.compressed.pdf</p> <p>Chartered Trading Standard Institute 2015 Enhancing Local Tobacco Control: preventing under age sales of tobacco Commissioned by the Department of Health Tobacco Policy Team</p> <p>https://www.tradingstandards.uk/media/documents/policy/improving-the-health-of-society/enhancing_local_tobacco_control_uas_report_final-4.pdf</p> <p>Chartered Trading Standard Institute 2014 Operation Henry: tackling the supply of illicit tobacco products in England 2014 Commissioned by the Department of Health Tobacco Policy Team</p> <p>https://www.tradingstandards.uk/media/documents/policy/improving-the-health-of-society/oh_final_for_publication-1.pdf</p> <p>Chartered Trading Standard Institute 2014 Youth access to e-cigarettes and associated products</p> <p>This study explores the ease with which young people may currently purchase e cigarettes and similar products, July 2014. 574 visits were undertaken by trading standards services across England to a variety of retail premises. Working with young people</p>

	<p>under the age of 18 years each of whom attempted to purchase e cigarettes or similar products.</p> <p>https://www.tradingstandards.uk/news-policy/tobacco-control/youth-access-to-e-cigarettes-and-associated-products</p> <p>Trading Standards North West 2017 Young Persons' Alcohol, Tobacco and E -Cigarette Survey 2017</p> <p>See p41-2 for smoking and illicit tobacco.</p> <p>https://www.tradingstandards.uk/media/488451/9246_tsnw-young-persons-alcohol-tobacco-and-ecig-survey-2017_nw-report_.pdf</p>
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Website	
Name	Federation of Independent Retailers (NFRN)
URL	https://nfrnonline.com
Date searched	12/10/2018
Search terms (including any specific sections browsed)	<p>Searched for tobacco, smoking, cigarettes, proxy, proxies, illicit</p> <p>Browsed https://nfrnonline.com/tag/tobacco/</p>
Results	<p>Federation of Independent Retailers (9 August 2018) Serial tobacco cheats paying the price</p> <p>https://nfrnonline.com/news/serial-tobacco-cheats-paying-price/</p> <p>Federation of Independent Retailers (9 August 2018) New test purchasing exercise underway</p> <p>https://nfrnonline.com/information/test-purchasing-exercise-north-yorkshire/</p> <p>Not "evidence" for us but perhaps an example of the type of education retailers currently get.</p> <p>Federation of Independent Retailers (13 January 2017) NFRN and Imperial Tobacco team up to fight illicit tobacco</p> <p>https://nfrnonline.com/news/nfrn-imperial-tobacco-team-fight-illicit-tobacco/</p>

Website	
Name	HM Revenue & Customs

URL	https://www.gov.uk/government/organisations/hm-revenue-customs
Date searched	12/10/2018
Search terms (including any specific sections browsed)	<p>Browsed Tobacco Products Duty https://www.gov.uk/topic/business-tax/tobacco-products-duty</p> <p>Searched for tobacco, smoking, cigarettes, proxy, proxies, illicit here https://www.gov.uk/government/organisations/latest?organisations%5B%5D=hm-revenue-customs</p>
Results	<p>HM Revenue & Customs (2017) Sanctions to tackle tobacco duty evasion and other excise duty evasion https://www.gov.uk/government/consultations/sanctions-to-tackle-tobacco-duty-evasion-and-other-excise-duty-evasion</p> <p>HM Revenue & Customs and UK Border Agency (2015) Tackling illicit tobacco: From leaf to light: the HMRC and Border Force strategy to tackle tobacco smuggling. https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/418732/Tackling_illicit_tobacco_-_From_leaf_to_light__2015_.pdf</p> <p>HM Revenue & Customs and UK Border Agency (2011) Tackling tobacco smuggling: building on our success https://www.gov.uk/government/publications/tackling-tobacco-smuggling-building-on-our-success</p> <p>National Audit Office 2013 Progress in tackling tobacco smuggling https://www.nao.org.uk/wp-content/uploads/2013/06/10120-001-Tobacco-smuggling-Full-report.pdf</p> <p>House of Commons Home Affairs Committee (2014) Tobacco smuggling https://publications.parliament.uk/pa/cm201415/cmselect/cmhaff/200/20002.htm</p> <p>House of Commons Public Affairs Committee (2013) HM Revenue & Customs: progress in tackling tobacco smuggling https://publications.parliament.uk/pa/cm201314/cmselect/cmpublic/297/297.pdf</p>

Website	
Name	Illicit Tobacco Partnership
URL	https://www.illicit-tobacco.co.uk/problem/illicit-tobacco
Date searched	12/10/2018
Search terms (including any specific sections browsed)	Browsed resources, news
Results	<p>Keep It Out</p> <p>Example of a website https://keep-it-out.co.uk/</p> <p>Includes a section for retailers https://keep-it-out.co.uk/for-retailers/</p> <p>Department of Health, Chartered Trading Standards Institute (2015) Guidance on the display and pricing of tobacco products in England, for tobacco retailers and enforcement officers</p> <p>https://www.businesscompanion.info/sites/default/files/Tobacco-and-nicotine-inhaling-products-E-DH-GUIDANCE-APR15.pdf</p> <p>Business Companion 2018 Tobacco & nicotine inhaling products – in depth guide</p> <p>https://www.businesscompanion.info/en/quick-guides/underage-sales/tobacco-and-nicotine-inhaling-products</p> <p>Business Companion 2018 Underage sales – quick guide</p> <p>https://www.businesscompanion.info/en/quick-guides/underage-sales</p> <p>Illicit Tobacco Partnership 2017 Illegal tobacco PR guide</p> <p>https://www.illicit-tobacco.co.uk/wp-content/uploads/2017/12/Illegal-Tobacco-PR-Guide-Dec-2017.pdf</p> <p>Illicit Tobacco Partnership 2016 Illicit Tobacco Programme Strategic Framework</p>

	<p>https://www.illicit-tobacco.co.uk/wp-content/uploads/2017/07/Illicit-Tobacco-Programme-Strategic-Framework.pdf</p> <p>Retail of Alcohol Standards Group (2018) Preventing proxy sales of alcohol</p> <p>https://www.acs.org.uk/sites/default/files/rasg_proxy_purchase_guidance_updated_2018.pdf</p> <p>Association of Convenience Stores 2018 Preventing underage sales</p> <p>https://www.acs.org.uk/sites/default/files/acs_advice_age_restricted_sales_aw6_d3_14.03.18_web_lr.pdf</p> <p>Illicit Trade All Party Parliamentary Group (2018) Illicit trade in the UK</p> <p>https://connectpa.co.uk/wp-content/uploads/2018/07/Illicit-Trade-APPG-report-2018LRi.pdf</p>
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Website	
Name	Local Government Association
URL	https://www.local.gov.uk
Date searched	12/10/2018
Search terms (including any specific sections browsed)	<p>Social care, health and integration https://www.local.gov.uk/publications?topic[2495]=2495</p> <p>Case studies https://www.local.gov.uk/case-studies</p> <p>Searched for tobacco, smoking, cigarettes, proxy, proxies, illicit</p>
Results	None on this topic

Website	
Name	National Centre for Smoking Cessation and Training
URL	http://www.ncsct.co.uk
Date searched	15/10/2018
Search terms (including any specific)	Browsed sections on research briefings, clinical tools, research resources

sections browsed)	Searched for retail, proxy, proxies, illicit
Results	National Centre for Smoking Cessation and Training (2018) Working with vape shops: a guide for commissioners and stop smoking services http://www.ncsct.co.uk/publication_working_with_vape_shops.php

Website	
Name	National Trading Standards
URL	http://www.nationaltradingstandards.uk
Date searched	15/10/2018
Search terms (including any specific sections browsed)	Browsed Work Areas, Documents Searched for tobacco, smoking, cigarettes, proxy, proxies, illicit
Results	None (did not include any news items)

Website	
Name	Northern Ireland Assembly
URL	http://www.niassembly.gov.uk/
Date searched	19/10/2018
Search terms (including any specific sections browsed)	Browsed Research and Information Service, research publications and Committee for Health, Social Services and Public Safety. Searched for tobacco, smoking, cigarettes
Results	Northern Ireland Assembly (2013) Report on the Tobacco Retailers Bill (NIA Bill 19/11-15) http://www.niassembly.gov.uk/globalassets/documents/reports/health/nia-137-11-15-report-on-tobacco-retailers-bill.pdf

Website	
Name	Public Health England
URL	https://www.gov.uk/government/organisations/public-health-england
Date searched	15/10/2018

Search terms (including any specific sections browsed)	<p>Searched for tobacco, smoking, cigarettes, proxy, proxies, illicit</p> <p>https://www.gov.uk/government/organisations/latest?organisations%5B%5D=public-health-england</p> <p>Searched announcements for tobacco, smoking, cigarettes, proxy, proxies, illicit</p> <p>https://www.gov.uk/government/announcements?departments%5B%5D=public-health-england</p>
Results	None directly relevant to these questions

Website	
Name	Royal College of Paediatrics and Child Health
URL	https://www.rcpch.ac.uk/
Date searched	19/10/2018
Search terms (including any specific sections browsed)	<p>Searched for tobacco, smoking, cigarettes</p> <p>Browsed resources and key topics.</p> <p>Browsed https://www.rcpch.ac.uk/resources/subject-archives-guide-smoking</p> <p>https://www.rcpch.ac.uk/topic/smoking-tobacco</p>
Results	None

Website	
Name	Royal College of Physicians
URL	https://www.rcplondon.ac.uk
Date searched	15/10/2018
Search terms (including any specific sections browsed)	<p>Searched for tobacco, smoking, cigarettes, proxy, proxies, illicit, retail</p> <p>Browsed the public health section</p> <p>https://www.rcplondon.ac.uk/projects/rcp-policy-public-health</p> <p>And also the tags smoking and tobacco</p> <p>https://www.rcplondon.ac.uk/search/topic/smoking-and-tobacco</p>
Results	None directly relevant to these questions

Website

Name	Scottish Government
URL	https://www.gov.scot
Date searched	15/10/2018
Search terms (including any specific sections browsed)	<p>Searched for tobacco, smoking, cigarettes, proxy, proxies, illicit, retail in publications</p> <p>https://beta.gov.scot/publications</p> <p>Browsed the smoking page</p> <p>https://www.gov.scot/Topics/Health/Services/Smoking</p> <p>Also used</p> <p>https://www.scotpho.org.uk/behaviour/tobacco-use/key-points/</p>
Results	<p>Scottish Government (2017) Selling tobacco and/or nicotine vapour products age verification. guidance on age verification policies for retailers</p> <p>https://beta.gov.scot/publications/age-verification-guidance/</p> <p>Scottish Government (2011?) The new laws on the sale and purchase of tobacco. Retailer regulations.</p> <p>https://www.tobaccoregisterscotland.org/media/1017/sg-1652-retailers-dm-brochure.pdf</p> <p>Scottish Government (2018) Raising Scotland's tobacco-free generation: our tobacco control action plan 2018</p> <p>https://beta.gov.scot/publications/raising-scotlands-tobacco-free-generation-tobacco-control-action-plan-2018/</p> <p>Also led to finding</p> <p>Cancer Research UK (2017) Evaluating the Scottish tobacco retail register</p> <p>https://www.cancerresearchuk.org/sites/default/files/cruk_tobacco_register_final.pdf</p> <p>Grahame, Christine (2007) Smoking and the bandits: tackling rogue traders and under-age tobacco sales. Proposed Tobacco Sales Licensing (Scotland) Bill A Consultation</p>

	<p>http://www.parliament.scot/S3_MembersBills/Draft%20proposals/TobaccoSalesConsultation.pdf</p> <p>Northern Ireland Assembly, Research and Information Service (2013) Tobacco Retailers Bill</p> <p>http://www.niassembly.gov.uk/globalassets/Documents/RaISe/Publications/2013/health/6813.pdf</p>
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Website	
Name	Smokefree NHS
URL	https://www.nhs.uk/smokefree
Date searched	15/10/2018
Search terms (including any specific sections browsed)	Browsed the resources section Searched for proxy, proxies, illicit, retail
Results	None

Website	
Name	Smoking Toolkit Study
URL	http://www.smokinginengland.info
Date searched	15/10/2018
Search terms (including any specific sections browsed)	Browsed reports, key publications, STS documents
Results	None for these questions

Website	
Name	Treat Tobacco
URL	http://www.treatobacco.net/en/index.php
Date searched	15/10/2018
Search terms (including any specific sections browsed)	Browed key findings and resource library

sections browsed)	
Results	None for these questions

Website	
Name	UK Centre for Tobacco and Alcohol Studies
URL	http://ukctas.net/index.html
Date searched	15/10/2018
Search terms (including any specific sections browsed)	Browsed What we do – policy, research, dissemination. Searched for proxy, proxies, illicit, retail
Results	None for these questions

Website	
Name	University of Bath Tobacco Control Research Group
URL	https://researchportal.bath.ac.uk/en/organisations/uk-centre-for-tobacco-control-studies
Date searched	15/10/2018
Search terms (including any specific sections browsed)	Browsed research outputs
Results	None for these questions

Website	
Name	University of Stirling Centre for Tobacco Control Research
URL	https://www.stir.ac.uk/about/faculties-and-services/health-sciences-sport/research/research-groups/centre-for-tobacco-control-research/publications
Date searched	15/10/2018
Search terms (including any specific sections browsed)	Browsed publications and projects

Results	None for these questions
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Website	
Name	Welsh Government
URL	https://gov.wales/?lang=en
Date searched	19/10/2018
Search terms (including any specific sections browsed)	Searched for tobacco, smoking, cigarettes Browsed Health and Social Services topic
Results	<p>Welsh Government (2017) Tobacco control delivery plan for Wales 2017-2020</p> <p>https://beta.gov.wales/sites/default/files/publications/2017-11/tobacco-control-delivery-plan-for-wales-2017-to-2020.pdf</p> <p>Welsh Government (2015) Public Health (Wales) Bill. Explanatory memorandum incorporating the regulatory impact assessment and explanatory notes</p> <p>http://www.assembly.wales/laid%20documents/pri-ld10224-em/pri-ld10224-em-e.pdf</p> <p>Public Health (Wales) Act 2017 is here – chapter 2 is about the retailers register.</p>

7 Database strategies – Top up 1 primary school age

7.1.1 Database name: Applied Social Science Index and Abstracts (ASSIA)

No top up search run because the original main strategy did not use the lines for the age ranges.

7.1.2 Database name: Cochrane Central Register of Controlled Trials (CENTRAL)

ID	SearchHits
#1	MeSH descriptor: [Tobacco Use] explode all trees 217
#2	MeSH descriptor: [Tobacco] this term only 159
#3	MeSH descriptor: [Tobacco Use Disorder] this term only 1455
#4	MeSH descriptor: [Tobacco Use Cessation] this term only 94
#5	MeSH descriptor: [Tobacco Use Cessation Products] this term only 419
#6	MeSH descriptor: [Smoking] this term only 5580
#7	MeSH descriptor: [Pipe Smoking] explode all trees 1
#8	MeSH descriptor: [Smoking Reduction] this term only 6
#9	MeSH descriptor: [Smoking Cessation] this term only 3699
#10	MeSH descriptor: [Smokers] this term only 65
#11	MeSH descriptor: [Smoking Devices] explode all trees 328
#12	MeSH descriptor: [Smoking Prevention] this term only 1536
#13	(smoking* or smoker* or antismok* or anti smok* or anti-smok*):ti,ab 23150
#14	(tobacco* or cigar* or cigs):ti,ab 9042
#15	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies):ti,ab 98
#16	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas):ti,ab 135
#17	{or #1-#16} 26103
#18	MeSH descriptor: [Small Business] this term only 6
#19	MeSH descriptor: [Commerce] this term only 161
#20	(retail* or newsagent* or shopkeeper* or shop keeper* or vendor* or supermarket* or store keeper* or storekeeper* or merchant* or tobacconist* or shop or shops or shopping or shopped or store or stores or "off licence*" or "off license*" or

- offlicence* or officense* or business* or commerce* or commercial* or trading* or trade or trades or trader* or "sales assistant*" or shopworker* or seller* or "super market*"):ti,ab 16817
- #21 {or #18-#20} 16890
- #22 (("five" or "six" or "seven" or "eight" or "nine" or "ten" or "eleven") near/2 (year or years or age or ages or aged)):ti,ab 13425
- #23 (("5" or "6" or "7" or "8" or "9" or "10" or "11") near/2 (year or years or age or ages or aged)):ti,ab 105678
- #24 {or #22-#23} 113902
- #25 #17 and #21 and #24 52
- #26 MeSH descriptor: [Law Enforcement] this term only 42
- #27 MeSH descriptor: [Crime] this term only 225
- #28 MeSH descriptor: [Criminal Behavior] this term only 1
- #29 MeSH descriptor: [Fraud] this term only 8
- #30 ((illicit* or illegal* or counterfeit* or fake* or black market* or unbrand* or disguise* or disguising or prohibit* or smuggl* or bootleg* or contraband* or untax* or unlawful* or crime* or criminal* or law enforcement* or legal* or genuine* or lawful* or branded or "trade mark*" or taxed or fraud*) near/3 (tobacco* or cigar* or cigs or smoking* or smoker* or antismok* or anti smok* or anti-smok* or bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies or waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas)):ti,ab 308
- #31 ((tax* or taxes or taxation* or duty or duties or customs or excise*) near/3 (avoid* or evad* or evasion* or unpaid* or paid* or pay*)):ti,ab 23
- #32 {or #26-#31} 597
- #33 #17 and #32 and #24 28
- #34 #25 or #33 74
- #35 "clinicaltrials.gov":so 128557
- #36 #34 not #35 64
- #37 "conference":pt 126410
- #38 #36 not #37 47
- #39 #36 not #37 with Publication Year from 1998 to 2018, in Trials 41

7.1.3 Database name: Cochrane Database of Systematic Reviews (CDSR)

ID	SearchHits	
#1	MeSH descriptor: [Tobacco Use] explode all trees	217
#2	MeSH descriptor: [Tobacco] this term only	159
#3	MeSH descriptor: [Tobacco Use Disorder] this term only	1455
#4	MeSH descriptor: [Tobacco Use Cessation] this term only	94
#5	MeSH descriptor: [Tobacco Use Cessation Products] this term only	419
#6	MeSH descriptor: [Smoking] this term only	5580
#7	MeSH descriptor: [Pipe Smoking] explode all trees	1
#8	MeSH descriptor: [Smoking Reduction] this term only	6
#9	MeSH descriptor: [Smoking Cessation] this term only	3699
#10	MeSH descriptor: [Smokers] this term only	65
#11	MeSH descriptor: [Smoking Devices] explode all trees	328
#12	MeSH descriptor: [Smoking Prevention] this term only	1536
#13	(smoking* or smoker* or antismok* or anti smok* or anti-smok*):ti,ab	23150
#14	(tobacco* or cigar* or cigs):ti,ab	9042
#15	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies):ti,ab	98
#16	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas):ti,ab	135
#17	{or #1-#16}	26103
#18	MeSH descriptor: [Small Business] this term only	6
#19	MeSH descriptor: [Commerce] this term only	161
#20	(retail* or newsagent* or shopkeeper* or shop keeper* or vendor* or supermarket* or store keeper* or storekeeper* or merchant* or tobacconist* or shop or shops or shopping or shopped or store or stores or "off licence*" or "off license*" or offlicence* or offlicense* or business* or commerce* or commercial* or trading* or trade or trades or trader* or "sales assistant*" or shopworker* or seller* or "super market*"):ti,ab	16817
#21	{or #18-#20}	16890
#22	((("five" or "six" or "seven" or "eight" or "nine" or "ten" or "eleven") near/2 (year or years or age or ages or aged)):ti,ab	13425
#23	((("5" or "6" or "7" or "8" or "9" or "10" or "11") near/2 (year or years or age or ages or aged)):ti,ab	105678
#24	{or #22-#23}	113902

- #25 #17 and #21 and #24 52
- #26 MeSH descriptor: [Law Enforcement] this term only 42
- #27 MeSH descriptor: [Crime] this term only 225
- #28 MeSH descriptor: [Criminal Behavior] this term only 1
- #29 MeSH descriptor: [Fraud] this term only 8
- #30 ((illicit* or illegal* or counterfeit* or fake* or black market* or unbrand* or disguise* or disguising or prohibit* or smuggl* or bootleg* or contraband* or untax* or unlawful* or crime* or criminal* or law enforcement* or legal* or genuine* or lawful* or branded or "trade mark*" or taxed or fraud*) near/3 (tobacco* or cigar* or cigs or smoking* or smoker* or antismok* or anti smok* or anti-smok* or bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies or waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas)):ti,ab 308
- #31 ((tax* or taxes or taxation* or duty or duties or customs or excise*) near/3 (avoid* or evad* or evasion* or unpaid* or paid* or pay*)):ti,ab 23
- #32 {or #26-#31} 597
- #33 #17 and #32 and #24 28
- #34 #25 or #33 74
- #35 "clinicaltrials.gov":so 128557
- #36 #34 not #35 64
- #37 "conference":pt 126410
- #38 #36 not #37 47
- #39 #36 not #37 with Cochrane Library publication date Between Jan 1998 and Dec 2018, in Cochrane Reviews, Cochrane Protocols 2

7.1.4 Database name: EconLit

Database(s): Econlit 1886 to December 06, 2018

Search Strategy:

#	Searches	Results
1	(smoking* or smoker* or antismok* or anti smok* or anti-smok*).ti,ab.	1978
2	(tobacco* or cigar* or cigs).ti,ab.	2429
3	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).ti,ab.	26
4	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).ti,ab.	18
5	or/1-4	3552
6	(retail* or newsagent* or shopkeeper* or shop keeper* or vendor* or supermarket* or store keeper* or storekeeper* or merchant* or tobacconist* or shop or shops or shopping or shopped or store or stores or "off licence*" or "off license*" or officence* or offlicense* or business* or commerce* or commercial* or trading* or trade or trades or trader* or "sales assistant*" or shopworker* or seller* or "super market*").ti,ab.	222739
7	((("five" or "six" or "seven" or "eight" or "nine" or "ten" or "eleven") adj2 (year or years or age or ages or aged)).ti,ab.	10223
8	((("5" or "6" or "7" or "8" or "9" or "10" or "11") adj2 (year or years or age or ages or aged)).ti,ab.	6263
9	or/7-8	16213
10	5 and 6 and 9	13
11	((illicit* or illegal* or counterfeit* or fake* or black market* or unbrand* or disguise* or disguising or prohibit* or smuggl* or bootleg* or contraband* or untax* or unlawful* or crime* or criminal* or law enforcement* or legal* or genuine* or lawful* or branded or "trade mark*" or taxed or fraud*) adj3 (tobacco* or cigar* or cigs or smoking* or smoker* or antismok* or anti smok* or anti-smok* or bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies or waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas)).ti,ab.	96
12	((tax* or taxes or taxation* or duty or duties or customs or excise*) adj3 (avoid* or evad* or evasion* or unpaid* or paid* or pay*)).ti,ab.	5384
13	or/11-12	5472
14	5 and 13 and 9	0
15	10 or 14	13
16	limit 15 to english language [Limit not valid; records were retained]	13

17 limit 16 to yr="1998 -Current"

12

7.1.5 Database name: Embase

Database(s): Embase 1974 to 2018 December 13

Search Strategy:

#	Searches	Results
1	"tobacco use"/	7754
2	tobacco consumption/	1954
3	tobacco/	42000
4	tobacco dependence/	18698
5	"smoking and smoking related phenomena"/	180
6	smoking/	275459
7	smoking habit/	21010
8	cigar smoking/	92
9	cigarette smoking/	51475
10	bidi smoking/	118
11	exp pipe smoking/	146
12	exp parental smoking/	6993
13	adolescent smoking/	1646
14	smoking reduction/	81
15	smoking prevention/	326
16	smoking cessation/	53446
17	smoking cessation program/	2991
18	exp smoking device/	5049
19	(smoking* or smoker* or antismok* or anti smok* or anti-smok*).ti,ab.	330655
20	(tobacco* or cigar* or cigs).ti,ab.	166514
21	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).ti,ab.	805
22	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).ti,ab.	2265
23	or/1-22	502886
24	commercial phenomena/	40960

25	(retail* or newsagent* or shopkeeper* or shop keeper* or vendor* or supermarket* or store keeper* or storekeeper* or merchant* or tobacconist* or shop or shops or shopping or shopped or store or stores or "off licence*" or "off license*" or offlicence* or offlicense* or business* or commerce* or commercial* or trading* or trade or trades or trader* or "sales assistant*" or shopworker* or seller* or "super market*").ti,ab.	628020
26	or/24-25	646507
27	((("five" or "six" or "seven" or "eight" or "nine" or "ten" or "eleven") adj2 (year or years or age or ages or aged)).ti,ab.	267949
28	((("5" or "6" or "7" or "8" or "9" or "10" or "11") adj2 (year or years or age or ages or aged)).ti,ab.	1101947
29	or/27-28	1305307
30	23 and 26 and 29	803
31	law enforcement/	9615
32	crime/	19419
33	Criminal behavior/	7891
34	fraud/	1919
35	((illicit* or illegal* or counterfeit* or fake* or black market* or unbrand* or disguise* or disguising or prohibit* or smuggl* or bootleg* or contraband* or untax* or unlawful* or crime* or criminal* or law enforcement* or legal* or genuine* or lawful* or branded or "trade mark*" or taxed or fraud*) adj3 (tobacco* or cigar* or cigs or smoking* or smoker* or antismok* or anti smok* or anti-smok* or bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies or waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas)).ti,ab.	2934
36	((tax* or taxes or taxation* or duty or duties or customs or excise*) adj3 (avoid* or evad* or evasion* or unpaid* or paid* or pay*)).ti,ab.	1067
37	or/31-36	40905
38	23 and 29 and 37	315
39	30 or 38	1084
40	nonhuman/ not (human/ and nonhuman/)	4283235
41	39 not 40	1079
42	(letter or editorial).pt.	1643557
43	41 not 42	1078

44 (conference abstract or conference paper or conference proceeding or "conference review").pt.	3995697
45 43 not 44	791
46 limit 45 to medline	200
47 45 not 46	591
48 limit 47 to english language	562
49 limit 48 to yr="1998 -Current"	511

7.1.6 Database name: Health Management Information Consortium (HMIC)

Database(s): HMIC Health Management Information Consortium 1979 to September 2018

Search Strategy:

#	Searches	Results
1	(smoking* or smoker* or antismok* or anti smok* or anti-smok*).ti,ab.	7519
2	(smoking* or smoker* or antismok* or anti smok* or anti-smok*).sh.	5310
3	(tobacco* or cigar* or cigs).ti,ab.	3431
4	(tobacco* or cigar* or cigs).sh.	1434
5	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).ti,ab.	12
6	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).sh.	1
7	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).ti,ab.	13
8	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).sh.	0
9	or/1-8	9402
10	(retail* or newsagent* or shopkeeper* or shop keeper* or vendor* or supermarket* or store keeper* or storekeeper* or merchant* or tobacconist* or shop or shops or shopping or shopped or store or stores or retail* or "off licence*" or "off license*" or offlicence* or offlicense* or business* or commerce* or commercial* or trading* or trade or trades or trader* or "sales assistant*" or shopworker* or seller* or "super market*").ti,ab.	8614
11	(retail* or newsagent* or shopkeeper* or shop keeper* or vendor* or supermarket* or store keeper* or storekeeper* or merchant* or tobacconist* or shop or shops or shopping or shopped or store or stores or retail* or "off licence*" or "off license*" or offlicence* or offlicense* or business* or commerce* or commercial* or trading* or trade or trades or trader* or "sales assistant*" or shopworker* or seller* or "super market*").sh.	1199
12	or/10-11	9141
13	((("five" or "six" or "seven" or "eight" or "nine" or "ten" or "eleven") adj2 (year or years or age or ages or aged)).ti,ab.	7282
14	("five" or "six" or "seven" or "eight" or "nine" or "ten" or "eleven").sh.	0
15	((("5" or "6" or "7" or "8" or "9" or "10" or "11") adj2 (year or years or age or ages or aged)).ti,ab.	4207

16 ("5" or "6" or "7" or "8" or "9" or "10" or "11").sh.	0
17 or/13-16	10653
18 9 and 12 and 17	21
19 adj3 ((illicit* or illegal* or counterfeit* or fake* or black market* or unbrand* or disguise* or disguising or prohibit* or smuggl* or bootleg* or contraband* or untax* or unlawful* or crime* or criminal* or law enforcement* or legal* or genuine* or lawful* or branded or "trade mark*" or taxed or fraud*)) (tobacco* or cigar* or cigs or smoking* or smoker* or antismok* or anti smok* or anti-smok* or bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies or waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas)).ti,ab.	150
20 ((illicit* or illegal* or counterfeit* or fake* or black market* or unbrand* or disguise* or disguising or prohibit* or smuggl* or bootleg* or contraband* or untax* or unlawful* or crime* or criminal* or law enforcement* or legal* or genuine* or lawful* or branded or "trade mark*" or taxed or fraud*).sh.	3387
21 ((tax* or taxes or taxation* or duty or duties or customs or excise*) adj3 (avoid* or evad* or evasion* or unpaid* or paid* or pay*)).ti,ab.	179
22 (tax* or taxes or taxation* or duty or duties or customs or excise*).sh.	1600
23 or/19-22	5248
24 9 and 23 and 17	20
25 18 or 24	37
26 limit 25 to yr="1998 -Current"	29

7.1.7 Database name: MEDLINE

Database(s): Ovid MEDLINE(R) 1946 to December 13, 2018

Search Strategy:

#	Searches	Results
1	exp "tobacco use"/	2060
2	tobacco/	29029
3	"tobacco use disorder"/	10490
4	"tobacco use cessation"/	1039
5	"tobacco use cessation products"/	1512
6	smoking/	134225
7	exp Pipe smoking/	71
8	smoking reduction/	15
9	"smoking cessation"/	26188
10	Smokers/	542
11	exp Smoking Devices/	7986
12	smoking prevention/	17465
13	(smoking* or smoker* or antismok* or anti smok* or anti-smok*).ti,ab.	203756
14	(tobacco* or cigar* or cigs).ti,ab.	123176
15	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).ti,ab.	478
16	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).ti,ab.	1431
17	or/1-16	301814
18	small business/	235
19	commerce/	22921
20	(retail* or newsagent* or shopkeeper* or shop keeper* or vendor* or supermarket* or store keeper* or storekeeper* or merchant* or tobacconist* or shop or shops or shopping or shopped or store or stores or "off licence*" or "off license*" or offlicence* or offlicense* or business* or commerce* or commercial* or trading* or trade or trades or trader* or "sales assistant*" or shopworker* or seller* or "super market*").ti,ab.	307789
21	or/18-20	321178

22	((("five" or "six" or "seven" or "eight" or "nine" or "ten" or "eleven") adj2 (year or years or age or ages or aged)).ti,ab.	174937
23	((("5" or "6" or "7" or "8" or "9" or "10" or "11") adj2 (year or years or age or ages or aged)).ti,ab.	659755
24	or/22-23	796637
25	17 and 21 and 24	331
26	Law enforcement/	3337
27	Crime/	14809
28	Criminal behavior/	198
29	Fraud/	7018
30	((illicit* or illegal* or counterfeit* or fake* or black market* or unbrand* or disguise* or disguising or prohibit* or smuggl* or bootleg* or contraband* or untax* or unlawful* or crime* or criminal* or law enforcement* or legal* or genuine* or lawful* or branded or "trade mark*" or taxed or fraud*) adj3 (tobacco* or cigar* or cigs or smoking* or smoker* or antismok* or anti smok* or anti-smok* or bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies or waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas)).ti,ab.	2020
31	((tax* or taxes or taxation* or duty or duties or customs or excise*) adj3 (avoid* or evad* or evasion* or unpaid* or paid* or pay*)).ti,ab.	816
32	or/26-31	26815
33	17 and 32 and 24	178
34	25 or 33	482
35	Animals/ not (Animals/ and Humans/)	4492299
36	34 not 35	481
37	limit 36 to (letter or historical article or comment or editorial or news or case reports)	10
38	36 not 37	471
39	limit 38 to english language	429
40	limit 39 to yr="1998 -Current"	359

7.1.8 Database name: MEDLINE-in-Process (including Epub Ahead-of-Print)

Database(s): Ovid MEDLINE(R) Epub Ahead of Print December 13, 2018, Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations December 13, 2018

Search Strategy:

#	Searches	Results
1	(smoking* or smoker* or antismok* or anti smok* or anti-smok*).ti,ab.	24697
2	(tobacco* or cigar* or cigs).ti,ab.	16537
3	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).ti,ab.	92
4	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).ti,ab.	475
5	or/1-4	33908
6	(retail* or newsagent* or shopkeeper* or shop keeper* or vendor* or supermarket* or store keeper* or storekeeper* or merchant* or tobacconist* or shop or shops or shopping or shopped or store or stores or "off licence*" or "off license*" or officence* or offlicense* or business* or commerce* or commercial* or trading* or trade or trades or trader* or "sales assistant*" or shopworker* or seller* or "super market*").ti,ab.	60791
7	((("five" or "six" or "seven" or "eight" or "nine" or "ten" or "eleven") adj2 (year or years or age or ages or aged)).ti,ab.	21580
8	((("5" or "6" or "7" or "8" or "9" or "10" or "11") adj2 (year or years or age or ages or aged)).ti,ab.	80895
9	or/7-8	98321
10	5 and 6 and 9	44
11	((illicit* or illegal* or counterfeit* or fake* or black market* or unbrand* or disguise* or disguising or prohibit* or smuggl* or bootleg* or contraband* or untax* or unlawful* or crime* or criminal* or law enforcement* or legal* or genuine* or lawful* or branded or "trade mark*" or taxed or fraud*) adj3 (tobacco* or cigar* or cigs or smoking* or smoker* or antismok* or anti smok* or anti-smok* or bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies or waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas)).ti,ab.	293
12	((tax* or taxes or taxation* or duty or duties or customs or excise*) adj3 (avoid* or evad* or evasion* or unpaid* or paid* or pay*)).ti,ab.	153
13	or/11-12	440
14	5 and 13 and 9	23
15	10 or 14	66

16 limit 15 to english language	62
17 limit 16 to yr="1998 -Current"	60

7.1.9 Database name: PsycINFO

Database(s): PsycINFO 1806 to December Week 2 2018

Search Strategy:

#	Searches	Results
1	tobacco smoking/	29206
2	smoking cessation/	12230
3	(smoking* or smoker* or antismok* or anti smok* or anti-smok*).ti,ab.	47707
4	(tobacco* or cigar* or cigs).ti,ab.	33224
5	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).ti,ab.	83
6	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).ti,ab.	537
7	or/1-6	59511
8	retailing/	3626
9	shopping/	1715
10	shopping centers/	282
11	commerce/	1884
12	family business/	383
13	small businesses/	1260
14	(retail* or newsagent* or shopkeeper* or shop keeper* or vendor* or supermarket* or store keeper* or storekeeper* or merchant* or tobacconist* or shop or shops or shopping or shopped or store or stores or "off licence*" or "off license*" or offlicence* or offlicense* or business* or commerce* or commercial* or trading* or trade or trades or trader* or "sales assistant*" or shopworker* or seller* or "super market*").ti,ab.	107633
15	or/8-14	109235
16	exp elementary school students/	42197
17	((("five" or "six" or "seven" or "eight" or "nine" or "ten" or "eleven") adj2 (year or years or age or ages or aged)).ti,ab.	38411
18	((("5" or "6" or "7" or "8" or "9" or "10" or "11") adj2 (year or years or age or ages or aged)).ti,ab.	150950
19	or/16-18	221427
20	7 and 15 and 19	76

21 law enforcement/	3808
22 crime/	14466
23 fraud/	801
24 criminals/	12715
25 criminal behavior/	8646
26 adj3 ((illicit* or illegal* or counterfeit* or fake* or black market* or unbrand* or disguise* or disguising or prohibit* or smuggl* or bootleg* or contraband* or untax* or unlawful* or crime* or criminal* or law enforcement* or legal* or genuine* or lawful* or branded or "trade mark*" or taxed or fraud*)) (tobacco* or cigar* or cigs or smoking* or smoker* or antismok* or anti smok* or anti-smok* or bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies or waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas)).ti,ab.	1231
27 ((tax* or taxes or taxation* or duty or duties or customs or excise*) adj3 (avoid* or evad* or evasion* or unpaid* or paid* or pay*)).ti,ab.	654
28 or/21-27	35781
29 7 and 19 and 28	103
30 20 or 29	172
31 limit 30 to ("column/opinion" or editorial or letter)	5
32 30 not 31	167
33 limit 32 to animal	0
34 32 not 33	167
35 limit 34 to english language	158
36 limit 35 to yr="1998 -Current"	143

7.1.10 Database name: Social Policy and Practice (SPP)

Database(s): Social Policy and Practice 201810

Search Strategy:

#	Searches	Results
1	(smoking* or smoker* or antismok* or anti smok* or anti-smok*).ti,ab.	1382
2	(smoking* or smoker* or antismok* or anti smok* or anti-smok*).sh.	864
3	(tobacco* or cigar* or cigs).ti,ab.	608
4	(tobacco* or cigar* or cigs).sh.	221
5	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).ti,ab.	0
6	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).sh.	0
7	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).ti,ab.	5
8	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).sh.	4
9	or/1-8	1909
10	(retail* or newsagent* or shopkeeper* or shop keeper* or vendor* or supermarket* or store keeper* or storekeeper* or merchant* or tobacconist* or shop or shops or shopping or shopped or store or stores or retail* or "off licence*" or "off license*" or offlicence* or offlicense* or business* or commerce* or commercial* or trading* or trade or trades or trader* or "sales assistant*" or shopworker* or seller* or "super market*").ti,ab.	11673
11	(retail* or newsagent* or shopkeeper* or shop keeper* or vendor* or supermarket* or store keeper* or storekeeper* or merchant* or tobacconist* or shop or shops or shopping or shopped or store or stores or retail* or "off licence*" or "off license*" or offlicence* or offlicense* or business* or commerce* or commercial* or trading* or trade or trades or trader* or "sales assistant*" or shopworker* or seller* or "super market*").sh.	4366
12	or/10-11	13102
13	((("five" or "six" or "seven" or "eight" or "nine" or "ten" or "eleven") adj2 (year or years or age or ages or aged)).ti,ab.	4399
14	("five" or "six" or "seven" or "eight" or "nine" or "ten" or "eleven").sh.	1
15	((("5" or "6" or "7" or "8" or "9" or "10" or "11") adj2 (year or years or age or ages or aged)).ti,ab.	6107
16	("5" or "6" or "7" or "8" or "9" or "10" or "11").sh.	0

17 or/13-16	10205
18 9 and 12 and 17	3
19 adj3 ((illicit* or illegal* or counterfeit* or fake* or black market* or unbrand* or disguise* or disguising or prohibit* or smuggl* or bootleg* or contraband* or untax* or unlawful* or crime* or criminal* or law enforcement* or legal* or genuine* or lawful* or branded or "trade mark*" or taxed or fraud*)) (tobacco* or cigar* or cigs or smoking* or smoker* or antismok* or anti smok* or anti-smok* or bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies or waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas)).ti,ab.	56
20 ((illicit* or illegal* or counterfeit* or fake* or black market* or unbrand* or disguise* or disguising or prohibit* or smuggl* or bootleg* or contraband* or untax* or unlawful* or crime* or criminal* or law enforcement* or legal* or genuine* or lawful* or branded or "trade mark*" or taxed or fraud*).sh.	13655
21 ((tax* or taxes or taxation* or duty or duties or customs or excise*) adj3 (avoid* or evad* or evasion* or unpaid* or paid* or pay*)).ti,ab.	227
22 (tax* or taxes or taxation* or duty or duties or customs or excise*).sh.	2012
23 or/19-22	15783
24 9 and 23 and 17	13
25 18 or 24	16
26 limit 25 to yr="1998 -Current"	13

8 Database strategies – Top up 2 online sales

8.1.1 Database name: Applied Social Science Index and Abstracts (ASSIA)

Set #	Searched for	Results
S1	MAINSUBJECT.EXACT("Smoking") OR MAINSUBJECT.EXACT("Moderate smoking") OR MAINSUBJECT.EXACT("Heavy smoking") OR MAINSUBJECT.EXACT("Occasional smoking") OR MAINSUBJECT.EXACT("Tobacco products") OR MAINSUBJECT.EXACT("Tobacco") OR MAINSUBJECT.EXACT("Cigars") OR MAINSUBJECT.EXACT("Cigarettes")	13235
S2	TI,AB(smoking* or smoker* or antismok* or anti smok* or anti-smok*)	17276
S3	TI,AB(tobacco* or cigar* or cigs)	11715
S4	TI,AB(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies)	77
S5	TI,AB(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas)	198
S6	S1 OR S2 OR S3 OR S4 OR S5	22390
S7	MAINSUBJECT.EXACT.EXPLODE("Businesses") OR MAINSUBJECT.EXACT("Trading") OR MAINSUBJECT.EXACT("Retailing") OR MAINSUBJECT.EXACT("Trade") OR MAINSUBJECT.EXACT("Traders") OR MAINSUBJECT.EXACT("Shopping") OR MAINSUBJECT.EXACT("Business")	4895
S8	MAINSUBJECT.EXACT("Internet") OR MAINSUBJECT.EXACT("Electronic mail systems") OR MAINSUBJECT.EXACT("Mobile phones") OR MAINSUBJECT.EXACT("Computers") OR MAINSUBJECT.EXACT("World Wide Web")	12843
S9	s7 and s8	105
S10	MAINSUBJECT.EXACT("Electronic commerce")	121
S11	TI,AB(etail* or etrading* or etrade or etrades or eshopping or eshopped or eselling* or econsumer* or ecustomer* or eshop or eshops or ecommerc* or ebusiness* or "e-tail*" or "e-trading*" or "e-trade" or "e-	107

	trades" or "e-shopping" or "e-shopped" or "e-selling*" or "e-consumer*" or "e-customer*" or "e-shop" or "e-shops" or "e-commerc*" or "e-business**")	
S12	TI((computer* or digital* or digitis* or digitiz* or electronic* or wireless or online* or smartphone* or smart-phone* or smart telephone* or iphone* or i-phone* or ipad* or i-pad* app or apps or internet* or net or www or web or website* or webpage* or webcast* or portal* or search engine* or multimedia* or text messag* or texting or texter* or texted or SMS or e-mail* or email* or electronic mail* or encrypt* or blog* or vlog*) and (trading* or trade or trades or sold* or sale* or sell or sells or supply* or supplied or supplies or retail* or vend or vends or vending or shopping or shopped or selling* or purchas* or bought* or buys or buy or buying or consumer* or customer* or shop or shops or obtain* or procur* or auction* or marketplace* or market or markets or business* or entrepreneur* or enterprise* or corporation* or company* or companies* or commerc*))	433
S13	AB((computer* or digital* or digitis* or digitiz* or electronic* or wireless or online* or smartphone* or iphone* or ipad* or app or apps or internet* or net or www or web or website* or webpage* or webcast* or portal* or search* or multimedia* or text or texting or texter* or texted or SMS or email* or encrypt* or blog* or vlog*) near/3 (trading* or trade or trades or sold* or sale* or sell or sells or supply* or supplied or supplies or retail* or vend or vends or vending or shopping or shopped or selling* or purchas* or bought* or buys or buy or buying or consumer* or customer* or shop or shops or obtain* or procur* or auction* or marketplace* or market or markets or business* or entrepreneur* or enterprise* or corporation* or company* or companies* or commerc*))	2058
S14	TI((Bebo* or Facebook* or YouTube* or Twitter* or LinkedIn* or Pinterest* or Google* or Tumblr* or Instagram* or WhatsApp* or Reddit* or Flickr* or SnapChat* or Yahoo* or Bing* or MSN* or Wikipedia* or Myspace* or Amazon* or Ebay* or Bitcoin* or DarkWeb* or Darknet* or P2P or Tor) and (trading* or trade or trades or sold* or sale* or sell or sells or supply* or supplied or supplies or retail* or vend or vends or vending or shopping or shopped or selling* or purchas* or bought* or buys or buy or buying or consumer* or customer* or shop or shops or obtain* or procur* or auction* or marketplace* or market or markets or business* or entrepreneur* or enterprise* or corporation* or company* or companies* or commerc*))	34
S15	AB((Bebo* or Facebook* or YouTube* or Twitter* or LinkedIn* or Pinterest* or Google* or Tumblr* or Instagram* or WhatsApp* or Reddit* or Flickr* or SnapChat* or Yahoo* or Bing* or MSN* or Wikipedia* or Myspace* or Amazon* or Ebay* or Bitcoin* or DarkWeb* or Darknet* or P2P or Tor) near/3 (trading* or trade or trades or sold* or sale* or sell or sells or supply* or supplied or supplies or retail* or vend or vends or vending or shopping or shopped or selling* or purchas* or bought* or buys or buy or buying or consumer* or customer* or shop or shops or obtain* or procur* or auction* or marketplace* or market or markets or business* or entrepreneur* or enterprise* or corporation* or company* or companies* or commerc*))	91

S16	S6 AND S9	6
S17	S6 AND S10	1
S18	S6 AND S11	0
S19	S6 AND S12	17
S20	S6 AND S13	66
S21	S6 AND S14	0
S22	S6 AND S15	1

ProQuest will only accept single words when using proximity operators so phrases such as "smart telephone" had to be removed from s13. For the same reason, the 'and' operator was used in s12.

ProQuest was unable to combine the search results of the e-commerce terms into a single set. The sets were combined separately. I then went into the results for s16-s22 and added all of the results to the marked list. This resulted in 78 hits. I went into the marked list and removed 1 paper from before 1998, meaning there were 77 results for downloading.

8.1.2 Database name: Cochrane Central Register of Controlled Trials (CENTRAL)

- #1 MeSH descriptor: [Tobacco Use] explode all trees 216
- #2 MeSH descriptor: [Tobacco] this term only 159
- #3 MeSH descriptor: [Tobacco Use Disorder] this term only 1450
- #4 MeSH descriptor: [Tobacco Use Cessation] this term only 94
- #5 MeSH descriptor: [Tobacco Use Cessation Products] this term only 418
- #6 MeSH descriptor: [Smoking] this term only 5574
- #7 MeSH descriptor: [Pipe Smoking] explode all trees 1
- #8 MeSH descriptor: [Smoking Reduction] this term only 6
- #9 MeSH descriptor: [Smoking Cessation] this term only 3692
- #10 MeSH descriptor: [Smokers] this term only 60
- #11 MeSH descriptor: [Smoking Devices] explode all trees 327
- #12 MeSH descriptor: [Smoking Prevention] this term only 1535
- #13 (smoking* or smoker* or antismok* or anti smok* or anti-smok*):ti,ab
22987
- #14 (tobacco* or cigar* or cigs):ti,ab 8973
- #15 (bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies):ti,ab 96
- #16 (waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas):ti,ab 134
- #17 {or #1-#16} 25915
- #18 MeSH descriptor: [Small Business] this term only 6
- #19 MeSH descriptor: [Entrepreneurship] this term only 4
- #20 MeSH descriptor: [Commerce] this term only 160
- #21 {or #18-#20} 167
- #22 MeSH descriptor: [Internet] explode all trees 3363
- #23 MeSH descriptor: [Multimedia] this term only 200
- #24 MeSH descriptor: [Computers, Handheld] this term only 229
- #25 MeSH descriptor: [Electronic Mail] this term only 293
- #26 MeSH descriptor: [Text Messaging] this term only 584
- #27 MeSH descriptor: [Smartphone] this term only 188
- #28 MeSH descriptor: [Mobile Applications] this term only 323
- #29 {or #22-#28} 4748

#30 #21 and #29 4

#31 (etail* or etrading* or etrade or etrades or eshopping or eshopped or eselling* or econsumer* or ecustomer* or eshop or eshops or ecommerc* or ebusiness*):ti,ab 5

#32 ((digital* or digitis* or digitiz* or electronic* or wireless or online* or smartphone* or smart-phone* or smart telephone* or iphone* or i-phone* or ipad* or i-pad* app or apps or internet* or www or web or website* or webpage* or webcast* or portal* or search engine* or multimedia* or text messag* or texting or texter* or texted or SMS or e-mail* or email* or electronic mail* or encrypt* or blog* or vlog*) near/3 (trading* or trade or trades or sold* or sale* or sell or sells or supply* or supplied or supplies or retail* or vend or vends or vending or shopping or shopped or selling* or purchas* or bought* or buys or buy or buying or consumer* or customer* or shop or shops or obtain* or procur* or auction* or marketplace* or business* or entrepreneur* or enterprise* or corporation* or company* or companies* or commerc*)):ti,ab 1002

#33 ((Bebo* or Facebook* or YouTube* or Twitter* or LinkedIn* or Pinterest* or Google* or Tumblr* or Instagram* or WhatsApp* or Reddit* or Flickr* or SnapChat* or Yahoo* or Bing* or MSN* or Wikipedia* or Myspace* or Amazon* or Ebay* or Bitcoin* or DarkWeb* or Darknet* or P2P or Tor) near/3 (trading* or trade or trades or sold* or sale* or sell or sells or supply* or supplied or supplies or retail* or vend or vends or vending or shopping or shopped or selling* or purchas* or bought* or buys or buy or buying or consumer* or customer* or shop or shops or obtain* or procur* or auction* or marketplace* or business* or entrepreneur* or enterprise* or corporation* or company* or companies* or commerc*)):ti,ab 28

#34 {or #30-#33} 1031

#35 #17 and #34 72

#36 "clinicaltrials.gov":so 127837

#37 #35 not #36 58

#38 "conference":pt 124181

#39 #37 not #38 52

#40 #37 not #38 with Publication Year from 1998 to 2018, in Trials 37

Cochrane Reviews 0	Cochrane Protocols 0	Trials 37	Editorials 0	Special collections 0	Clinical Answers 0	More ▼
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37 Trials matching on "'#40 - #37 not #38" with Publication Year from 1998 to 2018, in Trials'

Cochrane Central Register of Controlled Trials
Issue 11 of 12, November 2018

8.1.3 Database name: Cochrane Database of Systematic Reviews (CDSR)

ID	Search	
#1	MeSH descriptor: [Tobacco Use] explode all trees	216
#2	MeSH descriptor: [Tobacco] this term only	159
#3	MeSH descriptor: [Tobacco Use Disorder] this term only	1450
#4	MeSH descriptor: [Tobacco Use Cessation] this term only	94
#5	MeSH descriptor: [Tobacco Use Cessation Products] this term only	418
#6	MeSH descriptor: [Smoking] this term only	5574
#7	MeSH descriptor: [Pipe Smoking] explode all trees	1
#8	MeSH descriptor: [Smoking Reduction] this term only	6
#9	MeSH descriptor: [Smoking Cessation] this term only	3692
#10	MeSH descriptor: [Smokers] this term only	60
#11	MeSH descriptor: [Smoking Devices] explode all trees	327
#12	MeSH descriptor: [Smoking Prevention] this term only	1535
#13	(smoking* or smoker* or antismok* or anti smok* or anti-smok*):ti,ab	22987
#14	(tobacco* or cigar* or cigs):ti,ab	8973
#15	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies):ti,ab	96
#16	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas):ti,ab	134
#17	{or #1-#16}	25915
#18	MeSH descriptor: [Small Business] this term only	6
#19	MeSH descriptor: [Entrepreneurship] this term only	4
#20	MeSH descriptor: [Commerce] this term only	160
#21	{or #18-#20}	167
#22	MeSH descriptor: [Internet] explode all trees	3363
#23	MeSH descriptor: [Multimedia] this term only	200
#24	MeSH descriptor: [Minicomputers] this term only	6
#25	MeSH descriptor: [Electronic Mail] this term only	293
#26	MeSH descriptor: [Text Messaging] this term only	584
#27	MeSH descriptor: [Microcomputers] explode all trees	645
#28	MeSH descriptor: [Mobile Applications] this term only	323

#29 {or #22-#28} 4969

#30 #21 and #29 5

#31 (etail* or etrading* or etrade or etrades or eshopping or eshopped or eselling* or econsumer* or ecustomer* or eshop or eshops or ecommerc* or ebusiness* or "e-tail*" or "e-trading*" or "e-trade" or "e-trades" or "e-shopping" or "e-shopped" or "e-selling*" or "e-consumer*" or "e-customer*" or "e-shop" or "e-shops" or "e-commerc*" or "e-business*"):ti,ab 10

#32 ((computer* or digital* or digitis* or digitiz* or electronic* or wireless or online* or smartphone* or smart-phone* or smart telephone* or iphone* or i-phone* or ipad* or i-pad* app or apps or internet* or net or www or web or website* or webpage* or webcast* or portal* or search engine* or multimedia* or text messag* or texting or texter* or texted or SMS or e-mail* or email* or electronic mail* or encrypt* or blog* or vlog*) near/3 (trading* or trade or trades or sold* or sale* or sell or sells or supply* or supplied or supplies or retail* or vend or vends or vending or shopping or shopped or selling* or purchas* or bought* or buys or buy or buying or consumer* or customer* or shop or shops or obtain* or procur* or auction* or marketplace* or market or markets or business* or entrepreneur* or enterprise* or corporation* or company* or companies* or commerc*)):ti,ab 1241

#33 ((Bebo* or Facebook* or YouTube* or Twitter* or LinkedIn* or Pinterest* or Google* or Tumblr* or Instagram* or WhatsApp* or Reddit* or Flickr* or SnapChat* or Yahoo* or Bing* or MSN* or Wikipedia* or Myspace* or Amazon* or Ebay* or Bitcoin* or DarkWeb* or Darknet* or P2P or Tor) near/3 (trading* or trade or trades or sold* or sale* or sell or sells or supply* or supplied or supplies or retail* or vend or vends or vending or shopping or shopped or selling* or purchas* or bought* or buys or buy or buying or consumer* or customer* or shop or shops or obtain* or procur* or auction* or marketplace* or market or markets or business* or entrepreneur* or enterprise* or corporation* or company* or companies* or commerc*)):ti,ab 29

#34 {or #30-#33} 1276

#35 #17 and #34 81

#36 "clinicaltrials.gov":so 127837

#37 #35 not #36 65

#38 #35 not #36 with Cochrane Library publication date Between Jan 1998 and Jan 2018, in Cochrane Reviews 6

Cochrane Reviews 6	Cochrane Protocols 0	Trials 0	Editorials 0	Special collections 0	Clinical Answers 0	More ▼
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6 Cochrane Reviews matching on "'#38 - #35 not #36" with Cochrane Library publication date Between Jan 1998 and Jan 2018, in Cochrane Reviews'
 Did you mean: *knot noct nota*

Cochrane Database of Systematic Reviews
 Issue 11 of 12, November 2018

8.1.4 Database name: EconLit

Database(s): Econlit 1886 to November 22, 2018

Search Strategy:

#	Searches	Results
1	(smoking* or smoker* or antismok* or anti smok* or anti-smok*).ti,ab.	1974
2	(tobacco* or cigar* or cigs).ti,ab.	2427
3	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).ti,ab.	26
4	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).ti,ab.	18
5	or/1-4	3546
6	(etail* or etrading* or etrade or etrades or eshopping or eshopped or eselling* or econsumer* or ecustomer* or eshop or eshops or ecommerc* or ebusiness* or "e-tail*" or "e-trading*" or "e-trade" or "e-trades" or "e-shopping" or "e-shopped" or "e-selling*" or "e-consumer*" or "e-customer*" or "e-shop" or "e-shops" or "e-commerc*" or "e-business*").ti,ab.	1374
7	((computer* or digital* or digitis* or digitiz* or electronic* or wireless or online* or smartphone* or smart-phone* or smart telephone* or iphone* or i-phone* or ipad* or i-pad* app or apps or internet* or net or www or web or website* or webpage* or webcast* or portal* or search engine* or multimedia* or text messag* or texting or texter* or texted or SMS or e-mail* or email* or electronic mail* or encrypt* or blog* or vlog*) adj3 (trading* or trade or trades or sold* or sale* or sell or sells or supply* or supplied or supplies or retail* or vend or vends or vending or shopping or shopped or selling* or purchas* or bought* or buys or buy or buying or consumer* or customer* or shop or shops or obtain* or procur* or auction* or marketplace* or market or markets or business* or entrepreneur* or enterprise* or corporation* or company* or companies* or commerc*).ti,ab.	6933
8	((Bebo* or Facebook* or YouTube* or Twitter* or LinkedIn* or Pinterest* or Google* or Tumblr* or Instagram* or WhatsApp* or Reddit* or Flickr* or SnapChat* or Yahoo* or Bing* or MSN* or Wikipedia* or Myspace* or Amazon* or Ebay* or Bitcoin* or DarkWeb* or Darknet* or P2P or Tor) adj3 (trading* or trade or trades or sold* or sale* or sell or sells or supply* or supplied or supplies or retail* or vend or vends or vending or shopping or shopped or selling* or purchas* or bought* or buys or buy or buying or consumer* or customer* or shop or shops or obtain* or procur* or auction* or marketplace* or market or markets or business* or entrepreneur* or enterprise* or corporation* or company* or companies* or commerc*).ti,ab.	391
9	or/6-8	8007
10	5 and 9	20

11 limit 10 to yr="1998 -Current"

19

8.1.5 Database name: Embase

Database(s): Embase 1974 to 2018 November 28

Search Strategy:

#	Searches	Results
1	"tobacco use"/	7693
2	tobacco consumption/	1931
3	tobacco/	41899
4	tobacco dependence/	18656
5	"smoking and smoking related phenomena"/	180
6	smoking/	274341
7	smoking habit/	20925
8	cigar smoking/	90
9	cigarette smoking/	51340
10	bidi smoking/	118
11	exp pipe smoking/	148
12	exp parental smoking/	6922
13	adolescent smoking/	1639
14	smoking reduction/	80
15	smoking prevention/	326
16	smoking cessation/	53288
17	smoking cessation program/	2983
18	exp smoking device/	4980
19	(smoking* or smoker* or antismok* or anti smok* or anti-smok*).ti,ab.	329423
20	(tobacco* or cigar* or cigs).ti,ab.	166051
21	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).ti,ab.	804
22	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).ti,ab.	2257
23	or/1-22	500960
24	commercial phenomena/	40902

25 purchasing/	5557
26 shopping/	2007
27 Entrepreneurship/	284
28 or/24-27	48397
29 internet/	100265
30 blogging/	247
31 social media/	13308
32 multimedia/	3511
33 personal digital assistant/	1287
34 personal computer/	334
35 e-mail/	17731
36 mobile phone/	14638
37 text messaging/	3720
38 smartphone/	6846
39 mobile application/	7067
40 or/29-39	151336
41 28 and 40	2063
42 electronic commerce/ (etail* or etrading* or etrade or etrades or eshopping or eshopped or eselling* or econsumer* or ecustomer* or eshop or eshops or ecommerc* or ebusiness* or "e-tail*" or "e-trading*" or "e-trade" or "e- trades" or "e-shopping" or "e-shopped" or "e-selling*" or "e-consumer*" or "e-customer*" or "e-shop" or "e-shops" or "e-commerc*" or "e- business*").ti,ab.	532
44 e-mail* or email* or electronic mail* or encrypt* or blog* or vlog*) adj3 ((computer* or digital* or digitis* or digitiz* or electronic* or wireless or online* or smartphone* or smart-phone* or smart telephone* or iphone* or i-phone* or ipad* or i-pad* app or apps or internet* or net or www or web or website* or webpage* or webcast* or portal* or search engine* or multimedia* or text messag* or texting or texter* or texted or SMS or (trading* or trade or trades or sold* or sale* or sell or sells or supply* or supplied or supplies or retail* or vend or vends or vending or shopping or shopped or selling* or purchas* or bought* or buys or buy or buying or consumer* or customer* or shop or shops or obtain* or procur* or auction* or marketplace* or market or markets or business* or	20007

entrepreneur* or enterprise* or corporation* or company* or companies* or commerc*)),ti,ab.	
((Bebo* or Facebook* or YouTube* or Twitter* or LinkedIn* or Pinterest* or Google* or Tumblr* or Instagram* or WhatsApp* or Reddit* or Flickr* or SnapChat* or Yahoo* or Bing* or MSN* or Wikipedia* or Myspace* or Amazon* or Ebay* or Bitcoin* or DarkWeb* or Darknet* or P2P or Tor) adj3 (trading* or trade or trades or sold* or sale* or sell or sells or supply* or supplied or supplies or retail* or vend or vends or vending or shopping or shopped or selling* or purchas* or bought* or buys or buy or buying or consumer* or customer* or shop or shops or obtain* or procur* or auction* or marketplace* or market or markets or business* or entrepreneur* or enterprise* or corporation* or company* or companies* or commerc*)),ti,ab.	801
46 or/41-45	22724
47 23 and 46	749
48 nonhuman/ not (human/ and nonhuman/)	4272586
49 47 not 48	743
50 (letter or editorial).pt.	1635294
51 49 not 50	727
52 (conference abstract or conference paper or conference proceeding or "conference review").pt.	3980908
53 51 not 52	506
54 limit 53 to medline	160
55 53 not 54	346
56 limit 55 to english language	340
57 limit 56 to yr="1998 -Current"	314

8.1.6 Database name: Health Management Information Consortium (HMIC)

Database(s): HMIC Health Management Information Consortium 1979 to September 2018

Search Strategy:

#	Searches	Results
1	(smoking* or smoker* or antismok* or anti smok* or anti-smok*).ti,ab.	7519
2	(smoking* or smoker* or antismok* or anti smok* or anti-smok*).sh.	5310
3	(tobacco* or cigar* or cigs).ti,ab.	3431
4	(tobacco* or cigar* or cigs).sh.	1434
5	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).ti,ab.	12
6	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).sh.	1
7	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).ti,ab.	13
8	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).sh.	0
9	or/1-8	9402
10	(etail* or etrading* or etrade or etrades or eshopping or eshopped or eselling* or econsumer* or ecustomer* or eshop or eshops or ecommerc* or ebusiness* or "e-tail*" or "e-trading*" or "e-trade" or "e-trades" or "e-shopping" or "e-shopped" or "e-selling*" or "e-consumer*" or "e-customer*" or "e-shop" or "e-shops" or "e-commerc*" or "e-business*").ti,ab.	34
11	(etail* or etrading* or etrade or etrades or eshopping or eshopped or eselling* or econsumer* or ecustomer* or eshop or eshops or ecommerc* or ebusiness* or "e-tail*" or "e-trading*" or "e-trade" or "e-trades" or "e-shopping" or "e-shopped" or "e-selling*" or "e-consumer*" or "e-customer*" or "e-shop" or "e-shops" or "e-commerc*" or "e-business*").sh.	0
12	((computer* or digital* or digitis* or digitiz* or electronic* or wireless or online* or smartphone* or smart-phone* or smart telephone* or iphone* or i-phone* or ipad* or i-pad* app or apps or internet* or net or www or web or website* or webpage* or webcast* or portal* or search engine* or multimedia* or text messag* or texting or texter* or texted or SMS or e-mail* or email* or electronic mail* or encrypt* or blog* or vlog*) adj3 (trading* or trade or trades or sold* or sale* or sell or sells or supply* or supplied or supplies or retail* or vend or vends or vending or shopping or shopped or selling* or purchas* or bought* or buys or buy or buying or consumer* or customer* or shop or shops or obtain* or procur* or	451

	auction* or marketplace* or market or markets or business* or entrepreneur* or enterprise* or corporation* or company* or companies* or commerc*)).ti,ab.	
	(trading* or trade or trades or sold* or sale* or sell or sells or supply* or supplied or supplies or retail* or vend or vends or vending or shopping or shopped or selling* or purchas* or bought* or buys or buy or buying or	
13	consumer* or customer* or shop or shops or obtain* or procur* or auction* or marketplace* or market or markets or business* or entrepreneur* or enterprise* or corporation* or company* or companies* or commerc*).sh.	10985
	((Bebo* or Facebook* or YouTube* or Twitter* or LinkedIn* or Pinterest* or Google* or Tumblr* or Instagram* or WhatsApp* or Reddit* or Flickr* or SnapChat* or Yahoo* or Bing* or MSN* or Wikipedia* or Myspace* or Amazon* or Ebay* or Bitcoin* or DarkWeb* or Darknet* or P2P or Tor)	
14	adj3 (trading* or trade or trades or sold* or sale* or sell or sells or supply* or supplied or supplies or retail* or vend or vends or vending or shopping or shopped or selling* or purchas* or bought* or buys or buy or buying or consumer* or customer* or shop or shops or obtain* or procur* or auction* or marketplace* or market or markets or business* or entrepreneur* or enterprise* or corporation* or company* or companies* or commerc*)).ti,ab.	2
	(Bebo* or Facebook* or YouTube* or Twitter* or LinkedIn* or Pinterest* or Google* or Tumblr* or Instagram* or WhatsApp* or Reddit* or Flickr* or SnapChat* or Yahoo* or Bing* or MSN* or Wikipedia* or Myspace* or Amazon* or Ebay* or Bitcoin* or DarkWeb* or Darknet* or P2P or Tor).sh.	
15	or SnapChat* or Yahoo* or Bing* or MSN* or Wikipedia* or Myspace* or Amazon* or Ebay* or Bitcoin* or DarkWeb* or Darknet* or P2P or Tor).sh.	3
16	or/10-15	11306
17	9 and 16	206
18	limit 17 to yr="1998 -Current"	186

8.1.7 Database name: MEDLINE

Database(s): Ovid MEDLINE(R) 1946 to November 28, 2018

Search Strategy:

#	Searches	Results
1	exp "tobacco use"/	2008
2	tobacco/	28976
3	"tobacco use disorder"/	10469
4	"tobacco use cessation"/	1037
5	"tobacco use cessation products"/	1512
6	smoking/	134065
7	exp Pipe smoking/	64
8	smoking reduction/	14
9	"smoking cessation"/	26127
10	Smokers/	510
11	exp Smoking Devices/	7913
12	smoking prevention/	17444
13	(smoking* or smoker* or antismok* or anti smok* or anti-smok*).ti,ab.	203332
14	(tobacco* or cigar* or cigs).ti,ab.	122917
15	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).ti,ab.	476
16	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).ti,ab.	1418
17	or/1-16	301216
18	commerce/	22870
19	Entrepreneurship/	2139
20	small business/	234
21	or/18-20	25011
22	exp internet/	70976
23	Multimedia/	1802
24	Minicomputers/	976

25 Electronic Mail/	2469
26 Text Messaging/	2066
27 exp Microcomputers/	19739
28 mobile applications/	3571
29 or/22-28	97278
30 21 and 29	979
31 (etail* or etrading* or etrade or etrades or eshopping or eshopped or eselling* or econsumer* or ecustomer* or eshop or eshops or ecommerc* or ebusiness* or "e-tail*" or "e-trading*" or "e-trade" or "e-trades" or "e-shopping" or "e-shopped" or "e-selling*" or "e-consumer*" or "e-customer*" or "e-shop" or "e-shops" or "e-commerc*" or "e-business*").ti,ab.	281
32 ((computer* or digital* or digitis* or digitiz* or electronic* or wireless or online* or smartphone* or smart-phone* or smart telephone* or iphone* or i-phone* or ipad* or i-pad* app or apps or internet* or net or www or web or website* or webpage* or webcast* or portal* or search engine* or multimedia* or text messag* or texting or texter* or texted or SMS or e-mail* or email* or electronic mail* or encrypt* or blog* or vlog*) adj3 (trading* or trade or trades or sold* or sale* or sell or sells or supply* or supplied or supplies or retail* or vend or vends or vending or shopping or shopped or selling* or purchas* or bought* or buys or buy or buying or consumer* or customer* or shop or shops or obtain* or procur* or auction* or marketplace* or market or markets or business* or entrepreneur* or enterprise* or corporation* or company* or companies* or commerc*)).ti,ab.	12121
33 ((Bebo* or Facebook* or YouTube* or Twitter* or LinkedIn* or Pinterest* or Google* or Tumblr* or Instagram* or WhatsApp* or Reddit* or Flickr* or SnapChat* or Yahoo* or Bing* or MSN* or Wikipedia* or Myspace* or Amazon* or Ebay* or Bitcoin* or DarkWeb* or Darknet* or P2P or Tor) adj3 (trading* or trade or trades or sold* or sale* or sell or sells or supply* or supplied or supplies or retail* or vend or vends or vending or shopping or shopped or selling* or purchas* or bought* or buys or buy or buying or consumer* or customer* or shop or shops or obtain* or procur* or auction* or marketplace* or market or markets or business* or entrepreneur* or enterprise* or corporation* or company* or companies* or commerc*)).ti,ab.	425
34 or/30-33	13280
35 17 and 34	411
36 Animals/ not (Animals/ and Humans/)	4487157
37 35 not 36	410

38	limit 37 to (letter or historical article or comment or editorial or news or case reports)	21
39	37 not 38	389
40	limit 39 to english language	371
41	limit 40 to yr="1998 -Current"	347

8.1.8 Database name: MEDLINE-in-Process (including Epub Ahead-of-Print)

Database(s): Ovid MEDLINE(R) Epub Ahead of Print November 28, 2018, Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations November 28, 2018

Search Strategy:

#	Searches	Results
1	(smoking* or smoker* or antismok* or anti smok* or anti-smok*).ti,ab.	24517
2	(tobacco* or cigar* or cigs).ti,ab.	16492
3	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).ti,ab.	92
4	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).ti,ab.	473
5	or/1-4	33694
6	(etail* or etrading* or etrade or etrades or eshopping or eshopped or eselling* or econsumer* or ecustomer* or eshop or eshops or ecommerc* or ebusiness* or "e-tail*" or "e-trading*" or "e-trade" or "e-trades" or "e-shopping" or "e-shopped" or "e-selling*" or "e-consumer*" or "e-customer*" or "e-shop" or "e-shops" or "e-commerc*" or "e-business*").ti,ab.	51
7	((computer* or digital* or digitis* or digitiz* or electronic* or wireless or online* or smartphone* or smart-phone* or smart telephone* or iphone* or i-phone* or ipad* or i-pad* app or apps or internet* or net or www or web or website* or webpage* or webcast* or portal* or search engine* or multimedia* or text messag* or texting or texter* or texted or SMS or e-mail* or email* or electronic mail* or encrypt* or blog* or vlog*) adj3 (trading* or trade or trades or sold* or sale* or sell or sells or supply* or supplied or supplies or retail* or vend or vends or vending or shopping or shopped or selling* or purchas* or bought* or buys or buy or buying or consumer* or customer* or shop or shops or obtain* or procur* or auction* or marketplace* or market or markets or business* or entrepreneur* or enterprise* or corporation* or company* or companies* or commerc*).ti,ab.	3032
8	((Bebo* or Facebook* or YouTube* or Twitter* or LinkedIn* or Pinterest* or Google* or Tumblr* or Instagram* or WhatsApp* or Reddit* or Flickr* or SnapChat* or Yahoo* or Bing* or MSN* or Wikipedia* or Myspace* or Amazon* or Ebay* or Bitcoin* or DarkWeb* or Darknet* or P2P or Tor) adj3 (trading* or trade or trades or sold* or sale* or sell or sells or supply* or supplied or supplies or retail* or vend or vends or vending or shopping or shopped or selling* or purchas* or bought* or buys or buy or buying or consumer* or customer* or shop or shops or obtain* or procur* or auction* or marketplace* or market or markets or business* or entrepreneur* or enterprise* or corporation* or company* or companies* or commerc*).ti,ab.	145
9	or/6-8	3196

10 5 and 9	94
11 limit 10 to english language	94
12 limit 11 to yr="1998 -Current"	93

8.1.9 Database name: PsycINFO

Database(s): PsycINFO 1806 to November Week 4 2018

Search Strategy:

#	Searches	Results
1	tobacco smoking/	29152
2	smoking cessation/	12212
3	(smoking* or smoker* or antismok* or anti smok* or anti-smok*).ti,ab.	47597
4	(tobacco* or cigar* or cigs).ti,ab.	33112
5	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).ti,ab.	82
6	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).ti,ab.	531
7	or/1-6	59352
8	retailing/	3620
9	shopping/	1710
10	shopping centers/	282
11	commerce/	1883
12	family business/	383
13	small businesses/	1258
14	Entrepreneurship/	5054
15	Business/	18376
16	or/8-15	30247
17	exp multimedia/	27239
18	computers/	9709
19	microcomputers/	1244
20	internet/	27819
21	blog/	404
22	online social networks/	6726
23	internet usage/	2128
24	online community/	723

25 social media/	5890
26 websites/	4565
27 computer mediated communication/	5425
28 text messaging/	696
29 exp mobile devices/	5982
30 or/17-29	85470
31 16 and 30	1960
32 exp Electronic Commerce/ (etail* or etrading* or etrade or etrades or eshopping or eshopped or eselling* or econsumer* or ecustomer* or eshop or eshops or ecommerc* or ebusiness* or "e-tail*" or "e-trading*" or "e-trade" or "e- trades" or "e-shopping" or "e-shopped" or "e-selling*" or "e-consumer*" or "e-customer*" or "e-shop" or "e-shops" or "e-commerc*" or "e- business*").ti,ab.	1453
34 ((computer* or digital* or digitis* or digitiz* or electronic* or wireless or online* or smartphone* or smart-phone* or smart telephone* or iphone* or i-phone* or ipad* or i-pad* app or apps or internet* or net or www or web or website* or webpage* or webcast* or portal* or search engine* or multimedia* or text messag* or texting or texter* or texted or SMS or e- mail* or email* or electronic mail* or encrypt* or blog* or vlog*) adj3 (trading* or trade or trades or sold* or sale* or sell or sells or supply* or supplied or supplies or retail* or vend or vends or vending or shopping or shopped or selling* or purchas* or bought* or buys or buy or buying or consumer* or customer* or shop or shops or obtain* or procur* or auction* or marketplace* or market or markets or business* or entrepreneur* or enterprise* or corporation* or company* or companies* or commerc*).ti,ab.	8972
35 ((Bebo* or Facebook* or YouTube* or Twitter* or LinkedIn* or Pinterest* or Google* or Tumblr* or Instagram* or WhatsApp* or Reddit* or Flickr* or SnapChat* or Yahoo* or Bing* or MSN* or Wikipedia* or Myspace* or Amazon* or Ebay* or Bitcoin* or DarkWeb* or Darknet* or P2P or Tor) adj3 (trading* or trade or trades or sold* or sale* or sell or sells or supply* or supplied or supplies or retail* or vend or vends or vending or shopping or shopped or selling* or purchas* or bought* or buys or buy or buying or consumer* or customer* or shop or shops or obtain* or procur* or auction* or marketplace* or market or markets or business* or entrepreneur* or enterprise* or corporation* or company* or companies* or commerc*).ti,ab.	554
36 or/31-35	11632
37 7 and 36	180
38 limit 37 to ("column/opinion" or editorial or letter)	5

39 37 not 38	175
40 limit 39 to animal	2
41 39 not 40	173
42 limit 41 to english language	167
43 limit 42 to yr="1998 -Current"	164

8.1.10 Database name: Social Policy and Practice (SPP)

Database(s): Social Policy and Practice 201810

Search Strategy:

#	Searches	Results
1	(smoking* or smoker* or antismok* or anti smok* or anti-smok*).ti,ab.	1382
2	(smoking* or smoker* or antismok* or anti smok* or anti-smok*).sh.	864
3	(tobacco* or cigar* or cigs).ti,ab.	608
4	(tobacco* or cigar* or cigs).sh.	221
5	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).ti,ab.	0
6	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).sh.	0
7	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).ti,ab.	5
8	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).sh.	4
9	or/1-8	1909
10	(etail* or etrading* or etrade or etrades or eshopping or eshopped or eselling* or econsumer* or ecustomer* or eshop or eshops or ecommerc* or ebusiness* or "e-tail*" or "e-trading*" or "e-trade" or "e-trades" or "e-shopping" or "e-shopped" or "e-selling*" or "e-consumer*" or "e-customer*" or "e-shop" or "e-shops" or "e-commerc*" or "e-business*").ti,ab.	51
11	(etail* or etrading* or etrade or etrades or eshopping or eshopped or eselling* or econsumer* or ecustomer* or eshop or eshops or ecommerc* or ebusiness* or "e-tail*" or "e-trading*" or "e-trade" or "e-trades" or "e-shopping" or "e-shopped" or "e-selling*" or "e-consumer*" or "e-customer*" or "e-shop" or "e-shops" or "e-commerc*" or "e-business*").sh.	44
12	((computer* or digital* or digitis* or digitiz* or electronic* or wireless or online* or smartphone* or smart-phone* or smart telephone* or iphone* or i-phone* or ipad* or i-pad* app or apps or internet* or net or www or web or website* or webpage* or webcast* or portal* or search engine* or multimedia* or text messag* or texting or texter* or texted or SMS or e-mail* or email* or electronic mail* or encrypt* or blog* or vlog*) adj3 (trading* or trade or trades or sold* or sale* or sell or sells or supply* or supplied or supplies or retail* or vend or vends or vending or shopping or shopped or selling* or purchas* or bought* or buys or buy or buying or consumer* or customer* or shop or shops or obtain* or procur* or auction* or marketplace* or market or markets or business* or	269

	entrepreneur* or enterprise* or corporation* or company* or companies* or commerc*)),ti,ab.	
	(trading* or trade or trades or sold* or sale* or sell or sells or supply* or supplied or supplies or retail* or vend or vends or vending or shopping or shopped or selling* or purchas* or bought* or buys or buy or buying or	
13	consumer* or customer* or shop or shops or obtain* or procur* or auction* or marketplace* or market or markets or business* or entrepreneur* or enterprise* or corporation* or company* or companies* or commerc*).sh.	12295
	((Bebo* or Facebook* or YouTube* or Twitter* or LinkedIn* or Pinterest* or Google* or Tumblr* or Instagram* or WhatsApp* or Reddit* or Flickr* or SnapChat* or Yahoo* or Bing* or MSN* or Wikipedia* or Myspace* or Amazon* or Ebay* or Bitcoin* or DarkWeb* or Darknet* or P2P or Tor)	
14	adj3 (trading* or trade or trades or sold* or sale* or sell or sells or supply* or supplied or supplies or retail* or vend or vends or vending or shopping or shopped or selling* or purchas* or bought* or buys or buy or buying or consumer* or customer* or shop or shops or obtain* or procur* or auction* or marketplace* or market or markets or business* or entrepreneur* or enterprise* or corporation* or company* or companies* or commerc*)),ti,ab.	12
	(Bebo* or Facebook* or YouTube* or Twitter* or LinkedIn* or Pinterest* or Google* or Tumblr* or Instagram* or WhatsApp* or Reddit* or Flickr* or SnapChat* or Yahoo* or Bing* or MSN* or Wikipedia* or Myspace* or Amazon* or Ebay* or Bitcoin* or DarkWeb* or Darknet* or P2P or Tor).sh.	
15	or	64
16	or/10-15	12581
17	9 and 16	38
18	limit 17 to yr="1998 -Current"	27

8.2 Search narrative

The search for RQ2.1 is wider than proxy purchasing. Combining proxy purchasing with tobacco terms only had 116 results on MEDLINE at scoping. We were concerned about missing papers that were about interventions in the retail setting that wouldn't necessarily mention proxy purchasing in the abstract as it was one of several interventions being discussed. The search was therefore expanded to cover anything about the retail sector and young people. The review team discussed test purchasing and it was decided not to include it in the search strategy as it usually relates to direct purchasing.

Doing the broader search for proxy purchasing meant that a combined search for RQ2.1 and RQ2.2 was required. The concept of "interventions in the retail sector to prevent children from smoking" was common to both questions and searching for them separately would have therefore involved a lot of overlap.

The search did not include terms for point of sale interventions. This was discussed at scoping and it was not included as it is a separate question and literature.

The 18-24 years age group were excluded from RQ2.1 but included in RQ2.2 because it's legal to buy tobacco at that age and so there can't be any proxy purchasing. We retained the terms as it was a single search (they could be removed if just re-running or updating RQ2.1). It is unlikely that they affected the results much and, as we are being more sensitive than the question requires, there are no risks.

The smoking terms were generally taken from the mass media search but there was no need to have nicotine, smoking cessation drugs or ecigs as children would not be proxy purchasing these. The review team confirmed that ecigs were out of scope for these questions.

It was necessary to repeat terms for smoking and adj them with the free text for illicit activities. It was tested without these terms and there were a lot of false hits from illicit drugs.

The search was checked against the Cochrane Review 'Interventions for preventing tobacco sales to minors' (2002) and the paper from the surveillance review 'No-one actually goes to a shop and buys them do they?'

EconBiz was included as we needed a source of business information. It doesn't have an export function and the search is pretty basic so it was treated as a website.

EconLit was included in the protocol twice as it will be done separately for the effectiveness and cost effectiveness reviews. The MIP strategy was reused in EconLit for technical reasons relating to the subject headings not being accessible at the time of searching. The relevant heading was "Food, Beverages, Cosmetics, Tobacco, Wine and Spirits" so it was felt this was too broad for the main part of the strategy anyway.

The ASSIA search was adapted to the technical limitations of the interface. The results were processed using the Marked List function before downloading them, as a single search strategy could not be run successfully.

Top up search

Three searches were done to cover these two reviews.

- The main search was done on 3 October 2018
- A top-up search for online retailing was done on 29 November 2018
- A top-up search for children aged 5-11 was done on 14 December 2018

Primary school age

The primary school age top up search added the following lines to MEDLINE:

((“five” or “six” or “seven” or “eight” or “nine” or “ten” or “eleven”) adj2 (year or years or age or ages or aged)).ti,ab.

((“5” or “6” or “7” or “8” or “9” or “10” or “11”) adj2 (year or years or age or ages or aged)).ti,ab.

No additional MeSH terms were required. An additional heading was required in PsycINFO for elementary school students. The search was run on the same databases as above, except for ASSIA as the age-related terms were not used in the main search anyway.

The top-up search had 1170 results, 195 duplicates were removed, leaving 778. The 778 were compared to the EndNote file for the main search and anything that would have already been screened was removed. A further 462 were removed, leaving 316 new hits from the top up for screening.

Online sales

A further top up search was done because the committee decided at PHAC 0A that they wanted to include the online sales. It could not be incorporated into the main strategy because the results had already been downloaded. The online sales top up has a lot of overlap with the original joint search for RQ2.1 and RQ2.2 but the terms (e.g. commerce) were still used because it was going to be sifted as a standalone set.

The MEDLINE and Embase strategies are slightly different as there is no specific MeSH term for electronic commerce, which is included in Emtree in its own right. The Emtree term was only introduced in 2006 and so the other terms (business adj online) were retained in the strategy as we needed to search back to 1998.

The same databases were used as in the main search. EconLit used the MIP strategy again.

The ASSIA search had to be adapted to the platform for technical reasons, as described above.

The following were used as test papers:

Internet cigarette vendors make tax-free claims and sell cigarettes cheaper than retail outlets

Tobacco products sold by Internet vendors following restrictions on flavors and light descriptors

Prevalence and correlates of internet cigarette purchasing among adult smokers in New Jersey

Web sites selling cigarettes: how many are there in the USA and what are their sales practices?

Updates

Note for future versions that:

the 2019 Emtree reload included the new term "nonsmoker".

The 2019 MeSH reload included the new terms:

"nonsmokers" and "Ex-smokers"

Smoking cessation agents

The first would affect line 12 as we would now need to decide whether to explode that term or not.

And the agents term would need to be added into the searches alongside "tobacco use cessation products"/.

9 Search for RQ3.1 (Effectiveness)

<p>Topic: Tobacco Portfolio</p> <p>Question details:</p> <p>3.1a. Are smokefree class competitions effective and cost effective at preventing children and young people from taking up smoking?</p> <p>3.1b. Are smokefree class competitions acceptable to children and young people? Do they affect their ability to cope with stress or pressure, or their self-esteem and self-efficacy? What are the barriers and facilitators to successful adoption of the intervention by the population?</p>

9.1 Table of results – main search

Database name	Date searched	Database Platform	Database segment or version
Applied Social Science Index and Abstracts (ASSIA)	16/11/2018	ProQuest	1987 - current
Cochrane Central Register of Controlled Trials (CENTRAL)	16/11/2018	Wiley	Issue 11 of 12, November 2018
Cochrane Database of Systematic Reviews (CDSR)	16/11/2018	Wiley	Issue 11 of 12, November 2018
Embase	16/11/2018	Ovid	Embase 1974 to 2018 November 14
Educational Resources Information Center (ERIC)	16/11/2018	ProQuest	1966 - current
Health Management Information Consortium (HMIC)	16/11/2018	Ovid	HMIC Health Management Information Consortium 1979 to September 2018

MEDLINE	16/11/2018	Ovid	Ovid MEDLINE(R) 1946 to November 14, 2018
MEDLINE-in-Process (including Epub Ahead-of-Print)	16/11/2018	Ovid	Ovid MEDLINE(R) Epub Ahead of Print November 14, 2018, Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations November 14, 2018
PsycINFO	16/11/2018	Ovid	PsycINFO 1806 to November Week 2 2018
Social Policy and Practice (SPP)	16/11/2018	Ovid	Social Policy and Practice 201810
Sociological Abstracts	16/11/2018	ProQuest	1952 - current

Main search

Search source	No. of records	Results	Total results	De-duplicated
Applied Social Science Index and Abstracts (ASSIA)	252	1574	2524	1824
Cochrane Central Register of Controlled Trials	57			
Cochrane Database of Systematic Reviews (CDSR)	2			
Embase	212			
Educational Resources Information Center (ERIC)	186			
Health Management Information Consortium (HMIC)	215			
MEDLINE	298			
MEDLINE-in-Process (including Epub Ahead-of-Print)	64			
PsycINFO	162			
Social Policy and Practice (SPP)	45			
Sociological Abstracts	81			
Relevant includes from PH23	3	21		
Relevant includes from surveillance review of PH23	4			
Reference harvesting from Cochrane review	14			
Reference harvesting from PH23 and surveillance	79	929		
Fwd citation searching on PH23, surveillance, scoping	152			
Additional forward citation searching	465			
Author searches	226			
Website browse and search	7			

9.2 Table of results – top up

Database name	Date searched	Database Platform	Database segment or version
Applied Social Science Index and Abstracts (ASSIA)	14/12/18	ProQuest	1987 - current
Cochrane Central Register of Controlled Trials (CENTRAL)	14/12/18	Wiley	Cochrane Central Register of Controlled Trials Issue 12 of 12, December 2018
Cochrane Database of Systematic Reviews (CDSR)	14/12/18	Wiley	Cochrane Database of Systematic Reviews Issue 12 of 12, December 2018
Embase	14/12/18	Ovid	Embase 1974 to 2018 December 12
Educational Resources Information Center (ERIC)	14/12/18	ProQuest	No Top Up Search required
Health Management Information Consortium (HMIC)	14/12/18	Ovid	HMIC Health Management Information Consortium 1979 to September 2018
MEDLINE	14/12/18	Ovid	Ovid MEDLINE(R) 1946 to December 12, 2018
MEDLINE-in-Process (including Epub Ahead-of-Print)	14/12/18	Ovid	Ovid MEDLINE(R) Epub Ahead of Print December 12, 2018, Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations December 12, 2018
PsycINFO	14/12/18	Ovid	PsycINFO 1806 to December Week 1 2018
Social Policy and Practice (SPP)	14/12/18	Ovid	Social Policy and Practice 201810
Sociological Abstracts	14/12/18	ProQuest	(1952 - current)

Top up

Search source	No. of records	Results	De-duplicated	Unique
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Applied Social Science Index and Abstracts (ASSIA)	7			
Cochrane Central Register of Controlled Trials	1			
Cochrane Database of Systematic Reviews (CDSR)	0			
Embase	7			
Educational Resources Information Center (ERIC)	0			
Health Management Information Consortium (HMIC)	5	44	29	11
MEDLINE	13			
MEDLINE-in-Process (including Epub Ahead-of-Print)	1			
PsycINFO	6			
Social Policy and Practice (SPP)	0			
Sociological Abstracts	4			

9.3 Database strategy outline

Main search

(smokefree class competitions) OR

(smokefree policies AND schools)

AND 2008 AND Limits

Top up

(smokefree policies AND primary schools)

AND 2008 AND Limits

10 Database strategies – main search

10.1.1 Database name: Applied Social Science Index and Abstracts (ASSIA)

Set#	Searched for	Databases	Results
S1	TI,AB((smoking* or smoke* or tobacco* or nicotin* or cigar* or cigs) and (incentive* or incentiviz* or incentivis* or reward* or prize* or voucher* or lotter* or raffle* or gift* or inducement* or motivat* or cash or money* or monetar* or finance* or financial* or competition* or contest*))	(ASSIA)	1931
S2	TI,AB((Smokefree* or smoke-free* or "smoke free") and (incentive* or incentiviz* or incentivis* or reward* or prize* or voucher* or lotter* or raffle* or gift* or inducement* or motivat* or cash or money* or monetar* or finance* or financial* or policy* or policies*))	(ASSIA)	321
S3	TI,AB((Smokefree* or smoke-free* or smoke free*) and (competition* or contest*))	(ASSIA)	3
S4	S1 or s2 or s3	(ASSIA)	2203
S5	MAINSUBJECT.EXACT("Middle schools") OR MAINSUBJECT.EXACT("Private schools") OR MAINSUBJECT.EXACT("Junior high schools") OR MAINSUBJECT.EXACT("Grammar schools") OR MAINSUBJECT.EXACT("Neighbourhood schools") OR MAINSUBJECT.EXACT("Boarding schools") OR MAINSUBJECT.EXACT("Comprehensive schools") OR MAINSUBJECT.EXACT("Secondary schools") OR MAINSUBJECT.EXACT("Grant maintained schools") OR MAINSUBJECT.EXACT("Public schools") OR MAINSUBJECT.EXACT("High schools") OR MAINSUBJECT.EXACT("Junior secondary schools") OR MAINSUBJECT.EXACT("Classrooms") OR MAINSUBJECT.EXACT("Independent schools") or MAINSUBJECT.EXACT("School nurses") OR MAINSUBJECT.EXACT("School nursing") OR MAINSUBJECT.EXACT("School based") OR MAINSUBJECT.EXACT("Teachers") OR MAINSUBJECT.EXACT("Classroom assistants") OR MAINSUBJECT.EXACT("Head teachers") OR MAINSUBJECT.EXACT("Teaching assistants") or MAINSUBJECT.EXACT("Students") OR MAINSUBJECT.EXACT("Pupils") or MAINSUBJECT.EXACT("Curriculum") OR MAINSUBJECT.EXACT("Teaching")	(ASSIA)	48679

S6	TI,AB(school* or academy or academies or "city technology*" or "sixth form*" or "6th form" or "education cent*" or "secure unit*" or "training unit*" or "secure training*" or "referral unit*" or "offender institute*" or "pupil referral*" or college* or "further education*" or "junior high" or pupil* or student* or teacher* or classroom* or class or classes or teaching assistant* or headteacher* or curricul* or PSHE or "whole-school*" or wholeschool* or "whole school*")	(ASSIA)	17495 1
S7	TI,AB("year seven" or "year 7" or "year eight" or "year 8" or "year nine" or "year 9" or "year ten" or "year 10" or "year eleven" or "year 11" or "year twelve" or "year 12" or "year thirteen" or "year 13" or "key stage three" or "key stage 3" or "key stage four" or "key stage 4" or "grade six" or "grade 6" or "grade seven" or "grade 7" or "grade eight" or "grade 8" or "grade nine" or "grade 9" or "grade ten" or "grade 10" or "grade eleven" or "grade 11" or "grade twelve" or "grade 12" or "sixth grade*" or "6th grade*" or "seventh grade*" or "7th grade*" or "eighth grade*" or "8th grade*" or "ninth grade*" or "9th grade*" or "tenth grade*" or "10th grade*" or "eleventh grade*" or "11th grade*" or "twelfth grade*" or "12th grade*")	(ASSIA)	6527
S8	s5 or s6 or s7	(ASSIA)	18234 0
S9	s4 and s8	(ASSIA)	402
S10	s4 and s8 and pd(20080101-20181231)	(ASSIA)	252

10.1.2 Database name: Cochrane Central Register of Controlled Trials (CENTRAL)

ID	Search	Hits
#1	MeSH descriptor: [Smoke-Free Policy] this term only	11
#2	((smoking* or smoke* or tobacco* or nicotin* or cigar* or cigs) near/3 (incentive* or incentiviz* or incentivis* or reward* or prize* or voucher* or lotter* or raffle* or gift* or inducement* or motivat* or cash or money* or monetar* or finance* or financial* or competition* or contest*)):ti,ab	941
#3	((Smokefree* or smoke-free* or "smoke free") near/3 (incentive* or incentiviz* or incentivis* or reward* or prize* or voucher* or lotter* or raffle* or gift* or inducement* or motivat* or cash or money* or monetar* or finance* or financial* or policy* or policies*)):ti,ab	42
#4	((Smokefree* or smoke-free* or smoke free*) and (competition* or contest*)):ti,ab	9
#5	{or #1-#4}	986
#6	MeSH descriptor: [Schools] this term only	1631
#7	MeSH descriptor: [School Health Services] this term only	1221
#8	MeSH descriptor: [Students] this term only	2301
#9	MeSH descriptor: [School Nursing] this term only	76
#10	MeSH descriptor: [School Teachers] this term only	57
#11	MeSH descriptor: [Curriculum] this term only	1286
#12	MeSH descriptor: [Teaching] this term only	1630
#13	(school* or academy or academies or "city technology*" or "sixth form*" or "6th form" or "education cent*" or "secure unit*" or "training unit*" or "secure training*" or "referral unit*" or "offender institute*" or "pupil referral*" or college* or "further education*" or "junior high"):ti,ab	32823

- #14 (pupil* or student* or teacher* or classroom* or class or classes or teaching assistant* or headteacher* or curricul*):ti,ab 49066
- #15 (("personal social health" near/1 education*) or PSHE):ti,ab 8
- #16 ("whole-school*" or wholeschool* or "whole school*"):ti,ab 38
- #17 ("year seven" or "year 7" or "year eight" or "year 8" or "year nine" or "year 9" or "year ten" or "year 10" or "year eleven" or "year 11" or "year twelve" or "year 12" or "year thirteen" or "year 13" or "key stage three" or "key stage 3" or "key stage four" or "key stage 4" or "grade six" or "grade 6" or "grade seven" or "grade 7" or "grade eight" or "grade 8" or "grade nine" or "grade 9" or "grade ten" or "grade 10" or "grade eleven" or "grade 11" or "grade twelve" or "grade 12" or "sixth grade*" or "6th grade*" or "seventh grade*" or "7th grade*" or "eighth grade*" or "8th grade*" or "ninth grade*" or "9th grade*" or "tenth grade*" or "10th grade*" or "eleventh grade*" or "11th grade*" or "twelfth grade*" or "12th grade*"):ti,ab 2175
- #18 {or #6-#17} 73823
- #19 #5 and #18 93
- #20 "clinicaltrials.gov":so 127837
- #21 #19 not #20 84
- #22 "conference":pt 124181
- #23 #21 not #22 79
- #24 #21 not #22 with Publication Year from 2008 to 2018, in Trials 57

Cochrane Reviews 0	Cochrane Protocols 0	Trials 57	Editorials 0	More ▼
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57 Trials matching on "'#24 - #21 not #22" with Publication Year from 2008 to 2018, in Trials'

Cochrane Central Register of Controlled Trials
Issue 11 of 12, November 2018

10.1.3 Database name: Cochrane Database of Systematic Reviews (CDSR)

ID	Search	Hits
#1	MeSH descriptor: [Smoke-Free Policy] this term only	11
#2	((smoking* or smoke* or tobacco* or nicotin* or cigar* or cigs) near/3 (incentive* or incentiviz* or incentivis* or reward* or prize* or voucher* or lotter* or raffle* or gift* or inducement* or motivat* or cash or money* or monetar* or finance* or financial* or competition* or contest*)):ti,ab	941
#3	((Smokefree* or smoke-free* or "smoke free") near/3 (incentive* or incentiviz* or incentivis* or reward* or prize* or voucher* or lotter* or raffle* or gift* or inducement* or motivat* or cash or money* or monetar* or finance* or financial* or policy* or policies*)):ti,ab	42
#4	((Smokefree* or smoke-free* or smoke free*) and (competition* or contest*)):ti,ab	9
#5	{or #1-#4}	986
#6	MeSH descriptor: [Schools] this term only	1631
#7	MeSH descriptor: [School Health Services] this term only	1221
#8	MeSH descriptor: [Students] this term only	2301
#9	MeSH descriptor: [School Nursing] this term only	76
#10	MeSH descriptor: [School Teachers] this term only	57
#11	MeSH descriptor: [Curriculum] this term only	1286
#12	MeSH descriptor: [Teaching] this term only	1630
#13	(school* or academy or academies or "city technology*" or "sixth form*" or "6th form" or "education cent*" or "secure unit*" or "training unit*" or "secure training*" or "referral unit*" or "offender institute*" or "pupil referral*" or college* or "further education*" or "junior high"):ti,ab	32823
#14	(pupil* or student* or teacher* or classroom* or class or classes or teaching assistant* or headteacher* or curricul*):ti,ab	49066
#15	(("personal social health" near/1 education*) or PSHE):ti,ab	8
#16	("whole-school*" or wholeschool* or "whole school*"):ti,ab	38

#17 ("year seven" or "year 7" or "year eight" or "year 8" or "year nine" or "year 9" or "year ten" or "year 10" or "year eleven" or "year 11" or "year twelve" or "year 12" or "year thirteen" or "year 13" or "key stage three" or "key stage 3" or "key stage four" or "key stage 4" or "grade six" or "grade 6" or "grade seven" or "grade 7" or "grade eight" or "grade 8" or "grade nine" or "grade 9" or "grade ten" or "grade 10" or "grade eleven" or "grade 11" or "grade twelve" or "grade 12" or "sixth grade*" or "6th grade*" or "seventh grade*" or "7th grade*" or "eighth grade*" or "8th grade*" or "ninth grade*" or "9th grade*" or "tenth grade*" or "10th grade*" or "eleventh grade*" or "11th grade*" or "twelfth grade*" or "12th grade*"):ti,ab 2175

#18 {or #6-#17} 73823

#19 #5 and #18 93

#20 "clinicaltrials.gov":so 127837

#21 #19 not #20 84

#22 "conference":pt 124181

#23 #21 not #22 79

#24 #21 not #22 in Cochrane Reviews, Cochrane Protocols 2

Cochrane Reviews 2	Cochrane Protocols 0	Trials 0	Editorials 0	More ▼
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2 Cochrane Reviews matching on "#24 - #21 not #22" in Cochrane Reviews, Cochrane Protocols'
 Did you mean: *knot noct nota*

Cochrane Database of Systematic Reviews
 Issue 11 of 12, November 2018

10.1.4 Database name: EmbaseDatabase(s): **Embase** 1974 to 2018 November 14

Search Strategy:

#	Searches	Results
1	((smoking* or smoke* or tobacco* or nicotin* or cigar* or cigs) adj3 (incentive* or incentiviz* or incentivis* or reward* or prize* or voucher* or lotter* or raffle* or gift* or inducement* or motivat* or cash or money* or monetar* or finance* or financial* or competition* or contest*)).ti,ab.	3933
2	((Smokefree* or smoke-free* or "smoke free") adj3 (incentive* or incentiviz* or incentivis* or reward* or prize* or voucher* or lotter* or raffle* or gift* or inducement* or motivat* or cash or money* or monetar* or finance* or financial* or policy* or policies*)).ti,ab.	984
3	((Smokefree* or smoke-free* or smoke free*) and (competition* or contest*)).ti,ab.	47
4	or/1-3	4900
5	school/	58283
6	high school/	16545
7	middle school/	1306
8	school health service/	12341
9	school child/	329847
10	student/	97871
11	college student/	13845
12	elementary student/	1165
13	high school student/	6271
14	middle school student/	1059
15	adolescent smoking/	1629
16	school health nursing/	4976
17	school teacher/	750

18 teacher/	29707
19 teaching assistant/	43
20 curriculum/	77751
21 teaching/	82031
22 (school* or academy or academies or "city technology*" or "sixth form*" or "6th form" or "education cent*" or "secure unit*" or "training unit*" or "secure training*" or "referral unit*" or "offender institute*" or "pupil referral*" or college* or "further education*" or "junior high").ti,ab.	599102
23 (pupil* or student* or teacher* or classroom* or class or classes or teaching assistant* or headteacher* or curricular*).ti,ab.	979148
24 (("personal social health" adj1 education*) or PSHE).ti,ab.	24
25 ("whole-school*" or wholeschool* or "whole school*").ti,ab.	293
26 ("year seven" or "year 7" or "year eight" or "year 8" or "year nine" or "year 9" or "year ten" or "year 10" or "year eleven" or "year 11" or "year twelve" or "year 12" or "year thirteen" or "year 13" or "key stage three" or "key stage 3" or "key stage four" or "key stage 4" or "grade six" or "grade 6" or "grade seven" or "grade 7" or "grade eight" or "grade 8" or "grade nine" or "grade 9" or "grade ten" or "grade 10" or "grade eleven" or "grade 11" or "grade twelve" or "grade 12" or "sixth grade*" or "6th grade*" or "seventh grade*" or "7th grade*" or "eighth grade*" or "8th grade*" or "ninth grade*" or "9th grade*" or "tenth grade*" or "10th grade*" or "eleventh grade*" or "11th grade*" or "twelfth grade*" or "12th grade*").ti,ab.	21756
27 or/5-26	1819165
28 4 and 27	680
29 nonhuman/ not (human/ and nonhuman/)	4256306
30 28 not 29	658
31 (letter or editorial).pt.	1628380
32 30 not 31	652

33	(conference abstract or conference paper or conference proceeding or "conference review").pt.	3972145
34	32 not 33	568
35	limit 34 to medline	205
36	34 not 35	363
37	limit 36 to english language	331
38	limit 37 to yr="2008 -Current"	212

10.1.5 Database name: Educational Resources Information Center (ERIC)

Set#	Searched for	Databases	Results
S1	TI,AB((smoking* or smoke* or tobacco* or nicotin* or cigar* or cigs) and (incentive* or incentiviz* or incentivis* or reward* or prize* or voucher* or lotter* or raffle* or gift* or inducement* or motivat* or cash or money* or monetar* or finance* or financial* or competition* or contest*))	ERIC	453
S2	TI,AB((Smokefree* or smoke-free* or "smoke free") and (incentive* or incentiviz* or incentivis* or reward* or prize* or voucher* or lotter* or raffle* or gift* or inducement* or motivat* or cash or money* or monetar* or finance* or financial* or policy* or policies*))	ERIC	52
S3	TI,AB((Smokefree* or smoke-free* or smoke free*) and (competition* or contest*))	ERIC	0
S4	S1 or s2 or s3	ERIC	498
S5	MAINSUBJECT.EXACT("Smoking")	ERIC	3780
S6	MAINSUBJECT.EXACT("Competition") OR MAINSUBJECT.EXACT("Incentives") OR MAINSUBJECT.EXACT("Rewards")	ERIC	14318
S7	s5 and s6	ERIC	26
S8	s4 or s7	ERIC	500
S9	(s4 or s7) AND pd(20080101-20181231)	ERIC	186

10.1.6 Database name: Health Management Information Consortium (HMIC)

Database(s): **HMIC Health Management Information Consortium** 1979 to September 2018

Search Strategy:

#	Searches	Results
1	((smoking* or smoke* or tobacco* or nicotin* or cigar* or cigs) adj3 (incentive* or incentiviz* or incentivis* or reward* or prize* or voucher* or lotter* or raffle* or gift* or inducement* or motivat* or cash or money* or monetar* or finance* or financial* or competition* or contest*)).ti,ab.	147
2	(smoking* or smoke* or tobacco* or nicotin* or cigar* or cigs).sh.	5872
3	((Smokefree* or smoke-free* or "smoke free") adj3 (incentive* or incentiviz* or incentivis* or reward* or prize* or voucher* or lotter* or raffle* or gift* or inducement* or motivat* or cash or money* or monetar* or finance* or financial* or policy* or policies*)).ti,ab.	70
4	(Smokefree* or smoke-free* or "smoke free").sh.	149
5	((Smokefree* or smoke-free* or smoke free*) and (competition* or contest*)).ti,ab.	4
6	or/1-5	5886
7	(school* or academy or academies or "city technology*" or "sixth form*" or "6th form" or "education cent*" or "secure unit*" or "training unit*" or "secure training*" or "referral unit*" or "offender institute*" or "pupil referral*" or college* or "further education*" or "junior high").ti,ab.	13432
8	(school* or academy or academies or "city technology*" or "sixth form*" or "6th form" or "education cent*" or "secure unit*" or "training unit*" or "secure training*" or "referral unit*" or "offender institute*" or "pupil referral*" or college* or "further education*" or "junior high").sh.	3078
9	(pupil* or student* or teacher* or classroom* or class or classes or teaching assistant* or headteacher* or curricul*).ti,ab.	12869
10	(pupil* or student* or teacher* or classroom* or class or classes or teaching assistant* or headteacher* or curricul*).sh.	3557
11	(("personal social health" adj1 education*) or PSHE).ti,ab.	21
12	("personal social health" or PSHE).sh.	0

13 ("whole-school*" or wholeschool* or "whole school*").ti,ab.	50
14 ("whole-school*" or wholeschool* or "whole school*").sh.	0
<p>("year seven" or "year 7" or "year eight" or "year 8" or "year nine" or "year 9" or "year ten" or "year 10" or "year eleven" or "year 11" or "year twelve" or "year 12" or "year thirteen" or "year 13" or "key stage three" or "key stage 3" or "key stage four" or "key stage 4" or "grade six" or "grade 6" or "grade seven" or "grade 7" or "grade eight" or "grade 8" or "grade nine" or "grade 9" or "grade ten" or "grade 10" or "grade eleven" or "grade 11" or "grade twelve" or "grade 12" or "sixth grade*" or "6th grade*" or "seventh grade*" or "7th grade*" or "eighth grade*" or "8th grade*" or "ninth grade*" or "9th grade*" or "tenth grade*" or "10th grade*" or "eleventh grade*" or "11th grade*" or "twelfth grade*" or "12th grade*").ti,ab.</p>	307
<p>("year seven" or "year 7" or "year eight" or "year 8" or "year nine" or "year 9" or "year ten" or "year 10" or "year eleven" or "year 11" or "year twelve" or "year 12" or "year thirteen" or "year 13" or "key stage three" or "key stage 3" or "key stage four" or "key stage 4" or "grade six" or "grade 6" or "grade seven" or "grade 7" or "grade eight" or "grade 8" or "grade nine" or "grade 9" or "grade ten" or "grade 10" or "grade eleven" or "grade 11" or "grade twelve" or "grade 12" or "sixth grade*" or "6th grade*" or "seventh grade*" or "7th grade*" or "eighth grade*" or "8th grade*" or "ninth grade*" or "9th grade*" or "tenth grade*" or "10th grade*" or "eleventh grade*" or "11th grade*" or "twelfth grade*" or "12th grade*").sh.</p>	0
17 or/7-16	24078
18 6 and 17	670
19 limit 18 to yr="2008 -Current"	215

10.1.7 Database name: MEDLINEDatabase(s): **Ovid MEDLINE(R)** 1946 to November 14, 2018

Search Strategy:

#	Searches	Results
1	Smoke-Free Policy/	665
2	((smoking* or smoke* or tobacco* or nicotin* or cigar* or cigs) adj3 (incentive* or incentiviz* or incentivis* or reward* or prize* or voucher* or lotter* or raffle* or gift* or inducement* or motivat* or cash or money* or monetar* or finance* or financial* or competition* or contest*)).ti,ab.	2925
3	((Smokefree* or smoke-free* or "smoke free") adj3 (incentive* or incentiviz* or incentivis* or reward* or prize* or voucher* or lotter* or raffle* or gift* or inducement* or motivat* or cash or money* or monetar* or finance* or financial* or policy* or policies*)).ti,ab.	811
4	((Smokefree* or smoke-free* or smoke free*) and (competition* or contest*)).ti,ab.	41
5	or/1-4	4143
6	Schools/	33652
7	school health services/	16236
8	students/	50812
9	school nursing/	5075
10	school teachers/	713
11	curriculum/	69522
12	teaching/	47171
13	(school* or academy or academies or "city technology*" or "sixth form*" or "6th form" or "education cent*" or "secure unit*" or "training unit*" or "secure training*" or "referral unit*" or "offender institute*" or "pupil referral*" or college* or "further education*" or "junior high").ti,ab.	321407
14	(pupil* or student* or teacher* or classroom* or class or classes or teaching assistant* or headteacher* or curricul*).ti,ab.	681872

15 ("personal social health" adj1 education*) or PSHE).ti,ab.	15
16 ("whole-school*" or wholeschool* or "whole school*").ti,ab.	183
17 ("year seven" or "year 7" or "year eight" or "year 8" or "year nine" or "year 9" or "year ten" or "year 10" or "year eleven" or "year 11" or "year twelve" or "year 12" or "year thirteen" or "year 13" or "key stage three" or "key stage 3" or "key stage four" or "key stage 4" or "grade six" or "grade 6" or "grade seven" or "grade 7" or "grade eight" or "grade 8" or "grade nine" or "grade 9" or "grade ten" or "grade 10" or "grade eleven" or "grade 11" or "grade twelve" or "grade 12" or "sixth grade*" or "6th grade*" or "seventh grade*" or "7th grade*" or "eighth grade*" or "8th grade*" or "ninth grade*" or "9th grade*" or "tenth grade*" or "10th grade*" or "eleventh grade*" or "11th grade*" or "twelfth grade*" or "12th grade*").ti,ab.	14796
18 or/6-17	972534
19 5 and 18	502
20 Animals/ not (Animals/ and Humans/)	4482264
21 19 not 20	493
22 limit 21 to (letter or historical article or comment or editorial or news or case reports)	8
23 21 not 22	485
24 limit 23 to english language	435
25 limit 24 to yr="2008 -Current"	298

10.1.8 Database name: MEDLINE-in-Process (including Epub Ahead-of-Print)

Database(s): **Ovid MEDLINE(R) Epub Ahead of Print** November 14, 2018, **Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations** November 14, 2018

Search Strategy:

#	Searches	Results
1	((smoking* or smoke* or tobacco* or nicotin* or cigar* or cigs) adj3 (incentive* or incentiviz* or incentivis* or reward* or prize* or voucher* or lotter* or raffle* or gift* or inducement* or motivat* or cash or money* or monetar* or finance* or financial* or competition* or contest*)).ti,ab.	366
2	((Smokefree* or smoke-free* or "smoke free") adj3 (incentive* or incentiviz* or incentivis* or reward* or prize* or voucher* or lotter* or raffle* or gift* or inducement* or motivat* or cash or money* or monetar* or finance* or financial* or policy* or policies*)).ti,ab.	114
3	((Smokefree* or smoke-free* or smoke free*) and (competition* or contest*)).ti,ab.	6
4	or/1-3	479
5	(school* or academy or academies or "city technology*" or "sixth form*" or "6th form" or "education cent*" or "secure unit*" or "training unit*" or "secure training*" or "referral unit*" or "offender institute*" or "pupil referral*" or college* or "further education*" or "junior high").ti,ab.	53715
6	(pupil* or student* or teacher* or classroom* or class or classes or teaching assistant* or headteacher* or curricul*).ti,ab.	112759
7	("personal social health" adj1 education*) or PSHE).ti,ab.	2
8	("whole-school*" or wholeschool* or "whole school*").ti,ab.	21
9	("year seven" or "year 7" or "year eight" or "year 8" or "year nine" or "year 9" or "year ten" or "year 10" or "year eleven" or "year 11" or "year twelve" or "year 12" or "year thirteen" or "year 13" or "key stage three" or "key stage 3" or "key stage four" or "key stage 4" or "grade six" or "grade 6" or "grade seven" or "grade 7" or "grade eight" or "grade 8" or "grade nine" or "grade 9" or "grade ten" or "grade 10" or "grade eleven" or "grade 11" or "grade twelve" or "grade 12" or "sixth grade*" or "6th grade*" or "seventh grade*" or "7th grade*" or "eighth grade*" or "8th grade*" or "ninth grade*" or "9th grade*" or "tenth grade*" or "10th grade*" or "eleventh grade*" or "11th grade*" or "twelfth grade*" or "12th grade*").ti,ab.	2174

10 or/5-9	149664
11 4 and 10	72
12 limit 11 to english language	70
13 limit 12 to yr="2008 -Current"	64

10.1.9 Database name: PsycINFODatabase(s): **PsycINFO** 1806 to November Week 2 2018

Search Strategy:

#	Searches	Results
1	((smoking* or smoke* or tobacco* or nicotin* or cigar* or cigs) adj3 (incentive* or incentiviz* or incentivis* or reward* or prize* or voucher* or lotter* or raffle* or gift* or inducement* or motivat* or cash or money* or monetar* or finance* or financial* or competition* or contest*)).ti,ab.	2240
2	((Smokefree* or smoke-free* or "smoke free") adj3 (incentive* or incentiviz* or incentivis* or reward* or prize* or voucher* or lotter* or raffle* or gift* or inducement* or motivat* or cash or money* or monetar* or finance* or financial* or policy* or policies*)).ti,ab.	421
3	((Smokefree* or smoke-free* or smoke free*) and (competition* or contest*)).ti,ab.	25
4	or/1-3	2658
5	School Based Intervention/	16797
6	schools/	28346
7	boarding schools/	265
8	high schools/	6427
9	middle schools/	3894
10	technical schools/	361
11	Charter schools/	629
12	school environment/	11859
13	classroom environment/	8289
14	school facilities/	297
15	classrooms/	15014
16	School Nurses/	818
17	Students/	22208

18 College Students/	72055
19 Community College Students/	1731
20 Junior College Students/	231
21 Middle School Students/	7999
22 High School Students/	30432
23 Junior High School Students/	11468
24 teachers/	38331
25 middle school teachers/	863
26 high school teachers/	3887
27 college teachers/	7783
28 exp School Administrators/	12178
29 Teacher Aides/	258
30 curriculum/	24885
31 teaching/	41709
32 (school* or academy or academies or "city technology*" or "sixth form*" or "6th form" or "education cent*" or "secure unit*" or "training unit*" or "secure training*" or "referral unit*" or "offender institute*" or "pupil referral*" or college* or "further education*" or "junior high").ti,ab.	481890
33 (pupil* or student* or teacher* or classroom* or class or classes or teaching assistant* or headteacher* or curricul*).ti,ab.	686745
34 (("personal social health" adj1 education*) or PSHE).ti,ab.	21
35 ("whole-school*" or wholeschool* or "whole school*").ti,ab.	939
36 ("year seven" or "year 7" or "year eight" or "year 8" or "year nine" or "year 9" or "year ten" or "year 10" or "year eleven" or "year 11" or "year twelve" or "year 12" or "year thirteen" or "year 13" or "key stage three" or "key stage 3" or "key stage four" or "key stage 4" or "grade six" or "grade 6" or "grade seven" or "grade 7" or "grade eight" or "grade 8" or	44179

"grade nine" or "grade 9" or "grade ten" or "grade 10" or "grade eleven" or "grade 11" or "grade twelve" or "grade 12" or "sixth grade*" or "6th grade*" or "seventh grade*" or "7th grade*" or "eighth grade*" or "8th grade*" or "ninth grade*" or "9th grade*" or "tenth grade*" or "10th grade*" or "eleventh grade*" or "11th grade*" or "twelfth grade*" or "12th grade*").ti,ab.

37 or/5-36	902612
38 4 and 37	302
39 limit 38 to ("column/opinion" or editorial or letter)	4
40 38 not 39	298
41 limit 40 to animal	9
42 40 not 41	289
43 limit 42 to english language	270
44 limit 43 to yr="2008-Current"	162

10.1.10 Database name: Social Policy and Practice (SPP)Database(s): **Social Policy and Practice** 201810

Search Strategy:

#	Searches	Results
1	((smoking* or smoke* or tobacco* or nicotin* or cigar* or cigs) adj3 (incentive* or incentiviz* or incentivis* or reward* or prize* or voucher* or lotter* or raffle* or gift* or inducement* or motivat* or cash or money* or monetar* or finance* or financial* or competition* or contest*)) .ti,ab.	8
2	(smoking* or smoke* or tobacco* or nicotin* or cigar* or cigs).sh.	1071
3	((Smokefree* or smoke-free* or "smoke free") adj3 (incentive* or incentiviz* or incentivis* or reward* or prize* or voucher* or lotter* or raffle* or gift* or inducement* or motivat* or cash or money* or monetar* or finance* or financial* or policy* or policies*)) .ti,ab.	11
4	(Smokefree* or smoke-free* or "smoke free").sh.	15
5	((Smokefree* or smoke-free* or smoke free*) and (competition* or contest*)) .ti,ab.	0
6	or/1-5	1074
7	(school* or academy or academies or "city technology*" or "sixth form*" or "6th form" or "education cent*" or "secure unit*" or "training unit*" or "secure training*" or "referral unit*" or "offender institute*" or "pupil referral*" or college* or "further education*" or "junior high") .ti,ab.	24898
8	(school* or academy or academies or "city technology*" or "sixth form*" or "6th form" or "education cent*" or "secure unit*" or "training unit*" or "secure training*" or "referral unit*" or "offender institute*" or "pupil referral*" or college* or "further education*" or "junior high") .sh.	14823
9	(pupil* or student* or teacher* or classroom* or class or classes or teaching assistant* or headteacher* or curricular*) .ti,ab.	21519
10	(pupil* or student* or teacher* or classroom* or class or classes or teaching assistant* or headteacher* or curricular*) .sh.	11000
11	("personal social health" adj1 education*) or PSHE) .ti,ab.	80
12	("personal social health" or PSHE) .sh.	76

13 ("whole-school*" or wholeschool* or "whole school*").ti,ab.	268
14 ("whole-school*" or wholeschool* or "whole school*").sh.	1
<p>("year seven" or "year 7" or "year eight" or "year 8" or "year nine" or "year 9" or "year ten" or "year 10" or "year eleven" or "year 11" or "year twelve" or "year 12" or "year thirteen" or "year 13" or "key stage three" or "key stage 3" or "key stage four" or "key stage 4" or "grade six" or "grade 6" or "grade seven" or "grade 7" or "grade eight" or "grade 8" or "grade nine" or "grade 9" or "grade ten" or "grade 10" or "grade eleven" or "grade 11" or "grade twelve" or "grade 12" or "sixth grade*" or "6th grade*" or "seventh grade*" or "7th grade*" or "eighth grade*" or "8th grade*" or "ninth grade*" or "9th grade*" or "tenth grade*" or "10th grade*" or "eleventh grade*" or "11th grade*" or "twelfth grade*" or "12th grade*").ti,ab.</p>	478
<p>("year seven" or "year 7" or "year eight" or "year 8" or "year nine" or "year 9" or "year ten" or "year 10" or "year eleven" or "year 11" or "year twelve" or "year 12" or "year thirteen" or "year 13" or "key stage three" or "key stage 3" or "key stage four" or "key stage 4" or "grade six" or "grade 6" or "grade seven" or "grade 7" or "grade eight" or "grade 8" or "grade nine" or "grade 9" or "grade ten" or "grade 10" or "grade eleven" or "grade 11" or "grade twelve" or "grade 12" or "sixth grade*" or "6th grade*" or "seventh grade*" or "7th grade*" or "eighth grade*" or "8th grade*" or "ninth grade*" or "9th grade*" or "tenth grade*" or "10th grade*" or "eleventh grade*" or "11th grade*" or "twelfth grade*" or "12th grade*").sh.</p>	13
17 or/7-16	40164
18 6 and 17	163
19 limit 18 to yr="2008 -Current"	45

10.1.11 Database name: Sociological Abstracts

Set#	Searched for	Databases	Results
S1	TI,AB((smoking* or smoke* or tobacco* or nicotin* or cigar* or cigs) and (incentive* or incentiviz* or incentivis* or reward* or prize* or voucher* or lotter* or raffle* or gift* or inducement* or motivat* or cash or money* or monetar* or finance* or financial* or competition* or contest*))	Sociological Abstracts	1045
S2	TI,AB((Smokefree* or smoke-free* or "smoke free") and (incentive* or incentiviz* or incentivis* or reward* or prize* or voucher* or lotter* or raffle* or gift* or inducement* or motivat* or cash or money* or monetar* or finance* or financial* or policy* or policies*))	Sociological Abstracts	91
S3	TI,AB((Smokefree* or smoke-free* or smoke free*) and (competition* or contest*))	Sociological Abstracts	3
S4	S1 or s2 or s3	Sociological Abstracts	1127
S5	MAINSUBJECT.EXACT("Schools") OR MAINSUBJECT.EXACT("School Environment") OR MAINSUBJECT.EXACT("Junior High School Students") OR MAINSUBJECT.EXACT("High School Students") OR MAINSUBJECT.EXACT("Junior High Schools") OR MAINSUBJECT.EXACT("Private Schools") OR MAINSUBJECT.EXACT("Secondary Schools") OR MAINSUBJECT.EXACT("High Schools") OR MAINSUBJECT.EXACT("Public Schools") OR MAINSUBJECT.EXACT("Classroom Environment") OR MAINSUBJECT.EXACT("Teachers") OR MAINSUBJECT.EXACT("Teaching") OR MAINSUBJECT.EXACT("Curriculum")	Sociological Abstracts	51864
S6	TI,AB(school* or academy or academies or "city technology*" or "sixth form*" or "6th form" or "education cent*" or "secure unit*" or "training unit*" or "secure training*" or "referral unit*" or "offender institute*" or "pupil referral*" or college* or "further education*" or "junior high" or pupil* or student* or teacher* or classroom* or class or classes or teaching assistant* or headteacher* or curricul* or PSHE or "whole-school*" or wholeschool* or "whole school*")	Sociological Abstracts	286144
S7	TI,AB("year seven" or "year 7" or "year eight" or "year 8" or "year nine" or "year 9" or "year ten" or "year 10" or "year eleven" or "year 11" or "year twelve" or "year 12" or "year thirteen" or "year 13" or "key stage three" or "key stage 3" or "key stage four" or "key stage 4" or "grade six" or "grade 6" or "grade seven" or "grade 7" or "grade eight" or	Sociological Abstracts	7807

	"grade 8" or "grade nine" or "grade 9" or "grade ten" or "grade 10" or "grade eleven" or "grade 11" or "grade twelve" or "grade 12" or "sixth grade*" or "6th grade*" or "seventh grade*" or "7th grade*" or "eighth grade*" or "8th grade*" or "ninth grade*" or "9th grade*" or "tenth grade*" or "10th grade*" or "eleventh grade*" or "11th grade*" or "twelfth grade*" or "12th grade*")		
S8	s5 or s6 or s7	Sociological Abstracts	292668
S9	s4 and s8	Sociological Abstracts	216
S10	s4 and s8 and pd(20080101-20181231)	Sociological Abstracts	81

10.2 Supplementary search techniques

10.2.1 Relevant includes from PH23

Relevant studies included in PH23 were added to the search results.

Etter, J.-F. & Bouvier, P. 2006, "Some doubts about one of the largest smoking prevention programmes in Europe, the smokefree class competition", *Journal of epidemiology and community health*, vol. 60, no. 9, pp. 757-759.

Schulze A, Mons U, Edler L, Pötschke-Langer M. Lack of sustainable prevention effect of the "Smoke-Free Class Competition" on German pupils. *Prev Med* 2006; 42(1):33-39

Vartiainen, E., Saukko, A., Paavola, M., & Vertio, H. 1996, "'No Smoking Class' competitions in Finland: Their value in delaying the onset of smoking in adolescence", *Health Promotion International*, vol. 11, no. 3, pp. 189-192

Records obtained from WOS

Total added = 3

10.2.2 Surveillance reviews

Relevant studies included in the surveillance reviews for PH23 were added to the search results.

Isensee B, Morgenstern M, Stoolmiller M et al. (2012) Effects of Smokefree Class Competition 1 year after the end of intervention: a cluster randomised controlled trial. *Journal of Epidemiology & Community Health* 66: 334–341

Isensee B, Hanewinkle R. (2012) "Meta-analysis on effects of Smoke Free Class competition on smoking prevention in adolescents", *European Addiction Research* 18: 110-115

Johnston V, Liberato S, Thomas D. (2012) "Incentives for preventing smoking in children and adolescents," *Cochrane database of systematic reviews* 17;10:CD008645.

Mercken L, Moore L, Crone MR et al. (2012) The effectiveness of school-based smoking prevention interventions among low- and high-SES European teenagers. *Health Education Research* 27: 459–69

Records obtained from WOS

Total added = 4

10.2.3 Scoping searches

Studies identified from reading the Cochrane review (Johnston et al., 2012) during scoping were added to the search results.

Crone MR, Reijneveld SA, Willemsen MC et al. (2003) Prevention of smoking in adolescents with lower education: a school based intervention study. *Journal of Epidemiology and Community Health* 57: 675–80

- Hanewinkel R, Wiborg G, Paavola M, Vartiainen E. European smoke-free competition. *Tobacco Control* 1998;7(3):326.
- Hanewinkel R, Wiborg G. Primary and secondary prevention of smoking in adolescents: Results of the campaign "be smart - don't start". *Gesundheitswesen* 2002;64(8-9):492-8.
- Hanewinkel R, Wiborg G. School-based smoking prevention: Results of a prospective controlled trial. *Sucht: Zeitschrift für Wissenschaft und Praxis* 2003;49(6):333-41.
- Hanewinkel R, Isensee B, Maruska K, Sargent JD, Morgenstern M. Denormalising smoking in the classroom: does it cause bullying?. *Journal of Epidemiology and Community Health* 2010;64:202-8
- Hanewinkel R, Wiborg G, Isensee B, Nebot M, Vartiainen E. "Smoke-free Class Competition": far-reaching conclusions based on weak data. *Preventive Medicine* 2006;43(2):150-1
- Hoeflmayr D, Hanewinkel R. Do school-based tobacco prevention programmes pay off? The cost-effectiveness of the 'Smoke-free Class Competition'. *Public Health* 2008;122(1):34-41.
- Kairouz S, O'Loughlin J, Laguë J. Adverse effects of a social contract smoking prevention program among children in Quebec, Canada. *Tobacco Control* 2009;18(6):474-8.
- Potschke-Langer M, Edler L, Mons U. "Smoke-free Class Competition": A reply to the initiators of the program. *Preventive Medicine* 2006; Vol. 43, issue 2:151-3.
- Schulze A, Mons U, Edler L, Potschke-Langer M. "Smoke-free class competition: A reply to the initiators of the program": Erratum. *Preventive Medicine* 2007; Vol. 44, issue 2:183.
- Schulze A, Mons U, Edler L, Potschke-Langer M. Lack of sustainable prevention effect of the "Smoke-Free Class Competition" on German pupils. *Preventive Medicine* 2006; 42(1):33-9.
- Vartiainen E, Saukko A, Paavola M, Vertio H. "No Smoking Class" competitions in Finland: their value in delaying the onset of smoking in adolescence. *Health Promotion International* 1996;11:189-92.
- Wiborg G, Hanewinkel R. Effectiveness of the "Smoke-Free Class Competition" in delaying the onset of smoking in adolescence. *Preventive Medicine* 2002;35(3):241-9.
- Wiborg G, Hanewinkel R, Kliche KO. Be Smart Don't Start campaign to prevent children from starting to smoke: an analysis according to type of school they attend. *Deutsche Medizinische Wochenschrift* 2002;127:430-36.

13 Records obtained from WOS; *Sucht: Zeitschrift für Wissenschaft und Praxis* added manually

Total added = 14

10.2.4 Reference harvesting

The reference lists of the relevant studies included in PH23, the surveillance reviews for PH23 and the scoping search were added to the search results using Web of Science. Only those references that could be accessed through the NICE subscription to WOS were added to the search results, using the Web of Science Core Collection (1990-present). Duplicates were removed from the marked list in WOS before downloading the results. The surveillance and scoping papers published before 2008 were excluded from this list (they obviously couldn't have references published in 2008 or later).

References were harvested from these 6 papers on 16 November 2018 using "Web of Science Core Collection (1990-present)":

Hanewinkel R, Isensee B, Maruska K, Sargent JD, Morgenstern M. Denormalising smoking in the classroom: does it cause bullying?. *Journal of Epidemiology and Community Health* 2010;64:202-8 24 cited references

Hoeflmayr D, Hanewinkel R. Do school-based tobacco prevention programmes pay off? The cost-effectiveness of the 'Smoke-free Class Competition'. *Public Health* 2008;122(1):34-41. 35 cited references

Isensee B, Morgenstern M, Stoolmiller M et al. (2012) Effects of Smokefree Class Competition 1 year after the end of intervention: a cluster randomised controlled trial. *Journal of Epidemiology & Community Health* 66: 334–341 30 cited references

Isensee B, Hanewinkel R. (2012) "Meta-analysis on effects of Smoke Free Class competition on smoking prevention in adolescents", *European Addiction Research* 18: 110-115 30 cited references

Kairouz S, O'Loughlin J, Laguë J. Adverse effects of a social contract smoking prevention program among children in Quebec, Canada. *Tobacco Control* 2009;18(6):474–8. 5 cited references

Mercken L, Moore L, Crone MR et al. (2012) The effectiveness of school-based smoking prevention interventions among low- and high-SES European teenagers. *Health Education Research* 27: 459–69 24 cited references

Total added to marked list = 89 citations

Total downloaded = 79

10.2.5 Forward citation searching - surveillance

Forward citation searching was done using the relevant studies included in PH23, the surveillance reviews for PH23 and the scoping search. Only those references that could be accessed through the NICE subscription to WOS were added to the search results, using the Web of Science Core Collection

(1990-present). Duplicates were removed from the marked list in WOS before downloading the results.

Forward citation searching was done on these 19 papers on 16 November 2018 using "Web of Science Core Collection (1990-present)":

Crone MR, Reijneveld SA, Willemsen MC et al. (2003) Prevention of smoking in adolescents with lower education: a school based intervention study. *Journal of Epidemiology and Community Health* 57: 675–80 Times cited 67

Etter, J.-F. & Bouvier, P. 2006, "Some doubts about one of the largest smoking prevention programmes in Europe, the smokefree class competition", *Journal of epidemiology and community health*, vol. 60, no. 9, pp. 757-759. Times cited 17

Hanewinkel R, Wiborg G, Paavola, M, Vartiainen E. European smoke-free competition. *Tobacco Control* 1998;7(3):326. Times cited 14

Hanewinkel R, Wiborg G. Primary and secondary prevention of smoking in adolescents: Results of the campaign "be smart - don't start". *Gesundheitswesen* 2002;64(8-9):492-8. Times cited 17

Hanewinkel R, Wiborg G. School-based smoking prevention: Results of a prospective controlled trial. *Sucht: Zeitschrift für Wissenschaft und Praxis* 2003;49(6):333-41. Times cited 9

Hanewinkel R, Isensee B, Maruska K, Sargent JD, Morgenstern M. Denormalising smoking in the classroom: does it cause bullying?. *Journal of Epidemiology and Community Health* 2010;64:202-8 Times cited 10

Hanewinkel R, Wiborg G, Isensee B, Nebot M, Vartiainen E. "Smoke-free Class Competition": far-reaching conclusions based on weak data. *Preventive Medicine* 2006;43(2):150-1 Times cited 15

Hoeflmayr D, Hanewinkel R. Do school-based tobacco prevention programmes pay off? The cost-effectiveness of the 'Smoke-free Class Competition'. *Public Health* 2008;122(1):34-41. Times cited 21

Isensee B, Morgenstern M, Stoolmiller M et al. (2012) Effects of Smokefree Class Competition 1 year after the end of intervention: a cluster randomised controlled trial. *Journal of Epidemiology & Community Health* 66: 334–341 Times cited 15

Isensee B, Hanewinkel R. (2012) "Meta-analysis on effects of Smoke Free Class competition on smoking prevention in adolescents", *European Addiction Research* 18: 110-115 Times cited 27

Johnston V, Liberato S, Thomas D. (2012) "Incentives for preventing smoking in children and adolescents," *Cochrane database of systematic reviews* 17;10:CD008645. Times cited 15

Kairouz S, O'Loughlin J, Lague J. Adverse effects of a social contract smoking prevention program among children in Quebec, Canada. *Tobacco Control* 2009;18(6):474–8. Times cited 5

Mercken L, Moore L, Crone MR et al. (2012) The effectiveness of school-based smoking prevention interventions among low- and high-SES European teenagers. *Health Education Research* 27: 459–69 Times cited 11

Potschke-Langer M, Edler L, Mons U. "Smoke-free Class Competition": A reply to the initiators of the program. *Preventive Medicine* 2006; Vol. 43, issue 2:151-3. Times cited 3

Schulze A, Mons U, Edler L, Potschke-Langer M. "Smoke-free class competition: A reply to the initiators of the program": Erratum. *Preventive Medicine* 2007; Vol. 44, issue 2:183. Times cited 2

Schulze A, Mons U, Edler L, Potschke-Langer M. Lack of sustainable prevention effect of the "Smoke-Free Class Competition" on German pupils. *Preventive Medicine* 2006; 42(1):33–9. Times cited x

Vartiainen E, Saukko A, Paavola M, Vertio H. "No Smoking Class" competitions in Finland: their value in delaying the onset of smoking in adolescence. *Health Promotion International* 1996;11:189-92. Times cited 30

Wiborg G, Hanewinkel R. Effectiveness of the "Smoke-Free Class Competition" in delaying the onset of smoking in adolescence. *Preventive Medicine* 2002;35(3):241-9. Times cited 36

Wiborg G, Hanewinkel R, Kliche, KO. Be Smart Don't Start campaign to prevent children from starting to smoke: an analysis according to type of school they attend. *Deutsche Medizinische Wochenschrift* 2002;127:430-36. Times cited 18

Total added to marked list = 152 citations

Total downloaded = 152

10.2.6 Additional citation searching

An additional level of citation searching was performed after going through the 152 items in the marked list from forward citation searching to identify any papers on smoking prevention in schools. These were then used for additional forward citation searching and reference harvesting. Only those references that could be accessed through the NICE subscription to WOS were added to the search results, using the Web of Science Core Collection (1990-present). Duplicates were removed from the marked list in WOS before downloading the results.

Forward citation searching was done on these 24 papers on 16 November 2018:

The Effect of a "Class Smoke Free Pledge" on Breath Carbon Monoxide in Arabic Male Adolescents

Long-term effects of a school-based prevention program

A Medical Student-Delivered Smoking Prevention Program, Education Against Tobacco, for Secondary Schools in Germany: Randomized Controlled Trial

Long-term effectiveness of a combined studentparent and a student-only smoking prevention intervention among 7th grade school children in Berlin, Germany

"Class smoke-free" pledge impacts on nicotine dependence in male adolescents: A cluster randomized controlled trial

Effects of a randomized controlled trial to assess the six-months effects of a school based smoking prevention program in Saudi Arabia

Effects of a settings-based intervention to promote student wellbeing and reduce smoking in vocational schools: A non-randomized controlled study

Effects of the X:IT smoking intervention: a school-based cluster randomized trial

Socioeconomic gradients in the effects of universal school-based health behaviour interventions: a systematic review of intervention studies

A longitudinal study on determinants of the intention to start smoking among Non-smoking boys and girls of high and low socioeconomic status

Education Against Tobacco (EAT): a quasi-experimental prospective evaluation of a multinational medical-student-delivered smoking prevention programme for secondary schools in Germany

Effectiveness of school-based smoking prevention curricula: systematic review and meta-analysis

Evaluation of a tobacco prevention programme among teenagers in Sweden

Does smoking within an individual's peer group affect intervention effectiveness? An evaluation of the Smoke-Free Class Competition among Swiss adolescents

Does It Matter What Friends Think, Say, or Do? The Role of Friends' Smoking Attitudes and Behavior for Dutch Adolescents' Smoking Behavior

School-based programmes for preventing smoking

Denormalization of Smoking in a Prevention Programme and Bullying

The Effect of the School-Based Unplugged Preventive Intervention on Tobacco Use in the Czech Republic

A school-based resilience intervention to decrease tobacco, alcohol and marijuana use in high school students

Competitions and incentives for smoking cessation

Cost-benefit analysis of a school-based smoking prevention program

School-related mediators in social inequalities in smoking: a comparative cross-sectional study of 20,399 adolescents

Long-term effectiveness of behavioural interventions to prevent smoking among children and youth

Some doubts about one of the largest smoking prevention programmes in Europe, the smokefree class competition

779 in the marked list, 751 available through subscription, then deleted pre-2008.

Total downloaded = 465

10.2.7 Authors

Searches were done for additional relevant papers by selected authors of the studies included in PH23, the surveillance reviews for PH23 and the scoping search.

Took the list from "Forward citation searching – surveillance" above and searched for relevant papers by the first two authors. This was done on these authors on 16 November 2018:

Bouvier, P
Crone MR,
Edler L
Etter, J.-F.
Hanewinkel R
Isensee B
Johnston V
Kairouz S
Liberato S
Mercken L
Moore L
Mons U
Morgenstern M
O'Loughlin J
Potschke-Langer M
Reijneveld SA
Saukko A
Schulze A
Vartiainen E
Wiborg G

279 in the marked list, 279 available through subscription, then deleted pre-2008.

Total downloaded = 226

Science Citation Index Expanded (SCI-EXPANDED) --1990-present

Social Sciences Citation Index (SSCI) --1990-present

Arts & Humanities Citation Index (A&HCI) --1990-present

Emerging Sources Citation Index (ESCI) --2015-present

10.3 Web searching

10.3.1 Google search

Additional searches were conducted using Google for any authors or specific projects identified earlier in the search process. It may be necessary to restrict the search results to particular file types (e.g. pdf or Word), to particular countries (e.g. UK), the most recent results (e.g. 2008-current) or to review on screen a limited number pages (e.g. the first 100 results), depending on the number of results retrieved. This will be done in consultation with the review team.

Search engine	
Name	Google
URL	https://www.google.co.uk
Date searched	21 November 2018 and 22 November 2018
Search terms	"Smokefree Class Competition" filetype:pdf site:.org.uk "Smokefree Class Competition" filetype:pdf site:.nhs.uk "Smokefree Class Competition" filetype:pdf site:.gov.uk "Smokefree Class Competition" filetype:pdf site:.ac.uk "Smoke free Class Competition" filetype:pdf site:.org.uk "Smoke free Class Competition" filetype:pdf site:.nhs.uk "Smoke free Class Competition" filetype:pdf site:.gov.uk "Smoke free Class Competition" filetype:pdf site:.ac.uk "Smokefree Competition" filetype:pdf site:.org.uk "Smokefree Competition" filetype:pdf site:.nhs.uk "Smokefree Competition" filetype:pdf site:.gov.uk "Smokefree Competition" filetype:pdf site:.ac.uk "Smoke free Competition" filetype:pdf site:.org.uk "Smoke free Competition" filetype:pdf site:.nhs.uk

	"Smoke free Competition" filetype:pdf site:.gov.uk "Smoke free Competition" filetype:pdf site:.ac.uk "Smokefree school" filetype:pdf site:.org.uk "Smokefree school" filetype:pdf site:.nhs.uk "Smokefree school" filetype:pdf site:.gov.uk "Smokefree school" filetype:pdf site:.ac.uk "Smoke free school" filetype:pdf site:.org.uk "Smoke free school" filetype:pdf site:.nhs.uk "Smoke free school" filetype:pdf site:.gov.uk "Smoke free school" filetype:pdf site:.ac.uk "Smokefree Class Competition" site:https://ec.europa.eu "Smoke free Class Competition" site:https://ec.europa.eu "Smokefree Class Competition" filetype:pdf -site:.uk "Smoke free Class Competition" filetype:pdf -site:.uk "Smokefree Competition" filetype:pdf -site:.uk "Smoke free Competition" filetype:pdf -site:.uk "Smokefree school" filetype:pdf -site:.uk "Smoke free school" filetype:pdf -site:.uk "Smokefree Class Competition" -filetype:pdf -site:.uk "Smoke free Class Competition" -filetype:pdf -site:.uk "Smokefree Competition" -filetype:pdf -site:.uk "Smoke free Competition" -filetype:pdf -site:.uk "Smokefree school" -filetype:pdf -site:.uk "Smoke free school" -filetype:pdf -site:.uk
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<p>How the results were selected</p>	<p>http://www.wales.nhs.uk/documents/smokefree_winners_in_a_class_of_their_own.htm - news article from 2002.</p> <p>https://www.walesonline.co.uk/news/wales-news/were-not-lighting-up-2363972 - just a news article from 2005</p> <p>http://smokefreeclass.blogspot.com/search/label/smokefree%20class – all in Italian and not updated since 2010.</p> <p>Review of Key Welsh Assembly Government Health Improvement Programmes Delivered by the Public Sector 2011 - http://www2.nphs.wales.nhs.uk:8080/NationalHIRDocs.nsf/85c50756737f79ac80256f2700534ea3/0dd8799eea143efc80257a5a002f81bb/\$FILE/Review%20of%20Key%20Welsh%20Assembly%20Government%20Health%20Improvement%20Programmes%20by%20Mansel%20Aylward%20v1.pdf – doesn't add anything to the evidence base, see p27</p> <p>Tobacco and health in Wales 2012 http://www2.nphs.wales.nhs.uk:8080/PubHObservatoryProjDocs.nsf/public/509486BFD300FDEF80257A29003C3C67/\$file/Eng%20Smoking%20Report%20LowRes.pdf – doesn't add any evidence</p> <p>UEA 2016 Educational and psychosocial interventions to prevent uptake of smoking by young people https://ueaeprints.uea.ac.uk/60457/1/Interventions_to_prevent_uptake_of_smoking_by_young_people_full_report_FINAL.pdf - just quotes Insensee, doesn't add anything</p> <p>Studies on the Smokefree Class Competition https://webgate.ec.europa.eu/chafea_pdb/assets/files/pdb/2006321/2006321_SFCNews3.pdf - didn't include as seems to summarise papers we already had.</p> <p>Effectiveness of the "Smoke-Free Class Competition" (SFC) in delaying the onset of smoking in Polish students: a cluster-randomized controlled trial http://www.isrctn.com/ISRCTN39902015 - registry entry</p>
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	<p>Smokefree at school https://www.smokefree.org.nz/smokefree-environments/smokefree-at-school - tools and resources, rather than evaluation.</p> <p>Review of Tobacco Control Services https://www.health.govt.nz/system/files/documents/publications/review-of-tobacco-control-services-nov14.pdf - mentioned but just the article we already know about, nothing new.</p>
<p>Results</p>	<p>Institute for Therapy and Health Research (2009) Smoke-free class competition. A European programme for smoking prevention in schools. Best practice guide.</p> <p>During these years, area of implementation grew to more than 20 countries.</p> <p>SFC has become an integral part of the school curricula in many countries and a network of partners implementing SFC in their countries established giving the partners the opportunity to share experiences and to learn from each other. This guide condenses these experiences to make “best practice” available to all participating partners as well as to institutions interested in SFC or planning to start implementing SFC.</p> <p>Therefore, this best practice guide aims to</p> <ul style="list-style-type: none"> - give an overview on theoretical background of SFC - summarise basic principles and rules, used material as well as established accompanying components - describe some country-specific modifications and variations in implementation - explain different possible models of dissemination and cooperation - provide a checklist of necessary and helpful steps for implementing SFC - report on evidence of evaluation <p>Note – the publications in Appendix 1A are in EndNote.</p>

	<p>https://ec.europa.eu/health/sites/health/files/ngo_ward/doc/summary_report_itg_en.pdf</p> <p>EPPI Centre (2005) A summary of ongoing activity in the use of incentive schemes to encourage positive behaviours in young people</p> <p>See page 12</p> <p>http://discovery.ucl.ac.uk/10005482/1/Trouton2005ASummary.pdf</p> <p>NHS Fife (2014) The Report of the Director of Public Health</p> <p>See page 31</p> <p>http://admin.fifedirect.org.uk/weborgs/nhs/uploadfiles/publications/c64_FifeDPHAnnualReportversion011214-final.pdf</p> <p>NHS Greater Glasgow (2005) Achievements in public health. Smoke-Free Class</p> <p>Smoke-Free Class is a secondary school smoking prevention programme aimed at all pupils in S1. It was piloted in Glasgow in 2000, and over the last three years has been rolled out to include all</p> <p>https://www.nhsggc.org.uk/media/230505/nhsgg_aph_Lifestyle_smoke_free_class_039.pdf</p> <p>Wiborg G and Hanewinkel R (2003) Smokefree Class Competition. A European school-based anti-smoking campaign Final report for the year 2002/2003.</p> <p>Smokefree Class Competition was carried out for the fifth time on an European level in the school-year 2002/2003 and schools from Austria, Belgium, Finland, France Germany, Greece, Iceland, Italy, Luxembourg, Portugal, Spain, the Netherlands and Wales participated. In addition, Switzerland carried out the programme.</p> <p>http://ec.europa.eu/health/ph_projects/2002/cancer/fp_cancer_2002_annex1_08.pdf</p> <p>European Commission (n.d.) Smokefree class competition</p> <p>Provides an overview of the evidence</p>
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	<p>https://ec.europa.eu/social/main.jsp?catId=1251&langId=en&reviewId=227</p> <p>European Commission (2010)</p> <p>Outputs from the Smokefree Class Competition Network [SFCN] [20083276] - Operating Grant</p> <p>See here for the overall page https://webgate.ec.europa.eu/chafea_pdb/health/projects/20083276/outputs</p> <p>And then see the following specific links:</p> <p>Overview https://webgate.ec.europa.eu/chafea_pdb/assets/files/pdb/20083276/20083276_oth_en_ps_ppp_sfc_description.pdf</p> <p>New results evaluation https://webgate.ec.europa.eu/chafea_pdb/assets/files/pdb/20083276/20083276_d06-02_oth_en_ps_new_results_evaluation.pdf</p> <p>Belgium https://webgate.ec.europa.eu/chafea_pdb/assets/files/pdb/20083276/20083276_oth_en_ps_ppp_belgium.pdf</p> <p>Bulgaria https://webgate.ec.europa.eu/chafea_pdb/assets/files/pdb/20083276/20083276_oth_en_ps_ppp_bulgaria.pdf</p> <p>Finland https://webgate.ec.europa.eu/chafea_pdb/assets/files/pdb/20083276/20083276_oth_en_ps_ppp_finland.pdf</p> <p>France https://webgate.ec.europa.eu/chafea_pdb/assets/files/pdb/20083276/20083276_oth_en_ps_ppp_france.pdf</p> <p>Germany https://webgate.ec.europa.eu/chafea_pdb/assets/files/pdb/20083276/20083276_oth_en_ps_ppp_germany.pdf</p> <p>Iceland https://webgate.ec.europa.eu/chafea_pdb/assets/files/pdb/20083276/20083276_oth_en_ps_ppp_iceland.pdf</p> <p>Netherlands https://webgate.ec.europa.eu/chafea_pdb/assets/files/pdb/20083276/20083276_oth_en_ps_ppp_netherlands.pdf</p> <p>Poland https://webgate.ec.europa.eu/chafea_pdb/assets/files/pdb/20083276/20083276_oth_en_ps_ppp_poland.pdf</p>
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	<p>Spain https://webgate.ec.europa.eu/chafea_pdb/assets/files/pdb/20083276/20083276_oth_en_ps_ppp_spain.pdf</p> <p>Wales https://webgate.ec.europa.eu/chafea_pdb/assets/files/pdb/20083276/20083276_oth_en_ps_ppp_wales.pdf</p> <p>Schmid H (2008) randomised controlled trial of the Smokefree Class Competition in Northwestern Switzerland</p> <p>Smokefree Class Competition (SFC) is a school-based smoking prevention project, with the idea that school classes who decide not to smoke for a period of six months can win a prize. It is hypothesized that social norms within classes are influenced in a way that non-smoking becomes a standard. However, the project has been criticized for working with negative peer pressure mainly for students who already smoke.</p> <p>(2) Methods. A total of 179 school classes with 3'251 7 and 8 graders and 161 teachers participated. Classes were randomly assigned to a control and an intervention group. Indicators of smoking, well-being, passive and active violence and classroom climate were collected from students and teachers at pre-, post-test and follow-up.</p> <p>(3) Results. The study shows an effect of the Smokefree Class Competition on information on smoking. More information is given to students and perceived by students in the competition. Effects on smoking behaviour, attitude towards smoking, well-being and effects on negative peer pressure were not found.</p> <p>(4) Conclusions. It is likely that the present study underestimates the potential effects of the competition on the prevention of smoking, because of the study design. Teachers in the control group were motivated to work on the topic of smoking, the incentive given for participating in the scientific evaluation may have interfered with the price of the competition, and smoking students and teachers with smoking students were lost during the trial. The Smokefree Class Competition is a good means of universal prevention, addressing all students in Switzerland on a low threshold. However, the possibility of enlarging the competition with selective prevention for the vulnerable group of students who take up the habit of smoking should be considered. Negative peer pressure does not seem to be a problem in these classes but smoking is.</p>
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	<p>Note: this is from the Swiss Tobacco Control Fund but I couldn't find an overview page giving any background to the project. There is a 2006 paper by the author in the search results (this report is 2008).</p> <p>https://www.tpf.admin.ch/tpf/en/home.html</p> <p>I have a pdf copy – note sure this link will work.</p> <p>Flay, B., The promise of long-term effectiveness of school-based smoking prevention programs: a critical review of reviews, <i>Tobacco Induced Diseases</i> 2009; 5:7.</p> <p>I provide a review and critique of meta-analyses and systematic reviews of school-based smoking prevention programs that focus on long-term effects. Several of these reviews conclude that the effects of school-based smoking prevention programs are small and find no evidence that they have significant long-term effects. I find that these reviews all have methodological problems limiting their conclusions. These include severe limiting of the studies included because of performance bias, student attrition, non-reporting of ICCs, inappropriate classification of intervention approach, and inclusion of programs that had no short-term effects. The more-inclusive meta-analyses suggest that school-based smoking prevention programs can have significant and practical effects in both the short- and the long-term. Findings suggest that school-based smoking prevention programs can have significant long-term effects if they: 1) are interactive social influences or social skills programs; that 2) involve 15 or more sessions, including some up to at least ninth grade; that 3) produce substantial short-term effects. The effects do decay over time if the interventions are stopped or withdrawn, but this is true of any kind of intervention.</p> <p>https://tobaccoinduceddiseases.biomedcentral.com/articles/10.1186/1617-9625-5-7 Added to EndNote</p> <p>Tamang, E., Pilati, G., Latini, R. and Pettino, A., Smoke Free Class Competition, <i>Official Journal of the Italian Society of Tobaccology</i> 2003; 3:13-17.</p> <p>BACKGROUND. Smoke Free Class Competition (SFC), origin in Finland in 1989 and from 1997 it has been extended to other European countries including Italy. SFC is partly financed by the European Commission under the Europe Against Cancer Programme and carried out in collaboration with the European Network of Young People and Tobacco (ENYPAT).</p> <p>MATERIALS AND METHODS. The present article describes Smoke Free Class Competition (SFC) a European project on smoking prevention for 12 – 14 year old secondary school</p>
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	<p>students. It has in the school year 2002-2003 seven Italian regions participated in the project with 669 classes and 13970 students. The aim of SFC is to prevent or delay the onset of smoking habit among the teenagers and to reduce or quit smoking among students who have experimented or taken up the habit. The participating classes decided not to smoke for a period of six months (November to April).</p> <p>RESULTS AND CONCLUSIONS. Studies on the effectiveness of SFC suggests that the participation in the Competition actually delays the initiation to smoking among the teenagers.</p> <p>http://www.tabaccologia.it/PDF/Tabaccologia_3_2003.pdf</p> <p>Added to EndNote</p> <p>Svoen, N. and Schei, E., Adolescent smoking prevention – primary health care in cooperation with local schools: A controlled intervention study, <i>Scand J Prim Health Care</i> 1999; 17:54-58</p> <p>OBJECTIVE:</p> <p>To evaluate a secondary school smoking prevention program in a small rural Norwegian municipality.</p> <p>DESIGN:</p> <p>The project applied grade specific intervention strategies to all students grades 6-9 and comprised a total of 32 lessons over a period of 3 years, with high student activity. A non-randomised control group was constituted by all 6th-9th grade students in municipalities of similar characteristics in the same county. Results were recorded in annual class-based surveys.</p> <p>SUBJECTS:</p> <p>The intervention group totalled 187 and the control group 364 students.</p> <p>MAIN OUTCOME MEASURES:</p> <p>Prevalence of daily and occasional smoking and number of cigarettes smoked, during the intervention period.</p> <p>RESULTS:</p> <p>An 80% lower rate of daily smoking and 50% fewer cigarettes smoked by daily smokers. Lower rates of smoking in 9th grade occurred mostly among girls.</p> <p>CONCLUSION:</p> <p>The project resulted in a lower recruitment of daily smokers up to grade 9, as well as fewer cigarettes smoked by daily smokers. The intervention was more successful among girls than boys.</p>
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	https://www.tandfonline.com/doi/pdf/10.1080/028134399750002917?nedAccess=true Added to EndNote
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10.3.2 Search engines

The results of the website searches and browsing will be reviewed on screen and documents in English and published from 2008-Current that are potentially relevant will be listed with their title and abstract (if available) in a Word document. The review team will make an initial screening decision using this Word file. Any items selected for review at full text will be added to EPPI-Reviewer.

Search engine	
Name	Health Services/Technology Assessment Texts (HSTAT)
URL	https://www.ncbi.nlm.nih.gov/books/NBK16710
Date searched	21 November 2018
Search terms	<p>#1 (((((tobacco[MeSH Terms]) OR tobacco use[MeSH Terms]) OR smoking[MeSH Terms]) OR smoking cessation[MeSH Terms]) OR smoking prevention[MeSH Terms]) 2504</p> <p>#2 ((smoking[Title]) OR cigarette[Title]) OR tobacco[Title]) 2263</p> <p>#3 (#1 OR #2) 3785</p> <p>#4 hstatcollect[filter] 38128</p> <p>#5 #3 AND #4 1189</p> <p>Results: 1 to 20 of 27 books (1189 items)</p>
How the results were selected	<p>Only selected documents if the title or abstract were directly relevant.</p> <p>Checked inside the contents of Surgeon General reports.</p> <p>Primary Care Relevant Interventions for Tobacco Use Prevention and Cessation in Children and Adolescents: A Systematic Evidence Review for the U.S. Preventive Services Task Force https://www.ncbi.nlm.nih.gov/books/NBK114975/</p>
Results	<p>U.S. Department of Health and Human Services. <i>Preventing Tobacco Use Among Youth and Young Adults: A Report of the Surgeon General</i>. Atlanta, GA: U.S. Department of Health and Human Services, Centers for Disease Control and Prevention, National Center for Chronic Disease Prevention and Health Promotion, Office on Smoking and Health, 2012</p> <p>Tobacco use is a global epidemic among young people. As with adults, it poses a serious health threat to youth and young adults in the United States and has significant implications for this nation's public and economic health</p>

	<p>in the future. The impact of cigarette smoking and other tobacco use on chronic disease, which accounts for 75% of American spending on health care, is well-documented and undeniable. Although progress has been made since the first Surgeon General's report on smoking and health in 1964, nearly one in four high school seniors is a current smoker. Most young smokers become adult smokers. One-half of adult smokers die prematurely from tobacco-related diseases. Despite thousands of programs to reduce youth smoking and hundreds of thousands of media stories on the dangers of tobacco use, generation after generation continues to use these deadly products, and family after family continues to suffer the devastating consequences. Yet a robust science base exists on social, biological, and environmental factors that influence young people to use tobacco, the physiology of progression from experimentation to addiction, other health effects of tobacco use, the epidemiology of youth and young adult tobacco use, and evidence-based interventions that have proven effective at reducing both initiation and prevalence of tobacco use among young people. Those are precisely the issues examined in this report, which aims to support the application of this robust science base.</p> <p>https://www.ncbi.nlm.nih.gov/books/NBK99237/</p>
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Search engine	
Name	NICE Evidence Search
URL	https://www.evidence.nhs.uk
Date searched	21 November 2018
Search terms	Searched for "class competition", "smokefree competition", "smoke free competition", "smoke free school", "sfcc" and "sfc".
How the results were selected	<p>Checked against EndNote and did not add anything that already found.</p> <p>Did not download the following as they would just be duplicates.</p> <p>Meta-analysis on the effects of the smoke-free class competition on smoking prevention in adolescents</p> <p>Do school-based tobacco prevention programmes pay off? The cost-effectiveness of the 'Smoke-free Class Competition'</p>

	<p>Effects of Smokefree Class Competition 1 year after the end of intervention</p> <p>Incentives for preventing smoking in children and adolescents</p> <p>The effectiveness of school-based smoking prevention interventions among low- and high-SES European teenagers</p> <p>The European Smoking Prevention Framework Approach (ESFA) : effects after 24 and 30 months</p> <p>School-based interventions to prevent the uptake of smoking among children and young people : Evidence Update April 2013</p> <p>High impact of implementation on school-based smoking prevention: the X:IT study—a cluster-randomized smoking prevention trial</p>
<p>Results</p>	<p>Kavirajan, H (2017) What are the effects of the Smokefree Class Competition incentive for preventing smoking among children and adolescents? Cochrane Clinical Answers 2017. DOI: 10.1002/cca.1832.</p> <p>For the Smokefree Class Competition (SFC), classes compete to maintain 90% smoking abstinence over six months of follow-up, reporting rates on a monthly basis; then, classes maintaining 90% abstinence compete for rewards such as monetary prizes, class trips, or special activities.</p> <p>Reviewers found that the SFC intervention failed to reduce smoking uptake relative to usual drug prevention/education programs or no intervention in children and adolescents (aged 11 to 14 years), but evidence was of very low to low quality. Rates of unintended behaviors did not differ between SFC and control groups at any follow-up intervals, although one study reported that children receiving SFC may have made more false claims about their smoking status to increase their chances of winning. None of the included trials reported adverse effects.</p>

	<p>Reviewers found no trials of incentive interventions other than SFC for smoking prevention among children and teens that reported on the key outcome of smoking uptake rates.</p> <p>https://www.cochranelibrary.com/cca/doi/10.1002/cca.1832/full</p>
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Search engine	
Name	Tobacco Control Database for the WHO European Region
URL	http://data.euro.who.int/tobacco
Date searched	21 November 2018
Search terms	<p>The database just returned an error message so browsed http://www.euro.who.int/en/health-topics/disease-prevention/tobacco</p> <p>http://www.euro.who.int/en/health-topics/disease-prevention/tobacco/publications/a-z-list-of-all-publications2</p> <p>http://apps.who.int/iris/browse</p> <p>Searched for "class competition", "smokefree competition", "smoke free competition", "smoke free school", "sfcc" and "sfc".</p> <p>Searched publications for schools.</p>
How the results were selected	<p>TOBACCO CONTROL: a comprehensive approach at country level in the Russian Federation http://www.euro.who.int/__data/assets/pdf_file/0007/339235/20170404_WHO-RussianCaseStudy-ENG-DRAFT07.pdf - did not include as just one passing mention on p21.</p> <p>Report of the 23rd Annual Meeting of CINDI Programme Directors http://www.euro.who.int/__data/assets/pdf_file/0016/240361/E91093.pdf – did not include as 2006 and only a passing mention on p53</p> <p>THE EUROPEAN REPORT ON TOBACCO CONTROL POLICY Review of implementation of the Third Action Plan for a Tobacco-free Europe 1997–2001 http://www.euro.who.int/__data/assets/pdf_file/0007/68065/E74573.pdf - did not include as 2002 and only brief mention on p42.</p> <p>CINDI WORKING GROUP ON CHILDREN AND YOUTH "HEALTHY</p>

	<p>CHILDREN IN HEALTHY FAMILIES” http://www.euro.who.int/__data/assets/pdf_file/0009/119934/E70260.pdf mentioned on p12 but about setting it up, no data that could be used as evidence.</p> <p>European Tobacco Control Report 2007 http://apps.who.int/iris/bitstream/handle/10665/107813/E89842.pdf?sequence=1&isAllowed=y – just a brief mention on p73</p>
Results	None

10.3.3 Website browsing

Website	
Name	Action on Smoking and Health (ASH)
URL	http://ash.org.uk/home
Date searched	21 November 2018
Search terms (including any specific sections browsed)	Searched for schools, class competition, competition Browsed briefings, fact sheets, reports and submissions. Went through the ASH Scotland guide for schools https://www.ashscotland.org.uk/what-we-do/children-young-people-and-tobacco/tobacco-free-schools/ Could not see any ref to competitions in the Lothian Tobacco Free Schools Project Evaluation
Results	None

Website	
Name	Department for Education
URL	https://www.gov.uk/government/organisations/department-for-education
Date searched	21 November 2018
Search terms (including any specific sections browsed)	Searched for "class competition", "smokefree competition", "smoke free competition", "smoke free school". Searched for tobacco, smoking, cigarettes in publications and announcements.
Results	None

Website	
Name	Institute for Therapy and Health Research (IFT-Nord), Germany
URL	https://www.ift-nord.de
Date searched	21 November 2018
Search terms (including any specific sections browsed)	NOTE: not in the protocol. Identified from the Google searches that a key author/publisher and so added to the browse list. Browsed list of publications by project for Be Smart – Don't Start.

	<p>https://www.ift-nord.de/en/publications/publications-by-project/</p> <p>Searched for "class competition", "smokefree competition", "smoke free competition", "smoke free school".</p> <p>Searched for tobacco, smoking, cigarettes in publications and announcements.</p> <p>Hanewinkel R, Wiborg G, Paavola M, Vartiainen E. European smoke-free class competition. <i>Tobacco Control</i> 1998; 7: 326 In EndNote</p> <p>Hanewinkel R, Wiborg G. Dissemination der Nichtraucherkampagne 'Be Smart-Don't Start' in den Jahren 1997 bis 2003 in Deutschland. <i>Gesundheitswesen</i> 2003; 65: 250–54 [doi: 10.1055/s-2003-39228] In EndNote</p> <p>Hanewinkel R, Wiborg G, Isensee B, Nebot M, Vartiainen E. "Smoke-free Class Competition": far-reaching conclusions based on weak data. <i>Preventive Medicine</i> 2006; 43: 150–51 [doi: 10.1016/j.ypmed.2006.03.015] In EndNote</p> <p>Hanewinkel R. "Be Smart - Don't Start". Ergebnisse des Nichtraucherwettbewerbs in Deutschland 1997-2007. <i>Gesundheitswesen</i> 2007; 69: 38–44 [doi: 10.1055/s-2007-970057] In EndNote</p> <p>Hanewinkel R, Wiborg G, Abdennbi K et al. European smokefree class competition: a measure to decrease smoking in youth. <i>Journal of Epidemiology and Community Health</i> 2007; 61: 750 [doi: 10.1136/jech.2006.057224] In EndNote</p> <p>Hoeflmayr D. Kosten und Nutzen schulischer Tabakprävention. Eine Evaluation am Beispiel "Be Smart - Don't Start". Baden-Baden: Nomos, 2006 No link provided, in German and published in 2006.</p> <p>Hoeflmayr D, Hanewinkel R. Do school-based tobacco prevention programmes pay off? The cost-effectiveness of the "Smoke-free Class Competition". <i>Public Health</i> 2008; 122: 34–41 [doi: 10.1016/j.puhe.2007.05.007] In EndNote</p>
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	<p>Wiborg G, Hanewinkel R. Konzeption und Prozessevaluation eines schulischen Nichtraucherwettbewerbs. <i>Sucht</i> 2001; 47: 25–32 In EndNote</p> <p>Savolainen S (ed.). <i>The Smokefree Class Competition. A European School-Based Anti-Smoking Campaign. An Overview of the Experiences of 1997/98 Round in Seven Countries.</i> Publications of the National Public Health Institute Department of Epidemiology and Health Promotion, Helsinki, Finland, 1998 INCLUDE BUT UNABLE TO FIND LINK – PUB IN 1998</p> <p>Savolainen S (ed.). <i>The Smokefree Class Competition. An Innovative Approach to School-based Smoking Prevention.</i> Publications of the National Public Health Institute Department of Epidemiology and Health Promotion, Helsinki, Finland, 2002 https://www.julkari.fi/bitstream/handle/10024/78288/2002b01.pdf?sequence=1 ADD TO LIST BUT 2002</p> <p>IFT-Nord (ed.). <i>Abschlussbericht: Be Smart - Don't Start. Der Wettbewerb für rauchfreie Schulklassen im Schuljahr 2017/2018.</i> Institut für Therapie- und Gesundheitsforschung, IFT-Nord Kiel, 2018 [PDF] ADD TO LIST BUT IN GERMAN</p> <p>Isensee B, Hanewinkel R. Meta-Analysis on the Effects of the Smoke-Free Class Competition on Smoking Prevention in Adolescents. <i>European Addiction Research</i> 2012; 18: 110–15 [doi: 10.1159/000335085] In EndNote</p> <p>Isensee B, Hanewinkel R. <i>Tabakprävention im Setting Schule am Beispiel von „Be Smart – Don't Start“.</i> <i>Bundesgesundheitsblatt - Gesundheitsforschung - Gesundheitsschutz</i> 2018; online first [doi: 10.1007/s00103-018-2825-9] In EndNote</p>
<p>Results</p>	<p>IFT-Nord (2018). <i>Abschlussbericht: Be Smart - Don't Start. Der Wettbewerb für rauchfreie Schulklassen im Schuljahr 2017/2018.</i> https://www.ift-nord.de/downloads/bericht_bs.pdf</p> <p>Savolainen S (ed.). <i>The Smokefree Class Competition. An Innovative Approach to School-based Smoking Prevention.</i> Publications of the National Public Health Institute Department of Epidemiology and Health Promotion, Helsinki, Finland, 2002</p>

	<p>https://www.julkari.fi/bitstream/handle/10024/78288/2002b01.pdf?sequence=1</p> <p>Savolainen S (ed.). The Smokefree Class Competition. A European School-Based Anti-Smoking Campaign. An Overview of the Experiences of 1997/98 Round in Seven Countries. Publications of the National Public Health Institute Department of Epidemiology and Health Promotion, Helsinki, Finland, 1998</p>
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Website	
Name	Local Government Association
URL	https://www.local.gov.uk
Date searched	21 November 2018
Search terms (including any specific sections browsed)	<p>Searched for "class competition", "smokefree competition", "smoke free competition", "smoke free school".</p> <p>Searched Publication>Public health and browsed 50 results</p>
Results	None

Website	
Name	National Centre for Smoking Cessation and Training
URL	http://www.ncsct.co.uk
Date searched	21 November 2018
Search terms (including any specific sections browsed)	<p>Browsed training, briefings, clinical tools, commissioning resources.</p> <p>Searched for schools, competition.</p>
Results	None

Website	
Name	Northern Ireland Assembly
URL	http://www.niassembly.gov.uk/
Date searched	21 November 2018

Search terms (including any specific sections browsed)	Searched for "class competition", "smokefree competition", "smoke free competition", "smoke free school". Searched for smoking and browsed 50 results. Browsed research publications back to 2007. Checked in the 2015 bullying report.
Results	None

Website	
Name	Public Health England
URL	https://www.gov.uk/government/organisations/public-health-england
Date searched	21 November 2018
Search terms (including any specific sections browsed)	Searched publications for schools and browsed 184 results, Searched publications for competition, smokefree and smoke free. Searched announcements for schools, competition, smokefree and smoke free.
Results	None

Website	
Name	Royal College of Paediatrics and Child Health
URL	https://www.rcpch.ac.uk/
Date searched	21 November 2018
Search terms (including any specific sections browsed)	Searched for "class competition", "smokefree competition", "smoke free competition", "smoke free school". Browsed the smoking pages https://www.rcpch.ac.uk/topic/smoking-tobacco
Results	None

Website	
Name	Royal College of Physicians
URL	https://www.rcplondon.ac.uk
Date searched	21 November 2018
Search terms (including any specific sections browsed)	Searched for "class competition", "smokefree competition", "smoke free competition", "smoke free school".

sections browsed)	Searched for smoking and browsed the first 100 results.
Results	None

Website	
Name	Scottish Government
URL	https://www.gov.scot
Date searched	21 November 2018
Search terms (including any specific sections browsed)	<p>Searched for "class competition", "smokefree competition", "smoke free competition", "smoke free school".</p> <p>Searched the health and social care publications and browsed smoking and tobacco hits https://www.gov.scot/publications/?topics=Health+and+social+care</p> <p>Did not include A process evaluation of the implementation of ASSIST in Scotland: research findings as this is peer led and not covered by the protocol.</p> <p>Also looked within the tobacco action plan 2018.</p>
Results	None

Website	
Name	Smokefree Class Competition
URL	http://www.smokefreeclass.info
Date searched	16 November 2018
Search terms (including any specific sections browsed)	<p>Copied the list below.</p> <p>4 items added to EndNote (ignored the duplicates)</p>

Results	<ul style="list-style-type: none"> • Isensee B, Hanewinkel R. Meta-Analysis on the Effects of the Smoke-Free Class Competition on Smoking Prevention in Adolescents. <i>European Addiction Research</i> 2012; 18: 110–15. Already in search results so no action • Isensee B, Morgenstern M, Stoolmiller M, Maruska K, Sargent JD, Hanewinkel R. Effects of Smokefree Class Competition 1 year after the end of intervention: a cluster randomised controlled trial. <i>Journal of Epidemiology and Community Health</i> 2012; 66: 334–41. Already in search results so no action • Hanewinkel R, Isensee B, Maruska K, Sargent JD, Morgenstern M. Denormalising Smoking in the Classroom: Does it Cause Bullying? <i>Journal of Epidemiology and Community Health</i> 2010; 64: 202–08. Already in search results so no action • Hoeflmayr D, Hanewinkel R. Do school-based tobacco prevention programmes pay off? The cost-effectiveness of the "Smoke-free Class Competition". <i>Public Health</i> 2008; 122(1): 34-41. Already in search results so no action • Hrubá D, Zachovalová V, Matejová H, Danková I. "Our class does not smoke"; The Czech version of the "Smoke-Free Class Competition" programme. <i>Cent Eur J Public Health</i> 2007; 15(4):163-166. Not in search results – added to EndNote • Isensee B, Hanewinkel R. Effects of a repeated participation in the non-smoking competition "Be Smart - Don't Start". <i>Sucht German Journal of Addiction Research and Practice</i> 2007; 53(6):328-334 [German]. Not in search results – added to EndNote • Hanewinkel R. "Be smart--don't start". Results of a non-smoking competition in Germany 1997-2007. <i>Gesundheitswesen</i> 2007; 69(1):38-44 [German]. Already in search results so no action • Schulze A, Pötschke-Langer M, Edler L, Mons U. Smoke-free Class Competition: a reply to the initiators of the program. <i>Prev Med</i> 2006; 43(2):151-153. Already in search results so no action • Hanewinkel R, Wiborg G, Isensee B, Nebot M, Vartiainen E. "Smoke-free Class Competition": far-reaching conclusions based on weak data. <i>Prev Med</i> 2006; 43(2):150-151. Already in search results so no action • Schulze A, Mons U, Edler L, Pötschke-Langer M. Lack of sustainable prevention effect of the "Smoke-Free Class Competition" on German pupils. <i>Prev Med</i> 2006; 42(1):33-39. Already in search results so no action • Schmid H. Smokefree Class Competition in Switzerland: does it work with negative peer pressure? <i>Psychol Health</i> 2005; 20 (suppl 1):116-117. Already in search results so no action • Josendal O. Smoke-free class competition may delay the onset of smoking in adolescence. <i>Evid Based Healthc</i> 2003; 7(1):18-19. Not in search results – added to EndNote • Crone MR, Reijneveld SA, Willemsen MC, van Leerdam FJ, Spruijt RD, Sing RA. Prevention of smoking in adolescents with lower education: a school based intervention study. <i>J Epidemiol Community Health</i> 2003; 57(9):675-680. Already in search results so no action
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	<ul style="list-style-type: none"> • Hanewinkel R, Wiborg G. School-based smoking prevention: results of a prospective controlled trial. Special Issue Wilhelm Feuerlein Research Award 2003. Sucht German Journal of Addiction Research and Practice 2003; 49(6):333-341 [German]. Already in search results so no action • Hanewinkel R, Wiborg G. Diffusion of the non-smoking campaign "Be Smart-Don't Start" between 1997 and 2003 in Germany. Gesundheitswesen 2003; 65(4):250-254 [German]. Already in search results so no action • Wiborg G, Hanewinkel R. Effectiveness of the "Smoke-Free Class Competition" in delaying the onset of smoking in adolescence. Prev Med 2002; 35(3):241-249. Already in search results so no action • Wiborg G, Hanewinkel R, Kliche KO. "Be smart-dont' start" campaign to prevent children from starting to smoke: an analysis according to type of school they attend. Dtsch Med Wochenschr 2002; 127(9):430-436 [German]. Already in search results so no action • Hanewinkel R, Wiborg G. Primary and secondary prevention of smoking in adolescents: results of the campaign "Be Smart - Don't Start". Gesundheitswesen 2002; 64(8-9):492-498 [German]. Already in search results so no action • Wiborg G, Hanewinkel R. Conception and process evaluation of a school-based non-smoking competition. Sucht 2001; 47(1):25-32 [German]. Not in search results – added to EndNote • Hanewinkel R, Wiborg G, Paavola M, Vartiainen E. European smoke-free class competition. Tob Control 1998; 7(3):326. Already in search results so no action • Vartiainen E, Saukko A, Paavola M, Vertio H. "No Smoking Class" competitions in Finland: their value in delaying the onset of smoking in adolescence. Health Promot Int 1996; 11(3):189-192. Already in search results so no action
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Website	
Name	Smoking Toolkit Study
URL	http://www.smokinginengland.info
Date searched	21 November 2018
Search terms (including any specific sections browsed)	Browsed reports and key publications
Results	None

Website	
Name	Treat Tobacco
URL	http://www.treatobacco.net/en/index.php
Date searched	21 November 2018
Search terms (including any specific sections browsed)	Searched for "class competition", "smokefree competition", "smoke free competition", "smoke free school".
Results	None

Website	
Name	UK Centre for Tobacco and Alcohol Studies
URL	http://ukctas.net/index.html
Date searched	21 November 2018
Search terms (including any specific sections browsed)	Searched for "class competition", "smokefree competition", "smoke free competition", "smoke free school". Browsed policy, featured projects, dissemination and research sections.
Results	None

Website	
Name	University of Bath Tobacco Control Research Group
URL	https://researchportal.bath.ac.uk/en/organisations/uk-centre-for-tobacco-control-studies
Date searched	21 November 2018
Search terms (including any specific sections browsed)	Searched for "class competition", "smokefree competition", "smoke free competition", "smoke free school". Browsed through smoking section for competition or school.
Results	None

Website	
Name	University of Stirling Centre for Tobacco Control Research

URL	https://www.stir.ac.uk/about/faculties-and-services/health-sciences-sport/research/research-groups/centre-for-tobacco-control-research/publications
Date searched	21 November 2018
Search terms (including any specific sections browsed)	Searched for "class competition", "smokefree competition", "smoke free competition", "smoke free school". Browsed the books and monographs section.
Results	<p>Amos A, Angus K, Bostock Y, Fidler J and Hastings G (2009). <i>A Review of Young People and Smoking in England</i>. Public Health Research Consortium.</p> <p>The Department of Health has therefore commissioned this rapid (6 months), short review to assess the potential for strengthening the youth-oriented dimension of their tobacco control strategy. They want evidence informed advice on its viability and the form it should take.</p> <ol style="list-style-type: none"> 1. What are the current patterns and trends in smoking in young people (11-24 years) in England by key socio-demographic variables (sex, age, socio-economic status, ethnicity)? 2. What is known about why young people start and continue to smoke? 3. What is the current tobacco control policy context and future policy options on smoking prevention and cessation for young people in England and their likely effectiveness? <p><i>Note there is a brief mention of competitions in section 5.2.7 on p88.</i></p> <p>http://phrc.lshtm.ac.uk/papers/PHRC_A7-08_Final_Report.pdf</p>

Website	
Name	Welsh Government
URL	https://gov.wales/?lang=en
Date searched	21 November 2018
Search terms (including any specific sections browsed)	<p>Searched for "class competition", "smokefree competition", "smoke free competition", "smoke free school".</p> <p>Browsed the smoking page https://beta.gov.wales/smoking</p> <p>Looked in the tobacco control delivery plan for Wales 2017-2020 https://beta.gov.wales/sites/default/files/publications/2017-11/tobacco-control-delivery-plan-for-wales-2017-to-2020.pdf - which only mentions a peer-led intervention.</p>

Results	None
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11 Database strategies – top up

11.1.1 Database name: Applied Social Science Index and Abstracts (ASSIA)

Set#	Searched for	Databases	Results
S1	TI,AB((smoking* or smoke* or tobacco* or nicotin* or cigar* or cigs) and (incentive* or incentiviz* or incentivis* or reward* or prize* or voucher* or lotter* or raffle* or gift* or inducement* or motivat* or cash or money* or monetar* or finance* or financial* or competition* or contest*))	Applied Social Sciences Index & Abstracts (ASSIA)	1932
S2	TI,AB((Smokefree* or smoke-free* or "smoke free") and (incentive* or incentiviz* or incentivis* or reward* or prize* or voucher* or lotter* or raffle* or gift* or inducement* or motivat* or cash or money* or monetar* or finance* or financial* or policy* or policies*))	Applied Social Sciences Index & Abstracts (ASSIA)	321
S3	TI,AB((Smokefree* or smoke-free* or smoke free*) and (competition* or contest*))	Applied Social Sciences Index & Abstracts (ASSIA)	3
S4	S1 or s2 or s3	Applied Social Sciences Index & Abstracts (ASSIA) These databases are searched for part of your query.	2204
S5	MAINSUBJECT.EXACT("Preparatory schools") OR MAINSUBJECT.EXACT("Infant schools") OR MAINSUBJECT.EXACT("Primary schools") OR MAINSUBJECT.EXACT("Junior schools") OR MAINSUBJECT.EXACT("Elementary schools")	Applied Social Sciences Index & Abstracts (ASSIA)	3114
S6	TI,AB("reception year" or "reception grade*" or "year one" or "year 1" or "year two" or "year 2" or "year three" or "year 3" or "year four" or "year 4" or "year five" or "year 5" or "year six" or "year 6" or "key stage one" or "key stage 1" or "key stage two" or "key stage 2" or "grade one" or "grade 1" or "grade two" or "grade 2" or "grade three" or "grade 3" or "grade four" or "grade 4" or "grade five" or "grade 5" or "grade six" or "grade 6" or "first grade*" or "1st grade*" or "second grade*" or "2nd grade*" or "third grade*")	Applied Social Sciences Index & Abstracts (ASSIA)	7614

	or "3rd grade*" or "fourth grade*" or "4th grade*" or "fifth grade*" or "5th grade*" or "sixth grade*" or "6th grade*")		
S7	s5 or s6	Applied Social Sciences Index & Abstracts (ASSIA) These databases are searched for part of your query.	10146
S8	s4 and s7	Applied Social Sciences Index & Abstracts (ASSIA) These databases are searched for part of your query.	9
S9	(s4 and s7) AND yr(20008-2011)	Applied Social Sciences Index & Abstracts (ASSIA) These databases are searched for part of your query.	7

11.1.2 Database name: **Cochrane Central Register of Controlled Trials (CENTRAL)**

- #1 MeSH descriptor: [Smoke-Free Policy] this term only 11
- #2 ((smoking* or smoke* or tobacco* or nicotin* or cigar* or cigs) near/3 (incentive* or incentiviz* or incentivis* or reward* or prize* or voucher* or lotter* or raffle* or gift* or inducement* or motivat* or cash or money* or monetar* or finance* or financial* or competition* or contest*)):ti,ab 952
- #3 ((Smokefree* or smoke-free* or "smoke free") near/3 (incentive* or incentiviz* or incentivis* or reward* or prize* or voucher* or lotter* or raffle* or gift* or inducement* or motivat* or cash or money* or monetar* or finance* or financial* or policy* or policies*)):ti,ab 44
- #4 ((Smokefree* or smoke-free* or smoke free*) and (competition* or contest*)):ti,ab 9
- #5 {or #1-#4} 998
- #6 MeSH descriptor: [Schools] this term only 1639
- #7 MeSH descriptor: [School Health Services] this term only 1230
- #8 MeSH descriptor: [Students] this term only 2316
- #9 MeSH descriptor: [School Nursing] this term only 77
- #10 MeSH descriptor: [School Teachers] this term only 59
- #11 MeSH descriptor: [Curriculum] this term only 1291
- #12 MeSH descriptor: [Teaching] this term only 1634
- #13 ("reception year" or "reception grade*" or "year one" or "year 1" or "year two" or "year 2" or "year three" or "year 3" or "year four" or "year 4" or "year five" or "year 5" or "year six" or "year 6" or "key stage one" or "key stage 1" or "key stage two" or "key stage 2" or "grade one" or "grade 1" or "grade two" or "grade 2" or "grade three" or "grade 3" or "grade four" or "grade 4" or "grade five" or "grade 5" or "grade six" or "grade 6" or "first grade*" or "1st grade*" or

"second grade*" or "2nd grade*" or "third grade*" or "3rd grade*" or "fourth grade*" or "4th grade*" or "fifth grade*" or "5th grade*" or "sixth grade*" or "6th grade*"):ti,ab 23511

#14 #5 and #13 9

#15 "clinicaltrials.gov":so 128557

#16 #14 not #15 5

#17 "conference":pt 126410

#18 #16 not #17 3

#19 #16 not #17 with Publication Year from 2008 to 2018, in Trials 1

11.1.3 Database name: Cochrane Database of Systematic Reviews (CDSR)

- #1 MeSH descriptor: [Smoke-Free Policy] this term only 11

- #2 ((smoking* or smoke* or tobacco* or nicotin* or cigar* or cigs) near/3 (incentive* or incentiviz* or incentivis* or reward* or prize* or voucher* or lotter* or raffle* or gift* or inducement* or motivat* or cash or money* or monetar* or finance* or financial* or competition* or contest*)):ti,ab 952

- #3 ((Smokefree* or smoke-free* or "smoke free") near/3 (incentive* or incentiviz* or incentivis* or reward* or prize* or voucher* or lotter* or raffle* or gift* or inducement* or motivat* or cash or money* or monetar* or finance* or financial* or policy* or policies*)):ti,ab 44

- #4 ((Smokefree* or smoke-free* or smoke free*) and (competition* or contest*)):ti,ab 9

- #5 {or #1-#4} 998

- #6 MeSH descriptor: [Schools] this term only 1639

- #7 MeSH descriptor: [School Health Services] this term only 1230

- #8 MeSH descriptor: [Students] this term only 2316

- #9 MeSH descriptor: [School Nursing] this term only 77

- #10 MeSH descriptor: [School Teachers] this term only 59

- #11 MeSH descriptor: [Curriculum] this term only 1291

- #12 MeSH descriptor: [Teaching] this term only 1634

- #13 ("reception year" or "reception grade*" or "year one" or "year 1" or "year two" or "year 2" or "year three" or "year 3" or "year four" or "year 4" or "year five" or "year 5" or "year six" or "year 6" or "key stage one" or "key stage 1" or "key stage two" or "key stage 2" or "grade one" or "grade 1" or "grade two" or "grade 2" or "grade three" or "grade 3" or "grade four" or "grade 4" or "grade five" or "grade 5" or "grade six" or "grade 6" or "first grade*" or "1st grade*" or "second grade*" or "2nd grade*" or "third grade*" or "3rd grade*" or "fourth grade*" or "4th grade*" or "fifth grade*" or "5th grade*" or "sixth grade*" or "6th grade*"):ti,ab 23511

- #14 #5 and #13 9

- #15 "clinicaltrials.gov":so 128557

- #16 #14 not #15 5

#17 "conference":pt 126410

#18 #16 not #17 3

#19 #16 not #17 in Cochrane Reviews, Cochrane Protocols 0

11.1.4 Database name: Embase

Database(s): **Embase** 1974 to 2018 December 12

Search Strategy:

#	Searches	Results
1	((smoking* or smoke* or tobacco* or nicotin* or cigar* or cigs) adj3 (incentive* or incentiviz* or incentivis* or reward* or prize* or voucher* or lotter* or raffle* or gift* or inducement* or motivat* or cash or money* or monetar* or finance* or financial* or competition* or contest*)).ti,ab.	3984
2	((Smokefree* or smoke-free* or "smoke free") adj3 (incentive* or incentiviz* or incentivis* or reward* or prize* or voucher* or lotter* or raffle* or gift* or inducement* or motivat* or cash or money* or monetar* or finance* or financial* or policy* or policies*)).ti,ab.	988
3	((Smokefree* or smoke-free* or smoke free*) and (competition* or contest*)).ti,ab.	48
4	or/1-3	4955
5	primary school/	10579
6	("reception year" or "reception grade*" or "year one" or "year 1" or "year two" or "year 2" or "year three" or "year 3" or "year four" or "year 4" or "year five" or "year 5" or "year six" or "year 6" or "key stage one" or "key stage 1" or "key stage two" or "key stage 2" or "grade one" or "grade 1" or "grade two" or "grade 2" or "grade three" or "grade 3" or "grade four" or "grade 4" or "grade five" or "grade 5" or "grade six" or "grade 6" or "first grade*" or "1st grade*" or "second grade*" or "2nd grade*" or "third grade*" or "3rd grade*" or "fourth grade*" or "4th grade*" or "fifth grade*" or "5th grade*" or "sixth grade*" or "6th grade*").ti,ab.	171593
7	or/5-6	180738
8	4 and 7	22
9	nonhuman/ not (human/ and nonhuman/)	4282559
10	8 not 9	22
11	(letter or editorial).pt.	1643168
12	10 not 11	22

13	(conference abstract or conference paper or conference proceeding or "conference review").pt.	3995138
14	12 not 13	17
15	limit 14 to medline	9
16	14 not 15	8
17	limit 16 to english language	8
18	limit 17 to yr="2008 -Current"	7

11.1.5 Database name: Educational Resources Information Center (ERIC)

Top Up search not required – no age limits in the original strategy.

11.1.6 Database name: Health Management Information Consortium (HMIC)

Database(s): **HMIC Health Management Information Consortium** 1979 to September 2018

Search Strategy:

#	Searches	Results
1	((smoking* or smoke* or tobacco* or nicotin* or cigar* or cigs) adj3 (incentive* or incentiviz* or incentivis* or reward* or prize* or voucher* or lotter* or raffle* or gift* or inducement* or motivat* or cash or money* or monetar* or finance* or financial* or competition* or contest*)) .ti,ab.	147
2	(smoking* or smoke* or tobacco* or nicotin* or cigar* or cigs).sh.	5872
3	((Smokefree* or smoke-free* or "smoke free") adj3 (incentive* or incentiviz* or incentivis* or reward* or prize* or voucher* or lotter* or raffle* or gift* or inducement* or motivat* or cash or money* or monetar* or finance* or financial* or policy* or policies*)) .ti,ab.	70
4	(Smokefree* or smoke-free* or "smoke free").sh.	149
5	((Smokefree* or smoke-free* or smoke free*) and (competition* or contest*)) .ti,ab.	4
6	or/1-5	5886
7	("reception year" or "reception grade*" or "year one" or "year 1" or "year two" or "year 2" or "year three" or "year 3" or "year four" or "year 4" or "year five" or "year 5" or "year six" or "year 6" or "key stage one" or "key stage 1" or "key stage two" or "key stage 2" or "grade one" or "grade 1" or "grade two" or "grade 2" or "grade three" or "grade 3" or "grade four" or "grade 4" or "grade five" or "grade 5" or "grade six" or "grade 6" or "first grade*" or "1st grade*" or "second grade*" or "2nd grade*" or "third grade*" or "3rd grade*" or "fourth grade*" or "4th grade*" or "fifth grade*" or "5th grade*" or "sixth grade*" or "6th grade*") .ti,ab.	721
8	("reception year" or "reception grade*" or "year one" or "year 1" or "year two" or "year 2" or "year three" or "year 3" or "year four" or "year 4" or "year five" or "year 5" or "year six" or "year 6" or "key stage one" or "key stage 1" or "key stage two" or "key stage 2" or "grade one" or "grade 1" or "grade two" or "grade 2" or "grade three" or "grade 3" or "grade four" or "grade 4" or "grade five" or "grade 5" or "grade six" or "grade 6" or "first grade*" or "1st grade*" or "second grade*" or "2nd grade*" or "third grade*" or "3rd grade*" or "fourth grade*" or "4th grade*" or "fifth grade*" or "5th grade*" or "sixth grade*" or "6th grade*") .sh.	0
9	or/7-8	721

10 6 and 9	15
11 limit 10 to yr="2008 -Current"	5

11.1.7 Database name: MEDLINEDatabase(s): **Ovid MEDLINE(R)** 1946 to December 12, 2018

Search Strategy:

#	Searches	Results
1	Smoke-Free Policy/	675
2	((smoking* or smoke* or tobacco* or nicotin* or cigar* or cigs) adj3 (incentive* or incentiviz* or incentivis* or reward* or prize* or voucher* or lotter* or raffle* or gift* or inducement* or motivat* or cash or money* or monetar* or finance* or financial* or competition* or contest*)).ti,ab.	2941
3	((Smokefree* or smoke-free* or "smoke free") adj3 (incentive* or incentiviz* or incentivis* or reward* or prize* or voucher* or lotter* or raffle* or gift* or inducement* or motivat* or cash or money* or monetar* or finance* or financial* or policy* or policies*)).ti,ab.	816
4	((Smokefree* or smoke-free* or smoke free*) and (competition* or contest*)).ti,ab.	41
5	or/1-4	4169
6	("reception year" or "reception grade*" or "year one" or "year 1" or "year two" or "year 2" or "year three" or "year 3" or "year four" or "year 4" or "year five" or "year 5" or "year six" or "year 6" or "key stage one" or "key stage 1" or "key stage two" or "key stage 2" or "grade one" or "grade 1" or "grade two" or "grade 2" or "grade three" or "grade 3" or "grade four" or "grade 4" or "grade five" or "grade 5" or "grade six" or "grade 6" or "first grade*" or "1st grade*" or "second grade*" or "2nd grade*" or "third grade*" or "3rd grade*" or "fourth grade*" or "4th grade*" or "fifth grade*" or "5th grade*" or "sixth grade*" or "6th grade*").ti,ab.	83256
7	5 and 6	17
8	Animals/ not (Animals/ and Humans/)	4491681
9	7 not 8	17
10	limit 9 to (letter or historical article or comment or editorial or news or case reports)	0
11	9 not 10	17
12	limit 11 to english language	14
13	limit 12 to yr="2008 -Current"	13

11.1.8 Database name: MEDLINE-in-Process (including Epub Ahead-of-Print)

Database(s): **Ovid MEDLINE(R) Epub Ahead of Print** December 12, 2018, **Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations** December 12, 2018

Search Strategy:

#	Searches	Results
1	((smoking* or smoke* or tobacco* or nicotin* or cigar* or cigs) adj3 (incentive* or incentiviz* or incentivis* or reward* or prize* or voucher* or lotter* or raffle* or gift* or inducement* or motivat* or cash or money* or monetar* or finance* or financial* or competition* or contest*)).ti,ab.	375
2	((Smokefree* or smoke-free* or "smoke free") adj3 (incentive* or incentiviz* or incentivis* or reward* or prize* or voucher* or lotter* or raffle* or gift* or inducement* or motivat* or cash or money* or monetar* or finance* or financial* or policy* or policies*)).ti,ab.	111
3	((Smokefree* or smoke-free* or smoke free*) and (competition* or contest*)).ti,ab.	6
4	or/1-3	486
5	("reception year" or "reception grade*" or "year one" or "year 1" or "year two" or "year 2" or "year three" or "year 3" or "year four" or "year 4" or "year five" or "year 5" or "year six" or "year 6" or "key stage one" or "key stage 1" or "key stage two" or "key stage 2" or "grade one" or "grade 1" or "grade two" or "grade 2" or "grade three" or "grade 3" or "grade four" or "grade 4" or "grade five" or "grade 5" or "grade six" or "grade 6" or "first grade*" or "1st grade*" or "second grade*" or "2nd grade*" or "third grade*" or "3rd grade*" or "fourth grade*" or "4th grade*" or "fifth grade*" or "5th grade*" or "sixth grade*" or "6th grade*").ti,ab.	12539
6	4 and 5	1
7	limit 6 to english language	1
8	limit 7 to yr="2008 -Current"	1

11.1.9 Database name: PsycINFO

Database(s): **PsycINFO** 1806 to December Week 1 2018

Search Strategy:

#	Searches	Results
1	((smoking* or smoke* or tobacco* or nicotin* or cigar* or cigs) adj3 (incentive* or incentiviz* or incentivis* or reward* or prize* or voucher* or lotter* or raffle* or gift* or inducement* or motivat* or cash or money* or monetar* or finance* or financial* or competition* or contest*)).ti,ab.	2244
2	((Smokefree* or smoke-free* or "smoke free") adj3 (incentive* or incentiviz* or incentivis* or reward* or prize* or voucher* or lotter* or raffle* or gift* or inducement* or motivat* or cash or money* or monetar* or finance* or financial* or policy* or policies*)).ti,ab.	422
3	((Smokefree* or smoke-free* or smoke free*) and (competition* or contest*)).ti,ab.	25
4	or/1-3	2663
5	Elementary Schools/	7421
6	exp elementary school students/	42188
7	Elementary Education/	3275
8	Elementary School Teachers/	8232
9	Junior High Schools/	605
10	Junior High School Teachers/	1614
11	High School Education/	3795
12	Middle School Education/	696
13	Private School Education/	1047
14	Public School Education/	5096
15	Secondary Education/	5869
16	("reception year" or "reception grade*" or "year one" or "year 1" or "year two" or "year 2" or "year three" or "year 3" or "year four" or "year 4" or "year five" or "year 5" or "year six" or "year 6" or "key stage one" or "key stage 1" or "key stage two" or "key stage 2" or "grade	56064

one" or "grade 1" or "grade two" or "grade 2" or "grade three" or "grade 3" or "grade four" or "grade 4" or "grade five" or "grade 5" or "grade six" or "grade 6" or "first grade*" or "1st grade*" or "second grade*" or "2nd grade*" or "third grade*" or "3rd grade*" or "fourth grade*" or "4th grade*" or "fifth grade*" or "5th grade*" or "sixth grade*" or "6th grade*").ti,ab.

17 or/5-16	108482
18 4 and 17	8
19 limit 18 to ("column/opinion" or editorial or letter)	0
20 18 not 19	8
21 limit 20 to animal	0
22 20 not 21	8
23 limit 22 to english language	8
24 limit 23 to yr="2008-Current"	6

11.1.10 Database name: Social Policy and Practice (SPP)Database(s): **Social Policy and Practice** 201810

Search Strategy:

#	Searches	Results
1	((smoking* or smoke* or tobacco* or nicotin* or cigar* or cigs) adj3 (incentive* or incentiviz* or incentivis* or reward* or prize* or voucher* or lotter* or raffle* or gift* or inducement* or motivat* or cash or money* or monetar* or finance* or financial* or competition* or contest*)).ti,ab.	8
2	(smoking* or smoke* or tobacco* or nicotin* or cigar* or cigs).sh.	1071
3	((Smokefree* or smoke-free* or "smoke free") adj3 (incentive* or incentiviz* or incentivis* or reward* or prize* or voucher* or lotter* or raffle* or gift* or inducement* or motivat* or cash or money* or monetar* or finance* or financial* or policy* or policies*)).ti,ab.	11
4	(Smokefree* or smoke-free* or "smoke free").sh.	15
5	((Smokefree* or smoke-free* or smoke free*) and (competition* or contest*)).ti,ab.	0
6	or/1-5	1074
7	("reception year" or "reception grade*" or "year one" or "year 1" or "year two" or "year 2" or "year three" or "year 3" or "year four" or "year 4" or "year five" or "year 5" or "year six" or "year 6" or "key stage one" or "key stage 1" or "key stage two" or "key stage 2" or "grade one" or "grade 1" or "grade two" or "grade 2" or "grade three" or "grade 3" or "grade four" or "grade 4" or "grade five" or "grade 5" or "grade six" or "grade 6" or "first grade*" or "1st grade*" or "second grade*" or "2nd grade*" or "third grade*" or "3rd grade*" or "fourth grade*" or "4th grade*" or "fifth grade*" or "5th grade*" or "sixth grade*" or "6th grade*").ti,ab.	541
8	("reception year" or "reception grade*" or "year one" or "year 1" or "year two" or "year 2" or "year three" or "year 3" or "year four" or "year 4" or "year five" or "year 5" or "year six" or "year 6" or "key stage one" or "key stage 1" or "key stage two" or "key stage 2" or "grade one" or "grade 1" or "grade two" or "grade 2" or "grade three" or "grade 3" or "grade four" or "grade 4" or "grade five" or "grade 5" or "grade six" or "grade 6" or "first grade*" or "1st grade*" or "second grade*" or "2nd grade*" or "third grade*" or "3rd grade*" or "fourth grade*" or "4th grade*" or "fifth grade*" or "5th grade*" or "sixth grade*" or "6th grade*").sh.	27
9	or/7-8	552

10 6 and 9

2

11 limit 10 to yr="2008 -Current"

0

11.1.11 Database name: Sociological Abstracts

Set#	Searched for	Databases	Results
S1	TI,AB((smoking* or smoke* or tobacco* or nicotin* or cigar* or cigs) and (incentive* or incentiviz* or incentivis* or reward* or prize* or voucher* or lotter* or raffle* or gift* or inducement* or motivat* or cash or money* or monetar* or finance* or financial* or competition* or contest*))	Sociological Abstracts	1047
S2	TI,AB((Smokefree* or smoke-free* or "smoke free") and (incentive* or incentiviz* or incentivis* or reward* or prize* or voucher* or lotter* or raffle* or gift* or inducement* or motivat* or cash or money* or monetar* or finance* or financial* or policy* or policies*))	Sociological Abstracts	91
S3	TI,AB((Smokefree* or smoke-free* or smoke free*) and (competition* or contest*))	Sociological Abstracts	3
S4	S1 or s2 or s3	Sociological Abstracts These databases are searched for part of your query.	1129
S5	MAINSUBJECT.EXACT("Elementary Schools") OR MAINSUBJECT.EXACT("Elementary School Students")	Sociological Abstracts	4328
S6	TI,AB("reception year" or "reception grade*" or "year one" or "year 1" or "year two" or "year 2" or "year three" or "year 3" or "year four" or "year 4" or "year five" or "year 5" or "year six" or "year 6" or "key stage one" or "key stage 1" or "key stage two" or "key stage 2" or "grade one" or "grade 1" or "grade two" or "grade 2" or "grade three" or "grade 3" or "grade four" or "grade 4" or "grade five" or "grade 5" or "grade six" or "grade 6" or "first grade*" or "1st grade*" or "second grade*" or "2nd grade*" or "third grade*" or "3rd grade*" or "fourth grade*" or "4th grade*" or "fifth grade*" or "5th grade*" or "sixth grade*" or "6th grade*")	Sociological Abstracts	4880
S7	s5 or s6	Sociological Abstracts These databases are searched for part of your query.	8238

S8	s4 and s7	Sociological Abstracts These databases are searched for part of your query.	11
S9	(s4 and s7) AND yr(2008-2018)	Sociological Abstracts These databases are searched for part of your query.	4

11.2 Search narrative

The approach in the protocol was broadly based on CLUSTER because we wanted to locate papers relating to the intervention that we already knew about. We did not follow all of the steps in the method because the adviser wanted more database searching to be done. The protocol allowed for additional steps to be followed for interventions or papers identified during sifting to be followed up. The known papers for initiating these searches were the relevant included papers from PH23, the relevant included papers from the surveillance report and the relevant included papers from the Cochrane review. All of these were added to the search results in their own right and then they were used for reference harvesting and forward citation searching. There was an additional round of indirect forward citation searching in WOS using selected, relevant results from the first round of direct forward citation searching. There was a further search for other papers by the lead authors of the initial cluster of papers.

There were more databases in this protocol than for the other reviews because the search results at scoping were so much lower and the strategies simpler so that more sources could be accommodated.

The test papers for constructing the searches were

- Isensee B, Hanewinkle R. (2012) "Meta-analysis on effects of Smoke Free Class competition on smoking prevention in adolescents", *European Addiction Research* 18: 110-115.
- Johnston V, Liberato S, Thomas D. (2012) "Incentives for preventing smoking in children and adolescents," *Cochrane database of systematic reviews* 17;10:CD008645.

The ASSIST intervention was not relevant as it is peer-led and we only want adult-led interventions in this review.

The terms for school pupils included students as the scope mentioned that young people at college were relevant. This also makes the search more consistent with the earlier ones for mass media.

The terms for incentives were based on the Johnston Cochrane review and they are consistent with the ones in the protocol for RQ5.2 for smoking cessation incentives during pregnancy.

Line 4 in Medline was originally run on its own without any schools terms but this was changed after testing to make it easier to translate and because it was not retrieving any relevant studies that would be missed by applying the schools set.

It was not appropriate to translate the search directly because of differences in the indexing terms. For example, the MeSH term Smoke-Free Policy/ maps to the Emtree term smoking ban/ but that's not really the same thing so the Embase strategy only has free text in the first

set. In PsycINFO the heading Tobacco Smoking/ was felt to be too broad to be useful for this specific intervention.

The ERIC search was kept simple and did not include any terms for schools because the setting was implicit in the topic-specific nature of the database. The numbers were low enough that it would be quicker to sift out irrelevant hits than it would have been to study the thesaurus and then get a more complicated search to work on this ProQuest platform.

The HMIC and SPP searches had the same issue as the mass media searches and so simplified versions of the free-text were run in the .sh field. This means that the search is wider than it needs to be because the subject headings are for smoking in general and schools in general but as the numbers are so low it might be useful in grey lit sources to see some of the wider hits.

The searches on the ProQuest platform had technical issues and error messages. The strategies were simplified e.g. removing adjacency and using "and" instead. The numbers were low enough to be able to do this. We were unable to apply the publication-type limit in Sociological Abstracts and so the results included dissertations, which were excluded in the protocol.

We were advised to still use a date limit on the searches, despite the low numbers. However, the extensive use of Web of Science for reference harvesting and the inclusion of the includes from PH23 meant that there were about 100 search results in EndNote published before 2008. These were left in the results, rather than being deleted in WOS or EndNote because it was clear that a number of them were directly relevant.

Also, there are quite a few results that are not in English, even though there was a language limit on the database search. This originated with the WOS reference harvesting and citation searching. The intervention had European Commission funding so a lot of the research was done in Germany. There is not a convenient way of eliminating non-English papers from the marked list in WOS. A number of these were directly relevant to the question and so they were not manually deleted in EndNote.

A number of the website search and browse results were journal articles e.g. the list of publications from the smokefree project. This means that the website results were divided between the journal articles added to EndNote and the grey literature results added to a Word file. In mass media and retail all of the website results were added to Word. The journal articles identified on websites were not added to EndNote if they had already been found from the database searches.

The Google searches were done iteratively after the website browsing. A series of different searches were done using UK sites and pdf restrictions so that the results could be viewed quickly, rather than trying to do an overarching search. At least 100 results were checked on screen for each search. An additional search was done for the outputs of the European Commission project and these were listed together, rather than as separate documents.

The website of the Institute for Therapy and Health Research (IFT-Nord), Germany was added during the searches as they were a key publisher and host of the relevant projects.

Top up search

An additional search was done on 14 December 2018 to cover children aged 5-11. The full search history is recorded separately but they should be combined if re-running or updating the searches.

The top up search added the following terms to MEDLINE:

("reception year" or "reception grade*" or "year one" or "year 1" or "year two" or "year 2" or "year three" or "year 3" or "year four" or "year 4" or "year five" or "year 5" or "year six" or "year 6" or "key stage one" or "key stage 1" or "key stage two" or "key stage 2" or "grade one" or "grade 1" or "grade two" or "grade 2" or "grade three" or "grade 3" or "grade four" or "grade 4" or "grade five" or "grade 5" or "grade six" or "grade 6" or "first grade*" or "1st grade*" or "second grade*" or "2nd grade*" or "third grade*" or "3rd grade*" or "fourth grade*" or "4th grade*" or "fifth grade*" or "5th grade*" or "sixth grade*" or "6th grade*").ti,ab

No additional MeSH terms were required.

Additional headings were required in ASSIA, Embase, PsycINFO and Sociological Abstracts. Some additional terms that could have been included in the main search were also added to PsycINFO and all of these should be added if that strategy is re-run.

The search was run on the same databases as above, except for ERIC as the age-related terms were not used in the main search anyway.

The top-up search had 44 results, 15 duplicates were removed, leaving 29. The 29 were compared to the EndNote file for the main search and anything that would have already been screened was removed. A further 18 were removed, leaving 11 new hits from the top up for screening.

12 Search for RQ1, RQ2, RQ3 (Cost effectiveness)

<p>Topic: Tobacco Portfolio</p> <p>Question details:</p> <p>Cost Effectiveness elements of:</p> <ul style="list-style-type: none"> • 1.1a. Which mass media interventions delivered through digital media are effective and cost effective in preventing children, young people and young adults from taking up smoking? • 1.1b. Are these interventions acceptable for young people and young adults? • 1.2a. Are smoking cessation mass media campaigns aimed at adults, including those delivered through digital media, effective and cost effective in preventing uptake of smoking among children, young people and young adults? • 1.2b. Do these interventions change children, young people and young adults' perceptions of the social acceptability of smoking or people who smoke? In what way, and what aspects of interventions are perceived as having caused the change? • 2.1 Which interventions are effective and cost effective at reducing proxy purchasing of tobacco on behalf of children and young people, through engaging and educating retailers and the general public? • 2.2 Which interventions are effective and cost effective at reducing the supply of illicit tobacco to children, young people and young adults, through engaging and educating retailers and the general public? • 3.1a. Are smokefree class competitions effective and cost effective at preventing children and young people from taking up smoking? • 3.1b. Are smokefree class competitions acceptable to children and young people? Do they affect their ability to cope with stress or pressure, or their self-esteem and self-efficacy? What are the barriers and facilitators to successful adoption of the intervention by the population?
--

12.1 Table of results

Search source	Date searched	Database Platform	Database segment or version
Campbell	28/01/2019	https://campbellcollaboration.org/library.html	28/01/2019 with 356 records
EconLit	29/01/2019	Ovid	Econlit 1886 to January 24, 2019
Embase	29/01/2019	Ovid	Embase 1974 to 2019 January 28
HTA	29/01/2019	CRD https://www.crd.york.ac.uk/CRDWeb/	Last updated 31 March 2018
MEDLINE	29/01/2019	Ovid	Ovid MEDLINE(R) ALL 1946 to January 28, 2019
NHS EED	29/01/2019	CRD	Last updated 31st March 2015

		https://www.crd.york.ac.uk/CRDWeb/	
Websites	28/01/2019	Browsed original search results	

Search source	No. of records retrieved	Total Results	De-duplicated
Campbell	0	3849	3110
EconLit	167		
Embase	1248		
HTA	203		
MEDLINE	1773		
NHS EED	447		
Websites	11		

12.2 Database strategies

12.2.1 Outline

The search ORed together the original 3 strategies and then applies the agreed CE filter and other limits.

(smoking OR tobacco OR cigarettes or shisha or vaping) AND
(mass media or digital media) AND
(children OR young people OR young adults)

Tobacco AND (Proxy sales OR Under age sales)
OR

Tobacco AND Young people AND Retail
OR

Tobacco AND Online activities AND Retail
OR

Tobacco AND Illicit activities AND Retail
OR

Tobacco AND Illicit activities AND Young people

(smokefree class competitions) OR
(smokefree policies AND schools)

AND Cost Effectiveness filter
AND 1998-Current AND Limits

12.2.2 Source: Campbell Library

Just searched for single words – once in the keywords, and once in the title field. Used the words as below (no truncation or nesting available on the website).

smoking	rollies
smoker	bupropion
antismok	zyban
anti smok	varenicline
anti-smok	chamfix
exsmoker	nicorette
ex-smoker	niquitin
"ex smoker"	nicotinell
nonsmoker	nicassist
non-smoker	waterpipe
"non smoker"	water pipe
tobacco	dokha
nicotin	hooka
cigar	shisha
cigs	sheesha
ecig	
e-cig	
e-voke	
juul	
vape	
vaping	
ENNDS	
bidi	
beedi	
kretek	
hand roll	
handroll	

Only had one hit from all of those searches (conducted on 28 Jan 2019) but did not add to EndNote as it is LMIC.

Effectiveness of interventions for tobacco control in low- and middle-income countries: an evidence and gap map
<https://www.campbellcollaboration.org/library/intervention-effectiveness-tobacco-control-in-low-and-middle-income-countries.html>

12.2.3 Source: EconLit

Database(s): **Econlit** 1886 to January 24, 2019

Search Strategy:

#	Searches	Results
1	(smoking* or smoker* or antismok* or anti smok* or anti-smok* or exsmoker* or ex-smoker* or "ex smoker*" or nonsmoker* or non-smoker* or "non smoker*").ti,ab.	2013
2	(tobacco* or nicotin* or cigar* or cigs).ti,ab.	2478
3	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping or ENNDS).ti,ab.	26
4	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).ti,ab.	26
5	(bupropion* or zyban* or varenicline* or champix* or nicorette* or niquitin* or nicotinell* or nicassist*).ti,ab.	6
6	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).ti,ab.	18
7	or/1-6	3612
8	((digital* or digitis* or digitiz* or electronic* or wireless or online) adj3 (intervention* or communicat* or technol* or media* or market* or campaign* or advert* or ad or ads or commercial* or device* or platform* or forum* or community* or communities* or discussion*).ti,ab.	3299
9	(ehealth* or e-health* or mhealth* or m-health* or mobile health*).ti,ab.	61
10	((laptop or palm or handheld or tablet or pda or pc) adj3 comput*).ti,ab.	63
11	((mobile* or cell* or tablet*) adj (phone* or telephone* or handset* or hand-set*).ti,ab.	1142
12	(smartphone* or smart-phone* or smart telephone* or iphone* or i-phone* or ipad* or i-pad* or blackberry* or smartwatch* or smart-watch* or android or device-based or mobile-based or podcast*).ti,ab.	344
13	((mobile or electronic* or digital*) adj3 (device* or tablet* or application*).ti,ab.	387
14	(app or apps or online* or on-line* or internet* or www or web or website* or webpage* or webcast* or portal or search engine*).ti,ab.	15815

15	(social media* or social network* or blog* or vlog* or video-blog*).ti,ab.	4311
16	(Bebo* or Facebook* or YouTube* or Twitter* or LinkedIn* or Pinterest* or Google* or Tumblr* or Instagram* or WhatsApp* or Reddit* or Flickr* or SnapChat* or Yahoo* or Bing* or MSN* or Wikipedia* or Myspace*).ti,ab.	1681
17	(e-mail* or email* or electronic mail* or mailing list*).ti,ab.	525
18	(text messag* or texting or texter* or texted or SMS or short messag* or multimedia messag* or multi-media messag* or mms or instant messag*).ti,ab.	260
19	(advergame or advergaming).ti,ab.	7
20	(marketing or advertis* or publicis* or publiciz* or publicity or mass media or media campaign* or communication* media*).ti,ab.	20522
21	((tv or television* or televize* or televise* or cable or satellite or cinema* or movie* or media or newspaper* or journal* or magazine* or interactive* or dvd or dvds or video* or tape or tapes or cassette* or motion picture* or film or films or broadcast* or radio* or audio* or telecommunicat*) adj3 (market* or campaign* or advert* or ad or ads or commercial* or program* or intervention* or information*)).ti,ab.	3482
22	((pamphlet* or handout* or hand out* or booklet* or leaflet* or literature or poster or posters or publication* or viral* or buzz*) adj3 (market* or campaign* or advert* or commercial* or program* or intervention* or information*)).ti,ab.	1600
23	((outreach* or written* or printed* or oral* or campaign* or resource* or disseminat*) adj1 information).ti,ab.	611
24	((nationwide* or statewide* or countrywide* or citywide* or national* or nation wide* or state wide* or country wide* or city wide* or government*) adj3 (market* or campaign* or advert* or commercial* or program* or intervention* or information*)).ti,ab.	11013
25	or/8-24	56269
26	7 and 25	386
27	(young* adj2 (adult* or person* or people* or men or man or women or woman or male* or female*)).ti,ab.	4827
28	(child* or adolescen* or kid or kids or youth* or youngster* or minor or minors or underage* or under-age* or "under age*" or teen or teens or teenager* or juvenile* or boy or boys or	53240

	boyhood or girl or girls or girlhood or schoolchild* or "school age*" or schoolage* or pupil or pupils or student*).ti,ab.	
29	("under 18" or "under eighteen*" or "under 25" or "under twenty five*").ti,ab.	48
30	("five" or "six" or "seven" or "eight" or "nine" or "ten" or "eleven" or "twelve" or "thirteen" or "fourteen" or "fifteen" or "sixteen" or "seventeen" or "eighteen" or "nineteen" or "twenty" or "twenty one" or "twenty two" or "twenty three" or "twenty four") adj2 (year or years or age or ages or aged)).ti,ab.	13642
31	("5" or "6" or "7" or "8" or "9" or "10" or "11" or "12" or "13" or "14" or "15" or "16" or "17" or "18" or "19" or "20" or "21" or "22" or "23" or "24") adj2 (year or years or age or ages or aged)).ti,ab.	14813
32	or/27-31	78875
33	26 and 32	101
34	(smoking* or smoker* or antismok* or anti smok* or anti-smok* or exsmoker* or ex-smoker* or "ex smoker*" or nonsmoker* or non-smoker* or "non smoker*").ti,ab.	2013
35	(tobacco* or cigar* or cigs).ti,ab.	2456
36	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).ti,ab.	26
37	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).ti,ab.	18
38	or/34-37	3603
39	((proxy* or proxies*) adj3 (trading* or trade or trades or sold* or sale* or sell or sells or supply* or supplied or supplies or retail* or vend or vends or vending or shopping or shopped or selling* or purchas* or bought* or buys or buy or buying or consumer* or customer* or shop or shops or obtain* or procur*)).ti,ab.	281
40	((proxy* or proxies*) adj3 (parent* or mother* or father* or family* or families* or relatives or friend* or sibling* or brother* or sister* or adult or adults or older*)).ti,ab.	56
41	((underage* or under age* or under-age*) adj3 (trading* or trade or trades or sold* or sale* or sell or sells or supply* or supplied or supplies or retail* or vend or vends or vending or shopping or shopped or selling* or purchas* or bought* or buys or buy or buying or consumer* or customer* or shop or shops or obtain* or procur*)).ti,ab.	9

42	(age* adj3 (verify* or verifies* or verification* or verified* or proof* or prove*)).ti,ab.	157
43	((identity* or identification* or ID) adj3 (verify* or verifies* or verification* or verified* or proof* or prove* or evidence* or show* or demand* or request*)).ti,ab.	477
44	or/39-43	979
45	38 and 44	10
46	(retail* or newsagent* or shopkeeper* or shop keeper* or vendor* or supermarket* or store keeper* or storekeeper* or merchant* or tobacconist* or shop or shops or shopping or shopped or store or stores or "off licence*" or "off license*" or officence* or offlicense* or business* or commerce* or commercial* or trading* or trade or trades or trader* or "sales assistant*" or shopworker* or seller* or "super market*").ti,ab.	224273
47	(young* adj2 (adult* or person* or people* or men or man or women or woman or male* or female*)).ti,ab.	4827
48	(child* or adolescen* or kid or kids or youth* or youngster* or minor or minors or underage* or under-age* or "under age*" or teen or teens or teenager* or juvenile* or boy or boys or boyhood or girl or girls or girlhood or schoolchild* or "school age*" or schoolage* or pupil or pupils or student*).ti,ab.	53240
49	("under 18" or "under eighteen*" or "under 25" or "under twenty five*").ti,ab.	48
50	("five" or "six" or "seven" or "eight" or "nine" or "ten" or "eleven" or "twelve" or "thirteen" or "fourteen" or "fifteen" or "sixteen" or "seventeen" or "eighteen" or "nineteen" or "twenty" or "twenty one" or "twenty two" or "twenty three" or "twenty four") adj2 (year or years or age or ages or aged)).ti,ab.	13642
51	("5" or "6" or "7" or "8" or "9" or "10" or "11" or "12" or "13" or "14" or "15" or "16" or "17" or "18" or "19" or "20" or "21" or "22" or "23" or "24") adj2 (year or years or age or ages or aged)).ti,ab.	14813
52	or/47-51	78875
53	38 and 46 and 52	53
54	((illicit* or illegal* or counterfeit* or fake* or black market* or unbrand* or disguise* or disguising or prohibit* or smuggl* or bootleg* or contraband* or untax* or unlawful* or crime* or criminal* or law enforcement* or legal* or genuine* or lawful* or branded or "trade mark*" or taxed or fraud*) adj3 (tobacco* or cigar* or cigs or smoking* or smoker* or	96

	antismok* or anti smok* or anti-smok* or exsmoker* or ex-smoker* or "ex smoker*" or nonsmoker* or non-smoker* or "non smoker*" or bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies or waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas)).ti,ab.	
55	((tax* or taxes or taxation* or duty or duties or customs or excise*) adj3 (avoid* or evad* or evasion* or unpaid* or paid* or pay*)).ti,ab.	5426
56	or/54-55	5514
57	38 and 56 and 46	27
58	38 and 56 and 52	16
59	(etail* or etrading* or etrade or etrades or eshopping or eshopped or eselling* or econsumer* or ecustomer* or eshop or eshops or ecommerc* or ebusiness* or "e-tail*" or "e-trading*" or "e-trade" or "e-trades" or "e-shopping" or "e-shopped" or "e-selling*" or "e-consumer*" or "e-customer*" or "e-shop" or "e-shops" or "e-commerc*" or "e-business*").ti,ab.	1389
60	((computer* or digital* or digitis* or digitiz* or electronic* or wireless or online* or smartphone* or smart-phone* or smart telephone* or iphone* or i-phone* or ipad* or i-pad* or app or apps or internet* or net or www or web or website* or webpage* or webcast* or portal* or search engine* or multimedia* or text messag* or texting or texter* or texted or SMS or e-mail* or email* or electronic mail* or encrypt* or blog* or vlog*) adj3 (trading* or trade or trades or sold* or sale* or sell or sells or supply* or supplied or supplies or retail* or vend or vends or vending or shopping or shopped or selling* or purchas* or bought* or buys or buy or buying or consumer* or customer* or shop or shops or obtain* or procur* or auction* or marketplace* or market or markets or business* or entrepreneur* or enterprise* or corporation* or company* or companies* or commerc*)).ti,ab.	7024
61	((Bebo* or Facebook* or YouTube* or Twitter* or LinkedIn* or Pinterest* or Google* or Tumblr* or Instagram* or WhatsApp* or Reddit* or Flickr* or SnapChat* or Yahoo* or Bing* or MSN* or Wikipedia* or Myspace* or Amazon* or Ebay* or Bitcoin* or DarkWeb* or Darknet* or P2P or Tor) adj3 (trading* or trade or trades or sold* or sale* or sell or sells or supply* or supplied or supplies or retail* or vend or vends or vending or shopping or shopped or selling* or purchas* or bought* or buys or buy or buying or consumer* or customer* or shop or shops or obtain* or procur* or auction* or marketplace* or market or	405

	markets or business* or entrepreneur* or enterprise* or corporation* or company* or companies* or commerc*)),ti,ab.	
62 or/59-61		8117
63 38 and 62		20
64 45 or 53 or 57 or 58 or 63		119
65	((smoking* or smoke* or tobacco* or nicotin* or cigar* or cigs) adj3 (incentive* or incentiviz* or incentivis* or reward* or prize* or voucher* or lotter* or raffle* or gift* or inducement* or motivat* or cash or money* or monetar* or finance* or financial* or competition* or contest*)),ti,ab.	81
66	((Smokefree* or smoke-free* or "smoke free") adj3 (incentive* or incentiviz* or incentivis* or reward* or prize* or voucher* or lotter* or raffle* or gift* or inducement* or motivat* or cash or money* or monetar* or finance* or financial* or policy* or policies*)),ti,ab.	9
67	((Smokefree* or smoke-free* or smoke free*) and (competition* or contest*)),ti,ab.	0
68 or/65-67		90
69	(school* or academy or academies or "city technology*" or "sixth form*" or "6th form" or "education cent*" or "secure unit*" or "training unit*" or "secure training*" or "referral unit*" or "offender institute*" or "pupil referral*" or college* or "further education*" or "junior high").ti,ab.	42891
70	(pupil* or student* or teacher* or classroom* or class or classes or teaching assistant* or headteacher* or curricul*).ti,ab.	48630
71	("personal social health" adj1 education*) or PSHE).ti,ab.	1
72	("whole-school*" or wholeschool* or "whole school*"),ti,ab.	14
73	("reception year" or "reception grade*" or "year one" or "year 1" or "year two" or "year 2" or "year three" or "year 3" or "year four" or "year 4" or "year five" or "year 5" or "year six" or "year 6" or "key stage one" or "key stage 1" or "key stage two" or "key stage 2" or "grade one" or "grade 1" or "grade two" or "grade 2" or "grade three" or "grade 3" or "grade four" or "grade 4" or "grade five" or "grade 5" or "grade six" or "grade 6" or "first grade*" or "1st grade*" or "second grade*" or "2nd grade*" or "third grade*" or "3rd grade*" or "fourth grade*" or "4th grade*" or "fifth grade*" or "5th grade*" or "sixth grade*" or "6th grade*" or "year seven" or "year 7" or "year eight" or "year 8" or "year nine" or "year 9" or "year ten" or	1219

"year 10" or "year eleven" or "year 11" or "year twelve" or "year 12" or "year thirteen" or "year 13" or "key stage three" or "key stage 3" or "key stage four" or "key stage 4" or "grade six" or "grade 6" or "grade seven" or "grade 7" or "grade eight" or "grade 8" or "grade nine" or "grade 9" or "grade ten" or "grade 10" or "grade eleven" or "grade 11" or "grade twelve" or "grade 12" or "sixth grade*" or "6th grade*" or "seventh grade*" or "7th grade*" or "eighth grade*" or "8th grade*" or "ninth grade*" or "9th grade*" or "tenth grade*" or "10th grade*" or "eleventh grade*" or "11th grade*" or "twelfth grade*" or "12th grade*").ti,ab.

74 or/69-73	80011
75 68 and 74	4
76 33 or 65 or 75	179
77 limit 76 to yr="1998 -Current"	167

12.2.4 Source: Embase

Database(s): **Embase** 1974 to 2019 January 28

Search Strategy:

#	Searches	Results
1	"tobacco use"/	7970
2	tobacco consumption/	1992
3	tobacco/	42305
4	tobacco dependence/	18825
5	"smoking and smoking related phenomena"/	180
6	smoking/	278073
7	smoking habit/	21190
8	cigar smoking/	97
9	cigarette smoking/	51715
10	bidi smoking/	119
11	exp pipe smoking/	162
12	exp parental smoking/	7091
13	adolescent smoking/	1668
14	smoking reduction/	88
15	smoking prevention/	366
16	smoking cessation/	53877
17	smoking cessation program/	3034
18	nicotine replacement therapy/	4690
19	nicotine/	42245
20	nicotine gum/	2840

21	nicotine lozenge/	258
22	nicotine patch/	1973
23	exp smoking device/	5252
24	vaping/	673
25	Varenicline/	4054
26	Bupropion/	16711
27	(smoking* or smoker* or antismok* or anti smok* or anti-smok* or exsmoker* or ex-smoker* or "ex smoker*" or nonsmoker* or non-smoker* or "non smoker*").ti,ab.	336441
28	(tobacco* or nicotin* or cigar* or cigs).ti,ab.	236725
29	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping or ENNDS).ti,ab.	3530
30	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).ti,ab.	811
31	(bupropion* or zyban* or varenicline* or champix* or nicorette* or niquitin* or nicotinell* or nicassist*).ti,ab.	7586
32	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).ti,ab.	2318
33	or/1-32	587167
34	multimedia/	3564
35	audio recording/	2562
36	videorecording/	73698
37	personal digital assistant/	1306
38	internet/	101326
39	blogging/	258
40	social network/	13434
41	social media/	14018

42	e-mail/	18073
43	mobile phone/	14888
44	text messaging/	3863
45	smartphone/	7329
46	video game/	2443
47	mobile application/	7446
48	((digital* or digitis* or digitiz* or electronic* or wireless or online) adj3 (intervention* or communicat* or technol* or media* or market* or campaign* or advert* or ad or ads or commercial* or device* or platform* or forum* or community* or communities* or discussion*)).ti,ab.	37742
49	(ehealth* or e-health* or mhealth* or m-health* or mobile health*).ti,ab.	8242
50	((laptop or palm or handheld or tablet or pda or pc) adj3 comput*).ti,ab.	4124
51	((mobile* or cell* or tablet*) adj (phone* or telephone* or handset* or hand-set*)).ti,ab.	12432
52	(smartphone* or smart-phone* or smart telephone* or iphone* or i-phone* or ipad* or i-pad* or blackberry* or smartwatch* or smart-watch* or android or device-based or mobile-based or podcast*).ti,ab.	21195
53	((mobile or electronic* or digital*) adj3 (device* or tablet* or application*)).ti,ab.	22052
54	(app or apps or online* or on-line* or internet* or www or web or website* or webpage* or webcast* or portal or search engine*).ti,ab.	458831
55	(social media* or social network* or blog* or vlog* or video-blog*).ti,ab.	27673
56	(Bebo* or Facebook* or YouTube* or Twitter* or LinkedIn* or Pinterest* or Google* or Tumblr* or Instagram* or WhatsApp* or Reddit* or Flickr* or SnapChat* or Yahoo* or Bing* or MSN* or Wikipedia* or Myspace*).ti,ab.	56506
57	(e-mail* or email* or electronic mail* or mailing list*).ti,ab.	29451
58	(text messag* or texting or texter* or texted or SMS or short messag* or multimedia messag* or multi-media messag* or mms or instant messag*).ti,ab.	17226

59	(advergame or advergaming or advergaming).ti,ab.	27
60	telephone/	34427
61	mass communication/	13873
62	mass medium/	17408
63	radio/	334
64	television/	12866
65	webcast/	312
66	wireless communication/	4462
67	information dissemination/	19549
68	persuasive communication/	7997
69	nonverbal communication/	8182
70	telecommunication/	23004
71	movie/	1278
72	marketing/	21994
73	exp social marketing/	5153
74	advertising/	2496
75	audiovisual aid/	706
76	(marketing or advertis* or publicis* or publiciz* or publicity or mass media or media campaign* or communication* media*).ti,ab.	61861
77	((tv or television* or televize* or televise* or cable or satellite or cinema* or movie* or media or newspaper* or journal* or magazine* or interactive* or dvd or dvds or video* or tape or tapes or cassette* or motion picture* or film or films or broadcast* or radio* or audio* or telecommunicat*) adj3 (market* or campaign* or advert* or ad or ads or commercial* or program* or intervention* or information*)).ti,ab.	51948

78	((pamphlet* or handout* or hand out* or booklet* or leaflet* or literature or poster or posters or publication* or viral* or buzz*) adj3 (market* or campaign* or advert* or commercial* or program* or intervention* or information*)).ti,ab.	17366
79	((outreach* or written* or printed* or oral* or campaign* or resource* or disseminat*) adj1 information).ti,ab.	10493
80	((nationwide* or statewide* or countrywide* or citywide* or national* or nation wide* or state wide* or country wide* or city wide* or government*) adj3 (market* or campaign* or advert* or commercial* or program* or intervention* or information)).ti,ab.	50827
81	or/34-80	987399
82	33 and 81	28854
83	"minor (person)"/	538
84	adolescent behavior/	8086
85	adolescent/	1402908
86	adolescent health/	7537
87	adolescent development/	3411
88	adolescence/	34756
89	child behavior/	42054
90	child development/	42071
91	child/	1544670
92	boy/	26657
93	girl/	37843
94	school child/	334246
95	young adult/	275190
96	juvenile/	36250

97	student/ or college student/ or elementary student/ or high school student/ or middle school student/ or non-medical student/ or undergraduate student/ or university student/	130990
98	(young* adj2 (adult* or person* or people* or men or man or women or woman or male* or female*)).ti,ab. (child* or adolescen* or kid or kids or youth* or youngster* or minor or minors or underage* or under-age* or "under age*" or teen or teens or teenager* or juvenile* or boy or boys or boyhood or girl or girls or girlhood or schoolchild* or "school age*" or schoolage* or pupil or pupils or student*).ti,ab.	277926
99		2493114
100	("under 18" or "under eighteen*" or "under 25" or "under twenty five*").ti,ab.	5686
101	((("five" or "six" or "seven" or "eight" or "nine" or "ten" or "eleven" or "twelve" or "thirteen" or "fourteen" or "fifteen" or "sixteen" or "seventeen" or "eighteen" or "nineteen" or "twenty" or "twenty one" or "twenty two" or "twenty three" or "twenty four") adj2 (year or years or age or ages or aged)).ti,ab.	317095
102	((("5" or "6" or "7" or "8" or "9" or "10" or "11" or "12" or "13" or "14" or "15" or "16" or "17" or "18" or "19" or "20" or "21" or "22" or "23" or "24") adj2 (year or years or age or ages or aged)).ti,ab.	2079114
103	or/83-102	5210280
104	82 and 103	12443
105	"tobacco use"/	7970
106	tobacco consumption/	1992
107	tobacco/	42305
108	tobacco dependence/	18825
109	"smoking and smoking related phenomena"/	180
110	smoking/	278073
111	smoking habit/	21190
112	cigar smoking/	97
113	cigarette smoking/	51715

114	bidi smoking/	119
115	exp pipe smoking/	162
116	exp parental smoking/	7091
117	adolescent smoking/	1668
118	smoking reduction/	88
119	smoking prevention/	366
120	smoking cessation/	53877
121	smoking cessation program/	3034
122	exp smoking device/	5252
123	(smoking* or smoker* or antismok* or anti smok* or anti-smok* or exsmoker* or ex-smoker* or "ex smoker*" or nonsmoker* or non-smoker* or "non smoker*").ti,ab.	336441
124	(tobacco* or cigar* or cigs).ti,ab.	167872
125	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).ti,ab.	811
126	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).ti,ab.	2318
127	or/105-126	509874
128	proxy/	708
129	((proxy* or proxies*) adj3 (trading* or trade or trades or sold* or sale* or sell or sells or supply* or supplied or supplies or retail* or vend or vends or vending or shopping or shopped or selling* or purchas* or bought* or buys or buy or buying or consumer* or customer* or shop or shops or obtain* or procur*)).ti,ab.	244
130	((proxy* or proxies*) adj3 (parent* or mother* or father* or family* or families* or relatives or friend* or sibling* or brother* or sister* or adult or adults or older*)).ti,ab.	1825
131	((underage* or under age* or under-age*) adj3 (trading* or trade or trades or sold* or sale* or sell or sells or supply* or supplied or supplies or retail* or vend or vends or	153

vending or shopping or shopped or selling* or purchas* or bought* or buys or buy or buying or consumer* or customer* or shop or shops or obtain* or procur*)),ti,ab.	
132 (age* adj3 (verify* or verifies* or verification* or verified* or proof* or prove*)),ti,ab.	5056
133 ((identity* or identification* or ID) adj3 (verify* or verifies* or verification* or verified* or proof* or prove* or evidence* or show* or demand* or request*)),ti,ab.	14192
134 or/128-133	22009
135 127 and 134	482
136 commercial phenomena/ (retail* or newsagent* or shopkeeper* or shop keeper* or vendor* or supermarket* or store keeper* or storekeeper* or merchant* or tobacconist* or shop or shops or	41130
137 shopping or shopped or store or stores or "off licence*" or "off license*" or officence* or offlicense* or business* or commerce* or commercial* or trading* or trade or trades or trader* or "sales assistant*" or shopworker* or seller* or "super market*"),ti,ab.	632471
138 or/136-137	651043
139 "minor (person)"/	538
140 adolescent behavior/	8086
141 adolescent/	1402908
142 adolescent health/	7537
143 adolescent development/	3411
144 adolescence/	34756
145 child behavior/	42054
146 child development/	42071
147 child/	1544670
148 boy/	26657
149 girl/	37843

150	school child/	334246
151	young adult/	275190
152	juvenile/	36250
153	student/ or college student/ or elementary student/ or high school student/ or middle school student/ or non-medical student/ or undergraduate student/ or university student/	130990
154	(young* adj2 (adult* or person* or people* or men or man or women or woman or male* or female*)).ti,ab.	277926
155	(child* or adolescen* or kid or kids or youth* or youngster* or minor or minors or underage* or under-age* or "under age*" or teen or teens or teenager* or juvenile* or boy or boys or boyhood or girl or girls or girlhood or schoolchild* or "school age*" or schoolage* or pupil or pupils or student*).ti,ab.	2493114
156	("under 18" or "under eighteen*" or "under 25" or "under twenty five*").ti,ab.	5686
157	((("five" or "six" or "seven" or "eight" or "nine" or "ten" or "eleven" or "twelve" or "thirteen" or "fourteen" or "fifteen" or "sixteen" or "seventeen" or "eighteen" or "nineteen" or "twenty" or "twenty one" or "twenty two" or "twenty three" or "twenty four") adj2 (year or years or age or ages or aged)).ti,ab.	317095
158	((("5" or "6" or "7" or "8" or "9" or "10" or "11" or "12" or "13" or "14" or "15" or "16" or "17" or "18" or "19" or "20" or "21" or "22" or "23" or "24") adj2 (year or years or age or ages or aged)).ti,ab.	2079114
159	or/139-158	5210280
160	127 and 138 and 159	3637
161	law enforcement/	9691
162	crime/	19535
163	Criminal behavior/	7957
164	fraud/	1951
165	((illicit* or illegal* or counterfeit* or fake* or black market* or unbrand* or disguise* or disguising or prohibit* or smuggl* or bootleg* or contraband* or untax* or unlawful* or crime* or criminal* or law enforcement* or legal* or genuine* or lawful* or branded or	2970

"trade mark*" or taxed or fraud*) adj3 (tobacco* or cigar* or cigs or smoking* or smoker* or antimok* or anti smok* or anti-smok* or exsmoker* or ex-smoker* or "ex smoker*" or nonsmoker* or non-smoker* or "non smoker*" or bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies or waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas)).ti,ab.	
166 ((tax* or taxes or taxation* or duty or duties or customs or excise*) adj3 (avoid* or evad* or evasion* or unpaid* or paid* or pay*)).ti,ab.	1079
167 or/161-166	41222
168 127 and 138 and 167	597
169 127 and 159 and 167	2139
170 commercial phenomena/	41130
171 purchasing/	5660
172 shopping/	2058
173 Entrepreneurship/	300
174 or/170-173	48790
175 internet/	101326
176 blogging/	258
177 social media/	14018
178 multimedia/	3564
179 personal digital assistant/	1306
180 personal computer/	348
181 e-mail/	18073
182 mobile phone/	14888
183 text messaging/	3863

184	smartphone/	7329
185	mobile application/	7446
186	or/175-185	154284
187	174 and 186	2092
188	electronic commerce/ (etail* or etrading* or etrade or etrades or eshopping or eshopped or eselling* or econsumer* or ecustomer* or eshop or eshops or ecommerc* or ebusiness* or "e-tail*" or "e-trading*" or "e-trade" or "e-trades" or "e-shopping" or "e-shopped" or "e-selling*" or "e-consumer*" or "e-customer*" or "e-shop" or "e-shops" or "e-commerc*" or "e-business*").ti,ab.	182
189	or "e-trading*" or "e-trade" or "e-trades" or "e-shopping" or "e-shopped" or "e-selling*" or "e-consumer*" or "e-customer*" or "e-shop" or "e-shops" or "e-commerc*" or "e-business*").ti,ab. (computer* or digital* or digitis* or digitiz* or electronic* or wireless or online* or smartphone* or smart-phone* or smart telephone* or iphone* or i-phone* or ipad* or i-pad* app or apps or internet* or net or www or web or website* or webpage* or webcast* or portal* or search engine* or multimedia* or text messag* or texting or texter* or texted or SMS or e-mail* or email* or electronic mail* or encrypt* or blog* or vlog*) adj3 (trading* or trade or trades or sold* or sale* or sell or sells or supply* or supplied or supplies or retail* or vend or vends or vending or shopping or shopped or selling* or purchas* or bought* or buys or buy or buying or consumer* or customer* or shop or shops or obtain* or procur* or auction* or marketplace* or market or markets or business* or entrepreneur* or enterprise* or corporation* or company* or companies* or commerc*).ti,ab.	545
190	vlog*) adj3 (trading* or trade or trades or sold* or sale* or sell or sells or supply* or supplied or supplies or retail* or vend or vends or vending or shopping or shopped or selling* or purchas* or bought* or buys or buy or buying or consumer* or customer* or shop or shops or obtain* or procur* or auction* or marketplace* or market or markets or business* or entrepreneur* or enterprise* or corporation* or company* or companies* or commerc*).ti,ab. ((Bebo* or Facebook* or YouTube* or Twitter* or LinkedIn* or Pinterest* or Google* or Tumblr* or Instagram* or WhatsApp* or Reddit* or Flickr* or SnapChat* or Yahoo* or Bing* or MSN* or Wikipedia* or Myspace* or Amazon* or Ebay* or Bitcoin* or DarkWeb* or Darknet* or P2P or Tor) adj3 (trading* or trade or trades or sold* or sale* or sell or sells or supply* or supplied or supplies or retail* or vend or vends or vending or shopping or shopped or selling* or purchas* or bought* or buys or buy or buying or consumer* or customer* or shop or shops or obtain* or procur* or auction* or marketplace* or market or markets or business* or entrepreneur* or enterprise* or corporation* or company* or companies* or commerc*).ti,ab.	20336
191	or sell or sells or supply* or supplied or supplies or retail* or vend or vends or vending or shopping or shopped or selling* or purchas* or bought* or buys or buy or buying or consumer* or customer* or shop or shops or obtain* or procur* or auction* or marketplace* or market or markets or business* or entrepreneur* or enterprise* or corporation* or company* or companies* or commerc*).ti,ab.	824
192	or/187-191	23098
193	127 and 192	772

194	135 or 160 or 168 or 169 or 193	6768
195	((smoking* or smoke* or tobacco* or nicotin* or cigar* or cigs) adj3 (incentive* or incentiviz* or incentivis* or reward* or prize* or voucher* or lotter* or raffle* or gift* or inducement* or motivat* or cash or money* or monetar* or finance* or financial* or competition* or contest*)).ti,ab.	4007
196	((Smokefree* or smoke-free* or "smoke free") adj3 (incentive* or incentiviz* or incentivis* or reward* or prize* or voucher* or lotter* or raffle* or gift* or inducement* or motivat* or cash or money* or monetar* or finance* or financial* or policy* or policies*)).ti,ab.	1008
197	((Smokefree* or smoke-free* or smoke free*) and (competition* or contest*)).ti,ab.	49
198	or/195-197	4998
199	school/	58767
200	primary school/	10713
201	high school/	16931
202	middle school/	1355
203	school health service/	12475
204	school child/	334246
205	student/	100426
206	college student/	14132
207	elementary student/	1202
208	high school student/	6434
209	middle school student/	1101
210	adolescent smoking/	1668
211	school health nursing/	5006
212	school teacher/	822

213 teacher/	30166
214 teaching assistant/	45
215 curriculum/	79016
216 teaching/	83135
217 (school* or academy or academies or "city technology*" or "sixth form*" or "6th form" or "education cent*" or "secure unit*" or "training unit*" or "secure training*" or "referral unit*" or "offender institute*" or "pupil referral*" or college* or "further education*" or "junior high").ti,ab.	607241
218 (pupil* or student* or teacher* or classroom* or class or classes or teaching assistant* or headteacher* or curricul*).ti,ab.	995027
219 ("personal social health" adj1 education*) or PSHE).ti,ab.	24
220 ("whole-school*" or wholeschool* or "whole school*").ti,ab.	301
221 ("reception year" or "reception grade*" or "year one" or "year 1" or "year two" or "year 2" or "year three" or "year 3" or "year four" or "year 4" or "year five" or "year 5" or "year six" or "year 6" or "key stage one" or "key stage 1" or "key stage two" or "key stage 2" or "grade one" or "grade 1" or "grade two" or "grade 2" or "grade three" or "grade 3" or "grade four" or "grade 4" or "grade five" or "grade 5" or "grade six" or "grade 6" or "first grade*" or "1st grade*" or "second grade*" or "2nd grade*" or "third grade*" or "3rd grade*" or "fourth grade*" or "4th grade*" or "fifth grade*" or "5th grade*" or "sixth grade*" or "6th grade*" or "year seven" or "year 7" or "year eight" or "year 8" or "year nine" or "year 9" or "year ten" or "year 10" or "year eleven" or "year 11" or "year twelve" or "year 12" or "year thirteen" or "year 13" or "key stage three" or "key stage 3" or "key stage four" or "key stage 4" or "grade six" or "grade 6" or "grade seven" or "grade 7" or "grade eight" or "grade 8" or "grade nine" or "grade 9" or "grade ten" or "grade 10" or "grade eleven" or "grade 11" or "grade twelve" or "grade 12" or "sixth grade*" or "6th grade*" or "seventh grade*" or "7th grade*" or "eighth grade*" or "8th grade*" or "ninth grade*" or "9th grade*" or "tenth grade*" or "10th grade*" or "eleventh grade*" or "11th grade*" or "twelfth grade*" or "12th grade*").ti,ab.	189635
222 or/199-221	1992516
223 198 and 222	701

224	104 or 194 or 223	18331
225	health-economics/ or exp economic-evaluation/ or exp health-care-cost/ or pharmacoeconomics/ or Monte Carlo Method/ or Decision Tree/	541958
226	(Economic* or cost or costs or costly or costing or costed or price or prices or pricing or pharmacoeconomic* or pharmaco economic* or budget*).ti,ab.	930752
227	((monte adj carlo) or markov or (decision adj2 (tree* or analys*))).ti,ab.	78141
228	(value adj2 (money or monetary)).ti,ab.	2930
229	Quality of Life/ or Quality Adjusted Life Year/ or Quality of Life Index/ or Short Form 36/ or Health Status/	536981
230	(quality of life or quality adjusted life or qaly* or qald* or qale* or qtime* or quality of wellbeing or quality of well-being or willingness to pay or standard gamble* or time trade off* or time tradeoff*).ti,ab.	386954
231	(disability adjusted life or daly).ti,ab.	3903
232	Health* year* equivalent*.ti,ab.	40
233	(sf36 or sf 36 or short form 36 or shortform 36 or sf thirtysix or sf thirty six or shortform thirtysix or shortform thirty six or short form thirtysix or short form thirty six or sf6 or sf 6 or short form 6 or shortform 6 or sf six or sfsix or shortform six or short form six or sf12 or sf 12 or short form 12 or shortform 12 or sf twelve or sftwelve or shortform twelve or short form twelve or sf16 or sf 16 or short form 16 or shortform 16 or sf sixteen or sfsixteen or shortform sixteen or short form sixteen or sf20 or sf 20 or short form 20 or shortform 20 or sf twenty or sftwenty or shortform twenty or short form twenty or euroqol or euro qol or eq5d or eq 5d).ti,ab.	62050
234	or/225-233	1747955
235	((energy or oxygen) adj cost*) or (metabolic adj cost*) or ((energy or oxygen) adj expenditure*).ti,ab.	35307
236	234 not 235	1739079
237	224 and 236	3049
238	exp animal/ or exp animal-experiment/ or nonhuman/	25405380

239	(rat or rats or mouse or mice or hamster or hamsters or animal or animals or dog or dogs or cat or cats or bovine or sheep).ti,ab,sh.	5385388
240	exp human/ or human-experiment/	19302292
241	238 or 239	25541573
242	241 not (241 and 240)	6240148
243	237 not 242	3044
244	(letter or editorial).pt.	1651764
245	243 not 244	3017
246	(conference abstract or conference paper or conference proceeding or "conference review").pt.	4031971
247	245 not 246	2289
248	limit 247 to medline	865
249	247 not 248	1424
250	limit 249 to english language	1347
251	limit 250 to yr="1998 -Current"	1248

12.2.5 Source: HTA<https://www.crd.york.ac.uk/CRDWeb/>

Line	Search	Hits
1	MeSH DESCRIPTOR Tobacco Use EXPLODE ALL TREES	361
2	MeSH DESCRIPTOR Tobacco	14
3	MeSH DESCRIPTOR Tobacco Use Disorder	80
4	MeSH DESCRIPTOR Tobacco Use Cessation	13
5	MeSH DESCRIPTOR Tobacco Use Cessation Products	25
6	MeSH DESCRIPTOR Smoking	360
7	MeSH DESCRIPTOR Smoking Cessation	475
8	MeSH DESCRIPTOR Vaping	0
9	MeSH DESCRIPTOR Nicotine	93
10	MeSH DESCRIPTOR Varenicline	35
11	MeSH DESCRIPTOR Bupropion	74
12	MeSH DESCRIPTOR Smoke-Free Policy	3
13	((smoking* or smoker* or antismok* or anti smok* or anti-smok* or exsmoker* or ex-smoker* or "ex smoker*" or nonsmoker* or non-smoker* or "non smoker*"))	1508
14	((tobacco* or nicotin* or cigar* or cigs))	686
15	((ecig* or e-cig* or e-voke* or juul* or vape* or vaping or ENNDS))	6
16	((bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies))	0
17	((bupropion* or zyban* or varenicline* or champix* or nicorette* or niquitin* or nicotinell* or nicassist*))	213
18	((waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas))	1

19	((Smokefree* or smoke-free* or smoke free*))	28
20	#1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 OR #9 OR #10 OR #11 OR #12 OR #13 OR #14 OR #15 OR #16 OR #17 OR #18 OR #19	1719
21	(#1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 OR #9 OR #10 OR #11 OR #12 OR #13 OR #14 OR #15 OR #16 OR #17 OR #18 OR #19) FROM 1998 TO 2019	1567
22	((#1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 OR #9 OR #10 OR #11 OR #12 OR #13 OR #14 OR #15 OR #16 OR #17 OR #18 OR #19)) IN HTA FROM 1998 TO 2019	203

12.2.6 Source: MEDLINEDatabase(s): **Ovid MEDLINE(R) ALL** 1946 to January 28, 2019

Search Strategy:

#	Searches	Results
1	exp "tobacco use"/	2184
2	tobacco/	29167
3	"tobacco use disorder"/	10520
4	"tobacco use cessation"/	1045
5	"tobacco use cessation products"/	1535
6	smoking/	134613
7	exp Pipe smoking/	76
8	smoking reduction/	17
9	"smoking cessation"/	26316
10	Smoking cessation agents/	8
11	vaping/	235
12	nicotine/	24375
13	Smokers/ or Ex-smokers/ or Non-smokers/	619
14	exp Smoking Devices/	8110
15	smoking prevention/	17485
16	Varenicline/	1144
17	Bupropion/	2886
18	(smoking* or smoker* or antismok* or anti smok* or anti-smok* or exsmoker* or ex-smoker* or "ex smoker*" or nonsmoker* or non-smoker* or "non smoker*").ti,ab.	233650
19	(tobacco* or nicotin* or cigar* or cigs).ti,ab.	204015

20	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping or ENNDS).ti,ab.	3166
21	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).ti,ab.	578
22	(bupropion* or zyban* or varenicline* or champix* or nicorette* or niquitin* or nicotinell* or nicassist*).ti,ab.	5234
23	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).ti,ab.	1969
24	or/1-23	400997
25	Multimedia/	1810
26	exp tape recording/	15290
27	Computers, Handheld/	3305
28	Internet/	67005
29	Blogging/	898
30	Social Networking/	2349
31	Social Media/	5399
32	Electronic Mail/	2492
33	Cell Phone/	7627
34	Text Messaging/	2117
35	Smartphone/	2540
36	video games/	4549
37	mobile applications/	3699
38	Online Social Networking/	18
39	((digital* or digitis* or digitiz* or electronic* or wireless or online) adj3 (intervention* or communicat* or technol* or media* or market* or campaign* or advert* or ad or ads or commercial* or device* or platform* or forum* or community* or communities* or discussion*)).ti,ab.	32767

40	(ehealth* or e-health* or mhealth* or m-health* or mobile health*).ti,ab.	7303
41	((laptop or palm or handheld or tablet or pda or pc) adj3 comput*).ti,ab.	3145
42	((mobile* or cell* or tablet*) adj (phone* or telephone* or handset* or hand-set*)).ti,ab.	9948
43	(smartphone* or smart-phone* or smart telephone* or iphone* or i-phone* or ipad* or i-pad* or blackberry* or smartwatch* or smart-watch* or android or device-based or mobile-based or podcast*).ti,ab.	15314
44	((mobile or electronic* or digital*) adj3 (device* or tablet* or application*)).ti,ab.	21969
45	(app or apps or online* or on-line* or internet* or www or web or website* or webpage* or webcast* or portal or search engine*).ti,ab.	344970
46	(social media* or social network* or blog* or vlog* or video-blog*).ti,ab.	22437
47	(Bebo* or Facebook* or YouTube* or Twitter* or LinkedIn* or Pinterest* or Google* or Tumblr* or Instagram* or WhatsApp* or Reddit* or Flickr* or SnapChat* or Yahoo* or Bing* or MSN* or Wikipedia* or Myspace*).ti,ab.	41733
48	(e-mail* or email* or electronic mail* or mailing list*).ti,ab.	15205
49	(text messag* or texting or texter* or texted or SMS or short messag* or multimedia messag* or multi-media messag* or mms or instant messag*).ti,ab.	12917
50	(advergame or advergames or advergaming).ti,ab.	27
51	Telephone/	11104
52	exp mass media/	43985
53	information dissemination/	14946
54	persuasive communication/	3492
55	nonverbal communication/	3927
56	exp serial publications/	50253
57	pamphlets/	3712
58	telecommunications/	4710

59	exp marketing/	33687
60	communications media/	1437
61	Government Publications as Topic/	695
62	Audiovisual Aids/	6765
63	(marketing or advertis* or publicis* or publiciz* or publicity or mass media or media campaign* or communication* media*).ti,ab. ((tv or television* or televize* or televise* or cable or satellite or cinema* or movie* or media or newspaper* or journal* or magazine* or interactive* or dvd or dvds or video* or tape or tapes or cassette* or motion picture* or film or films or broadcast* or radio* or audio* or telecommunicat*) adj3 (market* or campaign* or advert* or ad or ads or commercial* or program* or intervention* or information*)).ti,ab.	48090
64	((pamphlet* or handout* or hand out* or booklet* or leaflet* or literature or poster or posters or publication* or viral* or buzz*) adj3 (market* or campaign* or advert* or commercial* or program* or intervention* or information*)).ti,ab.	35585
65	((outreach* or written* or printed* or oral* or campaign* or resource* or disseminat*) adj1 information).ti,ab.	12093
66	((nationwide* or statewide* or countrywide* or citywide* or national* or nation wide* or state wide* or country wide* or city wide* or government*) adj3 (market* or campaign* or advert* or commercial* or program* or intervention* or information*)).ti,ab.	7733
67	or/25-67	39188
68	24 and 68	739787
69	minors/	19698
70	Adolescent Behavior/ or Adolescent/ or Adolescent Health/ or Adolescent Development/	2487
71	Child Behavior/ or Child/ or Child Development/	1908924
72	young adult/	1618142
73	students/	714387
74		51600

75	(young* adj2 (adult* or person* or people* or men or man or women or woman or male* or female*)).ti,ab.	215912
76	(child* or adolescen* or kid or kids or youth* or youngster* or minor or minors or underage* or under-age* or "under age*" or teen or teens or teenager* or juvenile* or boy or boys or boyhood or girl or girls or girlhood or schoolchild* or "school age*" or schoolage* or pupil or pupils or student*).ti,ab.	2040391
77	("under 18" or "under eighteen*" or "under 25" or "under twenty five*").ti,ab.	3637
78	((("five" or "six" or "seven" or "eight" or "nine" or "ten" or "eleven" or "twelve" or "thirteen" or "fourteen" or "fifteen" or "sixteen" or "seventeen" or "eighteen" or "nineteen" or "twenty" or "twenty one" or "twenty two" or "twenty three" or "twenty four") adj2 (year or years or age or ages or aged)).ti,ab.	233061
79	((("5" or "6" or "7" or "8" or "9" or "10" or "11" or "12" or "13" or "14" or "15" or "16" or "17" or "18" or "19" or "20" or "21" or "22" or "23" or "24") adj2 (year or years or age or ages or aged)).ti,ab.	1412239
80	or/70-79	4823151
81	69 and 80	9472
82	exp "tobacco use"/	2184
83	tobacco/	29167
84	"tobacco use disorder"/	10520
85	"tobacco use cessation"/	1045
86	"tobacco use cessation products"/	1535
87	smoking/	134613
88	exp Pipe smoking/	76
89	smoking reduction/	17
90	"smoking cessation"/	26316
91	Smoking cessation agents/	8

92	Smokers/ or Ex-smokers/ or Non-smokers/	619
93	exp Smoking Devices/	8110
94	smoking prevention/	17485
95	(smoking* or smoker* or antismok* or anti smok* or anti-smok* or exsmoker* or ex-smoker* or "ex smoker*" or nonsmoker* or non-smoker* or "non smoker*").ti,ab.	233650
96	(tobacco* or cigar* or cigs).ti,ab.	141437
97	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).ti,ab.	578
98	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).ti,ab.	1969
99	or/82-98	341420
100	((proxy* or proxies*) adj3 (trading* or trade or trades or sold* or sale* or sell or sells or supply* or supplied or supplies or retail* or vend or vends or vending or shopping or shopped or selling* or purchas* or bought* or buys or buy or buying or consumer* or customer* or shop or shops or obtain* or procur*)).ti,ab.	192
101	((proxy* or proxies*) adj3 (parent* or mother* or father* or family* or families* or relatives or friend* or sibling* or brother* or sister* or adult or adults or older*)).ti,ab.	1266
102	((underage* or under age* or under-age*) adj3 (trading* or trade or trades or sold* or sale* or sell or sells or supply* or supplied or supplies or retail* or vend or vends or vending or shopping or shopped or selling* or purchas* or bought* or buys or buy or buying or consumer* or customer* or shop or shops or obtain* or procur*)).ti,ab.	145
103	(age* adj3 (verify* or verifies* or verification* or verified* or proof* or prove*)).ti,ab.	3632
104	((identity* or identification* or ID) adj3 (verify* or verifies* or verification* or verified* or proof* or prove* or evidence* or show* or demand* or request*)).ti,ab.	12452
105	or/100-104	17621
106	99 and 105	380
107	small business/	237
108	Entrepreneurship/	2150

109	commerce/ (retail* or newsagent* or shopkeeper* or shop keeper* or vendor* or supermarket* or store keeper* or storekeeper* or merchant* or tobacconist* or shop or shops or shopping	23047
110	or shopped or store or stores or "off licence*" or "off license*" or officence* or officense* or business* or commerce* or commercial* or trading* or trade or trades or trader* or "sales assistant*" or shopworker* or seller* or "super market*").ti,ab.	374334
111	or/107-110	389399
112	Minors/	2487
113	Adolescent Behavior/ or Adolescent/ or Adolescent Health/ or Adolescent Development/	1908924
114	Child Behavior/ or Child/ or Child Development/	1618142
115	young adult/	714387
116	students/	51600
117	(young* adj2 (adult* or person* or people* or men or man or women or woman or male* or female*)).ti,ab. (child* or adolescen* or kid or kids or youth* or youngster* or minor or minors or underage* or under-age* or "under age*" or teen or teens or teenager* or juvenile* or boy or boys or boyhood or girl or girls or girlhood or schoolchild* or "school age*" or schoolage* or pupil or pupils or student*).ti,ab.	215912
118		2040391
119	("under 18" or "under eighteen*" or "under 25" or "under twenty five*").ti,ab. (("five" or "six" or "seven" or "eight" or "nine" or "ten" or "eleven" or "twelve" or "thirteen" or "fourteen" or "fifteen" or "sixteen" or "seventeen" or "eighteen" or "nineteen" or "twenty" or "twenty one" or "twenty two" or "twenty three" or "twenty four") adj2 (year or years or age or ages or aged)).ti,ab.	3637
120		233061
121	((("5" or "6" or "7" or "8" or "9" or "10" or "11" or "12" or "13" or "14" or "15" or "16" or "17" or "18" or "19" or "20" or "21" or "22" or "23" or "24") adj2 (year or years or age or ages or aged)).ti,ab.	1412239
122	or/112-121	4823151
123	99 and 111 and 122	2630

124 Law enforcement/	3376
125 Crime/	14848
126 Criminal behavior/	205
127 Fraud/	7035
((illicit* or illegal* or counterfeit* or fake* or black market* or unbrand* or disguise* or disguising or prohibit* or smuggl* or bootleg* or contraband* or untax* or unlawful* or crime* or criminal* or law enforcement* or legal* or genuine* or lawful* or branded or "trade mark*" or taxed or fraud*) adj3 (tobacco* or cigar* or cigs or smoking* or smoker* 128 or antismok* or anti smok* or anti-smok* or exsmoker* or ex-smoker* or "ex smoker*" or nonsmoker* or non-smoker* or "non smoker*" or bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies or waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas)).ti,ab.	2353
129 ((tax* or taxes or taxation* or duty or duties or customs or excise*) adj3 (avoid* or evad* or evasion* or unpaid* or paid* or pay*)).ti,ab.	980
130 or/124-129	27401
131 99 and 130 and 111	543
132 99 and 130 and 122	1601
133 or/107-109	25202
134 exp internet/	71195
135 Multimedia/	1810
136 Minicomputers/	976
137 Electronic Mail/	2492
138 Text Messaging/	2117
139 exp Microcomputers/	19923
140 mobile applications/	3699

141 or/134-140	97811
142 133 and 141	983
(etail* or etrading* or etrade or etrades or eshopping or eshopped or eselling* or econsumer* or ecustomer* or eshop or eshops or ecommerc* or ebusiness* or "e-tail*" or "e-trading*" or "e-trade" or "e-trades" or "e-shopping" or "e-shopped" or "e-selling*" or "e-consumer*" or "e-customer*" or "e-shop" or "e-shops" or "e-commerc*" or "e-business*").ti,ab.	341
((computer* or digital* or digitis* or digitiz* or electronic* or wireless or online* or smartphone* or smart-phone* or smart telephone* or iphone* or i-phone* or ipad* or i-pad* app or apps or internet* or net or www or web or website* or webpage* or webcast* or portal* or search engine* or multimedia* or text messag* or texting or texter* or texted or SMS or e-mail* or email* or electronic mail* or encrypt* or blog* or vlog*) adj3 (trading* or trade or trades or sold* or sale* or sell or sells or supply* or supplied or supplies or retail* or vend or vends or vending or shopping or shopped or selling* or purchas* or bought* or buys or buy or buying or consumer* or customer* or shop or shops or obtain* or procur* or auction* or marketplace* or market or markets or business* or entrepreneur* or enterprise* or corporation* or company* or companies* or commerc*)).ti,ab.	15461
((Bebo* or Facebook* or YouTube* or Twitter* or LinkedIn* or Pinterest* or Google* or Tumblr* or Instagram* or WhatsApp* or Reddit* or Flickr* or SnapChat* or Yahoo* or Bing* or MSN* or Wikipedia* or Myspace* or Amazon* or Ebay* or Bitcoin* or DarkWeb* or Darknet* or P2P or Tor) adj3 (trading* or trade or trades or sold* or sale* or sell or sells or supply* or supplied or supplies or retail* or vend or vends or vending or shopping or shopped or selling* or purchas* or bought* or buys or buy or buying or consumer* or customer* or shop or shops or obtain* or procur* or auction* or marketplace* or market or markets or business* or entrepreneur* or enterprise* or corporation* or company* or companies* or commerc*)).ti,ab.	598
146 or/142-145	16815
147 99 and 146	515
148 106 or 123 or 131 or 132 or 147	4882
149 Smoke-Free Policy/	692

150	((smoking* or smoke* or tobacco* or nicotin* or cigar* or cigs) adj3 (incentive* or incentiviz* or incentivis* or reward* or prize* or voucher* or lotter* or raffle* or gift* or inducement* or motivat* or cash or money* or monetar* or finance* or financial* or competition* or contest*)).ti,ab.	3369
151	((Smokefree* or smoke-free* or "smoke free") adj3 (incentive* or incentiviz* or incentivis* or reward* or prize* or voucher* or lotter* or raffle* or gift* or inducement* or motivat* or cash or money* or monetar* or finance* or financial* or policy* or policies*)).ti,ab.	949
152	((Smokefree* or smoke-free* or smoke free*) and (competition* or contest*)).ti,ab.	47
153	or/149-152	4741
154	Schools/	34099
155	school health services/	16339
156	students/	51600
157	school nursing/	5103
158	school teachers/	767
159	curriculum/	70102
160	teaching/	47386
161	(school* or academy or academies or "city technology*" or "sixth form*" or "6th form" or "education cent*" or "secure unit*" or "training unit*" or "secure training*" or "referral unit*" or "offender institute*" or "pupil referral*" or college* or "further education*" or "junior high").ti,ab.	382031
162	(pupil* or student* or teacher* or classroom* or class or classes or teaching assistant* or headteacher* or curricul*).ti,ab.	809047
163	(("personal social health" adj1 education*) or PSHE).ti,ab.	17
164	("whole-school*" or wholeschool* or "whole school*").ti,ab.	210
165	("reception year" or "reception grade*" or "year one" or "year 1" or "year two" or "year 2" or "year three" or "year 3" or "year four" or "year 4" or "year five" or "year 5" or "year six" or "year 6" or "key stage one" or "key stage 1" or "key stage two" or "key stage 2" or "grade one" or "grade 1" or "grade two" or "grade 2" or "grade three" or "grade 3" or	109963

	"grade four" or "grade 4" or "grade five" or "grade 5" or "grade six" or "grade 6" or "first grade*" or "1st grade*" or "second grade*" or "2nd grade*" or "third grade*" or "3rd grade*" or "fourth grade*" or "4th grade*" or "fifth grade*" or "5th grade*" or "sixth grade*" or "6th grade*" or "year seven" or "year 7" or "year eight" or "year 8" or "year nine" or "year 9" or "year ten" or "year 10" or "year eleven" or "year 11" or "year twelve" or "year 12" or "year thirteen" or "year 13" or "key stage three" or "key stage 3" or "key stage four" or "key stage 4" or "grade six" or "grade 6" or "grade seven" or "grade 7" or "grade eight" or "grade 8" or "grade nine" or "grade 9" or "grade ten" or "grade 10" or "grade eleven" or "grade 11" or "grade twelve" or "grade 12" or "sixth grade*" or "6th grade*" or "seventh grade*" or "7th grade*" or "eighth grade*" or "8th grade*" or "ninth grade*" or "9th grade*" or "tenth grade*" or "10th grade*" or "eleventh grade*" or "11th grade*" or "twelfth grade*" or "12th grade*").ti,ab.	
166	or/154-165	1222226
167	153 and 166	599
168	81 or 148 or 167	13633
169	Economics/ or exp "Costs and Cost Analysis"/ or Economics, Dental/ or exp Economics, Hospital/ or exp Economics, Medical/ or Economics, Nursing/ or Economics, Pharmaceutical/ or Budgets/ or exp Models, Economic/ or Markov Chains/ or Monte Carlo Method/ or Decision Trees/	325808
170	(Economic* or cost or costs or costly or costing or costed or price or prices or pricing or pharmaco-economic* or pharmaco economic* or budget*).ti,ab.	724439
171	((monte adj carlo) or markov or (decision adj2 (tree* or analys*))).ti,ab.	71361
172	(value adj2 (money or monetary)).ti,ab.	2125
173	Quality of Life/ or Health Status Indicators/ or Quality-Adjusted Life Years/ or Value of Life/	201524
174	(quality of life or quality adjusted life or qaly* or qald* or qale* or qtime* or quality of wellbeing or quality of well-being or willingness to pay or standard gamble* or time trade off* or time tradeoff*).ti,ab.	247590
175	(disability adjusted life or daly).ti,ab.	3151
176	health* year* equivalent*.ti,ab.	40

177	(sf36 or sf 36 or short form 36 or shortform 36 or sf thirtysix or sf thirty six or shortform thirtysix or shortform thirty six or short form thirtysix or short form thirty six).ti,ab.	23523
178	(sf6 or sf 6 or short form 6 or shortform 6 or sf six or sfsix or shortform six or short form six).ti,ab.	1946
179	(sf12 or sf 12 or short form 12 or shortform 12 or sf twelve or sftwelve or shortform twelve or short form twelve).ti,ab.	5083
180	(sf16 or sf 16 or short form 16 or shortform 16 or sf sixteen or sfsixteen or shortform sixteen or short form sixteen).ti,ab.	32
181	(sf20 or sf 20 or short form 20 or shortform 20 or sf twenty or sftwenty or shortform twenty or short form twenty).ti,ab.	390
182	(euroqol or euro qol or eq5d or eq 5d).ti,ab.	9162
183 or/169-182		1213737
184	((energy or oxygen) adj cost*) or (metabolic adj cost*) or ((energy or oxygen) adj expenditure*).ti,ab.	29130
185	183 not 184	1205727
186	168 and 185	2084
187	Animals/ not (Animals/ and Humans/)	4507495
188	186 not 187	2084
189	limit 188 to (letter or historical article or comment or editorial or news or case reports)	37
190	188 not 189	2047
191	limit 190 to english language	1930
192	limit 191 to yr="1998 -Current"	1773

12.2.7 Source: NHS EED

Line	Search	Hits
1	MeSH DESCRIPTOR Tobacco Use EXPLODE ALL TREES	361
2	MeSH DESCRIPTOR Tobacco	14
3	MeSH DESCRIPTOR Tobacco Use Disorder	80
4	MeSH DESCRIPTOR Tobacco Use Cessation	13
5	MeSH DESCRIPTOR Tobacco Use Cessation Products	25
6	MeSH DESCRIPTOR Smoking	360
7	MeSH DESCRIPTOR Smoking Cessation	475
8	MeSH DESCRIPTOR Vaping	0
9	MeSH DESCRIPTOR Nicotine	93
10	MeSH DESCRIPTOR Varenicline	35
11	MeSH DESCRIPTOR Bupropion	74
12	MeSH DESCRIPTOR Smoke-Free Policy	3
13	((smoking* or smoker* or antismok* or anti smok* or anti-smok* or exsmoker* or ex-smoker* or "ex smoker*" or nonsmoker* or non-smoker* or "non smoker*"))	1508
14	((tobacco* or nicotin* or cigar* or cigs))	686
15	((ecig* or e-cig* or e-voke* or juul* or vape* or vaping or ENNDS))	6
16	((bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies))	0
17	((bupropion* or zyban* or varenicline* or champix* or nicorette* or niquitin* or nicotinell* or nicassist*))	213
18	((waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas))	1
19	((Smokefree* or smoke-free* or smoke free*))	28

20	#1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 OR #9 OR #10 OR #11 OR #12 OR #13 OR #14 OR #15 OR #16 OR #17 OR #18 OR #19	1719
21	(#1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 OR #9 OR #10 OR #11 OR #12 OR #13 OR #14 OR #15 OR #16 OR #17 OR #18 OR #19) FROM 1998 TO 2019	1567
22	((#1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 OR #9 OR #10 OR #11 OR #12 OR #13 OR #14 OR #15 OR #16 OR #17 OR #18 OR #19)) IN NHSEED FROM 1998 TO 2019	447

12.3 Web searching

The web results from the 3 effectiveness searches were re-scanned on 28 January 2019 for any results potentially relevant to this review. The Word files were scanned manually and also searched (with ctrl+F) for cost, economic, quality, qaly, value, price and cost.

Results selected for this review	Original website search	Action
<p>Atusingwize, Edwinah; Lewis, Sarah; Langley, Tessa (2015) Economic evaluations of tobacco control mass media campaigns: a systematic review. <i>Tobacco Control</i>, 24(4), 320-327. NOTE: This is not in EndNote because it doesn't mention young people so wasn't retrieved by the search. https://tobaccocontrol.bmj.com/content/24/4/320.short</p>	Mass media	Added to EndNote manually
<p>US Community Preventive Services Task Force (2013) Tobacco Use and Secondhand Smoke Exposure: Mass-Reach Health Communication Interventions</p> <p>Evidence was considered strong based on findings from studies in which television was the primary media channel. Economic evidence shows mass-reach health communication interventions are cost-effective, and savings from averted healthcare costs exceed intervention costs. Mass-reach health communication interventions target large audiences through television and radio broadcasts, print media (e.g., newspaper), out-of-home placements (e.g., billboards, movie theaters, point-of-sale), and digital media to change knowledge, beliefs, attitudes, and behaviors affecting tobacco use.</p> <p>See the evidence tables and list of included publications in the supporting materials section. https://www.thecommunityguide.org/findings/tobacco-use-and-secondhand-smoke-exposure-mass-reach-health-communication-interventions</p>	Mass media	Added to EndNote manually
<p>Public Health England (2018) Stoptober 2017: Campaign Evaluation</p> <p>Stoptober is a key strand of the Public Health England (PHE) tobacco marketing programme. It is an annual mass quit smoking calendar event, wholly created through marketing. Stoptober launched in 2012 and entered its sixth year in 2017. Like all campaigns under the current tobacco strategy, the ultimate objective is to motivate smokers to make a quit attempt. Stoptober takes a revolutionary approach, using a powerful combination of consumer insight and behavioural economics to reframe the usual call to action from 'quit now' to 'join the 28 day quitting challenge'.</p>	Mass media	Added to EndNote manually

<p>In 2016, competing priorities resulted in a significant media budget reduction (from £3.1 million in 2015 to £390,000 in 2016) for Stoptober. This in turn drove a radical rethink in media strategy and a digital only approach was taken in contrast to the usual multi-channel approach in previous years. As expected, the budget decrease resulted in reduced awareness of Stoptober (there was a reduction in campaign recognition from 71% in 2015 to 48% in 2016). Additionally, and as a likely consequence of the digital only approach, Stoptober 2016 participants were slightly more upmarket (they were more likely to be socio-economic group ABC1 versus C2DE) and younger than in 2015.</p> <p>As a result of the above, the 2017 Stoptober budget was increased. The total campaign budget was increased to £2.1 million, with the media budget increasing to £1.2 million. Traditional media, including TV and radio, were added back into the mix.</p> <p>https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/743844/Stoptober_2017_campaign_evaluation.pdf</p>		
<p>Liverpool John Moores University Centre for Public Health (2011) Challenging the tobacco industry – is there a role for industry denormalisation to promote reductions in youth smoking in the UK? A review of the evidence</p> <p>The aim of the phase one literature review was to bring together evidence from research that has examined the impact of tobacco industry denormalisation, and counter industry campaigns and activities that have been used to prevent and reduce smoking amongst young people. The evidence gathered was used (as far as was possible) to help identify effective treatment types; content and mode of campaign delivery; practical aspects of delivery including the setting and type of intervention provided; and demographics of the young people in which interventions were found to be effective.</p> <p>Includes cost effectiveness studies.</p> <p>https://phi.ljmu.ac.uk/wp-content/uploads/2012/08/challenging-the-tobacco-industry---is-there-a-role-for-industry-denormalisation-to-promote-reductions-in-youth-smoking-in-the-uk---a-review-of-the-evidence.pdf</p>	Mass media	Added to EndNote manually
<p>US National Cancer Institute (2008) The Role of the Media in Promoting and Reducing Tobacco Use. Monograph 19</p> <p>Provides a critical, scientific review and synthesis of the current evidence regarding the power of the media, both to encourage and to discourage</p>	Mass media	Added to EndNote manually

<p>tobacco use. It is the most current and comprehensive summary of the scientific literature on media communication in tobacco promotion and tobacco control. Research included in the review comes from the disciplines of marketing, psychology, communication, statistics, epidemiology, and public health. All are vital to understanding how exposure to the media influences tobacco use.</p> <p>https://cancercontrol.cancer.gov/brp/tcrb/monographs/19/index.html</p>		
<p>ASH (2009) Cost Benefit Analysis of the FCTC Protocol on Illicit Trade in tobacco products.</p> <p>This report assesses the likely costs and benefits of implementing the Illicit Trade Protocol in the UK.</p> <p>http://ash.org.uk/information-and-resources/reports-submissions/reports/cost-benefit-analysis-of-the-ctc-protocol-on-illicit-trade-in-tobacco-products/</p>	Retail	Added to EndNote manually
<p>Health Canada, Tobacco Control Programme (2008) Retailer Compliance as a Predictor of Youth Smoking Participation and Consumption.</p> <p>In Canada, the Tobacco Act prohibits retailers from furnishing tobacco products to individuals under the age of 18. For such laws to be effective, however, it is important that retailers comply with them. The objective of this study was to examine the effect of retailer compliance on youth smoking behaviour. Data on individual smoking behaviour in conjunction with provincial retailer compliance rates and cigarette prices for the years 1999-2005 were employed to examine the effects of retailer compliance on youth smoking participation and consumption. Both price and retailer compliance were significant predictors of smoking participation. Price elasticity of demand for the overall sample was estimated to be -0.54. Our results which are consistent with previous research indicate that retailer compliance must be considered when examining the effects of youth access laws. This research confirmed that youth access laws can be an important component of a successful public policy approach to youth smoking prevention.</p> <p>https://mpa.ub.uni-muenchen.de/3078/1/MPRA_paper_3078.pdf</p>	Retail	<p>No action – a journal article with the same data was already in EndNote so did not add this version.</p> <p>See 10.1111/josh.12719</p>
<p>ASH (2016) Counter Arguments – How important is tobacco to small retailers?</p> <p>This report scrutinises the messages sent to small retailers by the tobacco industry and asks whether the traditional approach to selling tobacco in small shops is still in retailers' best interests, given the ongoing decline in the market and the recent changes to how tobacco is sold. Includes a link to the survey data.</p>	Retail	Added to EndNote manually

<p>http://ash.org.uk/information-and-resources/reports-submissions/reports/counter-arguments-how-important-is-tobacco-to-small-retailers/</p>		
<p>Cancer Research UK (2017) Evaluating the Scottish tobacco retail register</p> <p>A Scottish Tobacco Retail Register (STRR) was implemented in Scotland in April 2011 through the Tobacco and Primary Medical Services (Scotland) Act 2010. The STRR is intended to enable trading standards and others to clearly identify retailers so they can offer advice and support to avoid illegal sales, particularly underage sales. Overall, the register appears to be functioning well and is achieving its policy aims. The recommendations this report has proposed can optimise its effectiveness. The register can be a beneficial component to a comprehensive tobacco control strategy. Tobacco policy makers should consider what opportunities the register would provide for supporting future measures to address oversupply and renormalisation agendas.</p> <p>https://www.cancerresearchuk.org/sites/default/files/cruk_tobacco_register_final.pdf</p>	Retail	Added to EndNote manually
<p>Chartered Trading Standards Institute (2018) Tobacco control survey, England, 2017/18 – a report of council trading standards service activity.</p> <p>Chapter 8 p28 is called "Illicit tobacco products".</p> <p>https://www.tradingstandards.uk/media/documents/news--policy/tobacco-control/tobacco-report-2017-18-final-version.pdf</p> <p>note this is an annual survey and previous editions are available.</p>	Retail	Added to EndNote manually
<p>Chartered Trading Standards Institute (2016) A coordinated operation to tackle the supply of illicit tobacco in England. Operation Henry 2 "OH2". Commissioned by the Department of Health Tobacco Policy Team & delivered by the Chartered Trading Standards Institute</p> <p>Operation Henry 2, OH2, is the second large scale coordinated action by Trading Standards Services to tackle the local supply of illicit tobacco products across England, it follows the successful Operation Henry delivered in 2014.</p> <p>67 local authority Trading Standards Services took part in the operation with seizures occurring in 56 of those council areas. Of the businesses where seizures were made; 57% have had illicit tobacco seized from the premises previously (repeat offenders). The total value of the seized tobacco products during OH2 was £919,045.68</p> <p>https://www.tradingstandards.uk/media/documents/policy/improving-the-health-of-society/oh2-final-version-august-15.compressed.pdf</p>	Retail	Added to EndNote manually
<p>Schmid H (2008) A randomised controlled trial of the Smokefree Class Competition in Northwestern Switzerland</p> <p>Smokefree Class Competition (SFC) is a school-based smoking prevention project, with the idea that school classes who decide not to smoke for a period</p>	Smokefree	Added to EndNote manually

<p>of six months can win a prize. It is hypothesized that social norms within classes are influenced in a way that non-smoking becomes a standard. However, the project has been criticized for working with negative peer pressure mainly for students who already smoke.</p> <p>(2) Methods. A total of 179 school classes with 3'251 7 and 8 graders and 161 teachers participated. Classes were randomly assigned to a control and an intervention group. Indicators of smoking, well-being, passive and active violence and classroom climate were collected from students and teachers at pre-, post-test and follow-up.</p> <p>(3) Results. The study shows an effect of the Smokefree Class Competition on information on smoking. More information is given to students and perceived by students in the competition. Effects on smoking behaviour, attitude towards smoking, well-being and effects on negative peer pressure were not found.</p> <p>(4) Conclusions. It is likely that the present study underestimates the potential effects of the competition on the prevention of smoking, because of the study design. Teachers in the control group were motivated to work on the topic of smoking, the incentive given for participating in the scientific evaluation may have interfered with the price of the competition, and smoking students and teachers with smoking students were lost during the trial. The Smokefree Class Competition is a good means of universal prevention, addressing all students in Switzerland on a low threshold. However, the possibility of enlarging the competition with selective prevention for the vulnerable group of students who take up the habit of smoking should be considered. Negative peer pressure does not seem to be a problem in these classes but smoking is.</p> <p><i>Note: this is from the Swiss Tobacco Control Fund but I couldn't find an overview page giving any background to the project. I have a pdf copy – not sure this link will work.</i></p> <p>https://www.tpf.admin.ch/tpf/en/home.html</p>		
<p>Hoeflmayr D, Hanewinkel R. Do school-based tobacco prevention programmes pay off? The cost-effectiveness of the 'Smoke-free Class Competition'. Public Health 2008;122(1):34-41.</p>	Smokefree	No action. Already in EndNote.

12.4 Search narrative

The cost effectiveness search ORed together the original 3 effectiveness strategies and then applied the agreed CE filter and other limits:

- RQ1.1, RQ 1.2 Mass media
- RQ2.1, RQ2.2 Retail
- RQ3.1 Smokefree class competitions

The CE filter was the standard filter used by NICE (which already had the terms for excluding animal studies attached).

Note that the 3 strategies have been run as they would be run today rather than exactly as they were run originally. The cost effectiveness search incorporates several top up searches and updates to MeSH in 2019.

Top up searches were done for the 5-11 years age group and these have been incorporated here.

A top up search was done for online shopping in the Retail questions, which has been incorporated here.

The MEDLINE search has been amended to incorporate terms from MeSH 2019:

- "nonsmokers" and "ex-smokers"
- Smoking cessation agents
- Online social networking

The free-text was updated in all of the databases:

- Terms for "nonsmokers" and "ex-smokers" were added to match the new MeSH
- Juul and ENNDS were added to match searches done for other questions on ecigs

The smoking terms for the Mass media and the Retail questions were different (ecigs and nicotine were not in RQ2) and so both sets were used here instead of simplifying the strategy.

Note that HTA and NHS EED are not currently being updated:

- From 31 March 2018, the HTA database remains available, but CRD are no longer adding new records to it.
- Bibliographic records were published on NHS EED until 31st March 2015. Searches of MEDLINE, Embase, CINAHL, PsycINFO and PubMed were continued until the end of the 2014.

A simplified version that just used the smoking terms was run in the CRD databases. Note that the following MeSH terms were not available through the CRD interface and so could not be incorporated into the strategy.

- exp Pipe smoking/
- smoking reduction/
- Smoking cessation agents/
- Smokers/ or Ex-smokers/ or Non-smokers/
- exp Smoking Devices/
- smoking prevention/

A file with 3110 was sent to YHEC for screening.

There were 5 CE includes in PH14 and 4 of these were already in EndNote:

Ahmad S., 2005. The cost-effectiveness of raising the legal smoking age in California. *Med Decis Making* 25:330-340.

DiFranza J.R., Peck R.M., et al., 2001. What is the potential cost-effectiveness of enforcing a prohibition on the sale of tobacco to minors? *Preventive Medicine* 32:168–174.

Fishman P.A., Ebel B. E., et al., 2005. Cigarette Tax Increase and Media Campaign: Cost of Reducing Smoking-Related Deaths. *American Journal of Preventive Medicine* 29(1):19–26

Ross H, Powell LM, et al., 2006. Community-based youth tobacco control interventions: cost effectiveness of the Full Court Press project. *Applied Health Economics and Health Policy* 5:167–176

The 5th PH14 include was not in the current search results because it is dated 1997. YHEC decided to add this to the search results to be sifted.

Secker-Walker RH, Worden JK, et al., 1997. A mass media programme to prevent smoking among adolescents: costs and cost effectiveness. *Tobacco Control* 6:207–212

YHEC added 3 hits from reference checking while they were sifting. The total sifted was therefore 3114.

The term Amfebutamone is used instead of Bupropion in Embase and so the Emtree term and free-text term would need to be added to any updates.

13 Search for RQ4.1, RQ6.2, RQ6.3, RQ6.4 (Effectiveness)

14 Main search

Topic: Tobacco Portfolio

Question details:

4 In children, young people and young adults who do not smoke, is e-cigarette use associated with future smoking status?

4.1a. What are the levels of e-cigarette use compared with cigarette smoking among children, young people and young adults in the UK?

4.1b. Is there an association between the e-cigarette use of an individual who does not smoke habitually and their future smoking status?

6.3 In children, young people and young adults who smoke, is e-cigarette use associated with future smoking status?

6.2 What influences the acceptability among smokers of using e-cigarettes as a smoking cessation or harm-reduction approach?

6.4a. What are the health effects (both harms and benefits) of short- or long-term use of e-cigarettes in those that use e-cigarettes alone for cessation?

6.4b. What are the health effects (both harms and benefits) of short- or long-term use of e-cigarettes in those that use e-cigarettes alone for harm reduction?

14.1 Table of results

Database name	Date searched	Database Platform	Database segment or version
Applied Social Science Index and Abstracts (ASSIA)	07/01/2019	ProQuest	1987 - current
Cochrane Central Register of Controlled Trials (CENTRAL)	07/01/2019	Wiley	Cochrane Central Register of Controlled Trials Issue 1 of 12, January 2019

Cochrane Database of Systematic Reviews (CDSR)	07/01/2019	Wiley	Cochrane Database of Systematic Reviews Issue 1 of 12, January 2019
Embase	07/01/2019	Ovid	Embase 1974 to 2019 January 04
Educational Resources Information Center (ERIC)	07/01/2019	ProQuest	1966 - current
Health Management Information Consortium (HMIC)	07/01/2019	Ovid	HMIC Health Management Information Consortium 1979 to September 2018
MEDLINE	07/01/2019	Ovid	Ovid MEDLINE(R) 1946 to January 04, 2019
MEDLINE-in-Process (including Epub Ahead-of-Print)	07/01/2019	Ovid	Ovid MEDLINE(R) Epub Ahead of Print January 04, 2019, Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations January 04, 2019
PsycINFO	07/01/2019	Ovid	PsycINFO 1806 to December Week 5 2018
Social Policy and Practice (SPP)	07/01/2019	Ovid	Social Policy and Practice 201810
Forward citation searching	07/01/2019	Clarivate	Web of Science Core Collection (1990-present)

Search source	No. of records retrieved	Results	Total results	De-duplicated and with date limit
Applied Social Science Index and Abstracts (ASSIA)	673	9431	9984	5280
Cochrane Central Register of Controlled Trials (CENTRAL)	413			
Cochrane Database of Systematic Reviews (CDSR)	16			
Embase	2943			
ERIC	69			
Health Management Information Consortium (HMIC)	117			

MEDLINE	2530			
MEDLINE-in-Process (including Epub Ahead-of-Print)	1278			
PsycINFO	1387			
Social Policy and Practice (SPP)	5			
Scoping searches	7			
Web of Science	546	553		

14.2 Database strategy outline

(E-cigarettes OR Vaping) AND Limits

14.3 Database strategies

14.3.1 Database name: Applied Social Science Index and Abstracts (ASSIA)

Set #	Searched for	Results
S1	subject("Electronic cigarettes")	235
S2	TI,AB(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS)	79
S3	TI,AB(electronic* near/3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*))	202
S4	TI,AB((tobacco* or nicotin* or cigar* or cigs) near/3 (vapor* or vapour* or device* or inhalator* or inhaler*))	78
S5	TI,AB((tobacco* or nicotin* or cigar* or cigs) near/3 (dual* or multiple* or multi) near/3 ("use" or uses or user* or usage* or using*))	89
S6	TI,AB(nicotin* and (ENDS or ANDS))	140
S7	TI,AB(nicotin* near/3 deliver* system*)	40
S8	TI,AB(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*)	139
S9	s1 or s2 or s3 or s4 or s5 or s6 or s7 or s8	673

14.3.2 Database name: Cochrane Central Register of Controlled Trials (CENTRAL)

- #1 MeSH descriptor: [Electronic Nicotine Delivery Systems] this term only
67
- #2 MeSH descriptor: [Vaping] this term only 7
- #3 (ecig* or e-cig* or "e-voke*" or juul* or vape* or vaping* or ENNDS):ti,ab 272
- #4 (electronic* near/3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)):ti,ab 228
- #5 ((tobacco* or nicotin* or cigar* or cigs) near/3 (vapor* or vapour* or device* or inhalator* or inhaler*)):ti,ab 157
- #6 ((tobacco* or nicotin* or cigar* or cigs) near/3 (dual* or multiple* or multi) near/3 ("use" or uses or user* or usage* or using*)):ti,ab 18
- #7 (nicotin* and (ENDS or ANDS)):ti,ab 18
- #8 (nicotin* near/3 deliver* system*):ti,ab 72
- #9 (polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*):ti,ab 211
- #10 {or #1-#9} 693
- #11 "clinicaltrials.gov":so 128832
- #12 #10 not #11 515
- #13 "conference":pt 126433
- #14 #12 not #13 429
- #15 #12 not #13 in Trials 413

14.3.3 Database name: Cochrane Database of Systematic Reviews (CDSR)

- #1 MeSH descriptor: [Electronic Nicotine Delivery Systems] this term only
67
- #2 MeSH descriptor: [Vaping] this term only 7
- #3 (ecig* or e-cig* or "e-voke*" or juul* or vape* or vaping* or ENNDS):ti,ab 272
- #4 (electronic* near/3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)):ti,ab 228
- #5 ((tobacco* or nicotin* or cigar* or cigs) near/3 (vapor* or vapour* or device* or inhalator* or inhaler*)):ti,ab 157
- #6 ((tobacco* or nicotin* or cigar* or cigs) near/3 (dual* or multiple* or multi) near/3 ("use" or uses or user* or usage* or using*)):ti,ab 18
- #7 (nicotin* and (ENDS or ANDS)):ti,ab 18
- #8 (nicotin* near/3 deliver* system*):ti,ab 72
- #9 (polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*):ti,ab 211
- #10 {or #1-#9} 693
- #11 "clinicaltrials.gov":so 128832
- #12 #10 not #11 515
- #13 "conference":pt 126433
- #14 #12 not #13 429
- #15 #12 not #13 in Cochrane Reviews, Cochrane Protocols 16

Cochrane Reviews 16	Cochrane Protocols 0
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14.3.4 Database name: EmbaseDatabase(s): **Embase** 1974 to 2019 January 04

Search Strategy:

#	Searches	Results
1	electronic cigarette/	4165
2	Vaping/	637
3	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).ti,ab.	3434
4	(electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).ti,ab.	2627
5	((tobacco* or nicotin* or cigar* or cigs) adj3 (vapor* or vapour* or device* or inhalator* or inhaler*)).ti,ab.	984
6	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*)).ti,ab.	405
7	(nicotin* and (ENDS or ANDS)).ti,ab.	340
8	(nicotin* adj3 deliver* system*).ti,ab.	416
9	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).ti,ab.	91
10	or/1-9	5880
11	nonhuman/ not (human/ and nonhuman/)	4287733
12	10 not 11	5571
13	(letter or editorial).pt.	1644212
14	12 not 13	4932
15	(conference abstract or conference paper or conference proceeding or "conference review").pt.	4012978
16	14 not 15	4238
17	limit 16 to medline	1183

18 16 not 17

3055

19 limit 18 to english language

2943

14.3.5 Database name: Educational Resources Information Center (ERIC)

Set#	Searched for	Results
S1	TI,AB(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS)	8
S2	TI,AB(electronic* near/3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*))	15
S3	TI,AB((tobacco* or nicotin* or cigar* or cigs) near/3 (vapor* or vapour* or device* or inhalator* or inhaler*))	5
S4	TI,AB((tobacco* or nicotin* or cigar* or cigs) near/3 (dual* or multiple* or multi) near/3 ("use" or uses or user* or usage* or using*))	12
S5	TI,AB(nicotin* and (ENDS or ANDS))	13
S6	TI,AB(nicotin* near/3 deliver* system*)	2
S7	TI,AB(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*)	25
S8	s1 or s2 or s3 or s4 or s5 or s6 or s7	69

14.3.6 Database name: Health Management Information Consortium (HMIC)

Database(s): **HMIC Health Management Information Consortium** 1979 to September 2018

Search Strategy:

#	Searches	Results
1	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).ti,ab.	73
2	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).sh.	0
3	(electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).ti,ab.	55
4	(electronic* tobacco* or electronic* nicotin* or electronic* cigar* or electronic* cigs or electronic* vapor* or electronic* vapour*).sh.	0
5	((tobacco* or nicotin* or cigar* or cigs) adj3 (vapor* or vapour* or device* or inhalator* or inhaler*)).ti,ab.	20
6	(tobacco* vapor* or tobacco* vapour* or tobacco* device* or tobacco* inhalator* or tobacco* inhaler*).sh.	0
7	(nicotin* vapor* or nicotin* vapour* or nicotin* device* or nicotin* inhalator* or nicotin* inhaler*).sh.	0
8	(cigar* vapor* or cigar* vapour* or cigar* device* or cigar* inhalator* or cigar* inhaler*).sh.	0
9	(cigs vapor* or cigs vapour* or cigs device* or cigs inhalator* or cigs inhaler*).sh.	0
10	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*)).ti,ab.	8
11	(dual* tobacco* or multiple tobacco*).sh.	0
12	(dual* nicotin* or multiple nicotin* or multi nicotin*).sh.	0
13	(dual* cigar* or multiple cigar* or multi cigar*).sh.	0
14	(dual* cigs* or multiple cigs* or multi cigs*).sh.	0
15	(nicotin* and (ENDS or ANDS)).ti,ab.	4
16	(ENDS or ANDS).sh.	0

17	(nicotin* adj3 deliver* system*).ti,ab.	6
18	nicotin* deliver* system*.sh.	0
19	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).ti,ab.	0
20	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).sh.	0
21	or/1-20	117

14.3.7 Database name: MEDLINEDatabase(s): **Ovid MEDLINE(R)** 1946 to January 04, 2019

Search Strategy:

#	Searches	Results
1	Electronic Nicotine Delivery Systems/	2118
2	Vaping/	221
3	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).ti,ab.	2000
4	(electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).ti,ab.	1596
5	((tobacco* or nicotin* or cigar* or cigs) adj3 (vapor* or vapour* or device* or inhalator* or inhaler*)).ti,ab.	613
6	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*)).ti,ab.	287
7	(nicotin* and (ENDS or ANDS)).ti,ab.	221
8	(nicotin* adj3 deliver* system*).ti,ab.	251
9	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).ti,ab.	68
10	or/1-9	3464
11	Animals/ not (Animals/ and Humans/)	4499580
12	10 not 11	3292
13	limit 12 to (letter or historical article or comment or editorial or news or case reports)	635
14	12 not 13	2657
15	limit 14 to english language	2530

14.3.8 Database name: MEDLINE-in-Process (including Epub Ahead-of-Print)

Database(s): **Ovid MEDLINE(R) Epub Ahead of Print** January 04, 2019, **Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations** January 04, 2019

Search Strategy:

#	Searches	Results
1	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).ti,ab.	1029
2	(electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).ti,ab.	673
3	((tobacco* or nicotin* or cigar* or cigs) adj3 (vapor* or vapour* or device* or inhalator* or inhaler*)).ti,ab.	164
4	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*)).ti,ab.	100
5	(nicotin* and (ENDS or ANDS)).ti,ab.	91
6	(nicotin* adj3 deliver* system*).ti,ab.	114
7	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).ti,ab.	29
8	or/1-7	1373
9	limit 8 to (letter or historical article or comment or editorial or news or case reports)	76
10	8 not 9	1297
11	limit 10 to english language	1278

14.3.9 Database name: PsycINFODatabase(s): **PsycINFO** 1806 to December Week 5 2018

Search Strategy:

#	Searches	Results
1	Electronic Cigarettes/	774
2	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).ti,ab.	1121
3	(electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).ti,ab.	777
4	((tobacco* or nicotin* or cigar* or cigs) adj3 (vapor* or vapour* or device* or inhalator* or inhaler*)).ti,ab.	229
5	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*)).ti,ab.	213
6	(nicotin* and (ENDS or ANDS)).ti,ab.	93
7	(nicotin* adj3 deliver* system*).ti,ab.	135
8	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).ti,ab.	58
9	or/1-8	1611
10	limit 9 to ("column/opinion" or editorial or letter)	63
11	9 not 10	1548
12	limit 11 to animal	52
13	11 not 12	1496
14	limit 13 to english language	1387

14.3.10 Database name: Social Policy and Practice (SPP)Database(s): **Social Policy and Practice** 201810

Search Strategy:

#	Searches	Results
1	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).ti,ab.	4
2	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).sh.	0
3	(electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).ti,ab.	1
4	(electronic* tobacco* or electronic* nicotin* or electronic* cigar* or electronic* cigs or electronic* vapor* or electronic* vapour*).sh.	0
5	((tobacco* or nicotin* or cigar* or cigs) adj3 (vapor* or vapour* or device* or inhalator* or inhaler*)).ti,ab.	0
6	(tobacco* vapor* or tobacco* vapour* or tobacco* device* or tobacco* inhalator* or tobacco* inhaler*).sh.	0
7	(nicotin* vapor* or nicotin* vapour* or nicotin* device* or nicotin* inhalator* or nicotin* inhaler*).sh.	0
8	(cigar* vapor* or cigar* vapour* or cigar* device* or cigar* inhalator* or cigar* inhaler*).sh.	0
9	(cigs vapor* or cigs vapour* or cigs device* or cigs inhalator* or cigs inhaler*).sh.	0
10	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*)).ti,ab.	0
11	(dual* tobacco* or multiple tobacco*).sh.	0
12	(dual* nicotin* or multiple nicotin* or multi nicotin*).sh.	0
13	(dual* cigar* or multiple cigar* or multi cigar*).sh.	0
14	(dual* cigs* or multiple cigs* or multi cigs*).sh.	0
15	(nicotin* and (ENDS or ANDS)).ti,ab.	0
16	(ENDS or ANDS).sh.	0
17	(nicotin* adj3 deliver* system*).ti,ab.	0

18	nicotin* deliver* system*.sh.	0
19	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).ti,ab.	0
20	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).sh.	0
21	or/1-20	5

14.4 Supplementary search techniques

14.4.1 Scoping searches

The following papers were identified during the scoping searches for this topic and added to the EndNote file.

From 4.1/6.3

Akre C. and Suris J.C. (2017) Adolescents and young adults' perceptions of electronic cigarettes as a gateway to smoking: a qualitative study in Switzerland. *Health Education Research*, 32(5), 448-454.

King JL et al. (2018) Polytabacco Use Among a Nationally Representative Sample of Adolescent and Young Adult E-Cigarette Users. *Journal of Adolescent Health*, 63(4), 407-412.

Measham Fiona, O'Brien K, Turnbull G (2016) "Skittles & Red Bull is my favourite flavour": E-cigarettes, smoking, vaping and the changing landscape of nicotine consumption amongst British teenagers-Implications for the normalisation debate. *Drugs: Education, Prevention & Policy*, 23(3), 224-237.

Pepper J.K. et al. (2013) Adolescent males' awareness of and willingness to try electronic cigarettes. *Journal of Adolescent Health*, 52(2), 144-150.

Soneji S. et al. (2017) Association Between Initial Use of e-Cigarettes and Subsequent Cigarette Smoking Among Adolescents and Young Adults: a systematic review and meta-analysis. *JAMA Pediatrics*, 171(8), 788-797.

From 6.4

Alzahrani T et al. (2018) Association Between Electronic Cigarette Use and Myocardial Infarction. *American Journal of Preventive Medicine*, 55 (4) 455-461.

Hartmann-Boyce J et al. (2016) Electronic cigarettes for smoking cessation. *Cochrane Database of Systematic Reviews*, Issue 9. Art. No.: CD010216.

14.4.2 Web of Science

The following papers were identified during the scoping searches and they were used for forward citation searching and reference harvesting in Web of Science. Only those references that could be accessed through the NICE subscription to WOS were added to the search results. This used Web of Science Core Collection (1990-present). Duplicates were removed from the marked list in WOS before downloading the results. Completed 07/01/19 using "Web of Science Core Collection (1990-present)".

Akre C. and Suris J.C. (2017) Adolescents and young adults' perceptions of electronic cigarettes as a gateway to smoking: a qualitative study in Switzerland. *Health Education Research*, 32(5), 448-454.

Alzahrani T et al. (2018) Association Between Electronic Cigarette Use and Myocardial Infarction. *American Journal of Preventive Medicine*, 55 (4) 455-461.

Hartmann-Boyce J et al. (2016) Electronic cigarettes for smoking cessation. *Cochrane Database of Systematic Reviews*, Issue 9. Art. No.: CD010216.

King JL et al. (2018) Polytabacco Use Among a Nationally Representative Sample of Adolescent and Young Adult E-Cigarette Users. *Journal of Adolescent Health*, 63(4), 407-412.

Measham Fiona, O'Brien K, Turnbull G (2016) "Skittles & Red Bull is my favourite flavour": E-cigarettes, smoking, vaping and the changing landscape of nicotine consumption amongst British teenagers-Implications for the normalisation debate. *Drugs: Education, Prevention & Policy*, 23(3), 224-237.

Pepper J.K. et al. (2013) Adolescent males' awareness of and willingness to try electronic cigarettes. *Journal of Adolescent Health*, 52(2), 144-150.

Soneji S. et al. (2017) Association Between Initial Use of e-Cigarettes and Subsequent Cigarette Smoking Among Adolescents and Young Adults: a systematic review and meta-analysis. *JAMA Pediatrics*, 171(8), 788-797.

Total added to marked list = 546 citations

Science Citation Index Expanded (SCI-EXPANDED) --1990-present

Social Sciences Citation Index (SSCI) --1990-present

Arts & Humanities Citation Index (A&HCI) --1990-present

Emerging Sources Citation Index (ESCI) --2015-present

14.5 Web searching

14.5.1 Google search

Additional searches were conducted using Google. It may be necessary to restrict the search results to particular file types (e.g. pdf or Word), to particular countries (e.g. UK), the most recent results (e.g. 2008-current) or to review on screen a limited number pages (e.g. the first 100 results), depending on the number of results retrieved. This will be done in consultation with the review team.

Search engine	
Name	Google
URL	https://www.google.co.uk
Date searched	18/01/2019
Search terms	<p>Searched for electronic cigarettes, e-cigs, ecigs, vape, vaping, electronic nicotine.</p> <p>filetype:pdf site:gov.uk vaping</p> <p>filetype:pdf site:gov.uk vape</p> <p>filetype:pdf site:gov.uk "electronic cigarettes"</p> <p>filetype:pdf site:gov.uk "e-cigarettes"</p> <p>filetype:pdf site:gov.uk "ecigarettes"</p> <p>filetype:pdf site:gov.uk "electronic nicotine"</p> <p>filetype:pdf site:org.uk vaping</p> <p>filetype:pdf site:org.uk vape</p> <p>filetype:pdf site:org.uk "electronic cigarettes"</p> <p>filetype:pdf site:org.uk "e-cigarettes"</p> <p>filetype:pdf site:org.uk "ecigarettes"</p> <p>filetype:pdf site:org.uk "electronic nicotine"</p> <p>filetype:pdf site:nhs.uk vaping</p> <p>filetype:pdf site:nhs.uk vape</p> <p>filetype:pdf site:nhs.uk "electronic cigarettes"</p>

	<p>filetype:pdf site:nhs.uk "e-cigarettes"</p> <p>filetype:pdf site:nhs.uk "ecigarettes"</p> <p>filetype:pdf site:nhs.uk "electronic nicotine"</p> <p>filetype:pdf site:ac.uk vaping</p> <p>filetype:pdf site:ac.uk vape</p> <p>filetype:pdf site:ac.uk "electronic cigarettes"</p> <p>filetype:pdf site:ac.uk "e-cigarettes"</p> <p>filetype:pdf site:ac.uk "ecigarettes"</p> <p>filetype:pdf site:ac.uk "electronic nicotine"</p> <p>vaping Country: the UK Past year</p> <p>vape Country: the UK Past year</p> <p>"electronic cigarettes" Country: the UK Past year</p> <p>"e-cigarettes" Country: the UK Past year</p> <p>"ecigarettes" Country: the UK Past year</p> <p>"electronic nicotine" Country: the UK Past year</p>
How the results were selected	Only selected documents if the title or abstract were directly relevant to the questions. Did not include anything already in EndNote. Focussed on UK evidence. Did not include individual organisation's vaping policies.
Results	<p>All Party Parliamentary Group on Primary Care and Public Health (2014) What are the facts on e-cigarettes. 16-17 year olds ask experts to explain the details.</p> <p>With the publication of new rules on the advertising of e-cigarettes which seek to minimize their appeal to young people, and an upcoming government consultation on proposals to ban their sale to the under-18s, the All-Party Parliamentary Group (APPG) on Primary Care and Public Health recently held a roundtable meeting to discuss the key issues around e-cigarette use in children. Attending the meeting were policymakers, public health experts and a group of 16-17-year-olds, who are all students from Lampton School in Hounslow and The Brit School, Croydon.</p> <p>http://vapers.org.uk/wp-content/uploads/2014/12/smoking_and_children_nov14.pdf</p>

	<p>Association of Directors of Public Health (2015) Position statement: Nicotine vapourisers and associated products</p> <p>We believe that restrictions and regulations on the advertising, marketing and use in enclosed public spaces of smoked tobacco products should also apply to nicotine vapourisers, given the lack of knowledge on their long term health risks and to prevent undermining of the successful efforts that have been made to de-normalise smoking behaviour.</p> <p>http://www.adph.org.uk/wp-content/uploads/2015/12/ADPH-Position-Statement-on-Nicotine-Vapourisers-FINAL1.pdf</p> <p>British Medical Association (2017) E-cigarettes: Balancing risks and opportunities</p> <p>Reflecting on the evolving regulatory and policy environment for these devices in the UK, the BMA Board of science has published a new position paper on the regulation of e-cigarettes. This paper sets out what the BMA believes is an appropriate policy response that would minimise potential risks associated with e-cigarette use while maximising their potential to reduce the health burden associated with smoking.</p> <p>https://www.bma.org.uk/collective-voice/policy-and-research/public-and-population-health/tobacco/e-cigarettes</p> <p>British Psychological Society (2017) Changing behaviour: electronic cigarettes</p> <p>This briefing summarises the facts and figures around smoking cessation and the use of e-cigarettes for behaviour change in adults followed by public policy recommendations to facilitate smoking cessation.</p> <p>https://www.bps.org.uk/sites/bps.org.uk/files/Policy/Policy%20-%20Files/Changing%20behaviour%20-%20electronic%20cigarettes.pdf</p> <p>Canadian Paediatric Society (2015) E-cigarettes: Are we renormalizing public smoking? Reversing five decades of tobacco control and revitalizing nicotine dependency in children and youth in Canada</p> <p>An electronic cigarette (e-cigarette) is a battery attached to a chamber containing liquid that may (or may not) contain nicotine. The battery heats the liquid and converts it into a vapour, which is inhaled, mimicking tobacco</p>
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	<p>smoking. The e-cigarette does not rely on tobacco as a source of nicotine but, rather, vaporizes a liquid for inhalation. E-liquids are often flavoured and may contain nicotine in various concentrations, although actual amounts are seldom accurately reflected in container labelling. The deleterious effects of nicotine on paediatric health are well established. The use of e-cigarettes in the paediatric age group is on the rise in Canada, as are associated nicotine poisonings. E-devices generate substantial amounts of fine particulate matter, toxins and heavy metals at levels that can exceed those observed for conventional cigarettes. Children and youth are particularly susceptible to these atomized products. Action must be taken before these devices become a more established public health hazard. Policies to denormalize tobacco smoking in society and historic reductions in tobacco consumption may be undermined by this new 'gateway' product to nicotine dependency.</p> <p>https://www.cps.ca/en/documents/position/e-cigarettes</p> <p>Cancer Research UK (2016) Cancer Research UK briefing: electronic cigarettes</p> <p>Cancer Research UK is determined to reduce deaths from smoking-related cancers and supports measures to help people quit. Evidence so far indicates electronic cigarettes (e-cigarettes) are much safer than tobacco cigarettes and may help smokers to cut down or quit smoking. A balanced approach is needed towards e-cigarettes – one that maximises their potential to help people stop smoking, whilst minimising the risks of unintended consequences that could promote smoking.</p> <p>https://www.cancerresearchuk.org/sites/default/files/e-cigarette_briefing_nov_2016_final.pdf</p> <p>Centers for Disease Control and Prevention (2016) Vital Signs: Exposure to Electronic Cigarette Advertising Among Middle School and High School Students — United States, 2014</p> <p>Introduction: Electronic cigarette (e-cigarette) use has increased considerably among U.S. youths since 2011. Tobacco use among youths in any form, including e-cigarettes, is unsafe. Tobacco product advertising can persuade youths to start using tobacco. CDC analyzed data from the 2014 National Youth Tobacco Survey to estimate the prevalence of e-cigarette advertisement exposure among U.S. middle school and high school students.</p>
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	<p>Methods: The 2014 National Youth Tobacco Survey, a school-based survey of middle school and high school students in grades 6–12, included 22,007 participants. Exposure to e-cigarette advertisements (categorized as "sometimes," "most of the time," or "always") was assessed for four sources: retail stores, Internet, TV and movies, and newspapers and magazines. Weighted exposure estimates were assessed overall and by school type, sex, race/ethnicity, and grade.</p> <p>Results: In 2014, 68.9% of middle and high school students (18.3 million) were exposed to e-cigarette advertisements from at least one source. Among middle school students, exposure was highest for retail stores (52.8%), followed by Internet (35.8%), TV and movies (34.1%), and newspapers and magazines (25.0%). Among high school students, exposure was highest for retail stores (56.3%), followed by Internet (42.9%), TV and movies (38.4%), and newspapers and magazines (34.6%). Among middle school students, 23.4% reported exposure to e-cigarette advertising from one source, 17.4% from two sources, 13.7% from three sources, and 11.9% from four sources. Among high school students, 21.1% reported exposure to e-cigarette advertising from one source, 17.0% from two sources, 14.5% from three sources, and 18.2% from four sources.</p> <p>Conclusions and Implications for Public Health Practice: Approximately seven in 10 U.S. middle and high school students were exposed to e-cigarette advertisements in 2014. Exposure to e-cigarette advertisements might contribute to increased use of e-cigarettes among youths. Multiple approaches are warranted to reduce youth e-cigarette use and exposure to e-cigarette advertisements, including efforts to reduce youth access to settings where tobacco products, such as e-cigarettes, are sold, and regulation of youth-oriented e-cigarette marketing.</p> <p>https://www.cdc.gov/mmwr/preview/mmwrhtml/mm6452a3.htm</p> <p>Centre for Public Health Liverpool John Moores University (2014) E-cigarette access among young people in Cheshire and Merseyside. Findings from the 2013 North West Trading Standards survey.</p> <p>The 2013 Trading Standards North West survey asked students in years 10 and 11 (age 14-17) if they had ever bought or tried e-cigarettes (referred to as e-cigarette access), along with a range of questions about tobacco smoking and alcohol consumption. This report presents examines e-cigarette access among 5,845 young people attending schools in Cheshire and Merseyside that participated in the survey. One in eight (12.7%) young people reported having accessed e-cigarettes. E-cigarette</p>
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	<p>access was strongly associated with tobacco smoking. Two thirds (66.7%) of regular smokers reported having ever accessed cigarettes, compared with 40% of exsmokers, 31% of those that smoke only when drinking, 13% of those that have tried smoking and not liked it, and 2.4% of those that have never smoked tobacco cigarettes.</p> <p>http://www.cph.org.uk/wp-content/uploads/2014/03/E-cig-Trading-Standards-final-report.pdf</p> <p>Committee on Toxicity of Chemicals in Food, Consumer Products and the Environment (COT) (2017) Potential toxicological risks from e-cigarettes. Paper 1: Characterisation of the aerosol droplet particle fraction</p> <p>Reports studies that investigated the particulate matter in the aerosol produced from e-cigarette use.</p> <p>Studies of EC aerosol particulate matter suggest that it comprises submicronic particles with a similar size distribution to CC, and also nanoparticles. Particle number concentrations in undiluted mainstream aerosol are generally reported in the range of 10⁹ particles/cm³. The relative proportions of submicron and nanoparticles are difficult to estimate due to experimental limitations, including substantial evaporation of larger particles at high dilution ratios, and limited capability of spectral transmission methods to detect nanoparticles. Solid particles (e.g. metal nanoparticles) may also be present, and this area will be reviewed in a future paper.</p> <p>Studies are difficult to compare, due to their variability in test conditions (including aerosol dilution, temperature, puff parameters, real-time or delayed measurements, instrumentation and measurement ranges), numbers, and types of ECs and e-liquids (brand, flavour, presence or absence of nicotine) tested. Standardised and validated testing devices and protocols are needed.</p> <p>https://cot.food.gov.uk/sites/default/files/tox2017-49.pdf</p> <p>Committee on Toxicity of Chemicals in Food, Consumer Products and the Environment (COT) (2018) Potential toxicological risks from electronic nicotine (or non-nicotine) delivery systems (e-cigarettes). Paper 2: Exposure to metals present in the aerosol of electronic nicotine (or non-nicotine) delivery systems</p> <p>During a horizon-scanning exercise at the COT meeting in February 2016, the Committee considered the subject of the possible human health effects of electronic nicotine delivery systems or electronic non-nicotine delivery</p>
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	<p>systems (E(N)NDS or e-cigarettes) as a potential item for review. Members considered that this was a topic that should be evaluated by the COT. It was decided that a full systematic review would not be an efficient way to proceed, and the Committee recommended a more focussed review of three key areas: additives, nitrosamines produced by E(N)NDS, and secondary exposure to exhaled products.</p> <p>https://cot.food.gov.uk/sites/default/files/tox2018-15.pdf</p> <p>Commons Science and Technology Committee (2018) E-cigarettes</p> <p>The Report reviews the current evidence base on the harmfulness of e-cigarettes compared to conventional cigarettes and looks at the current policies on e-cigarettes, including in NHS mental health units and in prisons. The Committee concludes that e-cigarettes should not be treated in the same way as conventional cigarettes. E-cigarettes, estimated as 95% less harmful than conventional cigarettes, are too often being overlooked as a stop smoking tool by the NHS. Regulations should be relaxed relating to e-cigarettes' licensing, prescribing and advertising of their health benefits. Their level of taxation and use in public places must be reconsidered.</p> <p>https://publications.parliament.uk/pa/cm201719/cmselect/cmsctech/505/50502.htm</p> <p>European Commission (2016) Report from the Commission to the European Parliament and the Council on the potential risks to public health associated with the use of refillable electronic cigarettes.</p> <p>Article 20(10) of Directive 2014/40/EU1 ('Tobacco Products Directive' or 'TPD') requires the European Commission to submit a report to the European Parliament and the Council on the potential risks to public health associated with the use of refillable electronic cigarettes ('e-cigarettes'). At the time of the adoption of the TPD, there were concerns about the risks of refillable e-cigarettes to users and consumers, due to their particular characteristics, which allow users to come into direct contact with refill liquids ('e-liquids') containing nicotine and other ingredients which may have adverse health effects. This report was prepared with input from the PRECISE study prepared by an external contractor.³ This study analysed the available scientific literature on health risks of refillable e-cigarettes, data from EU poison centres in eight Member States, and performed chemical analysis on e-cigarette samples. The contractor also conducted a survey amongst the e-cigarette industry to determine what they believed to be the main risks associated with refillable e-cigarettes.</p>
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	<p>https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=COM:2016:269:FIN&from=EN</p> <p>IFF Research (2016) Understanding the Online E-cigarette market. Report on research findings prepared for HMRC by IFF Research.</p> <p>HM Revenue and Customs. HM Revenue & Customs (HMRC) commissioned this research to build a base of evidence surrounding the online e-cigarette market, given there is currently relatively little information available on this segment of the market.</p> <p>NOTE – this was not included in the results for RQ2 (as online was excluded at the time of doing the search).</p> <p>https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/565928/Understanding_Online_Ecigarette_market_HMRC-research.pdf</p> <p>Independent British Vape Trade Association (2018) The state of compliance. One year on from the Tobacco and Related Products Regulations</p> <p>In order to gain an accurate picture of what effect the TRPR has had on the independent vape industry the IBVTA has surveyed all of our members. Additionally, to gain an accurate picture of compliancy with and enforcement of the regulations, the IBVTA sent freedom of information requests to local authorities in the UK with a Trading Standards authority. The results of both should be of real concern to anyone with an interest in regulatory compliance, consumer safety, and public health. The perfect storm of disproportionate regulation, Trading Standards inaction, and businesses openly selling noncompliant product, has resulted in a negative impact on the bottom lines of responsible businesses. This is unacceptable and sends out completely the wrong message – that unscrupulous businesses can openly ignore the regulations and thrive, whilst those who have complied with the regulations suffer.</p> <p>https://www.ibvta.org.uk/core/wp-content/uploads/2018/07/IBVTA_Compliance_Report_270818_P RINT.pdf</p> <p>Institute of Economic Affairs (2017) Vaping solutions</p> <p>The British experience with e-cigarettes is an example of the free market finding solutions to health risks. Vaping products have reduced the costs associated with nicotine use (i.e. health risks) while maintaining most or all of the</p>
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	<p>benefits (i.e. pleasure). They emerged spontaneously without the initial support of governments and ‘public health’ campaigners. Recent EU regulation of vaping has led to higher prices, more waste, smaller narrower product ranges, less innovation and heavy restrictions on how they can be promoted, even by government agencies. There is no evidence that these regulations have led to any positive outcomes. On the contrary, they have reduced the appeal of e-cigarettes to existing smokers and raised the costs for existing vapers. After Brexit, the UK should regulate e-cigarettes, snus and other reduced-risk nicotine products in a way that does nothing to discourage smokers from switching to them.</p> <p>https://iea.org.uk/wp-content/uploads/2017/11/Vaping-Solutions-F1.pdf</p> <p>National Academies of Sciences, Engineering, and Medicine (2018) Public health consequences of e-cigarettes: a consensus study report. National Academies Press, Washington, D.C.</p> <p>Millions of Americans use e-cigarettes. Despite their popularity, little is known about their health effects. Some suggest that e-cigarettes likely confer lower risk compared to combustible tobacco cigarettes, because they do not expose users to toxicants produced through combustion. Proponents of e-cigarette use also tout the potential benefits of e-cigarettes as devices that could help combustible tobacco cigarette smokers to quit and thereby reduce tobacco-related health risks. Others are concerned about the exposure to potentially toxic substances contained in e-cigarette emissions, especially in individuals who have never used tobacco products such as youth and young adults. Given their relatively recent introduction, there has been little time for a scientific body of evidence to develop on the health effects of e-cigarettes. Public Health Consequences of E-Cigarettes reviews and critically assesses the state of the emerging evidence about e-cigarettes and health. This report makes recommendations for the improvement of this research and highlights gaps that are a priority for future research.</p> <p>https://www.nap.edu/catalog/24952/public-health-consequences-of-e-cigarettes</p> <p>Public Health England (2016) Report of PHE stakeholder ‘conversation’ on use of e-cigarettes in enclosed public places and workplaces</p> <p>In December 2014 Public Health England (PHE) initiated an engagement exercise with stakeholders on use of e-cigarettes in enclosed public places and workplaces,</p>
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	<p>designed to encourage debate and build an evidence-based consensus around the issue.</p> <p>In consultation with public health partners, PHE developed five evidence-based draft principles to guide policies and practice. These formed the basis for an online survey, framed as a 'conversation' on the evidence and its implications for policies and practice. The process was conducted in two phases, with the survey opened first to members of the Association of Directors of Public Health and the Faculty of Public Health, and then to the wider stakeholder community</p> <p>https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/768953/Report-on-PHE-conversation-on-use-of-e-cigarettes-in-public-places.pdf</p> <p>Royal College of General Practitioners (2017) RCGP Position Statement on the use of electronic nicotine vapour products (E-Cigarettes)</p> <p>The College has published an e-Cigarette position statement in partnership with Cancer Research UK.</p> <p>Using their clinical judgement on an individual patient basis, primary care clinicians may wish to promote e-cigarettes use as a means to stopping. Patients choosing to use an e-cigarette in a quit attempt should be advised that seeking behavioural support alongside e-cigarette use increases the chances of quit success further.</p> <p>https://www.rcgp.org.uk/clinical-and-research/resources/a-to-z-clinical-resources/cancer.aspx</p> <p>Royal Pharmaceutical Society (2014) E-cigarettes position statement</p> <p>The sale of e-cigarettes in pharmacies is becoming more prevalent posing an ethical dilemma for our members. This statement has been drafted after examining the currently available evidence on the safety and efficacy of e-cigarettes and in light of current media and advertising campaigns by tobacco and e-cigarette manufacturers.</p> <p>https://www.rpharms.com/Portals/0/RPS%20document%20library/Open%20access/Policy%20statements/E-Cigarettes%20Position%20Statement.pdf</p> <p>Royal Pharmaceutical Society (2014) E-cigarettes policy recommendations</p> <p>The Royal Pharmaceutical Society believes that despite the safety concerns outlined below, and current lack of</p>
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	<p>robust evidence on their efficacy there is a potential role for quality-assured e-cigarettes as a short term support to encourage tobacco smokers to reduce or quit their smoking habit, either as a stepping stone to licensed nicotine replacement therapy (NRT), or instead of, where other methods have failed. It recommends that policy-makers must do everything they can to avoid a new generation of people becoming addicted to nicotine. This is particularly important in light of the current lack of evidence in relation to long-term health effects of using e-cigarettes, and their secondhand emissions.</p> <p>https://www.rpharms.com/Portals/0/RPS%20document%20library/Open%20access/Policy%20statements/E-Cigarettes%20Policy%20Statement.pdf</p> <p>Smoking in Pregnancy Challenge Group (2017) Use of electronic cigarettes in pregnancy. A guide for midwives and other healthcare professionals</p> <p>This short briefing has been produced by the Smoking in Pregnancy Challenge Group¹ and is intended to provide a summary of the evidence on electronic cigarettes, with suggested responses to some frequently asked questions about their use during pregnancy.</p> <p>http://smokefreeaction.org.uk/wp-content/uploads/2017/06/eCigSIP.pdf</p> <p>US Department of Health and Human Services. E-cigarette Use Among Youth and Young Adults: A Report of the Surgeon General</p> <p>E-cigarette use among youth and young adults has become a public health concern. In 2014, current use of e-cigarettes by young adults 18–24 years of age surpassed that of adults 25 years of age and older.</p> <p>E-cigarettes are now the most commonly used tobacco product among youth, surpassing conventional cigarettes in 2014. E-cigarette use is strongly associated with the use of other tobacco products among youth and young adults, including combustible tobacco products.</p> <p>The use of products containing nicotine poses dangers to youth, pregnant women, and fetuses. The use of products containing nicotine in any form among youth, including in e-cigarettes, is unsafe.</p> <p>E-cigarette aerosol is not harmless. It can contain harmful and potentially harmful constituents, including nicotine. Nicotine exposure during adolescence can cause addiction and can harm the developing adolescent brain.</p>
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	<p>E-cigarettes are marketed by promoting flavors and using a wide variety of media channels and approaches that have been used in the past for marketing conventional tobacco products to youth and young adults.</p> <p>Action can be taken at the national, state, local, tribal, and territorial levels to address e-cigarette use among youth and young adults. Actions could include incorporating e-cigarettes into smokefree policies, preventing access to e-cigarettes by youth, price and tax policies, retail licensure, regulation of e-cigarette marketing likely to attract youth, and educational initiatives targeting youth and young adults.</p> <p>https://www.cdc.gov/tobacco/data_statistics/sgr/e-cigarettes/pdfs/2016_sgr_entire_report_508.pdf</p> <p>Quick overview of the US position see CDC</p> <p>https://www.cdc.gov/tobacco/basic_information/e-cigarettes/Quick-Facts-on-the-Risks-of-E-cigarettes-for-Kids-Teens-and-Young-Adults.html</p>
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14.5.2 Search engines

Search engine																									
Name	Health Services/Technology Assessment Texts (HSTAT)																								
URL	https://www.ncbi.nlm.nih.gov/books/NBK16710																								
Date searched	18/01/2019																								
Search terms	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%; text-align: center;">1</td> <td style="width: 85%;">Search (ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS)</td> <td style="width: 10%; text-align: right;">649</td> </tr> <tr> <td style="text-align: center;">2</td> <td>Search (Electronic tobacco* or Electronic nicotin* or Electronic cigar* or Electronic cigs or Electronic vapor* or Electronic vapour*)</td> <td style="text-align: right;">1469</td> </tr> <tr> <td style="text-align: center;">3</td> <td>Search (Dual tobacco* or dual nicotin* or dual cigar* or dual cigs)</td> <td style="text-align: right;">343</td> </tr> <tr> <td style="text-align: center;">4</td> <td>Search Nicotine deliver*</td> <td style="text-align: right;">386</td> </tr> <tr> <td style="text-align: center;">5</td> <td>Search (polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*)</td> <td style="text-align: right;">1660</td> </tr> <tr> <td style="text-align: center;">6</td> <td>Search Electronic Nicotine Delivery Systems[MeSH Terms]</td> <td style="text-align: right;">228</td> </tr> <tr> <td style="text-align: center;">7</td> <td>Search Vaping[MeSH Terms]</td> <td style="text-align: right;">0</td> </tr> <tr> <td style="text-align: center;">8</td> <td>Search (#1 or #2 or #3 or #4 or #5 or #6 or #7)</td> <td style="text-align: right;">3544</td> </tr> </table>	1	Search (ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS)	649	2	Search (Electronic tobacco* or Electronic nicotin* or Electronic cigar* or Electronic cigs or Electronic vapor* or Electronic vapour*)	1469	3	Search (Dual tobacco* or dual nicotin* or dual cigar* or dual cigs)	343	4	Search Nicotine deliver*	386	5	Search (polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*)	1660	6	Search Electronic Nicotine Delivery Systems[MeSH Terms]	228	7	Search Vaping[MeSH Terms]	0	8	Search (#1 or #2 or #3 or #4 or #5 or #6 or #7)	3544
1	Search (ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS)	649																							
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5	Search (polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*)	1660																							
6	Search Electronic Nicotine Delivery Systems[MeSH Terms]	228																							
7	Search Vaping[MeSH Terms]	0																							
8	Search (#1 or #2 or #3 or #4 or #5 or #6 or #7)	3544																							

	<p>9 Search hstatcollect[filter]</p> <p>10 Search (#8 and #9)</p>	<p>38128</p> <p>116</p>
How the results were selected	Only selected documents if the title or abstract were directly relevant to the questions.	
Results	<p>Agency for Healthcare Research and Quality (2015) Behavioral Counseling and Pharmacotherapy Interventions for Tobacco Cessation in Adults, Including Pregnant Women: A Review of Reviews for the U.S. Preventive Services Task Force</p> <p>Background:</p> <p>Tobacco use is the leading preventable cause of disease, disability, and death in the United States. Interventions to help adults quit smoking might stop or reduce tobacco-related illness.</p> <p>Purpose:</p> <p>To systematically review evidence for the effectiveness and safety of pharmacotherapy and behavioral tobacco cessation interventions among adults, including pregnant women and those with mental health conditions, and to conduct a de novo search for primary evidence related to electronic nicotine delivery systems for adults.</p> <p>Methods:</p> <p>We conducted a review of reviews and searched for existing systematic reviews published through August 1, 2014 We conducted an a priori search for primary trial evidence related to the effectiveness and safety of electronic nicotine delivery systems (ENDS) (through March 1, 2015) and a search for pharmacotherapy among pregnant women (through August 15, 2014) to supplement the review of reviews methodology. Two investigators independently reviewed abstracts and full-text articles against a set of a priori inclusion and quality criteria. Discrepancies were resolved by consensus. One reviewer abstracted data into an evidence table and a second reviewer checked these data. We grouped reviews based on population (general adults, pregnant women, individuals with mental health conditions) and intervention (pharmacotherapy, behavioral, or combined interventions). We identified one or more reviews within each population and intervention subgroup that represented the most current and applicable evidence to serve as the basis for the main findings (“primary” reviews) and discussed complementary and discordant findings from other included reviews as necessary. We did not reanalyze any of the individual study evidence; we presented pooled analyses and existing point estimates from included reviews.</p> <p>Results:</p>	

We included 54 systematic reviews, 22 of which served as the basis for the primary findings. Among adults, nine reviews addressed the efficacy and/or harms of nicotine replacement therapy (NRT), bupropion hydrochloride sustained release (bupropion SR), and/or varenicline. None of these reviews reported on health outcomes. All three medications were found to be effective in increasing smoking quit rates compared with placebo or nondrug arms at 6 or more months followup. The pooled risk ratio (RR) for abstinence for NRT was 1.60 (95% confidence interval [CI], 1.53 to 1.68); for bupropion SR, RR 1.62 (95% CI, 1.49 to 1.76); and for varenicline, 2.27 (95% CI, 2.02 to 2.55). Combined NRT versus a single form of NRT showed a statistically significantly greater cessation effect in pooled analysis (RR 1.34 [95% CI, 1.18 to 1.51]). None of the drugs were associated with major cardiovascular adverse events, although NRT produced higher rates of all cardiovascular events (driven by minor events). One review on combined pharmacotherapy and behavioral interventions reported a relative increase in quitting by 82 percent versus nonpharmacotherapy usual care (RR 1.82 [95% CI, 1.66 to 2.00]). We included an additional 33 reviews that addressed behavioral tobacco cessation treatments among adults, including those that focused on specific subpopulations such as older adults. Compared with various controls, behavioral interventions such as in-person advice and support from clinicians, self-help materials, and telephone counseling had modest, but significantly increased, relative smoking cessation at 6 or more months (18% to 96%). For example, the pooled RR of physician advice versus no advice was 1.76 (95% CI, 1.58 to 1.96) for smoking cessation at 6 or more months followup. **Only two trials addressed the efficacy and harms related to the use of electronic cigarettes and these trials suggested no benefit on smoking cessation among smokers intending to quit.** We included eight reviews that focused on pregnant women that found significant benefits for perinatal health, including increased birth weight and reduced preterm birth. These benefits were evident with behavioral interventions, and suggested by data from some of the NRT trials, although that evidence was limited. Cessation during late pregnancy was greater among women receiving any type of behavioral intervention, with evidence most clear for counseling. Rates of validated cessation among women allocated to NRT (5% to 24%) compared with placebo (0% to 15%) were not statistically different, although few studies contributed data. Our reviews among individuals with depression or schizophrenia provided limited trial evidence on the efficacy of pharmacotherapy or behavioral interventions. There was, however, some evidence of a benefit for bupropion among those with schizophrenia and the

	<p>addition of a mood management component to behavioral interventions for smokers with depression.</p> <p>Conclusions:</p> <p>This review of reviews suggests that behavioral interventions and pharmacotherapy, alone or in combination, are effective in helping to reduce rates of smoking among the general adult population. Behavioral interventions, in particular, can assist pregnant women to stop smoking. Data on the effectiveness and safety of electronic nicotine delivery systems are limited. Future research should focus on direct comparisons between different combinations and classes of drugs; the incidence of serious adverse events related to medications for cessation; the efficacy and safety of ENDS; and pharmacotherapies for pregnant women and those with mental health conditions including evidence on health outcomes.</p> <p>https://www.ncbi.nlm.nih.gov/books/NBK321744/pdf/Bookshelf_NBK321744.pdf</p>
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Search engine	
Name	NICE Evidence Search
URL	https://www.evidence.nhs.uk
Date searched	18/01/2019
Search terms	Searched for electronic cigarettes, e-cigs, ecigs, vape, vaping, vapouriser, electronic nicotine.
How the results were selected	<p>Only selected documents if the title or abstract were directly relevant to the questions. Did not include anything already in EndNote. Did not include Behind the Headlines stories as they are just commentaries on articles already in EndNote.</p> <p>Sorted by relevance and then reviewed all of the results up to 250 then applied filters for 'guidance and policy' and 'practice based information' and reviewed 250 again, then removed filters and applied Area of Interest-Public Health and reviewed a further 250.</p> <p>Did not include ASH The impact of the EU Tobacco Products Directive on e-cigarette regulation in the UK</p> <p>Did not include items aimed at educating the public e.g. CRUK Are ecigs harmful Dec 2018 https://www.cancerresearchuk.org/about-cancer/causes-of-cancer/smoking-and-cancer/are-e-cigarettes-harmful#ecigs10</p>
Results	Cancer Research UK, ASH (2018) Feeling the heat: the decline of stop smoking services in England. Findings from a survey of local authority tobacco control leads

	<p>Budgets for stop smoking services were cut in half (50%) of local authorities in 2017. They increased in 4% of local authorities. These changes follow budget cuts in 59% of local authorities in 2016 and cuts in 39% of local authorities in 2015.</p> <p>In 75% of local authorities, stop smoking services support the use of e-cigarettes by smokers in their attempts to quit. The remainder 'neither support nor discourage' the use of e-cigarettes. Support for the use of e-cigarettes is lower in primary care providers (50%).</p> <p>https://www.cancerresearchuk.org/sites/default/files/la_survey_report_2017.pdf</p> <p>Department of Health and Social Care (2018) The Government Response to the Science and Technology Committee's Seventh Report of the Session 2017-19 on E-cigarettes</p> <p>The Government has consistently highlighted that quitting smoking and nicotine use completely is the best way to improve health. E-cigarettes are not risk free. However, the evidence is increasingly clear that e-cigarettes are significantly less harmful to health than smoking tobacco, and can help smokers to quit, particularly when combined with stop smoking services. Some two and a half million people in England now use e-cigarettes, many using them to quit smoking for good.</p> <p>The Government does take concerns about e-cigarettes seriously. That is why in the Tobacco Control Plan for England it committed to monitor the impact of regulation and policy on e-cigarettes and novel tobacco products (including evidence on safety, uptake, the health impact and effectiveness of these products as smoking cessation aids) to inform future policy. Public Health England (PHE) will continue to update its evidence base on e-cigarettes and other novel nicotine delivery systems annually until the end of the Parliament in 2022, with the next review expected to be available in early 2019.</p> <p>https://www.gov.uk/government/publications/government-response-to-the-science-and-technology-select-committees-report-on-e-cigarettes</p> <p>Food & Drug Administration (2018) Youth Tobacco Prevention Plan</p> <p>FDA's Youth Tobacco Prevention Plan—a key component of the agency's Comprehensive Plan for Tobacco and Nicotine Regulation—is a series of actions to stop youth use of tobacco products, especially e-cigarettes, with special focus on three key areas:</p>
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	<p>Preventing youth access to tobacco products</p> <p>Curbing marketing of tobacco products aimed at youth; and</p> <p>Educating teens about the dangers of using any tobacco product, including e-cigarettes, as well as educating retailers about their key role in protecting youth</p> <p>https://www.fda.gov/TobaccoProducts/PublicHealthEducation/ProtectingKidsfromTobacco/ucm608433.htm</p> <p>Liverpool John Moores University (2014) "Most people I know have got one": Young people's perceptions and experiences of electronic cigarettes</p> <p>Seven focus groups involving 45 young people aged 13-17 were held in youth groups and schools in Cheshire and Merseyside to gain insight into young people's views and experiences of e-cigarettes.</p> <ul style="list-style-type: none">□ Discussions identified that awareness and use of e-cigarettes is both common and increasing among teenagers in Cheshire and Merseyside.□ Although some older adolescents appeared to associate e-cigarette use with smoking cessation, generally young people viewed e-cigarettes as a product in their own right, suggesting that many young people use them simply for the sake of it, for fun, or to try something new.□ Participants reported that e-cigarette use is common among young people who have never smoked traditional tobacco cigarettes. This behaviour was criticised by both smokers and non-smokers.□ Rather than the potential health impacts of e-cigarettes or their use where smoking is prohibited, the main focus for young people was on the different flavours and designs of e-cigarettes and the opportunity for users to customise their devices and show individuality.□ Young people in this study showed a real uncertainty and lack of awareness of the potential risks and harms associated with e-cigarettes, current and proposed future regulation in the UK, and the actual chemical content and functional components of these devices.□ A current lack of suitable information for young people was identified by all participants. <p>https://phi.ljmu.ac.uk/wp-content/uploads/2014/03/Ecig-focus-groups-final-report.pdf</p>
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Liverpool John Moores University, Public Health Wales (2018) Is it all smoke without fire? Welsh Primary School Children's Perceptions of Electronic Cigarettes

The Public Health Institute at Liverpool John Moores University was commissioned to undertake a study investigating Welsh primary school children's perceptions of electronic cigarettes. The research was conducted with children in Years 2, 4 and 6 (7-11 years of age) from 8 primary schools across Wales. The study aimed to provide insight into children's awareness of electronic cigarettes relative to tobacco smoking, their beliefs about vaping and smoking and understanding of the risks and benefits. Data was collected in June and July 2017 using a mix of methods. Four hundred and ninety-eight children completed the class-administered booklet encompassing a draw and write exercise and questionnaire. Ninety-six children also participated in 24 peer discussion groups.

<https://phi.ljmu.ac.uk/wp-content/uploads/2018/04/PHW-E-Cig-English-web-version.pdf>

NHS Northern Treatment Advisory Group (2016) e-Voke® electronic cigarette for smoking cessation and reduction

The e-Voke® (Nicovations Ltd) is the first e-cigarette to receive a marketing authorisation in the UK. It is licensed as a GSL product as an aid to smoking cessation, to aid smokers unwilling or unable to smoke, and as a safer alternative to smoking. The pharmacokinetic study concluded that e-Voke was at least as safe as cigarette smoking in terms of nicotine exposure.

<http://ntag.nhs.uk/docs/app/e-Voke-electronic-cigarette-Appraisal-Document.pdf>

Royal College of Psychiatrists (2018) The prescribing of varenicline and vaping (electronic cigarettes) to patients with severe mental illness

This position statement provides advice and recommendations to psychiatrists on the prescribing of varenicline, and the use of electronic cigarettes (EC), as strategies to support people with severe mental illness (SMI) to stop smoking. While we do not fully understand the long-term risks, psychiatrists should advise their patients that ECs are an effective option for some people to give up smoking and are substantially safer than continued tobacco use. All mental health providers should have policies in place that facilitate the safe and effective use of ECs.

	<p>https://www.rcpsych.ac.uk/docs/default-source/improving-care/better-mh-policy/position-statements/ps05_18.pdf?sfvrsn=2bb7fdfe_2</p> <p>Royal Society for Public Health (2015) Stopping smoking by using other sources of nicotine</p> <p>Calls for mandatory sale of non-tobacco nicotine containing products (NCPs) in all outlets selling combustible tobacco products; greater utilisation of e-cigarettes by smoking cessation services; and stop calling the product an e-cigarette. There is, however, significant misunderstanding surrounding nicotine and the relative safety of non-tobacco NCPs, and we have concerns that the use of misleading terms such as 'e-cigarette' may compound this problem. We therefore call for these products to be referred to as vapourisers or nicotine control products. This terminology would ensure that a clear distinction is made between combustible tobacco products and the very different product known as 'e-cigarettes'.</p> <p>https://www.rsph.org.uk/uploads/assets/uploaded/d7f1aa02-3f33-4324-82bfb15d484d5354.pdf</p> <p>Royal Society for Public Health (2017) Targeting the supply and sale of e-cigarettes to smokers</p> <p>Specialist vape stores are the visible face of e-cigarettes on the high street, with supermarkets, convenience stores and online stores also major retailers. There are 1,700 specialist vape stores in the UK, with around 650 of these opening in 2016. An RSPH investigation found that almost 9 in 10 vape stores are knowingly or unwittingly encouraging non-smokers to begin vaping.</p> <p>https://www.rsph.org.uk/uploads/assets/uploaded/227f64d3-1eab-4d29-bc896d09052ddda4.pdf</p>
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14.5.3 Website browsing

Website	
Name	Action on Smoking and Health (ASH)
URL	http://ash.org.uk/home
Date searched	14/01/2019
Search terms (including any specific sections browsed)	Browsed fact sheets, briefings, reports and submissions.
Results	<p>ASH (2016) Electronic cigarettes (also known as vapourisers) Electronic cigarettes are marketed as a cheaper, safer alternative to conventional cigarettes. As they do not produce smoke, research suggests that electronic cigarettes are relatively harmless in comparison with smoking. This briefing reviews the safety of e-cigarettes and how effective they are as an aid to stopping smoking. http://ash.org.uk/stopping-smoking/ash-briefing-on-electronic-cigarettes-2/</p> <p>ASH (2018) Use of e-cigarettes (vapourisers) among adults in Great Britain This fact sheet reports the results of the ASH Smokefree GB surveys on the use of e-cigarettes among adults in Great Britain. ASH included questions on e-cigarette use in this annual survey starting in 2010 with questions addressed only to smokers. http://ash.org.uk/download/ash-use-of-e-cigarettes-by-adults-in-great-britain-2018-pdf/</p> <p>ASH (2018) Use of e-cigarettes among young people in Great Britain. Use of e-cigarettes remains very low among young people (11-18 year olds) in Great Britain; just 2% use e-cigarettes at least weekly, another 2% use them once a month or less and 12% of youths have tried them just once or twice. A majority haven't tried e-cigarettes (76%) while 7% are unaware of e-cigarettes altogether. http://ash.org.uk/download/use-of-electronic-cigarettes-among-children-in-great-britain/</p>

Website	
Name	Local Government Association
URL	https://www.local.gov.uk
Date searched	14/01/2019
Search terms (including any specific sections browsed)	Searched publications for electronic cigarettes, e-cigs, ecigs, vape, vaping, vapouriser. No results so also searched for smoking, cigarettes, tobacco and nicotine. Browsed the social care, health and integration page.
Results	None relevant

Website	
Name	National Centre for Smoking Cessation and Training
URL	http://www.ncsct.co.uk
Date searched	14/01/2019
Search terms (including any specific sections browsed)	Browsed research and research resources, training resources, briefings and commissioning resources. Searched for electronic cigarettes, e-cigs, ecigs, vape, vaping, vapouriser.
Results	<p>National Centre for Smoking Cessation and Training (2016) Electronic cigarettes: a briefing for stop smoking services This briefing has been written to assist stop smoking services support people who want to use electronic cigarettes (e-cigarettes) to help them quit smoking. Such an approach brings together the most effective method of quitting (stop smoking services) with the most popular (e-cigarettes). http://www.ncsct.co.uk/usr/pub/Electronic_cigarettes._A_briefing_f_or_stop_smoking_services.pdf</p> <p>National Centre for Smoking Cessation and Training (2016) Working with vape shops: a guide for commissioners and stop smoking services Vape shops can be a source of information about new products, regulation, costs and technical support This guide covers: how can vape shops support stop smoking services? http://www.ncsct.co.uk/publication_working_with_vape_shops.php</p> <p>National Centre for Smoking Cessation and Training (2018) E-cigarettes: a guide for healthcare professionals This course has been developed to assist health and social care professionals support people who want to use electronic cigarettes (e-cigarettes) to help them quit smoking. Health professionals are considered a reliable source of information by smokers and this course aims to provide them with the knowledge, and clinical guidance, to ensure that their advice is evidence-based and effective. This course draws upon both the 2018 Public Health England review of evidence and the 2016 Royal College of Physicians report (see Resources section) - but importantly, also on the experience of vapers and of stop smoking service staff. This is a Public Health England funded training module. http://elearning.ncsct.co.uk/e_cigarettes-stage_1</p>

Website	
Name	NHS Digital

URL	https://digital.nhs.uk
Date searched	14/01/2019
Search terms (including any specific sections browsed)	<p>Searched for electronic cigarettes, e-cigs, ecigs, vape, vaping, vapouriser. Searched for tobacco, smoking and cigarettes.</p> <p>Only included annual publications and only included the most recent edition.</p>
Results	<p>NHS Digital (2017) Smoking, Drinking and Drug Use Among Young People in England – 2016 This report contains results from an annual survey of secondary school pupils in England in years 7 to 11 (mostly aged 11 to 15). 12,051 pupils in 177 schools completed questionnaires in the autumn term of 2016. NOTE: next results due out in July 2019.</p> <p>https://digital.nhs.uk/data-and-information/publications/statistical/smoking-drinking-and-drug-use-among-young-people-in-england/2016</p> <p>NHS Digital (2018) Statistics on Smoking, England: 2018 The report aims to present a broad picture of health issues relating to smoking in England and covers topics such as smoking prevalence, habits, behaviours and attitudes among adults and school children, smoking-related ill health and mortality and smoking-related costs (see p25 for ecigs).</p> <p>https://digital.nhs.uk/data-and-information/publications/statistical/statistics-on-smoking/statistics-on-smoking-england-2018/content</p> <p>NHS Digital (2018) Statistics on NHS Stop Smoking Services in England - April 2017 to March 2018 This annual report presents results from the monitoring of the NHS Stop Smoking Services in England during the period April 2017 to March 2018.</p> <p>https://digital.nhs.uk/data-and-information/publications/statistical/statistics-on-nhs-stop-smoking-services-in-england/april-2017-to-march-2018</p> <p>Office for National Statistics (2018) Adult smoking habits in the UK: 2017 Cigarette smoking habits among adults in the UK, including the proportion of people who smoke, demographic breakdowns, changes over time, and use of e-cigarettes.</p> <p>https://www.ons.gov.uk/peoplepopulationandcommunity/healthandsocialcare/healthandlifeexpectancies/bulletins/adultsmokinghabitsinengland/2017</p>

Website	
Name	Northern Ireland Assembly
URL	http://www.niassembly.gov.uk/
Date searched	14/01/2019
Search terms (including any specific sections browsed)	Searched publications for electronic cigarettes, e-cigs, ecigs, vape, vaping, vapouriser. No results so also searched for smoking, cigarettes, tobacco and nicotine. Checked the reports from the Committee on Health (and predecessors) back to 2011.
Results	None relevant

Website	
Name	Public Health England
URL	https://www.gov.uk/government/organisations/public-health-england
Date searched	14/01/2019
Search terms (including any specific sections browsed)	Searched publications and announcements for electronic cigarettes, e-cigs, ecigs, vape, vaping, vapouriser. Browsed the vaping section https://www.gov.uk/government/collections/e-cigarettes-and-vaping-policy-regulation-and-guidance Only included reports relevant to the particular questions we are doing.
Results	<p>Public Health England (2014) E-cigarette uptake and marketing. A report commissioned by Public Health England.</p> <p>E-cigarettes are increasingly popular in a number of countries including the UK. However, they currently pose a number of challenges for public health. First, there are concerns about the extent and nature of the e-cigarette market. In particular, the role of the tobacco industry in manufacturing and promoting e-cigarettes, while continuing to sell conventional cigarettes, has been questioned. Secondly, there is a need to understand the extent to which children and young people may use e-cigarettes, particularly those who are current non smokers. Linked to this is a concern about the current marketing of these products and whether that marketing may appeal to children. Each of these issues is explored here, drawing on available published articles and reports.</p> <p>https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/311491/Ecigarette_uptake_and_marketing.pdf</p>

	<p>Public Health England (2014) Electronic cigarettes. A report commissioned by Public Health England</p> <p>Covers short history and description of products, harm reduction, potential hazards and potential benefits.</p> <p>https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/311887/E-cigarettes_report.pdf</p> <p>Public Health England (2015) E-cigarettes: an evidence update A report commissioned by Public Health England</p> <p>Following two previous reports produced for Public Health England (PHE) on e-cigarettes (EC) in 2014, this report updates and expands on the evidence of the implications of EC for public health. It covers the EC policy framework, the prevalence of EC use, knowledge and attitudes towards EC, impact of EC use on smoking behaviour, as well as examining recent safety issues and nicotine content, emissions and delivery. Two literature reviews were carried out to update the evidence base since the 2014 reports and recent survey data from England were assessed.</p> <p>https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/733022/E-cigarettes_an_evidence_update_A_report_commissioned_by_Public_Health_England_FINAL.pdf</p> <p>Public Health England (2015) Underpinning evidence for the estimate that e-cigarette use is around 95% safer than smoking: authors' note</p> <p>The estimate that e-cigarette use is around 95% safer than smoking is based on the facts that:</p> <ul style="list-style-type: none">- the constituents of cigarette smoke that harm health – including carcinogens – are either absent in e-cigarette vapour or, if present, they are mostly at levels much below 5% of smoking doses (mostly below 1% and far below safety limits for occupational exposure)- the main chemicals present in e-cigarettes only have not been associated with any serious risk. <p>https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/456704/McNeill-Hajek_report_authors_note_on_evidence_for_95_estimate.pdf</p> <p>Public Health England (2015) E-cigarettes: a new foundation for evidence-based policy and practice</p>
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	<p>Summarises the findings of the review and the next steps for PHE.</p> <p>https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/454517/Ecigarettes_a_firm_foundation_for_evidence_based_policy_and_practice.pdf</p> <p>Public Health England (2016) E-cigarettes: a developing public health consensus</p> <p>Joint statement on e-cigarettes by Public Health England and other UK public health organisations</p> <p>https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/534708/E-cigarettes_joint_consensus_statement_2016.pdf</p> <p>Public Health England (2016) Use of e-cigarettes in public places and workplaces. Advice to inform evidence-based policy making</p> <p>It is deliberately non-prescriptive, because no one-size-fits-all answer exists to the issue of e-cigarette use in public places and workplaces. Instead, by setting out some key principles for an approach that fits with our current knowledge and protects against the unintended consequences of being either too permissive or too prohibitive, it can help organisations develop their own policies.</p> <p>https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/768952/PHE-advice-on-use-of-e-cigarettes-in-public-places-and-workplaces.PDF</p> <p>Public Health England (2018) Evidence review of e-cigarettes and heated tobacco products 2018. A report commissioned by Public Health England</p> <p>This report has been commissioned to summarise evidence to underpin policy and regulation of e-cigarettes/vaping devices. It is the fourth in a series of reports commissioned by PHE on e-cigarettes. In particular, this report updates the 2015 PHE report on e-cigarettes. The methods and sources of data used in the remaining chapters of the report focus on evidence produced since the previous report in 2015.</p> <p>The evidence falls into three main categories: 1) peer-reviewed literature and 2) surveys and 3) other reports and database sourced by and made available.</p>
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	<p>https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/684963/Evidence_review_of_e-cigarettes_and_heated_tobacco_products_2018.pdf</p> <p>Public Health England (2018) Essex County Council delivers stop smoking support via vape shops</p> <p>Using selected e-cigarette stores in Essex, training staff to deliver stop smoking support to their customers wishing to quit smoking by using an e-cigarette</p> <p>https://www.gov.uk/government/case-studies/essex-county-council-delivers-stop-smoking-support-via-vape-shops</p> <p>Trading Standards Institute, Public Health England (2014) Youth access to E-cigarettes and associated products</p> <p>Reveals the results of a test-purchasing study involving young people aged under 18 attempting to buy e-cigarettes and related products from a variety of retailers.</p> <p>https://www.gov.uk/government/news/report-finds-some-retailers-ignoring-age-of-sale-warnings-on-e-cigarettes</p>
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Website	
Name	Royal College of Paediatrics and Child Health
URL	https://www.rcpch.ac.uk/
Date searched	14/01/2019
Search terms (including any specific sections browsed)	Searched for electronic cigarettes, e-cigs, ecigs, vape, vaping, vapouriser. No results so also searched for smoking, cigarettes, tobacco and nicotine. Also browsed resources and key topics.
Results	None relevant

Website	
Name	Royal College of Physicians
URL	https://www.rcplondon.ac.uk
Date searched	14/01/2019
Search terms (including any specific)	Searched for electronic cigarettes, e-cigs, ecigs, vape, vaping, vapouriser.

sections browsed)	<p>Also checked smoking, cigarettes, tobacco and nicotine and reviewed</p> <p>https://www.rcplondon.ac.uk/projects/rcp-policy-public-health</p>
Results	<p>Royal College of Physicians (2016) Nicotine without smoke: tobacco harm reduction</p> <p>This report provides an update on the use of harm reduction in tobacco smoking, in relation to all non-tobacco nicotine products but particularly e-cigarettes. It shows that, for all the potential risks involved, harm reduction has huge potential to prevent death and disability from tobacco use, and to hasten our progress to a tobacco-free society.</p> <p>E-cigarettes are not currently made to medicines standards and are probably more hazardous than NRT.</p> <p>However, the hazard to health arising from long-term vapour inhalation from the e-cigarettes available today is unlikely to exceed 5% of the harm from smoking tobacco.</p> <p>Technological developments and improved production standards could reduce the long-term hazard of e-cigarettes.</p> <p>There are concerns that e-cigarettes will increase tobacco smoking by renormalising the act of smoking, acting as a gateway to smoking in young people, and being used for temporary, not permanent, abstinence from smoking.</p> <p>However, the available evidence to date indicates that e-cigarettes are being used almost exclusively as safer alternatives to smoked tobacco, by confirmed smokers who are trying to reduce harm to themselves or others from smoking, or to quit smoking completely.</p> <p>There is a need for regulation to reduce direct and indirect adverse effects of e-cigarette use, but this regulation should not be allowed significantly to inhibit the development and use of harm-reduction products by smokers.</p> <p>https://www.rcplondon.ac.uk/projects/outputs/nicotine-without-smoke-tobacco-harm-reduction-0</p> <p>Royal College of Physicians (2018) Hiding in plain sight: Treating tobacco dependency in the NHS</p> <p>Addresses the harms and costs arising from smoking in the patients we see every day, and argues for a new approach to treating their addiction. We argue that responsibility for treating smokers lies with the clinician who sees them, and that our NHS should be delivering default, opt-out, systematic interventions for all smokers at the point of service contact. Demonstrates that clinicians working in</p>

	<p>almost all areas of medicine will see their patient's problems improved by quitting smoking, and that systematic intervention is a cost-effective means of both improving health and reducing demand on NHS services.</p> <p>https://www.rcplondon.ac.uk/projects/outputs/hiding-plain-sight-treating-tobacco-dependency-nhs</p>
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Website	
Name	Scottish Government
URL	https://www.gov.scot
Date searched	15/01/2019
Search terms (including any specific sections browsed)	<p>Browsed the health and social care section.</p> <p>Browsed the smoking page https://www2.gov.scot/Topics/Health/Services/Smoking</p> <p>Searched within health publications for smoking, tobacco, nicotine.</p> <p>Searched in publications generally for electronic cigarettes, e-cigs, ecigs, vape, vaping, vapourisers.</p>
Results	<p>NHS Health Scotland (2014) E-cigarettes consensus statement</p> <p>The purpose of this statement is to clarify perceptions about any harms and benefits of using e-cigarettes, based on current evidence. It is aimed at both health professionals and the general public.</p> <p>http://www.healthscotland.scot/publications/e-cigarettes-consensus-statement</p> <p>Scottish Government (2015) Young People and E-Cigarettes in Scotland: a Survey of Secondary School Pupils</p> <p>Reports on the findings of a survey in late 2014 with Scottish secondary pupils about e-cigarettes to gather data on: their experiences of e-cigarettes in their environment; the degree to which adolescents are exposed to the marketing and promotion of e-cigarettes; and their knowledge and attitudes in relation to e-cigarettes.</p> <p>https://www2.gov.scot/Publications/2015/09/4481/downloads</p> <p>Scottish Government (2016) Young adults and e-cigarettes: a qualitative exploration of awareness, experience and attitudes</p> <p>This report presents findings from qualitative research which investigated young adults' awareness and experiences of, and attitudes towards, e-cigarettes. This</p>

	<p>study specifically sought to hear from young adults, aged 16 to 25, who were no longer in school. Includes a section called Young adults' views about vaping as a gateway to smoking.</p> <p>https://www2.gov.scot/Resource/0050/00500196.pdf</p>
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Website	
Name	Smokefree NHS
URL	https://www.nhs.uk/smokefree
Date searched	15/01/2019
Search terms (including any specific sections browsed)	<p>Browsed the resources section.</p> <p>No results from Google using site:https://www.nhs.uk/smokefree filetype:pdf</p>
Results	None

Website	
Name	Smoking Toolkit Study
URL	http://www.smokinginengland.info
Date searched	15/01/2019
Search terms (including any specific sections browsed)	<p>Browsed latest stats, reports, key publications and STS documents.</p> <p>Did not include anything from Key Publications section as they were published elsewhere as journal articles and so they should have come up in the database searches.</p>
Results	<p>Smoking Toolkit Study (2015) Electronic cigarettes: what we know so far</p> <p>This paper summarises evidence relating to key issues surrounding e-cigarettes. It will be updated as new information emerges.</p> <p>http://www.smokinginengland.info/downloadfile/?type=report&src=6</p> <p>Smoking Toolkit Study (2015) Estimating the population impact of e-cigarettes on smoking cessation and smoking prevalence in England</p>

	<p>This analysis aims to estimate of how far e-cigarettes have increased or decreased the population smoking cessation rate in England. It focuses on 2014, the last year for which full data are available.</p> <p>http://www.smokinginengland.info/downloadfile/?type=sts-documents&src=24</p> <p>Smoking Toolkit Study (2018) Trends in electronic cigarette use in England [PowerPoint slides]</p> <p>Aims to track use of electronic cigarettes over time and assess how far any increase is accompanied by changes in use of other aids to cessation or smoking reduction and key performance indicators for tobacco control.</p> <p>http://www.smokinginengland.info/downloadfile/?type=latest-stats&src=35</p>
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Website	
Name	Treat Tobacco
URL	http://www.treatobacco.net/en/index.php
Date searched	17/01/2019
Search terms (including any specific sections browsed)	<p>Browsed http://www.treatobacco.net/en/page_492.php but it had not been updated since 2014.</p> <p>Did not include any journal article as they should have already been retrieved.</p>
Results	None

Website	
Name	UK Centre for Tobacco and Alcohol Studies
URL	http://ukctas.net/index.html
Date searched	17/01/2019
Search terms (including any specific sections browsed)	<p>Browsed all sections of the website, including the Policy, Research and Reports sections.</p> <p>Did not include anything seen before i.e. the PHE reports.</p>
Results	UK Centre for Tobacco and Alcohol Studies (2016) Commentary on WHO report on electronic nicotine delivery systems and electronic non-nicotine delivery systems

	<p>The 7th session of the Conference of the Parties (COP) of the Framework Convention on Tobacco Control (FCTC), a global public health treaty, will be held in Delhi, India from 7th-12th November 2016. At this meeting, Parties to the treaty (countries and other jurisdictions) will discuss whether similar policy measures recommended to reduce tobacco use should be applied to e-cigarettes. In advance of the COP the World Health Organisation published a report about Electronic Nicotine Delivery Systems (ENDS) and Electronic Non-Nicotine Delivery Systems (ENDDS), also known as e-cigarettes. This aimed to summarise the evidence about these devices. Academics from the UK Centre for Tobacco and Alcohol Studies, a UKCRC Public Health Research Centre of Excellence, have today published a robust critique of the WHO report setting out a series of concerns about the content of the document which, in their view, does not fairly represent existing evidence on e-cigarettes. Their critique examines each element of the WHO report and identifies flaws in the way the evidence is presented and problems with how the report could be interpreted, potentially encouraging countries to adopt excessive restrictions on e-cigarettes which could undermine efforts to reduce smoking.</p> <p>The WHO report fails to accurately present what is already known about e-cigarettes. In particular, it: positions e-cigarettes as a threat rather than an opportunity to reduce smoking; fails to accurately quantify any risks of e-cigarettes compared with smoking; misrepresents existing evidence about any harms to bystanders; discounts the fact that e-cigarettes are helping smokers to quit; does not recognise the place of some promotion of e-cigarettes to encourage smokers to switch to these less harmful products; fails to understand that the flavours in e-cigarettes are useful for people trying to stop smoking; mischaracterises the current e-cigarette market and appears to support very restrictive policies on e-cigarettes without including any good policy analysis. In addition, the WHO report does not acknowledge that significant restrictions on e-cigarettes could lead to unintended consequences, including increases in smoking.</p> <p>https://ukctas.net/news/commentary-on-WHO-report-on-ENDS&ENDDS.html</p>
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Website	
Name	University of Bath Tobacco Control Research Group
URL	https://researchportal.bath.ac.uk/en/organisations/uk-centre-for-tobacco-control-studies
Date searched	17/01/2019

Search terms (including any specific sections browsed)	Browsed papers and reports. Did not look fully at journal articles. Also browsed http://www.bath.ac.uk/health/research/tobacco-control/
Results	None

Website	
Name	University of Stirling Centre for Tobacco Control Research
URL	https://www.stir.ac.uk/about/faculties-and-services/health-sciences-sport/research/research-groups/centre-for-tobacco-control-research/publications
Date searched	17/01/2019
Search terms (including any specific sections browsed)	Browsed the publications list. Did not include any journal articles but double checked some with relevant titles were already in EndNote.
Results	None additional

Website	
Name	Welsh Government
URL	https://gov.wales/?lang=en
Date searched	17/01/2019
Search terms (including any specific sections browsed)	Searched for electronic cigarettes, e-cigs, ecigs, vape, vaping, vapouriser. Browsed the health and social care section for reports https://gov.wales/topics/health/?lang=en https://beta.gov.wales/smoking
Results	Public Health Wales (2017) E-cigarettes (Electronic Nicotine Delivery Systems (ENDS)) Public Health Wales is committed, in the longer term, to a smoke free and nicotine free Wales. ENDS present both potential benefits and potential harms, so a balance of approaches is needed to help minimise the risks to children and young people and non-smokers in the general population and to maximise the potential benefits to committed smokers who are unwilling or unable to quit as well as those who wish to quit smoking. http://www.wales.nhs.uk/sitesplus/888/opendoc/317614

	<p>Welsh Government (2015) E-cigarette policies: a survey of schools in Wales</p> <p>Responses were received from 13 per cent of primary schools (N=177) and 31 per cent of secondary schools (N=64). Around seven out of ten of the secondary schools (72 per cent) and a third of the primary schools (34 per cent) that responded already have an e-cigarette policy, or intend to develop one. The majority of primary and secondary schools are not aware of e-cigarettes being used on the school premises by pupils, staff or visitors. However, 17 per cent of secondary schools reported that pupils currently use e-cigarettes on the school premises. Only three per cent reported that they are used by staff or visitors.</p> <p>https://gov.wales/docs/caecd/research/2015/150326-ecigarette-policies-survey-schools-en.pdf</p> <p>Welsh Government (2015) E-cigarette policies: a survey of workplaces in Wales</p> <p>Half of the large employers (51 per cent) reported that e-cigarettes were currently used on their premises, compared with a quarter (26 per cent) of the small and medium-sized employers (SMEs). Almost three quarters (73 per cent) of the large employers had a policy prohibiting e-cigarette use compared with around one third (36 per cent) of the SMEs. The principal reasons for developing a policy were to bring e-cigarette use in line with the existing smoke-free policy (79 per cent of the large employers and 59 per cent of the SMEs) and help with its enforcement (71 per cent of the large employers and 59 per cent of the SMEs). Normalisation of smoking appeared to be less of a concern, with 33 per cent of the large employers and 29 per cent of the SMEs reporting that they introduced their policy because e-cigarettes make tobacco smoking more acceptable.</p> <p>https://gov.wales/docs/caecd/research/2015/150326-ecigarette-policies-survey-workplaces-en.pdf</p>
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Website	
Name	World Health Organization Europe
URL	http://www.euro.who.int/en/health-topics/disease-prevention/tobacco
Date searched	18/01/2019

<p>Search terms (including any specific sections browsed)</p>	<p>Browsed the list of publications http://www.euro.who.int/en/health-topics/disease-prevention/tobacco/publications/a-z-list-of-all-publications2</p> <p>Searched the overall publications list for smoking, cigarettes, tobacco and nicotine</p> <p>http://www.euro.who.int/en/health-topics/disease-prevention/tobacco/publications/a-z-list-of-all-publications2</p> <p>Searched for electronic cigarettes, e-cigs, ecigs, vape, vaping, vapouriser in IRIS.</p> <p>http://apps.who.int/iris/?locale=en</p> <p>Did not include anything already in EndNote.</p> <p>Only looked at results in English.</p> <p>Did not include</p> <p>Tobacco product regulation: basic handbook</p> <p>http://apps.who.int/iris/bitstream/handle/10665/274262/9789241514484-eng.pdf?sequence=5&isAllowed=y – how to regulate, doesn't answer our questions</p>
<p>Results</p>	<p>World Health Organization (2010) WHO study group on tobacco product regulation: Report on the Scientific Basis of Tobacco Product Regulation: Third Report of a WHO Study Group. In WHO Technical Report Series, no.955</p> <p>ENDS designed for direct nicotine delivery to the respiratory system fall into a regulatory gap in most countries, escaping regulation as drugs and avoiding the controls on tobacco products. There is currently insufficient evidence to assess whether ENDS products could be used to aid cessation, create or sustain addiction, or deliver constituents other than nicotine to smokers. Clinical trials, behavioural and psychological studies and post-marketing studies at individual and population levels are needed to answer these questions. Claims imputing health benefits, reduced harm or use in smoking cessation should be prohibited until they are scientifically proven. ENDS products should be regulated as nicotine delivery devices; when such regulation is not possible, they should be subjected under tobacco control laws to regulation of contents and labelling, prohibitions against public use and restrictions on advertising, promotion and sponsorship.</p> <p>http://apps.who.int/iris/bitstream/handle/10665/44213/9789241209557_eng.pdf</p>

World Health Organization (2014) Conference of the Parties to the WHO Framework Convention on Tobacco Control. Electronic nicotine delivery systems. Report by WHO

This document was prepared in response to the request made by the Conference of the Parties (COP) at its fifth session (Seoul, Republic of Korea, 12–17 November 2012) to the Convention Secretariat to invite WHO to examine emerging evidence on the health impacts of electronic nicotine delivery systems (ENDS) use and to identify options for their prevention and control, for consideration at the sixth session of the COP.

http://apps.who.int/gb/fctc/PDF/cop6/FCTC_COP6_10-en.pdf?ua=1

World Health Organization (2016) Electronic Nicotine Delivery Systems and Electronic Non-Nicotine Delivery Systems (ENDS/ENNDS) Report by WHO

This document was prepared in response to the request¹ made by the Conference of the Parties (COP) at its sixth session (Moscow, Russian Federation, 13–18 October 2014) to the Convention Secretariat to invite WHO to: (a) prepare a report on Electronic Nicotine Delivery Systems and Electronic Non-Nicotine Delivery Systems (ENDS/ENNDS) for the seventh session of the COP (COP7), covering updates on the evidence of the health impact of ENDS/ENNDS, their potential role in tobacco cessation and impact on tobacco control efforts; (b) subsequently assess policy options to achieve the objectives outlined in paragraph 2 of decision FCTC/COP6(9); and (c) consider the methods to measure the contents and emissions of these products. Following the terminology approved by COP, this report differentiates between ENDS and ENNDS depending on whether or not the heated solution delivered as an aerosol by the device contains nicotine.

https://www.who.int/fctc/cop/cop7/FCTC_COP_7_11_EN.pdf

14.6 Search narrative

Notes:

The original plan was to combine the searches for 4.1 and 6.3 as it was difficult to separate the results. We then decided to also combine the searches for 6.2 and 6.4. There were 2044 papers on MEDLINE for (vaping or ecigs) without date limits but in English language. Given that there are only 2000 (estimated to be 6-7000 on all databases) we felt it would be simpler and less risky to do a combined search.

It is less risky because in 6.4 we needed to think about the known and the unknown risks. We could list respiratory conditions, CVD, burns etc. but then we would need to search again if the committee asked about, say, musculoskeletal conditions. The search numbers were already getting quite high and if we needed to search for just ecigs for one review then we could be more efficient by doing it for all reviews. The 4.1/6.3 search with 'ecigs and children' already had 1550 hits so by taking it up to 2044 we would not be adding a great deal to the sifting burden, while reducing the risk of missing any papers in a fast moving topic.

It was also difficult to determine which search to use certain terms e.g. the overlap between 4.1/6.3 and 6.2 with terms for long-term effects. We could either have used the terms for epidemiology in one search and risked missing papers in the other or use the terms in both search and effectively increase the duplicates that would need sifting across reviews. Doing a single search eliminates this problem.

Ecigs are relatively new so there was no need to apply a date limit to the search strategy, even though the sifting criteria still state 1998-current.

Added juul* to the ecigs category because there have been several American papers about it and it is available in the UK, although there probably did not seem to be much directly relevant evidence at this point.

When doing the mass media searches I noticed articles referring to:

- Electronic vapor product
- Electronic vaporizers
- Nicotine Vapour Product

The terms were expanded for this search, as it is the key concept. That does mean that the terms are broader than we used in the mass media and retail questions.

This does bring in a small number of false hits about environmental tobacco smoke because of the phrase nicotine vapours. We felt the Mesh term Nebulizers and Vaporizers was too broad because it would refer to people with e.g. COPD as a result of smoking.

Electronic Nicotine Delivery Systems replaced Electronic Cigarettes as the MeSH term in 2018 but they return the same results.

The topic experts on the committee were consulted on 20/12/18 and so we added the abbreviation ENNDS (Electronic Non Nicotine Delivery Systems). They also requested ENDS and Alternative Nicotine Delivery System (ANDS). The abbreviations were added but in combination with nicotine because of the risk of finding a lot of papers saying e.g. "the ends of tobacco plants". Terms were

added for nicotine delivery. The committee also asked about unlicensed nicotine but this only retrieved 2 MEDLINE papers and both of these were about NRT and would be covered in RQ6.1. We also added inhaler but this does overlap with NRT. These changes added about 350-400 results in total on MEDLINE.

We also added polytobacco and dual use as they would not have been otherwise captured in this search and we were interested in ecigs use alongside other forms of tobacco. This does include some false hits e.g. multi-use of cigarettes and smokeless tobacco or multi-use of tobacco and alcohol. It is adding 185 hits to the MEDLINE results so felt to be acceptable. Adding terms for "use" helps to remove multiple sclerosis, multiple causes of cancer etc. Use has to be in inverted commas as it is a command in Ovid.

During QA a question was asked about whether to include the ERIC database. I tested this and found there were only 34 hits on ecigs but one of these was highly relevant as a survey of British teenagers on vaping and normalization. The paper would have been retrieved from PsycINFO anyway but it was worth adding, given the focus on young people and the potential to pick up relevant papers from such a low number of hits.

Note there was also a Call for Evidence on the NICE website during January 2020 asking for further evidence on "What are the long-term health effects of e-cigarette use?".

15 Search for RQ4.1, RQ6.2, RQ6.3, RQ6.4 (Ecigs effectiveness) – Rerun 1

15.1 Table of results

Database name	Date searched	Database Platform	Database segment or version
Applied Social Science Index and Abstracts (ASSIA)	11/11/2019	ProQuest	1987-current
Cochrane Central Register of Controlled Trials (CENTRAL)	11/11/2019	Wiley	Cochrane Central Register of Controlled Trials Issue 11 of 12, November 2019
Cochrane Database of Systematic Reviews (CDSR)	11/11/2019	Wiley	Cochrane Database of Systematic Reviews Issue 11 of 12, November 2019
Embase	12/11/2019	Ovid	Embase 1974 to 2019 November 11
Educational Resources Information Center (ERIC)	12/11/2019	ProQuest	1966-current
Health Management Information Consortium (HMIC)	11/11/2019	Ovid	HMIC Health Management Information Consortium 1979 to September 2019
MEDLINE	12/11/2019	Ovid	Ovid MEDLINE(R) 1946 to November 11, 2019
MEDLINE-in-Process	12/11/2019	Ovid	Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations 1946 to November 11, 2019
MEDLINE-in-Process Epub Ahead-of-Print	12/11/2019	Ovid	Ovid MEDLINE(R) Epub Ahead of Print November 11, 2019, Ovid MEDLINE(R) Daily Update November 11, 2019
PsycINFO	11/11/2019	Ovid	PsycINFO 1806 to October Week 4 2019
Social Policy and Practice (SPP)	11/11/2019	Ovid	Social Policy and Practice 201907

Search source	No. of records retrieved	Results	Total results	De-duplicated
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Applied Social Science Index and Abstracts (ASSIA)	177	2908	2925	2049	
Cochrane Central Register of Controlled Trials (CENTRAL)	100				
Cochrane Database of Systematic Reviews (CDSR)	1				
Embase	680				
ERIC	6				
Health Management Information Consortium (HMIC)	8				
MEDLINE	591				
MEDLINE-in-Process	667				
MEDLINE-in-Process Epub Ahead-of-Print	351				
PsycINFO	324				
Social Policy and Practice (SPP)	3				
Websites	17				17

15.2 Database strategy outline

(E-cigarettes OR Vaping) AND Limits

The main searches were run on 12 January 2019.

These re-run searches were run on 11-13 November 2019.

15.3 Re-run narrative

No new QA – see main search Jan 2019

No new peer review - see main search Jan 2019

The database searches were modified as appropriate, with notes given below.

Website searches were done on the same resources as the main search. The website results were added to the same EndNote file as the rest of the Re-run results rather than putting them in a separate Word file as in the main search.

No further work was done on Web of Science or with citation searching.

2925 results were added to the file for the re-run search. 876 duplicates were removed. The remaining 2049 were compared to the 5280 unique results from the main search. A further 489 publications that had been seen previously were removed. There were 1560 results to be screened from this re-run search.

15.4 Database strategies

15.4.1 Database name: Applied Social Science Index and Abstracts (ASSIA)

Set#	Searched for	Results
S1	subject("Electronic cigarettes")	367
S2	TI,AB(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS)	133
S3	TI,AB(electronic* near/3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*))	273
S4	TI,AB((tobacco* or nicotin* or cigar* or cigs) near/3 (vapor* or vapour* or device* or inhalator* or inhaler*))	94
S5	TI,AB((tobacco* or nicotin* or cigar* or cigs) near/3 (dual* or multiple* or multi) near/3 ("use" or uses or user* or usage* or using*))	111
S6	TI,AB(nicotin* and (ENDS or ANDS))	154
S7	TI,AB(nicotin* near/3 deliver* system*)	56
S8	TI,AB(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*)	161
S9	s1 or s2 or s3 or s4 or s5 or s6 or s7 or s8	848

There was no reliable way of searching by date of entry and publication date could exclude e.g. any items published in December 2018 and added to the database in 2019. The 848 were added to EndNote. It was found that this included 37 duplicates, which were removed. The 811 remaining were then compared to the results from the main search (673 downloaded, 39 duplicates removed and 634 remaining). Then removed the overlap between the main search and the rerun. There were 177 hits remaining for the rerun screening and these were added to the new EndNote file.

15.4.2 Database name: Cochrane Central Register of Controlled Trials (CENTRAL)

- #1 MeSH descriptor: [Electronic Nicotine Delivery Systems] this term only
84
- #2 MeSH descriptor: [Vaping] this term only 17
- #3 (ecig* or e-cig* or "e-voke*" or juul* or vape* or vaping* or ENNDS):ti,ab 443
- #4 (electronic* near/3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)):ti,ab 316
- #5 ((tobacco* or nicotin* or cigar* or cigs) near/3 (vapor* or vapour* or device* or inhalator* or inhaler*)):ti,ab 209
- #6 ((tobacco* or nicotin* or cigar* or cigs) near/3 (dual* or multiple* or multi) near/3 ("use" or uses or user* or usage* or using*)):ti,ab 34
- #7 (nicotin* and (ENDS or ANDS)):ti,ab 52
- #8 (nicotin* near/3 deliver* system*):ti,ab 104
- #9 (polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*):ti,ab 278
- #10 {or #1-#9} 976
- #11 (clinicaltrials or trialsearch):so 275330
- #12 #10 not #11 656
- #13 "conference":pt 165107
- #14 #12 not #13 528
- #15 #12 not #13 with Cochrane Library publication date Between Jan 2019 and Nov 2019, in Trials 100

Cochrane have started to add more trial registry entries to CENTRAL and so line 11 was expanded from ("clinicaltrials.gov":so) in the main search to the current recommended command.

Used the date added to Cochrane Library rather than date of original publication.

15.4.3 Database name: Cochrane Database of Systematic Reviews (CDSR)

- #1 MeSH descriptor: [Electronic Nicotine Delivery Systems] this term only
84

- #2 MeSH descriptor: [Vaping] this term only 17

- #3 (ecig* or e-cig* or "e-voke*" or juul* or vape* or vaping* or ENNDS):ti,ab 443

- #4 (electronic* near/3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)):ti,ab 316

- #5 ((tobacco* or nicotin* or cigar* or cigs) near/3 (vapor* or vapour* or device* or inhalator* or inhaler*)):ti,ab 209

- #6 ((tobacco* or nicotin* or cigar* or cigs) near/3 (dual* or multiple* or multi) near/3 ("use" or uses or user* or usage* or using*)):ti,ab 34

- #7 (nicotin* and (ENDS or ANDS)):ti,ab 52

- #8 (nicotin* near/3 deliver* system*):ti,ab 104

- #9 (polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*):ti,ab 278

- #10 {or #1-#9} 976

- #11 "clinicaltrials.gov":so 148447

- #12 #10 not #11 736

- #13 "conference":pt 165107

- #14 #12 not #13 608

- #15 #12 not #13, in Cochrane Reviews, Cochrane Protocols 17

[Results: Cochrane Reviews = 17; Cochrane Protocols = 16]

There was no reliable way of searching by date of entry and publication date could exclude e.g. any items published in December 2018 and added to the database in 2019. There were 16 in the main search in January 2019 and 17 in the Rerun so identified the additional review and exported it in RIS for EndNote.

15.4.4 Database name: EmbaseDatabase(s): **Embase** 1974 to 2019 November 11

Search Strategy:

#	Searches	Results
1	electronic cigarette/	5395
2	Vaping/	1176
3	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).ti,ab.	4705
4	(electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).ti,ab.	3373
5	((tobacco* or nicotin* or cigar* or cigs) adj3 (vapor* or vapour* or device* or inhalator* or inhaler*)).ti,ab.	1144
6	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*)).ti,ab.	524
7	(nicotin* and (ENDS or ANDS)).ti,ab.	467
8	(nicotin* adj3 deliver* system*).ti,ab.	561
9	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).ti,ab.	111
10	or/1-9	7581
11	nonhuman/ not (human/ and nonhuman/)	4498359
12	10 not 11	7180
13	(letter or editorial).pt.	1719660
14	12 not 13	6391
15	(conference abstract or conference paper or conference proceeding or "conference review").pt.	4391228
16	14 not 15	5389
17	limit 16 to medline	1699
18	16 not 17	3690

19	limit 18 to english language	3549
20	limit 19 to dc=20190107-20191112	680

15.4.5 Database name: Educational Resources Information Center (ERIC)

Set#	Searched for	Results
S1	TI,AB(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS)	10
S2	TI,AB(electronic* near/3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*))	17
S3	TI,AB((tobacco* or nicotin* or cigar* or cigs) near/3 (vapor* or vapour* or device* or inhalator* or inhaler*))	5
S4	TI,AB((tobacco* or nicotin* or cigar* or cigs) near/3 (dual* or multiple* or multi) near/3 ("use" or uses or user* or usage* or using*))	12
S5	TI,AB(nicotin* and (ENDS or ANDS))	14
S6	TI,AB(nicotin* near/3 deliver* system*)	2
S7	TI,AB(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*)	26
S8	s1 or s2 or s3 or s4 or s5 or s6 or s7	75

There was no reliable way of searching by date of entry and publication date could exclude e.g. any items published in December 2018 and added to the database in 2019. The 75 were added to EndNote. These were compared to the 69 ERIC results from the main search. Then removed the overlap between the main search and the rerun. There were 6 hits remaining for the rerun screening and these were added to the new EndNote file.

15.4.6 Database name: Health Management Information Consortium (HMIC)

Database(s): **HMIC Health Management Information Consortium** 1979 to September 2019

Search Strategy:

#	Searches	Results
1	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).ti,ab.	81
2	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).hw.	0
3	(electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).ti,ab.	55
4	(electronic* and (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).hw.	0
5	((tobacco* or nicotin* or cigar* or cigs) adj3 (vapor* or vapour* or device* or inhalator* or inhaler*)).ti,ab.	20
6	((tobacco* or nicotin* or cigar* or cigs) and (vapor* or vapour* or device* or inhalator* or inhaler*)).hw.	1
7	(nicotin* and (ENDS or ANDS)).ti,ab.	4
8	(nicotin* and (ENDS or ANDS)).hw.	0
9	(nicotin* adj3 deliver* system*).ti,ab.	7
10	(nicotin* and deliver* system*).hw.	0
11	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*)).ti,ab.	8
12	((tobacco* or nicotin* or cigar* or cigs) and (dual* or multiple* or multi) and ("use" or uses or user* or usage* or using*)).hw.	0
13	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).ti,ab.	0
14	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).hw.	0
15	or/1-14	125
16	(201810* or 201811* or 201812* or 2019*).up.	4287
17	15 and 16	8

The segment used on 7 January 2019 in the main search was “1979 to September 2018” so started this search from October 2018.

The main search was completed before we undertook the HMIC/SPP project and so the subject headings (.sh) field was used with selected phrases. We have since established that the heading word (.hw) field can use the adjacency operator. The HMIC and SPP rerun have therefore used the hw version. These terms were QAed in the search for 5.3 Pregnancy and they have been extracted from there.

15.4.7 Database name: MEDLINEDatabase(s): **Ovid MEDLINE(R)** 1946 to November 11, 2019

Search Strategy:

#	Searches	Results
1	Electronic Nicotine Delivery Systems/	2763
2	Vaping/	510
3	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).ti,ab.	2597
4	(electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).ti,ab.	1961
5	((tobacco* or nicotin* or cigar* or cigs) adj3 (vapor* or vapour* or device* or inhalator* or inhaler*)).ti,ab.	696
6	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*)).ti,ab.	344
7	(nicotin* and (ENDS or ANDS)).ti,ab.	262
8	(nicotin* adj3 deliver* system*).ti,ab.	309
9	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).ti,ab.	86
10	or/1-9	4292
11	Animals/ not (Animals/ and Humans/)	4608877
12	10 not 11	4089
13	limit 12 to (letter or historical article or comment or editorial or news or case reports)	803
14	12 not 13	3286
15	limit 14 to english language	3130
16	limit 15 to ed=20190107-20191112	591

15.4.8 Database name: MEDLINE-in-ProcessDatabase(s): **Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations** 1946 to November 11, 2019

Search Strategy:

#	Searches	Results
1	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).ti,ab.	1085
2	(electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).ti,ab.	710
3	((tobacco* or nicotin* or cigar* or cigs) adj3 (vapor* or vapour* or device* or inhalator* or inhaler*)).ti,ab.	162
4	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*)).ti,ab.	107
5	(nicotin* and (ENDS or ANDS)).ti,ab.	110
6	(nicotin* adj3 deliver* system*).ti,ab.	134
7	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).ti,ab.	15
8	or/1-7	1419
9	limit 8 to (letter or historical article or comment or editorial or news or case reports)	85
10	8 not 9	1334
11	limit 10 to english language	1314
12	limit 11 to dt=20190107-20191112	667

15.4.9 Database name: MEDLINE Epub Ahead of Print and Daily UpdateDatabase(s): **Ovid MEDLINE(R) Epub Ahead of Print** November 11, 2019, **Ovid MEDLINE(R) Daily Update** November 11, 2019

Search Strategy:

#	Searches	Results
1	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).ti,ab.	303
2	(electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).ti,ab.	182
3	((tobacco* or nicotin* or cigar* or cigs) adj3 (vapor* or vapour* or device* or inhalator* or inhaler*)).ti,ab.	35
4	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*)).ti,ab.	25
5	(nicotin* and (ENDS or ANDS)).ti,ab.	30
6	(nicotin* adj3 deliver* system*).ti,ab.	35
7	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).ti,ab.	12
8	or/1-7	369
9	limit 8 to (letter or historical article or comment or editorial or news or case reports)	14
10	8 not 9	355
11	limit 10 to english language	351

The MIP had to be split, unlike in the main search, as it was not appropriate to search the Epubs or Daily segments with date limits.

15.4.10 Database name: PsycINFODatabase(s): **PsycINFO** 1806 to October Week 4 2019

Search Strategy:

#	Searches	Results
1	Electronic Cigarettes/	1085
2	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).ti,ab.	1476
3	(electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).ti,ab.	969
4	((tobacco* or nicotin* or cigar* or cigs) adj3 (vapor* or vapour* or device* or inhalator* or inhaler*)).ti,ab.	265
5	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*)).ti,ab.	260
6	(nicotin* and (ENDS or ANDS)).ti,ab.	133
7	(nicotin* adj3 deliver* system*).ti,ab.	179
8	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).ti,ab.	75
9	or/1-8	2040
10	limit 9 to ("column/opinion" or editorial or letter)	68
11	9 not 10	1972
12	limit 11 to animal	63
13	11 not 12	1909
14	limit 13 to english language	1770
15	limit 14 to up=20181215-20191112	324

PsycINFO is updated weekly but the update codes give the specific day. The main search was done on 7 January 2019 but the segment used was "December week 5 2018" so I chose a start date slightly earlier in December to capture this start date.

15.4.11 Database name: Social Policy and Practice (SPP)Database(s): **Social Policy and Practice** 201907

Search Strategy:

#	Searches	Results
1	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).ti,ab.	5
2	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).hw.	0
3	(electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).ti,ab.	1
4	(electronic* and (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).hw.	1
5	((tobacco* or nicotin* or cigar* or cigs) adj3 (vapor* or vapour* or device* or inhalator* or inhaler*)).ti,ab.	0
6	((tobacco* or nicotin* or cigar* or cigs) and (vapor* or vapour* or device* or inhalator* or inhaler*)).hw.	0
7	(nicotin* and (ENDS or ANDS)).ti,ab.	0
8	(nicotin* and (ENDS or ANDS)).hw.	0
9	(nicotin* adj3 deliver* system*).ti,ab.	0
10	(nicotin* and deliver* system*).hw.	0
11	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*)).ti,ab.	0
12	((tobacco* or nicotin* or cigar* or cigs) and (dual* or multiple* or multi) and ("use" or uses or user* or usage* or using*)).hw.	0
13	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).ti,ab.	0
14	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).hw.	0
15	or/1-14	7
16	(201810* or 201811* or 201812* or 2019*).up.	32517
17	15 and 16	3

The amended search run in HMIC was also used in SPP (see above).

15.5 Web searching

15.5.1 Google search

The Google searches were repeated, looking for items from 2019 or that were not in the main search results.

Search engine	
Name	Google
URL	https://www.google.co.uk
Date searched	12/11/2019
Search terms	filetype:pdf site:gov.uk vaping filetype:pdf site:gov.uk vape filetype:pdf site:gov.uk "electronic cigarettes" filetype:pdf site:gov.uk "e-cigarettes" filetype:pdf site:gov.uk "ecigarettes" filetype:pdf site:gov.uk "electronic nicotine" filetype:pdf site:org.uk vaping filetype:pdf site:org.uk vape filetype:pdf site:org.uk "electronic cigarettes" filetype:pdf site:org.uk "e-cigarettes" filetype:pdf site:org.uk "ecigarettes" filetype:pdf site:org.uk "electronic nicotine" filetype:pdf site:nhs.uk vaping filetype:pdf site:nhs.uk vape filetype:pdf site:nhs.uk "electronic cigarettes" filetype:pdf site:nhs.uk "e-cigarettes" filetype:pdf site:nhs.uk "ecigarettes" filetype:pdf site:nhs.uk "electronic nicotine" filetype:pdf site:ac.uk vaping filetype:pdf site:ac.uk vape

	<p>filetype:pdf site:ac.uk "electronic cigarettes"</p> <p>filetype:pdf site:ac.uk "e-cigarettes"</p> <p>filetype:pdf site:ac.uk "ecigarettes"</p> <p>filetype:pdf site:ac.uk "electronic nicotine"</p>
How the results were selected	Only selected documents if the title or abstract were directly relevant to the questions. Did not include anything already in EndNote. Focussed on UK evidence. Did not include individual organisation's vaping policies.
Results	<p>ASH (2019) Use of e-cigarettes among young people in Great Britain</p> <p>More than three quarters of 11-18 year olds have never tried (76.9%) or are unaware of e-cigarettes (6.6%). • Young people vape mainly just to give it a try (52.4%) not because they think it looks cool (1.0%). • In 2019 15.4% of 11-18 year olds had tried vaping, compared to 16.0% in 2018. This is an increase from 2015 when 12.7% of 11-18 year olds had tried e-cigarettes. • There has also been an increase in current use since 2015 from 2.4% to 4.9%, with 1.6% of 11-18 year olds using e-cigarettes more than once a week in 2019. • Vaping is much less common among young people who have never smoked</p> <p>https://ash.org.uk/wp-content/uploads/2019/06/ASH-Factsheet-Youth-E-cigarette-Use-2019.pdf</p> <p>Cancer Research UK (2019) E-cigarettes and primary care: A cross-sectional survey of nurses and GPs across the UK.</p> <p>The study, led by Anne Ferrey at University of Oxford, used a cross-sectional survey of 2002 nurses and GPs across the UK to examine advice given on e-cigarettes, as well as clinician beliefs, attitudes and knowledge around e-cigarettes. 3 in 10 clinicians say that the topic of ecigarettes is raised in the majority of conversations about smoking. Over 1 in 3 clinicians are unsure if ecigarettes are safe enough to recommend as a quit tool to patients who smoke. 1 in 3 are unsure whether e-cigarettes are addictive. When asked what advice they would give patients on e-cigarettes, 3 in 5 clinicians said “we do not know enough about them so I don’t endorse them”.</p> <p>https://www.cancerresearchuk.org/sites/default/files/cancer-stats/full_report/full_report_0.pdf</p> <p>Centers for Disease Control and Prevention (2019) Outbreak of Lung Injury Associated with the Use of E-Cigarette, or Vaping, Products</p> <p>Details how CDC, the U.S. Food and Drug Administration (FDA), state and local health departments, and other clinical and public</p>

	<p>health partners are investigating a multistate outbreak of e-cigarette, or vaping, product use associated lung injury (EVALI).</p> <p>https://www.cdc.gov/tobacco/basic_information/e-cigarettes/severe-lung-disease.html</p> <p>Department of Health and Social Care (2019) The Government Response to the Science and Technology Committee's Seventh Report of the Session 2017-19 on E-cigarettes</p> <p>This Command Paper sets out the UK Government's response to the Science and Technology Committee's Seventh Report of the Session 2017-19 on E-cigarettes. The Government welcomes the Committee's Report and the important contribution it makes to the wider debate on e-cigarettes. The Government believes in proportionate regulation of e-cigarettes, recognising that they are not risk-free. The Government has consistently highlighted that quitting smoking and nicotine use completely is the best way to improve health. E-cigarettes are not risk free. However, the evidence is increasingly clear that e-cigarettes are significantly less harmful to health than smoking tobacco, and can help smokers to quit, particularly when combined with stop smoking services.</p> <p>https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/762847/government-response-to-science-and-technology-committee_s-report-on-e-cig.pdf</p> <p>Food and Drug Administration (2019) Lung Illnesses Associated with Use of Vaping Products</p> <p>Summarises the FDA response to recent media reports about severe respiratory illnesses being associated with vaping.</p> <p>https://www.fda.gov/news-events/public-health-focus/lung-illnesses-associated-use-vaping-products</p> <p>Office for National Statistics (2019) Adult smoking habits in the UK: 2018</p> <p>In Great Britain, 6.3% of people in 2018 said they currently used an e-cigarette, which equates to approximately 3.2 million adults in the population</p> <p>https://www.ons.gov.uk/peoplepopulationandcommunity/healthandsocialcare/healthandlifeexpectancies/bulletins/adultsmokinghabitsingreatbritain/2018/pdf</p> <p>Public Health England (2019) Vaping in England: an evidence update February 2019 A report commissioned by Public Health England</p>
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	<p>This report was commissioned by Public Health England to summarise evidence to underpin policy and regulation of electronic cigarettes in England. It focuses mainly on the latest evidence on prevalence and characteristics of electronic cigarette use in young people and adults in England. The context for the report is that smoking remains the leading preventable cause of illness and premature death and is one of the largest causes of health inequalities. So, alternative nicotine delivery systems, such as electronic cigarettes or e-cigarettes, could play a major role in improving public health.</p> <p>https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/821179/Vaping_in_England_an_evidence_update_February_2019.pdf</p>
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15.5.2 Search engines

Search engine			
Name	Health Services/Technology Assessment Texts (HSTAT)		
URL	https://www.ncbi.nlm.nih.gov/books/NBK16710		
Date searched	12/11/2019		
Search terms	#1	Search ((ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS))	871
	#2	Search ((Electronic tobacco* or Electronic nicotine* or Electronic cigar* or Electronic cigs or Electronic vapor* or Electronic vapour*))	1599
	#3	Search ((Dual tobacco* or dual nicotine* or dual cigar* or dual cigs))	369
	#4	Search Nicotine deliver*	410
	#5	Search ((polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*))	1784
	#6	Search Electronic Nicotine Delivery Systems[MeSH Terms]	90
	#7	Search Vaping[MeSH Terms]	90
	#8	Search ((#1 or #2 or #3 or #4 or #5 or #6 or #7))	3734
	#9	Search hstatcollect[filter]	3806 8
	#10	Search ((#8 and #9))	406
How the results were selected	Only selected documents if the title or abstract were directly relevant to the questions and had not been selected in the main search.		

Results	None additional
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Search engine	
Name	NICE Evidence Search
URL	https://www.evidence.nhs.uk
Date searched	12/11/2019
Search terms	Searched for electronic cigarettes, e-cigs, ecigs, vape, vaping, vapouriser, electronic nicotine.
How the results were selected	<p>Only selected documents if the title or abstract were directly relevant to the questions. Did not include anything already in EndNote. Did not include Behind the Headlines stories as they are just commentaries on articles already in EndNote.</p> <p>Sorted by date and then reviewed all of the results up to 250 then applied filters for 'guidance and policy' and 'practice based information' and reviewed 250 again, then removed filters and applied Area of Interest-Public Health and reviewed a further 250.</p> <p>Did not include items aimed at educating the public.</p> <p>Did not select anything already included in the main search.</p>
Results	<p>US Food and Drug Administration (2019) Premarket Tobacco Product Applications for Electronic Nicotine Delivery Systems (ENDS) Guidance for Industry</p> <p>This guidance is intended to assist persons submitting premarket tobacco product applications (PMTAs) for electronic nicotine delivery systems (ENDS) under section 910 of the Federal Food, Drug, and Cosmetic Act (the FD&C Act) (21 U.S.C. 387). This guidance communicates FDA's current thinking on these applications to improve the efficiency of application submission and review; however, the recommendations in this guidance are non-binding. When FDA reviews PMTAs for ENDS, it will base decisions on the obligations that arise from the FD&C Act and its implementing regulations. FDA anticipates that the experience gained through the publication of this guidance and review of PMTAs may contribute to future rulemaking and guidances.</p> <p>https://www.fda.gov/regulatory-information/search-fda-guidance-documents/premarket-tobacco-product-applications-electronic-nicotine-delivery-systems-ends</p>

15.5.3 Website browsing

Website	
Name	Action on Smoking and Health (ASH)
URL	http://ash.org.uk/home
Date searched	13/11/2019
Search terms (including any specific sections browsed)	Browsed fact sheets, briefings, reports and submissions.
Results	<p>ASH (2019) Use of e-cigarettes among adults in Great Britain, 2019</p> <p>This fact sheet provides a detailed analysis of adult attitudes and behaviour with respect to e-cigarettes and how they have changed over time. The data are taken from an annual survey, Smokefree GB, carried out for ASH by YouGov. The survey first started asking about e-cigarette use in 2010 and this update includes the results of the survey carried out in Spring 2019.</p> <p>https://ash.org.uk/information-and-resources/fact-sheets/statistical/use-of-e-cigarettes-among-adults-in-great-britain-2019/</p>

Website	
Name	Local Government Association
URL	https://www.local.gov.uk
Date searched	13/11/2019
Search terms (including any specific sections browsed)	<p>Searched publications for electronic cigarettes, e-cigs, ecigs, vape, vaping, vapouriser. No results so also searched for smoking, cigarettes, tobacco and nicotine.</p> <p>Browsed the social care, health and integration page.</p> <p>Browsed the public health page https://www.local.gov.uk/topics/social-care-health-and-integration/public-health</p> <p>Did not include the July 2019 Tobacco Control plan as relevant to this question.</p> <p>https://www.local.gov.uk/sites/default/files/documents/22.44_Must_Know_Guide_On_Tobacco_Control_05.pdf</p>
Results	None relevant

Website	
Name	National Centre for Smoking Cessation and Training
URL	http://www.ncsct.co.uk
Date searched	13/11/2019

Search terms (including any specific sections browsed)	Browsed research and research resources, training resources, briefings and commissioning resources. Searched for electronic cigarettes, e-cigs, ecigs, vape, vaping, vapouriser.
Results	None additional

Website	
Name	NHS Digital
URL	https://digital.nhs.uk
Date searched	13/11/2019
Search terms (including any specific sections browsed)	Searched for electronic cigarettes, e-cigs, ecigs, vape, vaping, vapouriser. Searched for tobacco, smoking and cigarettes. Only included annual publications and only included the most recent edition.
Results	<p>NHS Digital (2019) Statistics on smoking, England, 2019.</p> <p>Finds that in 2017/18 there were 489,300 hospital admissions attributable to smoking, an increase of 1% on the previous year. Notes that 14.4% of adults in 2018 were current smokers, compared to 19.8% in 2011 but a national target of 12%. Highlights that 6.3% of adults were users of e-cigarettes, with the 35-49 age group the most likely to use them.</p> <p>https://digital.nhs.uk/data-and-information/publications/statistical/statistics-on-smoking/statistics-on-smoking-england-2019</p> <p>NHS Digital (2019) Statistics on NHS Stop Smoking Services in England April 2018 to March 2019.</p> <p>Finds that 121,742 (52%) of the 233,778 people setting a quit date were successful, with 70% of these verified by carbon monoxide testing. Highlights that 6169 (45%) of 13,589 pregnant women setting a quit date were successful and 61% of these were verified by CO testing.</p> <p>https://digital.nhs.uk/data-and-information/publications/statistical/statistics-on-nhs-stop-smoking-services-in-england/april-2018-to-march-2019</p> <p>NHS Digital (2019) Smoking, Drinking and Drug Use among Young People in England 2018</p>

	<p>This report contains results from a biennial survey of secondary school pupils in England in years 7 to 11 (mostly aged 11 to 15), focusing on smoking, drinking and drug use. 16% of pupils had ever smoked cigarettes, down from 19% in 2016, and 49% in 1996.</p> <p>https://digital.nhs.uk/data-and-information/publications/statistical/smoking-drinking-and-drug-use-among-young-people-in-england/2018</p>
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Website	
Name	Northern Ireland Assembly
URL	http://www.niassembly.gov.uk/
Date searched	13/11/2019
Search terms (including any specific sections browsed)	Searched publications for electronic cigarettes, e-cigs, ecigs, vape, vaping, vapouriser.
Results	None relevant

Website	
Name	Public Health England
URL	https://www.gov.uk/government/organisations/public-health-england
Date searched	13/11/2019
Search terms (including any specific sections browsed)	<p>Searched publications and announcements for electronic cigarettes, e-cigs, ecigs, vape, vaping, vapouriser.</p> <p>Browsed the vaping section https://www.gov.uk/government/collections/e-cigarettes-and-vaping-policy-regulation-and-guidance</p> <p>Only included reports relevant to the particular questions we are doing. Did not include exporting and regulations on consumer products e.g. here.</p>
Results	See PHE Evidence update above.

Website	
Name	Royal College of Paediatrics and Child Health
URL	https://www.rcpch.ac.uk/
Date searched	13/11/2019

Search terms (including any specific sections browsed)	Searched for electronic cigarettes, e-cigs, ecigs, vape, vaping, vapouriser. No results so also searched for smoking, cigarettes, tobacco and nicotine. Also browsed resources and key topics.
Results	None relevant

Website	
Name	Royal College of Physicians
URL	https://www.rcplondon.ac.uk
Date searched	13/11/2019
Search terms (including any specific sections browsed)	Searched for electronic cigarettes, e-cigs, ecigs, vape, vaping, vapouriser. Also checked smoking, cigarettes, tobacco and nicotine and reviewed https://www.rcplondon.ac.uk/projects/rcp-policy-public-health
Results	Royal College of Physicians (2019) RCP advice on vaping following reported cases of deaths and lung disease in the US Following reported deaths and disease in the US linked to vaping, there has been considerable public concern about the safety of vaping products and whether or not it is safe to continue vaping in the UK. RCP restates its position on vaping following these reports. This briefing note outlines the current situation in the US, describes why the US is different to the UK, including the different products available and the different regulatory situation, the UK evidence so far and our continuing advice to current smokers that vaping is still far less harmful than smoking tobacco. https://www.rcplondon.ac.uk/projects/outputs/rcp-advice-vaping-following-reported-cases-deaths-and-lung-disease-us

Website	
Name	Scottish Government
URL	https://www.gov.scot
Date searched	13/11/2019
Search terms (including any specific sections browsed)	Browsed the health and social care section. Browsed the smoking page https://www.gov.scot/policies/smoking/ and https://www.gov.scot/policies/smoking/electronic-cigarettes/

	Searched within health publications for smoking, tobacco, nicotine. Searched in publications generally for electronic cigarettes, e-cigs, ecigs, vape, vaping, vapourisers.
Results	None extra

Website	
Name	Smokefree NHS
URL	https://www.nhs.uk/smokefree
Date searched	13/11/2019
Search terms (including any specific sections browsed)	Browsed the resources section. No results from Google using site: https://www.nhs.uk/smokefree filetype:pdf Browsed https://www.nhs.uk/smokefree/help-and-advice/e-cigarettes
Results	None additional

Website	
Name	Smoking Toolkit Study
URL	http://www.smokinginengland.info
Date searched	13/11/2019
Search terms (including any specific sections browsed)	Browsed latest stats, reports, key publications and STS documents. Did not include anything from Key Publications section as they were published elsewhere as journal articles and so they should have come up in the database searches.
Results	Smoking Toolkit Study (2019) Trends in electronic cigarette use in England updated 11 October 2019 [PowerPoint slides] Aims to track use of electronic cigarettes over time and assess how far any increase is accompanied by changes in use of other aids to cessation or smoking reduction and key performance indicators for tobacco control. http://www.smokinginengland.info/downloadfile/?type=sts-documents&src=46

Website

Name	Treat Tobacco
URL	http://www.treatobacco.net/en/index.php
Date searched	13/11/2019
Search terms (including any specific sections browsed)	Browsed http://www.treatobacco.net/en/page_492.php but it had not been updated since 2014. Did not include any journal article as they should have already been retrieved.
Results	None

Website	
Name	UK Centre for Tobacco and Alcohol Studies
URL	http://ukctas.net/index.html
Date searched	13/11/2019
Search terms (including any specific sections browsed)	Browsed all sections of the website, including the Policy, Research and Reports sections. Did not include anything seen before i.e. the PHE reports.
Results	None additional

Website	
Name	University of Bath Tobacco Control Research Group
URL	https://researchportal.bath.ac.uk/en/organisations/uk-centre-for-tobacco-control-studies
Date searched	13/11/2019
Search terms (including any specific sections browsed)	Browsed research outputs from 2019. Also browsed http://www.bath.ac.uk/health/research/tobacco-control/
Results	None

Website	
Name	University of Stirling Centre for Tobacco Control Research
URL	https://www.stir.ac.uk/about/faculties-and-services/health-sciences-sport/research/research-groups/centre-for-tobacco-control-research/publications

Date searched	13/11/2019
Search terms (including any specific sections browsed)	No action – browsed publication list but the most recent was from 2017.
Results	None additional

Website	
Name	Welsh Government
URL	https://gov.wales/?lang=en
Date searched	17/01/2019
Search terms (including any specific sections browsed)	Searched for electronic cigarettes, e-cigs, ecigs, vape, vaping, vapouriser. Browsed the health and social care section for reports https://gov.wales/topics/health/?lang=en https://gov.wales/smoking
Results	None additional

Website	
Name	World Health Organization Europe
URL	http://www.euro.who.int/en/health-topics/disease-prevention/tobacco
Date searched	13/11/2019
Search terms (including any specific sections browsed)	Browsed the list of publications http://www.euro.who.int/en/health-topics/disease-prevention/tobacco/publications/a-z-list-of-all-publications2 Searched the overall publications list for smoking, cigarettes, tobacco and nicotine http://www.euro.who.int/en/publications/search/a-z-list-of-all-publications Searched for electronic cigarettes, e-cigs, ecigs, vape, vaping, vapouriser in IRIS with date issued limited to 2019. http://apps.who.int/iris/?locale=en Did not include the Tobacco Control Playbook http://www.euro.who.int/__data/assets/pdf_file/0011/395687/Tobacco-Control-Playbook-final.pdf?ua=1

Results	<p>World Health Organization (2019) European tobacco use: trends report 2019.</p> <p>Provides figures on prevalence of tobacco use, health impacts and policy responses across Europe.</p> <p>http://www.euro.who.int/en/health-topics/disease-prevention/tobacco/publications/2019/european-tobacco-use-trends-report-2019-2019</p> <p>World Health Organization (2019) WHO report on the global tobacco epidemic, 2019. Offer help to quit tobacco use.</p> <p>Reviews global progress in preventing tobacco uptake and supporting smoking cessation.</p> <p>http://www.euro.who.int/en/health-topics/disease-prevention/tobacco/publications/2019/european-tobacco-use-trends-report-2019-2019</p> <p>World Health Organization (2019) WHO study group on tobacco product regulation. Report on the scientific basis of tobacco product regulation</p> <p>This technical report, based largely on background papers prepared for a meeting of TobReg in December 2017, covers pertinent and critical issues in tobacco product regulation. The section on ENDS is limited to the clinical pharmacology of nicotine in these products and is based on evidence available up to December 2017, with some additions after review between March and December 2018. WHO and its technical groups, including TobReg, are monitoring market developments, research, publications, commentaries, industry activities and debate on ENDS (including e-cigarettes) and other novel products and are reviewing global surveillance mechanisms to ensure effective monitoring and evaluation of these products.</p> <p>See Chapter 3 - Clinical pharmacology of nicotine in electronic nicotine delivery systems</p> <p>https://apps.who.int/iris/bitstream/handle/10665/329445/9789241210249-eng.pdf?sequence=1&isAllowed=y</p>
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16 Search for RQ4.1, RQ6.2, RQ6.3, RQ6.4 (Ecigs effectiveness) – Rerun 2

16.1 Table of results

Database name	Date searched	Database Platform	Database segment or version
Applied Social Science Index and Abstracts (ASSIA)	15/07/2020	ProQuest	1987-current
Cochrane Central Register of Controlled Trials (CENTRAL)	15/07/2020	Wiley	Cochrane Central Register of Controlled Trials Issue 7 of 12, July 2020
Cochrane Database of Systematic Reviews (CDSR)	15/07/2020	Wiley	Cochrane Database of Systematic Reviews Issue 7 of 12, July 2020
Embase	15/07/2020	Ovid	Embase 1974 to 2020 July 14
Educational Resources Information Center (ERIC)	15/07/2020	ProQuest	1966-current
Health Management Information Consortium (HMIC)	15/07/2020	Ovid	HMIC Health Management Information Consortium 1979 to May 2020
MEDLINE	15/07/2020	Ovid	Ovid MEDLINE(R) 1946 to July 14, 2020
MEDLINE-in-Process	15/07/2020	Ovid	Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations 1946 to July 14, 2020
MEDLINE-in-Process Epub Ahead-of-Print	15/07/2020	Ovid	Ovid MEDLINE(R) Epub Ahead of Print July 14, 2020, Ovid MEDLINE(R) Daily Update July 14, 2020
PsycINFO	15/07/2020	Ovid	APA PsycInfo 1806 to July Week 1 2020
Social Policy and Practice (SPP)	15/07/2020	Ovid	Social Policy and Practice 202004

Search source	No. of records retrieved	Results	Total results	De-duplicated
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Applied Social Science Index and Abstracts (ASSIA)	134	3127	3154	1382
Cochrane Central Register of Controlled Trials (CENTRAL)	83			
Cochrane Database of Systematic Reviews (CDSR)	3			
Embase	762			
ERIC	4			
Health Management Information Consortium (HMIC)	4			
MEDLINE	718			
MEDLINE-in-Process	665			
MEDLINE-in-Process Epub Ahead-of-Print	445			
PsycINFO	301			
Social Policy and Practice (SPP)	8			
Websites	27			

16.2 Database strategy outline

(E-cigarettes OR Vaping) AND Limits

The main searches were run on 12 January 2019.

These re-run searches were run on 11-13 November 2019.

16.3 Re-run narrative

No new QA – see main search Jan 2019

No new peer review - see main search Jan 2019

The database searches were modified as appropriate, with notes given below.

Website searches were done on the same resources as the main search. The website results were added to the same EPPI5 review as the rest of the Re-run results rather than putting them in a separate Word file as in the main search.

No further work was done on Web of Science or with citation searching.

This is the second rerun. Searches were backdated to the last rerun in November 2019.

The 3127 results from ReRun2 were downloaded. This was deduped and 881 duplicates were removed and 2246 items remained.

The 2246 were deduped against the 5280 from the main search and the 1560 from ReRun1. A further 891 items were removed and 1355 items remained.

The 1355 were exported to a new EPPI review and then the 27 results were added from the website searches.

There were 1382 results to be screened from this second re-run search.

16.4 Database strategies

16.4.1 Database name: Applied Social Science Index and Abstracts (ASSIA)

Set#	Searched for	Results
S1	subject("Electronic cigarettes")	474
S2	TI,AB(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS)	184
S3	TI,AB(electronic* near/3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*))	326
S4	TI,AB((tobacco* or nicotin* or cigar* or cigs) near/3 (vapor* or vapour* or device* or inhalator* or inhaler*))	102
S5	TI,AB((tobacco* or nicotin* or cigar* or cigs) near/3 (dual* or multiple* or multi) near/3 ("use" or uses or user* or usage* or using*))	134
S6	TI,AB(nicotin* and (ENDS or ANDS))	166
S7	TI,AB(nicotin* near/3 deliver* system*)	71
S8	TI,AB(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*)	175
S9	s1 or s2 or s3 or s4 or s5 or s6 or s7 or s8	984

There was no reliable way of searching by date of entry and publication date could exclude relevant publications. Downloaded all of the 984 results. Deduped these against the 848 from ReRun 1 and the 1521 from Main Search. This gave 134 unique papers from Rerun 2. These were exported to a new RIS file and this was used the final EPPI results for ReRun 2.

16.4.2 Database name: Cochrane Central Register of Controlled Trials (CENTRAL)

- #1 MeSH descriptor: [Electronic Nicotine Delivery Systems] this term only
108
- #2 MeSH descriptor: [Vaping] this term only 35
- #3 [mh "E-cigarette Vapor"] 0
- #4 (ecig* or e-cig* or "e-voke*" or juul* or vape* or vaping* or ENNDS):ti,ab 551
- #5 (electronic* near/3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)):ti,ab 374
- #6 ((tobacco* or nicotin* or cigar* or cigs) near/3 (vapor* or vapour* or device* or inhalator* or inhaler*)):ti,ab 238
- #7 ((tobacco* or nicotin* or cigar* or cigs) near/3 (dual* or multiple* or multi) near/3 ("use" or uses or user* or usage* or using*)):ti,ab 43
- #8 (nicotin* and (ENDS or ANDS)):ti,ab 63
- #9 (nicotin* near/3 deliver* system*):ti,ab 121
- #10 (polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*):ti,ab 303
- #11 {or #1-#10} 1126
- #12 (clinicaltrials or trialsearch):so 329110
- #13 #11 not #12 719
- #14 "conference":pt 163355
- #15 #13 not #14 587
- #16 #13 not #14 with Cochrane Library publication date Between Nov 2019 and Jul 2020, in Trials 83

Cochrane have started to add more trial registry entries to CENTRAL and so line 11 was expanded from ("clinicaltrials.gov":so) in the main search to the current recommended command.

Used the date added to Cochrane Library rather than date of original publication.

Added the 2020 MeSH term for Ecig Vapor on #3 but there were no hits yet.

16.4.3 Database name: Cochrane Database of Systematic Reviews (CDSR)

- #1 MeSH descriptor: [Electronic Nicotine Delivery Systems] this term only
108
- #2 MeSH descriptor: [Vaping] this term only 35
- #3 [mh "E-cigarette Vapor"] 0
- #4 (ecig* or e-cig* or "e-voke*" or juul* or vape* or vaping* or ENNDS):ti,ab 551
- #5 (electronic* near/3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)):ti,ab 374
- #6 ((tobacco* or nicotin* or cigar* or cigs) near/3 (vapor* or vapour* or device* or inhalator* or inhaler*)):ti,ab 238
- #7 ((tobacco* or nicotin* or cigar* or cigs) near/3 (dual* or multiple* or multi) near/3 ("use" or uses or user* or usage* or using*)):ti,ab 43
- #8 (nicotin* and (ENDS or ANDS)):ti,ab 63
- #9 (nicotin* near/3 deliver* system*):ti,ab 121
- #10 (polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*):ti,ab 303
- #11 {or #1-#10} 1126
- #12 (clinicaltrials or trialsearch):so 329110
- #13 #11 not #12 719
- #14 "conference":pt 163355
- #15 #13 not #14 587
- #16 #13 not #14 with Cochrane Library publication date Between Nov 2019 and Jul 2020, in Cochrane Reviews, Cochrane Protocols 3

[Results: Cochrane Reviews = 3; Cochrane Protocols = 0]

16.4.4 Database name: EmbaseDatabase(s): **Embase** 1974 to 2020 July 14

Search Strategy:

#	Searches	Results
1	electronic cigarette/	6396
2	Vaping/	1905
3	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).ti,ab.	5920
4	(electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).ti,ab.	4014
5	((tobacco* or nicotin* or cigar* or cigs) adj3 (vapor* or vapour* or device* or inhalator* or inhaler*)).ti,ab.	1286
6	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*)).ti,ab.	607
7	(nicotin* and (ENDS or ANDS)).ti,ab.	556
8	(nicotin* adj3 deliver* system*).ti,ab.	682
9	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).ti,ab.	128
10	or/1-9	9160
11	nonhuman/ not (human/ and nonhuman/)	4642898
12	10 not 11	8703
13	(letter or editorial).pt.	1780313
14	12 not 13	7731
15	(conference abstract or conference paper or conference proceeding or "conference review").pt.	4591803
16	14 not 15	6558
17	limit 16 to medline	2167
18	16 not 17	4391

19	limit 18 to english language	4213
20	limit 19 to dc=20191101-20200715	762

16.4.5 Database name: Educational Resources Information Center (ERIC)

Set#	Searched for	Results
S1	TI,AB(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS)	12
S2	TI,AB(electronic* near/3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*))	19
S3	TI,AB((tobacco* or nicotin* or cigar* or cigs) near/3 (vapor* or vapour* or device* or inhalator* or inhaler*))	5
S4	TI,AB((tobacco* or nicotin* or cigar* or cigs) near/3 (dual* or multiple* or multi) near/3 ("use" or uses or user* or usage* or using*))	12
S5	TI,AB(nicotin* and (ENDS or ANDS))	14
S6	TI,AB(nicotin* near/3 deliver* system*)	3
S7	TI,AB(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*)	26
S8	s1 or s2 or s3 or s4 or s5 or s6 or s7	79

There was no reliable way of searching by date of entry and publication date could exclude relevant publications. Downloaded all of the 79 results. Deduped these against the 75 from ReRun 1 and the 69 from Main Search. This gave 4 unique papers from Rerun 2. These were exported to a new RIS file and this was used the final EPPI results for ReRun 2.

16.4.6 Database name: Health Management Information Consortium (HMIC)

Database(s): **HMIC Health Management Information Consortium** 1979 to May 2020

Search Strategy:

#	Searches	Results
1	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).ti,ab.	84
2	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).hw.	0
3	(electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).ti,ab.	56
4	(electronic* and (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).hw.	0
5	((tobacco* or nicotin* or cigar* or cigs) adj3 (vapor* or vapour* or device* or inhalator* or inhaler*)).ti,ab.	21
6	((tobacco* or nicotin* or cigar* or cigs) and (vapor* or vapour* or device* or inhalator* or inhaler*)).hw.	1
7	(nicotin* and (ENDS or ANDS)).ti,ab.	4
8	(nicotin* and (ENDS or ANDS)).hw.	0
9	(nicotin* adj3 deliver* system*).ti,ab.	8
10	(nicotin* and deliver* system*).hw.	0
11	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*)).ti,ab.	8
12	((tobacco* or nicotin* or cigar* or cigs) and (dual* or multiple* or multi) and ("use" or uses or user* or usage* or using*)).hw.	0
13	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).ti,ab.	0
14	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).hw.	0
15	or/1-14	129
16	(201909* or 201910* or 201911* or 201912* or 2020*).up.	2685
17	15 and 16	4

The segment used for the first rerun was September 2019 so started this search from September 2019.

The main search was completed before we undertook the HMIC/SPP project and so the subject headings (.sh) field was used with selected phrases. We have since established that the heading word (.hw) field can use the adjacency operator. The HMIC and SPP reruns have therefore used the hw version. These terms were QAed in the search for 5.3 Pregnancy and they were extracted from there. This 2nd rerun has just used the same search as the 1st rerun,

16.4.7 Database name: MEDLINEDatabase(s): **Ovid MEDLINE(R)** 1946 to July 14, 2020

Search Strategy:

#	Searches	Results
1	Electronic Nicotine Delivery Systems/	3382
2	Vaping/	982
3	E-Cigarette Vapor/	15
4	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).ti,ab.	3284
5	(electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).ti,ab.	2376
6	((tobacco* or nicotin* or cigar* or cigs) adj3 (vapor* or vapour* or device* or inhalator* or inhaler*)).ti,ab.	764
7	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*)).ti,ab.	400
8	(nicotin* and (ENDS or ANDS)).ti,ab.	321
9	(nicotin* adj3 deliver* system*).ti,ab.	387
10	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).ti,ab.	92
11	or/1-10	5185
12	Animals/ not (Animals/ and Humans/)	4684344
13	11 not 12	4950
14	limit 13 to (letter or historical article or comment or editorial or news or case reports)	967
15	13 not 14	3983
16	limit 15 to english language	3805
17	limit 16 to ed=20191101-20200715	718

Note that this is a slightly updated version of the strategies used in the original guidance search and the first rerun. The MeSH term E-Cigarette Vapor/ was added in the MeSH 2020

reload. It only affects records added in 2020 and so does not need to be backdated before November 2019. Free text for ecigs and vapour was already included in the search.

16.4.8 Database name: MEDLINE-in-ProcessDatabase(s): **Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations** 1946 to July 14, 2020

Search Strategy:

#	Searches	Results
1	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).ti,ab.	1404
2	(electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).ti,ab.	856
3	((tobacco* or nicotin* or cigar* or cigs) adj3 (vapor* or vapour* or device* or inhalator* or inhaler*)).ti,ab.	199
4	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*)).ti,ab.	125
5	(nicotin* and (ENDS or ANDS)).ti,ab.	141
6	(nicotin* adj3 deliver* system*).ti,ab.	174
7	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).ti,ab.	31
8	or/1-7	1798
9	limit 8 to (letter or historical article or comment or editorial or news or case reports)	165
10	8 not 9	1633
11	limit 10 to english language	1617
12	limit 11 to dt=20191101-20200715	665

16.4.9 Database name: MEDLINE Epub Ahead of Print and Daily UpdateDatabase(s): **Ovid MEDLINE(R) Epub Ahead of Print** July 14, 2020, **Ovid MEDLINE(R) Daily****Update** July 14, 2020

Search Strategy:

#	Searches	Results
1	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).ti,ab.	390
2	(electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).ti,ab.	198
3	((tobacco* or nicotin* or cigar* or cigs) adj3 (vapor* or vapour* or device* or inhalator* or inhaler*)).ti,ab.	39
4	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*)).ti,ab.	31
5	(nicotin* and (ENDS or ANDS)).ti,ab.	37
6	(nicotin* adj3 deliver* system*).ti,ab.	44
7	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).ti,ab.	10
8	or/1-7	485
9	limit 8 to (letter or historical article or comment or editorial or news or case reports)	37
10	8 not 9	448
11	limit 10 to english language	445

The MIP had to be split, unlike in the main search, as it was not appropriate to search the Epubs or Daily segments with date limits.

16.4.10 Database name: PsycINFODatabase(s): **APA PsycInfo** 1806 to July Week 1 2020

Search Strategy:

#	Searches	Results
1	Electronic Cigarettes/	1363
2	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).ti,ab.	1767
3	(electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).ti,ab.	1098
4	((tobacco* or nicotin* or cigar* or cigs) adj3 (vapor* or vapour* or device* or inhalator* or inhaler*)).ti,ab.	299
5	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*)).ti,ab.	302
6	(nicotin* and (ENDS or ANDS)).ti,ab.	155
7	(nicotin* adj3 deliver* system*).ti,ab.	206
8	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).ti,ab.	85
9	or/1-8	2393
10	limit 9 to ("column/opinion" or editorial or letter)	74
11	9 not 10	2319
12	limit 11 to animal	70
13	11 not 12	2249
14	limit 13 to english language	2116
15	limit 14 to up=20191001-20200715	301

PsycINFO is updated weekly but the update codes give the specific day. The previous rerun search was done on October Week 4 2019 so I chose a start date slightly earlier to capture this start date.

16.4.11 Database name: Social Policy and Practice (SPP)Database(s): **Social Policy and Practice** 202004

Search Strategy:

#	Searches	Results
1	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).ti,ab.	11
2	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).hw.	0
3	(electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).ti,ab.	1
4	(electronic* and (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).hw.	1
5	((tobacco* or nicotin* or cigar* or cigs) adj3 (vapor* or vapour* or device* or inhalator* or inhaler*)).ti,ab.	0
6	((tobacco* or nicotin* or cigar* or cigs) and (vapor* or vapour* or device* or inhalator* or inhaler*)).hw.	0
7	(nicotin* and (ENDS or ANDS)).ti,ab.	0
8	(nicotin* and (ENDS or ANDS)).hw.	0
9	(nicotin* adj3 deliver* system*).ti,ab.	0
10	(nicotin* and deliver* system*).hw.	0
11	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*)).ti,ab.	0
12	((tobacco* or nicotin* or cigar* or cigs) and (dual* or multiple* or multi) and ("use" or uses or user* or usage* or using*)).hw.	0
13	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).ti,ab.	0
14	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).hw.	0
15	or/1-14	13
16	(201907* or 201908* or 201909* or 201910* or 201911* or 201912* or 2020*).up.	73975
17	15 and 16	8

The segment used in the last rerun was 201907 so backdated to July 2019.

The amended search run in HMIC was also used in SPP (see above).

16.5 Web searching

16.5.1 Google search

The Google searches were repeated, looking for items from Nov 2019 onwards that were not in the main search results.

Search engine	
Name	Google
URL	https://www.google.co.uk
Date searched	15/07/2020
Search terms	<p>All results limited to last year. Browsed first 20 results.</p> <p>filetype:pdf site:gov.uk vaping filetype:pdf site:gov.uk vape filetype:pdf site:gov.uk "electronic cigarettes" filetype:pdf site:gov.uk "e-cigarettes" filetype:pdf site:gov.uk "ecigarettes" filetype:pdf site:gov.uk "electronic nicotine"</p> <p>filetype:pdf site:org.uk vaping filetype:pdf site:org.uk vape filetype:pdf site:org.uk "electronic cigarettes" filetype:pdf site:org.uk "e-cigarettes" filetype:pdf site:org.uk "ecigarettes" filetype:pdf site:org.uk "electronic nicotine"</p> <p>filetype:pdf site:nhs.uk vaping filetype:pdf site:nhs.uk vape filetype:pdf site:nhs.uk "electronic cigarettes" filetype:pdf site:nhs.uk "e-cigarettes" filetype:pdf site:nhs.uk "ecigarettes" filetype:pdf site:nhs.uk "electronic nicotine"</p>
How the results were selected	Only selected documents if the title or abstract were directly relevant to the questions. Did not include anything already in

	EPPI. Focussed on UK evidence. Did not include individual organisation's vaping policies.
Results	<p>Institute and Faculty of Actuaries E-cigarettes – No smoke without fire? https://www.actuaries.org.uk/system/files/field/document/Impact%20of%20e%20cigarette%20Sessional%20P%20Final%2020200130.pdf</p> <p>Voke® nicotine inhaler for smoking cessation and reduction Northern Treatment Advisory Group, February 2020 http://ntag.nhs.uk/docs/app/NTAG-Appraisal-Voke-nicotine-inhalator-Feb-2020-final-for-web.pdf</p> <p>Listed under Source – COT website</p> <p>COMMITTEE ON TOXICITY OF CHEMICALS IN FOOD, CONSUMER PRODUCTS AND THE ENVIRONMENT (COT) Framework for risk assessment of flavouring compounds in electronic nicotine (and non-nicotine) delivery systems (E(N)NDS – e-cigarettes) https://cot.food.gov.uk/sites/default/files/frameworkforriskassessmentflavourings_0.pdf</p> <p>Potential toxicological risks from electronic nicotine (and non-nicotine) delivery systems (E(N)NDS – e-cigarettes). Paper 10b: Toxicity assessment of flavourings used in E(N)NDS: Cinnamaldehyde https://cot.food.gov.uk/sites/default/files/tox2019-25.pdf</p> <p>Potential toxicological risks from electronic nicotine (and non-nicotine) delivery systems (E(N)NDS – e-cigarettes). Paper 10a: Toxicity assessment of flavourings used in E(N)NDS: Vanillin https://cot.food.gov.uk/sites/default/files/tox2019-24.pdf</p> <p>Potential toxicological risks from electronic nicotine (and non-nicotine) delivery systems (E(N)NDS – e-cigarettes). Paper 8: Additional information on toxicity in adolescent and young adult users. https://cot.food.gov.uk/sites/default/files/tox2019-01.pdf</p>

<p>Potential toxicological risks from electronic nicotine (and non-nicotine) delivery systems (E(N)NDS – e-cigarettes). Paper 9: Bystander exposure</p> <p>https://cot.food.gov.uk/sites/default/files/tox2019-11.pdf</p> <p>Potential toxicological risks from electronic nicotine (and non-nicotine) delivery systems (E(N)NDS – e-cigarettes). Paper 11: Decision tree for risk assessing flavouring compounds in E(N)NDS</p> <p>https://cot.food.gov.uk/sites/default/files/tox2019-37.pdf</p> <p>Potential toxicological risks from electronic nicotine (and non-nicotine) delivery systems (E(N)NDS – e-cigarettes). Paper 12: Toxicological review of nicotine.</p> <p>https://cot.food.gov.uk/sites/default/files/tox2019-38.pdf</p> <p>Potential toxicological risks from electronic nicotine (and non-nicotine) delivery systems (E(N)NDS – e-cigarettes). Paper 13: User exposure.</p> <p>https://cot.food.gov.uk/sites/default/files/tox2019-39.pdf</p> <p>Potential toxicological risks from electronic nicotine (and non-nicotine) delivery systems (E(N)NDS – e-cigarettes). Follow-up from September 2019 COT meeting: updated risk assessments for nicotine exposure from ENDS.</p> <p>https://cot.food.gov.uk/sites/default/files/tox201972nicotineuserandbystander.pdf</p> <p>Paper for Information: Potential toxicological risks from electronic nicotine (and non-nicotine) delivery systems (E(N)NDS – e-cigarettes). Reviews by UK and International organisations.</p> <p>https://cot.food.gov.uk/sites/default/files/tox202005nsaauthoritativebodies.pdf</p> <p>Paper for Information: Potential toxicological risks from electronic nicotine (and non-nicotine) delivery systems (E(N)NDS – e-cigarettes). Relevant UK regulatory aspects</p> <p>https://cot.food.gov.uk/sites/default/files/tox202006eenndsukregulationsv2.pdf</p>

	<p>Paper for Information: Potential toxicological risks from electronic nicotine (and non-nicotine) delivery systems (E(N)NDS – e-cigarettes). Data from MHRA Yellow Card Scheme</p> <p>https://cot.food.gov.uk/sites/default/files/tox202007enndsycsdata.pdf</p> <p>Potential toxicological risks from electronic nicotine (and non-nicotine) delivery systems (E(N)NDS – e-cigarettes). Second draft statement.</p> <p>https://cot.food.gov.uk/sites/default/files/tox202017endsseconddraftstatement.pdf</p> <p>Potential toxicological risks from electronic nicotine (and non-nicotine) delivery systems (E(N)NDS – e-cigarettes). Updated risk assessments for exposure of users to propylene glycol (PG) and glycerol from inhalation of E(N)NDS aerosols.</p> <p>https://cot.food.gov.uk/sites/default/files/tox202029endspgglycerolriskassessment.pdf</p> <p>'E-cigarette, or vaping, product use – associated lung injury' (EVALI): an overview</p> <p>https://cot.food.gov.uk/sites/default/files/tox202037evali.pdf</p>
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16.5.2 Search engines

Search engine			
Name	Health Services/Technology Assessment Texts (HSTAT)		
URL	https://www.ncbi.nlm.nih.gov/books/NBK16710		
Date searched	15/07/2020		
Search terms	#1	Search ((ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS))	1015
	#2	Search ((Electronic tobacco* or Electronic nicotine* or Electronic cigar* or Electronic cigs or Electronic vapor* or Electronic vapour*))	811
	#3	Search ((Dual tobacco* or dual nicotine* or dual cigar* or dual cigs))	27
	#4	Search Nicotine deliver*	434
	#5	Search ((polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*))	954

	#6	Search Electronic Nicotine Delivery Systems[MeSH Terms]	90
	#7	Search Vaping[MeSH Terms]	90
	#8	Search ((#1 or #2 or #3 or #4 or #5 or #6 or #7))	2419
	#9	Search hstatcollect[filter]	37653
	#10	Search ((#8 and #9))	224
How the results were selected	Only selected documents if the title or abstract were directly relevant to the questions and had not been selected in the main search.		
Results	None additional		

Search engine	
Name	NICE Evidence Search
URL	https://www.evidence.nhs.uk
Date searched	15/07/2020
Search terms	Searched for electronic cigarette OR e-cigs OR ecigs OR vape OR vaping OR "electronic nicotine"
How the results were selected	Limited results to 1 Nov 2019 to 15 July 2020. Looked at public health, guidance and policy, medicines current awareness filters.
Results	<p>MHRA E-cigarette use or vaping: reporting suspected adverse reactions, including lung injury https://www.gov.uk/drug-safety-update/e-cigarette-use-or-vaping-reporting-suspected-adverse-reactions-including-lung-injury</p> <p>ASH Many ways forward Stop smoking services and tobacco control work in English local authorities, 2019 https://ash.org.uk/wp-content/uploads/2020/01/Many-Ways-Forward.pdf</p> <p>PHE COVID-19: advice for smokers and vapers https://www.gov.uk/government/publications/covid-19-advice-for-smokers-and-vapers</p>

16.5.3 Website browsing

Website	
Name	Action on Smoking and Health (ASH)

URL	http://ash.org.uk/home
Date searched	15/07/2020
Search terms (including any specific sections browsed)	Browsed fact sheets, briefings, reports and submissions.
Results	None additional

Website	
Name	Local Government Association
URL	https://www.local.gov.uk
Date searched	15/07/2020
Search terms (including any specific sections browsed)	Browsed the social care, health and integration page. https://www.local.gov.uk/topics/social-care-health-and-integration Browsed the public health page https://www.local.gov.uk/topics/social-care-health-and-integration/public-health
Results	None additional

Website	
Name	National Centre for Smoking Cessation and Training
URL	http://www.ncsct.co.uk
Date searched	15/07/2020
Search terms (including any specific sections browsed)	Browsed research and research resources, training resources, briefings and commissioning resources.
Results	None additional

Website	
Name	NHS Digital
URL	https://digital.nhs.uk
Date searched	15/07/2020
Search terms (including any specific sections browsed)	Searched for electronic cigarettes, e-cigs, ecigs, vape, vaping, tobacco, smoking and cigarettes. Only included annual publications and only included the most recent edition.

sections browsed)	
Results	None additional

Website	
Name	Northern Ireland Assembly
URL	http://www.niassembly.gov.uk/
Date searched	15/07/2020
Search terms (including any specific sections browsed)	Searched publications for electronic cigarettes, e-cigs, ecigs, vape, vaping, smoking
Results	None relevant

Website	
Name	Public Health England
URL	https://www.gov.uk/government/organisations/public-health-england
Date searched	15/07/2020
Search terms (including any specific sections browsed)	Browsed the vaping section https://www.gov.uk/government/collections/e-cigarettes-and-vaping-policy-regulation-and-guidance Only included reports relevant to the particular questions we are doing. Did not include exporting and regulations on consumer products e.g. here.
Results	Vaping in England: evidence update March 2020 https://www.gov.uk/government/publications/vaping-in-england-evidence-update-march-2020 E-cigarettes: use by patients in NHS mental health organisations https://www.gov.uk/government/publications/e-cigarettes-use-by-patients-in-nhs-mental-health-organisations

Website	
Name	Royal College of Paediatrics and Child Health
URL	https://www.rcpch.ac.uk/
Date searched	15/07/2020

Search terms (including any specific sections browsed)	Searched for electronic cigarettes, e-cigs, ecigs, vape, vaping.
Results	Smoking in young people https://stateofchildhealth.rcpch.ac.uk/evidence/health-behaviours/smoking-young-people/

Website	
Name	Royal College of Physicians
URL	https://www.rcplondon.ac.uk
Date searched	15/07/2020
Search terms (including any specific sections browsed)	Searched for electronic cigarettes, e-cigs, ecigs, vape, vaping. Also checked smoking, cigarettes, tobacco and nicotine and reviewed https://www.rcplondon.ac.uk/projects/rcp-policy-public-health
Results	None additional

Website	
Name	Scottish Government
URL	https://www.gov.scot
Date searched	15/07/2020
Search terms (including any specific sections browsed)	Browsed the smoking page https://www.gov.scot/policies/smoking/
Results	None additional

Website	
Name	Smokefree NHS
URL	https://www.nhs.uk/smokefree
Date searched	15/07/2020
Search terms (including any specific sections browsed)	Browsed https://www.nhs.uk/smokefree/help-and-advice/e-cigarettes

sections browsed)	
Results	None additional

Website	
Name	Smoking Toolkit Study
URL	http://www.smokinginengland.info
Date searched	15/07/2020
Search terms (including any specific sections browsed)	Browsed latest stats, reports, key publications and STS documents. Did not include anything from Key Publications section as they were published elsewhere as journal articles and so they should have come up in the database searches.
Results	Smoking Toolkit Study (2020) Trends in electronic cigarette use in England updated 3 July 2020 [PowerPoint slides] http://www.smokinginengland.info/latest-statistics/

Website	
Name	Treat Tobacco
URL	http://www.treatobacco.net/en/index.php
Date searched	15/07/2020
Search terms (including any specific sections browsed)	Browsed http://www.treatobacco.net/en/page_492.php but it had not been updated since 2014. Did not include any journal article as they should have already been retrieved.
Results	None

Website	
Name	UK Centre for Tobacco and Alcohol Studies
URL	http://ukctas.net/index.html
Date searched	15/07/2020
Search terms (including any specific sections browsed)	Browsed all sections of the website, including the Policy, Research and Reports sections.

Results	None additional
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Website	
Name	University of Bath Tobacco Control Research Group
URL	https://researchportal.bath.ac.uk/en/organisations/uk-centre-for-tobacco-control-studies
Date searched	15/07/2020
Search terms (including any specific sections browsed)	Browsed research outputs from 2020.
Results	None

Website	
Name	University of Stirling Centre for Tobacco Control Research
URL	https://www.stir.ac.uk/about/faculties-and-services/health-sciences-sport/research/research-groups/centre-for-tobacco-control-research/publications
Date searched	15/07/2020
Search terms (including any specific sections browsed)	No action – browsed publication list but the most recent was from 2017.
Results	None additional

Website	
Name	Welsh Government
URL	https://gov.wales/?lang=en
Date searched	15/07/2020
Search terms (including any specific sections browsed)	Browsed the health and social care section for reports https://gov.wales/smoking
Results	None additional

Website	
Name	World Health Organization Europe
URL	http://www.euro.who.int/en/health-topics/disease-prevention/tobacco
Date searched	15/07/2020
Search terms (including any specific sections browsed)	<p>Browsed the list of publications http://www.euro.who.int/en/health-topics/disease-prevention/tobacco/publications/a-z-list-of-all-publications2</p> <p>Searched the overall publications list for smoking, cigarettes, tobacco and nicotine http://www.euro.who.int/en/publications/search/a-z-list-of-all-publications</p>
Results	<p>Findings from the 2017/18 Health Behaviour in School-aged Children (HBSC) survey in Europe and Canada. Volume 1</p> <p>https://www.euro.who.int/en/health-topics/disease-prevention/tobacco/news/news/2020/6/smoking-still-a-core-challenge-for-child-and-adolescent-health-reveals-who-report</p> <p>ELECTRONIC NICOTINE AND NON-NICOTINE DELIVERY SYSTEMS A BRIEF https://www.euro.who.int/__data/assets/pdf_file/0009/443673/Electronic-nicotine-and-non-nicotine-delivery-systems-brief-eng.pdf</p> <p>COUNTRY CASE STUDIES ON ELECTRONIC NICOTINE AND NON-NICOTINE DELIVERY SYSTEMS REGULATION, 2019 BRAZIL, CANADA, THE REPUBLIC OF KOREA AND THE UNITED KINGDOM https://www.euro.who.int/__data/assets/pdf_file/0003/443676/Country-case-studies-on-electronic-nicotine-and-non-nicotine-delivery-systems-regulation-2019-eng.pdf</p>

17 Search for RQ5.1 (Effectiveness)

<p>Topic: Tobacco Portfolio</p> <p>Question details:</p> <p>5.1a. Is opt-out provision of stop smoking support for pregnant women who smoke effective and cost effective in increasing uptake of the support and increasing smoking cessation?</p> <p>5.1b. Is opt-out provision of stop smoking support acceptable to women who are pregnant? What are the barriers and facilitators to taking up a referral once it has been made?</p>
--

17.1 Table of results

Database name	Date searched	Database Platform	Database segment or version
British Nursing Index (BNI)	09/04/2019	HDAS	1992 to present
Cochrane Central Register of Controlled Trials (CENTRAL)	09/04/2019	Wiley	Cochrane Central Register of Controlled Trials Issue 4 of 12, April 2019
Cochrane Database of Systematic Reviews (CDSR)	09/04/2019	Wiley	Cochrane Database of Systematic Reviews Issue 4 of 12, April 2019
Cumulative Index to Nursing and Allied Literature (CINAHL)	09/04/2019	HDAS	1981 to present
Embase	09/04/2019	Ovid	Embase 1974 to 2019 April 08
Health Management Information Consortium (HMIC)	09/04/2019	Ovid	HMIC Health Management Information Consortium 1979 to January 2019
MEDLINE	09/04/2019	Ovid	Ovid MEDLINE(R) 1946 to April 08, 2019

MEDLINE-in-Process (including Epub Ahead-of-Print)	09/04/2019	Ovid	Ovid MEDLINE(R) Epub Ahead of Print April 08, 2019, Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations 1946 to April 08, 2019
PsycINFO	09/04/2019	Ovid	PsycINFO 1806 to April Week 1 2019
Social Policy and Practice (SPP)	09/04/2019	Ovid	Social Policy and Practice 201901
Forward citation searching	10/04/2019	Clarivate	Web of Science Core Collection (1990-present)

Search source	No. of records retrieved	Results	Total results	De-duplicated
British Nursing Index (BNI)	50	1353	1490	1096
Cochrane Central Register of Controlled Trials (CENTRAL)	180			
Cochrane Database of Systematic Reviews (CDSR)	13			
Cumulative Index to Nursing and Allied Literature (CINAHL)	239			
Embase	432			
Health Management Information Consortium (HMIC)	11			
MEDLINE	350			
MEDLINE-in-Process (including Epub Ahead-of-Print)	12			
PsycINFO	63			
Social Policy and Practice (SPP)	3			
Surveillance	1	137		
Scoping searches	5			
Web of Science Forward citation searching	131			

17.2 Database strategy outline

(smoking OR tobacco OR cigarettes or shisha) AND
 (pregnancy OR maternity services OR obstetrics OR midwifery) AND
 (referral OR opt in OR opt out) AND
 1998-Current AND Limits

17.3 Database strategies

17.3.1 Database name: British Nursing Index (BNI)

#	Database	Search term	Results
1	BNI	TOBACCO/	1655
2	BNI	CIGARETTES/	546
3	BNI	CIGARS/	16
4	BNI	"WATER PIPES"/	5
5	BNI	SMOKING/	9963
6	BNI	"SMOKING CESSATION"/	1634
7	BNI	NICOTINE/	513
8	BNI	(smoking* OR smoker* OR antismok* OR anti smok* OR anti-smok* OR exsmoker* OR ex-smoker* OR "ex smoker*").ti,ab	12179
9	BNI	(tobacco* OR nicotin* OR cigar* OR cigs).ti,ab	6607
10	BNI	(bidi OR bidis OR beedi OR beedis OR kretek* OR hand roll* OR handroll* OR rollies).ti,ab	66
11	BNI	(waterpipe* OR water pipe* OR dokha OR dokhas OR hookah OR hookahs OR hooka OR hookas OR shisha OR shishas OR sheesha OR sheeshas).ti,ab	109
12	BNI	(1 OR 2 OR 3 OR 4 OR 5 OR 6 OR 7 OR 8 OR 9 OR 10 OR 11)	18094
13	BNI	PREGNANCY/ OR "TEENAGE PREGNANCY"/	24983
14	BNI	"PREGNANCY COMPLICATIONS"/	4526

15	BNI	"PRENATAL CARE"/	3729
16	BNI	"PERINATAL CARE"/	621
17	BNI	MIDWIFERY/ OR "MIDWIFERY EDUCATION"/	14459
18	BNI	"PRENATAL EDUCATION"/	1057
19	BNI	OBSTETRICS/	4914
20	BNI	(pregnan*).ti,ab	24089
21	BNI	(maternity* OR maternal* OR obstetric* OR midwif* OR midwiv*).ti,ab	38645
22	BNI	(ante natal* OR ante-natal* OR antenatal* OR prenatal* OR peri natal* OR peri-natal* OR perinatal*).ti,ab	12240
23	BNI	13 OR 14 OR 15 OR 16 OR 17 OR 18 OR 19 OR 20 OR 21 OR 22	67544
24	BNI	(12 AND 23)	2226
25	BNI	REFERRALS/ OR "MEDICAL REFERRALS"/	1217
26	BNI	"PATIENT COMPLIANCE"/	4303
27	BNI	("opt in" OR "opt out" OR "opting in" OR "opting out" OR "opted in" OR "opted out" OR "opts in" OR "opts out" OR default*).ti,ab	862
28	BNI	((referral* OR pathway* OR gatekeep*) ADJ3 (optional* OR compulsor* OR mandatory* OR oblige* OR obligation* OR obliging* OR automatic* OR enforc* OR impose* OR imposing OR coerc* OR voluntary* OR involuntary* OR volunteer* OR discretion* OR compel* OR uncompel* OR routine*).ti,ab	94
29	BNI	(25 OR 26 OR 27 OR 28)	6414

30	BNI	(24 AND 29)	16
31	BNI	(24 and 29) [DT 1998-2019]	16
32	BNI	((treatment* OR service* OR intervention* OR pharmacotherap* OR support* OR smoking* OR SSS OR counsel* OR therapy* OR therapies* OR system* OR scheme* OR program* OR initiative*) ADJ3 (optional* OR compulsor* OR mandatory* OR oblige* OR obligation* OR obliging* OR automatic* OR enforc* OR impose* OR imposing OR coerc* OR voluntary* OR involuntary* OR volunteer* OR discretion* OR compel* OR uncompel* OR routine*)).ti,ab	3896
33	BNI	24 and 32	25
34	BNI	(24 and 32) [DT 1998-2019]	23
35	BNI	((patient* OR smoker* OR woman* OR women* OR client*) ADJ3 (choice* OR acceptance* OR unaccept* OR refus* OR comply* OR compliance* OR complie* OR noncomply* OR noncompliance* OR noncomplie* OR cooperat* OR uncooperat*)).ti,ab	4380
36	BNI	24 and 35	11
37	BNI	(24 and 35) [DT 1998-2019]	11

Downloaded Lines 21, 34 and 37 separately = 50 hits in total

17.3.2 Database name: Cochrane Central Register of Controlled Trials (CENTRAL)

- #1 MeSH descriptor: [Tobacco Use] explode all trees 89
- #2 MeSH descriptor: [Tobacco] this term only 155
- #3 MeSH descriptor: [Tobacco Use Disorder] this term only 1472
- #4 MeSH descriptor: [Tobacco Use Cessation] this term only 93
- #5 MeSH descriptor: [Tobacco Use Cessation Devices] this term only 425
- #6 MeSH descriptor: [Smoking] this term only 5586
- #7 MeSH descriptor: [Pipe Smoking] explode all trees 1
- #8 MeSH descriptor: [Smoking Reduction] this term only 7
- #9 MeSH descriptor: [Smoking Cessation] this term only 3708
- #10 MeSH descriptor: [Smoking Cessation Agents] this term only 2
- #11 MeSH descriptor: [Nicotine] this term only 2323
- #12 MeSH descriptor: [Smokers] this term only 84
- #13 MeSH descriptor: [Ex-Smokers] this term only 0
- #14 MeSH descriptor: [Smoking Devices] explode all trees 341
- #15 (smoking* or smoker* or antismok* or anti smok* or anti-smok* or exsmoker* or ex-smoker* or "ex smoker*"):ti,ab 29019
- #16 (tobacco* or nicotin* or cigar* or cigs):ti,ab 14808
- #17 (bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies):ti,ab 144
- #18 (waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas):ti,ab 210
- #19 {or #1-#18} 34379
- #20 MeSH descriptor: [Pregnancy] explode all trees 7229
- #21 MeSH descriptor: [Pregnancy Complications] explode all trees 10285
- #22 MeSH descriptor: [Pregnant Women] this term only 200
- #23 MeSH descriptor: [Maternal Health Services] explode all trees 1972
- #24 MeSH descriptor: [Midwifery] this term only 308
- #25 MeSH descriptor: [Obstetrics] this term only 165

- #26 MeSH descriptor: [Obstetric Nursing] this term only 45
- #27 MeSH descriptor: [Nurse Midwives] this term only 97
- #28 pregnan*:ti,ab 45785
- #29 (ante natal* or ante-natal* or antenatal* or pre natal* or pre-natal* or prenatal* or peri natal* or peri-natal* or perinatal*):ti,ab 10641
- #30 (maternity* or maternal* or obstetric* or midwif* or midwiv*):ti,ab 24023
- #31 {or #20-#30} 64867
- #32 #19 and #31 2810
- #33 MeSH descriptor: [Referral and Consultation] this term only 1730
- #34 MeSH descriptor: [Choice Behavior] this term only 1278
- #35 MeSH descriptor: [Gatekeeping] this term only 6
- #36 MeSH descriptor: [Patient Acceptance of Health Care] this term only 2667
- #37 MeSH descriptor: [Patient Compliance] this term only 9319
- #38 MeSH descriptor: [Treatment Refusal] this term only 257
- #39 ("opt in" or "opt out" or "opting in" or "opting out" or "opted in" or "opted out" or "opts in" or "opts out" or default*):ti,ab 1496
- #40 ((referral* or pathway* or gatekeep*) near/3 (optional* or compulsor* or mandatory* or oblige* or obligation* or obliging* or automatic* or enforc* or impose* or imposing or coerc* or voluntary* or involuntary* or volunteer* or discretion* or compel* or uncompel* or routine*)):ti,ab 127
- #41 ((treatment* or service* or intervention* or pharmacotherap* or support* or "stop smoking" or SSS or counsel* or therapy* or therapies* or system* or scheme* or program* or initiative*) near/3 (optional* or compulsor* or mandatory* or oblige* or obligation* or obliging* or automatic* or enforc* or impose* or imposing or coerc* or voluntary* or involuntary* or volunteer* or discretion* or compel* or uncompel* or routine*)):ti,ab 11742
- #42 ((patient* or smoker* or woman* or women* or client*) near/3 (choice* or acceptance* or* unaccept* or refus* or comply* or compliance* or complie* or noncomply* or noncompliance* or noncomple* or non-comply* or non-compliance* or non-complie* or non comply* or non compliance* or non complie* or cooperat* or uncooperat*)):ti,ab 124399
- #43 {or #33-#42} 148319

#44 #32 and #43 752

#45 "clinicaltrials.gov":so or "who.int":so or "clinicaltrialsregister.eu":so
252321

#46 #44 not #45 297

#47 "conference":pt 149689

#48 #46 not #47 235

#49 #46 not #47 with Publication Year from 1998 to 2019, in Trials
180

17.3.3 Database name: Cochrane Database of Systematic Reviews (CDSR)

ID	Search	Hits
#1	MeSH descriptor: [Tobacco Use] explode all trees	89
#2	MeSH descriptor: [Tobacco] this term only	155
#3	MeSH descriptor: [Tobacco Use Disorder] this term only	1472
#4	MeSH descriptor: [Tobacco Use Cessation] this term only	93
#5	MeSH descriptor: [Tobacco Use Cessation Devices] this term only	425
#6	MeSH descriptor: [Smoking] this term only	5586
#7	MeSH descriptor: [Pipe Smoking] explode all trees	1
#8	MeSH descriptor: [Smoking Reduction] this term only	7
#9	MeSH descriptor: [Smoking Cessation] this term only	3708
#10	MeSH descriptor: [Smoking Cessation Agents] this term only	2
#11	MeSH descriptor: [Nicotine] this term only	2323
#12	MeSH descriptor: [Smokers] this term only	84
#13	MeSH descriptor: [Ex-Smokers] this term only	0
#14	MeSH descriptor: [Smoking Devices] explode all trees	341
#15	(smoking* or smoker* or antismok* or anti smok* or anti-smok* or exsmoker* or ex-smoker* or "ex smoker*"):ti,ab	29019
#16	(tobacco* or nicotin* or cigar* or cigs):ti,ab	14808
#17	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies):ti,ab	144
#18	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas):ti,ab	210
#19	{or #1-#18}	34379
#20	MeSH descriptor: [Pregnancy] explode all trees	7229
#21	MeSH descriptor: [Pregnancy Complications] explode all trees	10285
#22	MeSH descriptor: [Pregnant Women] this term only	200
#23	MeSH descriptor: [Maternal Health Services] explode all trees	1972
#24	MeSH descriptor: [Midwifery] this term only	308
#25	MeSH descriptor: [Obstetrics] this term only	165
#26	MeSH descriptor: [Obstetric Nursing] this term only	45
#27	MeSH descriptor: [Nurse Midwives] this term only	97
#28	pregnan*:ti,ab	45785
#29	(ante natal* or ante-natal* or antenatal* or pre natal* or pre-natal* or prenatal* or peri natal* or peri-natal* or perinatal*):ti,ab	10641
#30	(maternity* or maternal* or obstetric* or midwif* or midwiv*):ti,ab	24023
#31	{or #20-#30}	64867
#32	#19 and #31	2810

- #33 MeSH descriptor: [Referral and Consultation] this term only 1730
- #34 MeSH descriptor: [Choice Behavior] this term only 1278
- #35 MeSH descriptor: [Gatekeeping] this term only 6
- #36 MeSH descriptor: [Patient Acceptance of Health Care] this term only 2667
- #37 MeSH descriptor: [Patient Compliance] this term only 9319
- #38 MeSH descriptor: [Treatment Refusal] this term only 257
- #39 ("opt in" or "opt out" or "opting in" or "opting out" or "opted in" or "opted out" or "opts in" or "opts out" or default*):ti,ab 1496
- #40 ((referral* or pathway* or gatekeep*) near/3 (optional* or compulsor* or mandatory* or oblige* or obligation* or obliging* or automatic* or enforc* or impose* or imposing or coerc* or voluntary* or involuntary* or volunteer* or discretion* or compel* or uncompel* or routine*)):ti,ab 127
- #41 ((treatment* or service* or intervention* or pharmacotherap* or support* or "stop smoking" or SSS or counsel* or therapy* or therapies* or system* or scheme* or program* or initiative*) near/3 (optional* or compulsor* or mandatory* or oblige* or obligation* or obliging* or automatic* or enforc* or impose* or imposing or coerc* or voluntary* or involuntary* or volunteer* or discretion* or compel* or uncompel* or routine*)):ti,ab 11742
- #42 ((patient* or smoker* or woman* or women* or client*) near/3 (choice* or acceptance* or* unaccept* or refus* or comply* or compliance* or complie* or noncomply* or noncompliance* or noncomple* or non-comply* or non-compliance* or non-complie* or non comply* or non compliance* or non complie* or cooperat* or uncooperat*)):ti,ab 124399
- #43 {or #33-#42} 148319
- #44 #32 and #43 752
- #45 #32 and #43 with Cochrane Library publication date Between Jan 1998 and May 2019, in Cochrane Reviews, Cochrane Protocols 13

17.3.4 Database name: Cumulative Index to Nursing and Allied Literature (CINAHL)

#	Database	Search term	Results
1	CINAHL	TOBACCO/	6532
2	CINAHL	TOBACCO PRODUCTS/	1987
3	CINAHL	"TOBACCO USE CESSATION PRODUCTS"/	363
4	CINAHL	"SMOKING"/	51579
5	CINAHL	SMOKING CESSATION/	17947
6	CINAHL	SMOKING CESSATION PROGRAMS/	2043
7	CINAHL	NICOTINE/	3832
8	CINAHL	(smoking* OR smoker* OR antismok* OR anti smok* OR anti-smok* OR exsmoker* OR ex-smoker* OR "ex smoker*").ti,ab	70060
9	CINAHL	(tobacco* OR nicotin* OR cigar* OR cigs).ti,ab	43026
10	CINAHL	(bidi OR bidis OR beedi OR beedis OR kretek* OR hand roll* OR handroll* OR rollies).ti,ab	323
11	CINAHL	(waterpipe* OR water pipe* OR dokha OR dokhas OR hookah OR hookahs OR hooka OR hookas OR shisha OR shishas OR sheesha OR sheeshas).ti,ab	1197
12	CINAHL	(1 OR 2 OR 3 OR 4 OR 5 OR 6 OR 7 OR 8 OR 9 OR 10 OR 11)	108719
13	CINAHL	PREGNANCY/ OR "PREGNANCY, MULTIPLE"/ OR "PREGNANCY TRIMESTERS"/ OR "PREGNANCY, UNPLANNED"/ OR "PREGNANCY, UNWANTED"/	170215

14	CINAHL	exp "PREGNANCY COMPLICATIONS"/	76981
15	CINAHL	EXPECTANT MOTHERS/	5751
16	CINAHL	MATERNAL HEALTH SERVICES/	7829
17	CINAHL	PRENATAL CARE/	13929
18	CINAHL	PERINATAL CARE/	3457
19	CINAHL	exp MIDWIFERY/	17966
20	CINAHL	exp MIDWIFERY SERVICE/	1612
21	CINAHL	exp MIDWIVES/	12393
22	CINAHL	MIDWIFE ATTITUDES/	1573
23	CINAHL	OBSTETRIC CARE/	6116
24	CINAHL	OBSTETRICS/	4533
25	CINAHL	OBSTETRIC NURSING/ OR OBSTETRIC PATIENTS/ OR OBSTETRIC SERVICE/	4718
26	CINAHL	(pregnan*).ti,ab	107234
27	CINAHL	(ante natal* OR ante-natal* OR antenatal* OR pre natal* OR pre-natal* OR prenatal* OR peri natal* OR peri-natal* OR perinatal*).ti,ab	48022
28	CINAHL	(maternity* OR maternal* OR obstetric* OR midwif* OR midwiv*).ti,ab	107993
29	CINAHL	(13 OR 14 OR 15 OR 16 OR 17 OR 18 OR 19 OR 20 OR 21 OR 22 OR 23 OR 24 OR 25 OR 26 OR 27 OR 28)	285374
30	CINAHL	12 and 29	9275

31	CINAHL	"SMOKING CESSATION IN PREGNANCY"/	444
32	CINAHL	(30 OR 31)	9275
33	CINAHL	"REFERRAL AND CONSULTATION"/	30746
34	CINAHL	"BEHAVIORAL CHANGES"/	9226
35	CINAHL	"GATEKEEPING"/	464
36	CINAHL	"PATIENT COMPLIANCE"/	26772
37	CINAHL	"TREATMENT REFUSAL"/	4624
38	CINAHL	(33 OR 34 OR 35 OR 36 OR 37)	70350
39	CINAHL	(32 AND 38)	159
40	CINAHL	(32 and 38) [DT 1998-2019] [Languages eng]	150
41	CINAHL	("opt in" OR "opt out" OR "opting in" OR "opting out" OR "opted in" OR "opted out" OR "opts in" OR "opts out" OR default*).ti,ab	6407
42	CINAHL	32 and 41	20
43	CINAHL	(32 and 41) [DT 1998-2019] [Languages eng]	19
44	CINAHL	((referral* OR pathway* OR gatekeep*) ADJ3 (optional* OR compulsor* OR mandatory* OR oblige* OR obligation* OR obliging* OR automatic* OR enforc* OR impose* OR imposing OR coerc* OR voluntary* OR involuntary* OR volunteer* OR discretion* OR compel* OR uncompel* OR routine*).ti,ab	418
45	CINAHL	32 and 44	4
46	CINAHL	(32 and 44) [DT 1998-2019] [Languages eng]	4

47	CINAHL	((treatment* OR service* OR intervention* OR pharmacotherap* OR support* OR "stop smoking" OR SSS OR counsel* OR therapy* OR therapies* OR system* OR scheme* OR program* OR initiative*) ADJ3 (optional* OR compulsor* OR mandatory* OR oblige* OR obligation* OR obliging* OR automatic* OR enforc* OR impose* OR imposing OR coerc* OR voluntary* OR involuntary* OR volunteer* OR discretion* OR compel* OR uncompel* OR routine*)).ti,ab	18353
48	CINAHL	32 and 47	44
49	CINAHL	(32 and 47) [DT 1998-2019] [Languages eng]	43
50	CINAHL	((patient* OR smoker* OR woman* OR women* OR client*) ADJ3 (choice* OR acceptance* or* unaccept* OR refus* OR comply* OR compliance* OR complie* OR noncomply* OR noncompliance* OR noncomple* OR non-comply* OR non-compliance* OR non-complie* OR non comply* OR non compliance* OR non complie* OR cooperat* OR uncooperat*)).ti,ab	16143
51	CINAHL	32 and 50	25
52	CINAHL	(32 and 50) [DT 1998-2019] [Languages eng]	23

Downloaded lines 40, 43, 46, 49 and 52 separately = 239 hits in total.

17.3.5 Database name: EmbaseDatabase(s): **Embase** 1974 to 2019 April 08

Search Strategy:

#	Searches	Results
1	"tobacco use"/	8204
2	tobacco consumption/	2069
3	tobacco/	42710
4	tobacco dependence/	19021
5	"smoking and smoking related phenomena"/	183
6	smoking/	281265
7	cigar smoking/	104
8	cigarette smoking/	52088
9	bidi smoking/	122
10	exp pipe smoking/	193
11	parental smoking/	1131
12	adolescent smoking/	1687
13	smoking reduction/	103
14	smoking cessation/	54415
15	smoking cessation program/	3061
16	nicotine/	42525
17	exp smoking device/	5604
18	(smoking* or smoker* or antismok* or anti smok* or anti-smok*).ti,ab.	337964
19	(tobacco* or nicotin* or cigar* or cigs).ti,ab.	239282
20	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).ti,ab.	817

21	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).ti,ab.	2377
22	or/1-21	573320
23	exp pregnancy/	625260
24	exp pregnancy complication/	113305
25	pregnant woman/	68376
26	maternal health service/	1110
27	obstetric procedure/	2466
28	exp prenatal care/	140438
29	exp perinatal care/	54132
30	midwife/	23760
31	obstetrics/	33302
32	obstetrical nursing/	2407
33	nurse midwifery/	76
34	pregnan*.ti,ab.	584560
35	(ante natal* or ante-natal* or antenatal* or pre natal* or pre-natal* or prenatal* or peri natal* or peri-natal* or perinatal*).ti,ab.	232877
36	(maternity* or maternal* or obstetric* or midwif* or midwiv*).ti,ab.	422461
37	or/23-36	1173948
38	22 and 37	36667
39	maternal smoking/	6031
40	38 or 39	38414
41	patient referral/	99547
42	patient decision making/	9287

43	patient attitude/	63148
44	Patient compliance/	125135
45	Treatment refusal/	17334
46	("opt in" or "opt out" or "opting in" or "opting out" or "opted in" or "opted out" or "opts in" or "opts out" or default*).ti,ab.	24746
47	((referral* or pathway* or gatekeep*) adj3 (optional* or compulsor* or mandatory* or oblige* or obligation* or obliging* or automatic* or enforc* or impose* or imposing or coerc* or voluntary* or involuntary* or volunteer* or discretion* or compel* or uncompl* or routine*)).ti,ab.	1752
48	((treatment* or service* or intervention* or pharmacotherap* or support* or "stop smoking" or SSS or counsel* or therapy* or therapies* or system* or scheme* or program* or initiative*) adj3 (optional* or compulsor* or mandatory* or oblige* or obligation* or obliging* or automatic* or enforc* or impose* or imposing or coerc* or voluntary* or involuntary* or volunteer* or discretion* or compel* or uncompl* or routine*)).ti,ab.	71995
49	((patient* or smoker* or woman* or women* or client*) adj3 (choice* or acceptance* or* unaccept* or refus* or comply* or compliance* or complie* or noncomply* or noncompliance* or noncomple* or non-comply* or non-compliance* or non-complie* or non comply* or non compliance* or non complie* or cooperat* or uncooperat*)).ti,ab.	76526
50	or/41-49	451601
51	40 and 50	801
52	nonhuman/ not (human/ and nonhuman/)	4342772
53	51 not 52	801
54	(letter or editorial).pt.	1650961
55	53 not 54	772
56	(conference abstract or conference paper or conference proceeding or "conference review").pt.	4123081
57	55 not 56	628
58	limit 57 to medline	136

59 57 not 58	492
60 limit 59 to english language	471
61 limit 60 to yr="1998 -Current"	432

17.3.6 Database name: Health Management Information Consortium (HMIC)

Database(s): **HMIC Health Management Information Consortium** 1979 to January 2019

Search Strategy:

#	Searches	Results
1	(smoking* or smoker* or antismok* or anti smok* or anti-smok* or exsmoker* or ex-smoker* or "ex smoker*").ti,ab.	7531
2	(smoking* or smoker* or antismok* or anti smok* or anti-smok* or exsmoker* or ex-smoker* or "ex smoker*").hw.	5418
3	(tobacco* or nicotin* or cigar* or cigs).ti,ab.	3691
4	(tobacco* or nicotin* or cigar* or cigs*).hw.	1679
5	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).ti,ab.	12
6	(bidi or bidis* or beedi or beedis* or kretek* or hand roll* or handroll* or rollies).hw.	1
7	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).ti,ab.	13
8	(waterpipe* or water pipe* or dokha or dokhas* or hookah or hookahs* or hooka or hookas* or shisha or shishas* or sheesha or sheeshas*).hw.	0
9	or/1-8	9465
10	pregnan*.ti,ab.	4454
11	pregnan*.hw.	3394
12	(ante natal* or ante-natal* or antenatal* or pre natal* or pre-natal* or prenatal* or peri natal* or peri-natal* or perinatal*).ti,ab.	2726
13	(ante natal* or ante-natal* or antenatal* or pre natal* or pre-natal* or prenatal* or peri natal* or peri-natal* or perinatal*).hw.	1343
14	(maternity* or maternal* or obstetric* or midwif* or midwiv*).ti,ab.	9174
15	(maternity* or maternal* or obstetric* or midwif* or midwiv*).hw.	6160
16	or/10-15	14606

17	9 and 16	806
18	("opt in" or "opt out" or "opting in" or "opting out" or "opted in" or "opted out" or "opts in" or "opts out" or default*).ti,ab.	482
19	("opt in" or "opt out" or "opting in" or "opting out" or "opted in" or "opted out" or "opts in" or "opts out" or default*).hw.	12
20	((referral* or pathway* or gatekeep*) adj3 (optional* or compulsor* or mandatory* or oblige* or obligation* or automatic* or enforc* or impose* or imposing or coerc* or voluntary* or involuntary* or volunteer* or discretion* or compel* or uncompl* or routine*)).ti,ab.	65
21	(referral* or pathway* or gatekeep*).hw.	3576
22	((treatment* or service* or intervention* or pharmacotherap* or support* or "stop smoking" or SSS or counsel* or therapy* or therapies* or system* or scheme* or program* or initiative*) adj3 (optional* or compulsor* or mandatory* or oblige* or obligation* or obliging* or automatic* or enforc* or impose* or imposing or coerc* or voluntary* or involuntary* or volunteer* or discretion* or compel* or uncompl* or routine*)).ti,ab.	2455
23	((treatment* or service* or intervention* or pharmacotherap* or support* or "stop smoking" or SSS or counsel* or therapy* or therapies* or system* or scheme* or program* or initiative**) and (optional* or compulsor* or mandatory* or oblige* or obligation* or obliging* or automatic* or enforc* or impose* or imposing or coerc* or voluntary* or involuntary* or volunteer* or discretion* or compel* or uncompl* or routine*)).hw.	2263
24	((patient* or smoker* or woman* or women* or client*) adj3 (choice* or acceptance* or unaccept* or refus* or comply* or compliance* or complie* or noncomply* or noncompliance* or noncomple* or non-comply* or non-compliance* or non-complie* or non comply* or non compliance* or non complie* or cooperat* or uncooperat*)).ti,ab.	1958
25	((patient* or smoker* or woman* or women* or client*) and (choice* or acceptance* or unaccept* or refus* or comply* or compliance* or complie* or noncomply* or noncompliance* or noncomple* or non-comply* or non-compliance* or non-complie* or non comply* or non compliance* or non complie* or cooperat* or uncooperat*)).hw.	3320
26	or/18-25	12570
27	17 and 26	11
28	limit 28 to yr="1998 -Current"	11

17.3.7 Database name: MEDLINEDatabase(s): **Ovid MEDLINE(R)** 1946 to April 08, 2019

Search Strategy:

#	Searches	Results
1	exp "tobacco use"/	2431
2	tobacco/	29431
3	"tobacco use disorder"/	10617
4	"tobacco use cessation"/	1064
5	"tobacco use cessation devices"/	1556
6	smoking/	135367
7	exp Pipe smoking/	87
8	smoking reduction/	23
9	"smoking cessation"/	26597
10	Smoking cessation agents/	32
11	nicotine/	24526
12	Smokers/	721
13	Ex-smokers/	12
14	exp Smoking Devices/	8349
15	(smoking* or smoker* or antismok* or anti smok* or anti-smok* or exsmoker* or ex-smoker* or "ex smoker*").ti,ab.	207173
16	(tobacco* or nicotin* or cigar* or cigs).ti,ab.	182766
17	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).ti,ab.	483
18	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).ti,ab.	1482
19	or/1-18	357576

20 exp Pregnancy/	858264
21 exp Pregnancy complications/	407621
22 Pregnant Women/	7367
23 exp Maternal Health Services/	45672
24 Midwifery/	18494
25 obstetrics/	21712
26 obstetric nursing/	2951
27 nurse midwives/	6950
28 pregnan*.ti,ab.	429285
29 (ante natal* or ante-natal* or antenatal* or pre natal* or pre-natal* or prenatal* or peri natal* or peri-natal* or perinatal*).ti,ab.	163236
30 (maternity* or maternal* or obstetric* or midwif* or midwiv*).ti,ab.	301161
31 or/20-30	1094341
32 19 and 31	24286
33 "Referral and Consultation"/	62688
34 Choice Behavior/	30637
35 Gatekeeping/	645
36 Patient Acceptance of Health Care/	41852
37 Patient compliance/	55402
38 Treatment refusal/	11543
39 ("opt in" or "opt out" or "opting in" or "opting out" or "opted in" or "opted out" or "opts in" or "opts out" or default*).ti,ab.	13987
40 ((referral* or pathway* or gatekeep*) adj3 (optional* or compulsor* or mandatory* or oblige* or obligation* or obliging* or automatic* or enforc* or impose* or imposing or	955

coerc* or voluntary* or involuntary* or volunteer* or discretion* or compel* or uncompe* or routine*)),ti,ab.	
((treatment* or service* or intervention* or pharmacotherap* or support* or "stop smoking" or SSS or counsel* or therapy* or therapies* or system* or scheme* or program* or initiative*) adj3 (optional* or compulsor* or mandatory* or oblige* or obligation* or obliging* or automatic* or enforc* or impose* or imposing or coerc* or voluntary* or involuntary* or volunteer* or discretion* or compel* or uncompe* or routine*)),ti,ab.	45412
((patient* or smoker* or woman* or women* or client*) adj3 (choice* or acceptance* or unaccept* or refus* or comply* or compliance* or complie* or noncomply* or noncompliance* or noncomple* or non-comply* or non-compliance* or non-complie* or non comply* or non compliance* or non complie* or cooperat* or uncooperat*)),ti,ab.	42396
43 or/33-42	286090
44 32 and 43	492
45 Animals/ not (Animals/ and Humans/)	4535477
46 44 not 45	479
47 limit 46 to (letter or historical article or comment or editorial or news or case reports)	14
48 46 not 47	465
49 limit 48 to english language	441
50 limit 49 to yr="1998 -Current"	350

17.3.8 Database name: MEDLINE-in-Process (including Epub Ahead-of-Print)

Database(s): **Ovid MEDLINE(R) Epub Ahead of Print** April 08, 2019, **Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations** 1946 to April 08, 2019

Search Strategy:

#	Searches	Results
1	(smoking* or smoker* or antismok* or anti smok* or anti-smok* or exsmoker* or ex-smoker* or "ex smoker*").ti,ab.	25195
2	(tobacco* or nicotin* or cigar* or cigs).ti,ab.	22417
3	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).ti,ab.	94
4	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).ti,ab.	487
5	or/1-4	39571
6	pregnan*.ti,ab.	42169
7	(ante natal* or ante-natal* or antenatal* or pre natal* or pre-natal* or prenatal* or peri natal* or peri-natal* or perinatal*).ti,ab.	17536
8	(maternity* or maternal* or obstetric* or midwif* or midwiv*).ti,ab.	36324
9	or/6-8	71522
10	5 and 9	2037
11	("opt in" or "opt out" or "opting in" or "opting out" or "opted in" or "opted out" or "opts in" or "opts out" or default*).ti,ab.	3285
12	((referral* or pathway* or gatekeep*) adj3 (optional* or compulsor* or mandatory* or oblige* or obligation* or automatic* or enforc* or impose* or imposing or coerc* or voluntary* or involuntary* or volunteer* or discretion* or compel* or uncompel* or routine*)).ti,ab.	144
13	((treatment* or service* or intervention* or pharmacotherap* or support* or "stop smoking" or SSS or counsel* or therapy* or therapies* or system* or scheme* or program* or initiative*) adj3 (optional* or compulsor* or mandatory* or oblige* or obligation* or obliging* or automatic* or enforc* or impose* or imposing or coerc* or voluntary* or involuntary* or volunteer* or discretion* or compel* or uncompel* or routine*)).ti,ab.	7032

14	((patient* or smoker* or woman* or women* or client*) adj3 (choice* or acceptance* or unaccept* or refus* or comply* or compliance* or complie* or noncomply* or noncompliance* or noncomplie* or non-comply* or non-compliance* or non-complie* or non comply* or non compliance* or non complie* or cooperat* or uncooperat*)) .ti,ab.	5520
15	or/11-14	15885
16	10 and 15	16
17	limit 16 to english language	16
18	limit 17 to yr="1998 -Current"	12

17.3.9 Database name: PsycINFODatabase(s): **PsycINFO** 1806 to April Week 1 2019

Search Strategy:

#	Searches	Results
1	tobacco smoking/	29558
2	smoking cessation/	12393
3	nicotine/	10592
4	(smoking* or smoker* or antismok* or anti smok* or anti-smok* or exsmoker* or ex-smoker* or "ex smoker*").ti,ab.	48408
5	(tobacco* or nicotin* or cigar* or cigs).ti,ab.	44978
6	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).ti,ab.	87
7	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).ti,ab.	573
8	or/1-7	68331
9	exp pregnancy/	23663
10	midwifery/	1250
11	obstetrics/	1128
12	prenatal care/	1718
13	perinatal period/	2510
14	pregnan*.ti,ab.	43467
15	(ante natal* or ante-natal* or antenatal* or pre natal* or pre-natal* or prenatal* or peri natal* or peri-natal* or perinatal*).ti,ab.	28881
16	(maternity* or maternal* or obstetric* or midwif* or midwiv*).ti,ab.	60618
17	or/9-16	106050
18	8 and 17	4644

19 professional referral/	3350
20 client transfer/	239
21 choice behavior/	17868
22 exp Help Seeking Behavior/	9149
23 client attitudes/	16112
24 treatment compliance/	14261
25 treatment refusal/	735
26 ("opt in" or "opt out" or "opting in" or "opting out" or "opted in" or "opted out" or "opts in" or "opts out" or default*).ti,ab.	7891
27 ((referral* or pathway* or gatekeep*) adj3 (optional* or compulsor* or mandatory* or oblige* or obligation* or obliging* or automatic* or enforc* or impose* or imposing or coerc* or voluntary* or involuntary* or volunteer* or discretion* or compel* or uncompel* or routine*)).ti,ab.	372
28 ((treatment* or service* or intervention* or pharmacotherap* or support* or "stop smoking" or SSS or counsel* or therapy* or therapies* or system* or scheme* or program* or initiative*) adj3 (optional* or compulsor* or mandatory* or oblige* or obligation* or obliging* or automatic* or enforc* or impose* or imposing or coerc* or voluntary* or involuntary* or volunteer* or discretion* or compel* or uncompel* or routine*)).ti,ab.	16256
29 ((patient* or smoker* or woman* or women* or client*) adj3 (choice* or acceptance* or unaccept* or refus* or comply* or compliance* or complie* or noncomply* or noncompliance* or noncomple* or non-comply* or non-compliance* or non-complie* or non comply* or non compliance* or non complie* or cooperat* or uncooperat*)).ti,ab.	7734
30 or/19-29	89360
31 18 and 30	72
32 limit 31 to ("column/opinion" or editorial or letter)	0
33 31 not 32	72
34 limit 33 to animal	3

35 33 not 34	69
36 limit 35 to english language	69
37 limit 36 to yr="1998 -Current"	63

17.3.10 Database name: Social Policy and Practice (SPP)Database(s): **Social Policy and Practice** 201901

Search Strategy:

#	Searches	Results
1	(smoking* or smoker* or antismok* or anti smok* or anti-smok* or exsmoker* or ex-smoker* or "ex smoker*").ti,ab.	1387
2	(smoking* or smoker* or antismok* or anti smok* or anti-smok* or exsmoker* or ex-smoker* or "ex smoker*").hw.	1027
3	(tobacco* or nicotin* or cigar* or cigs).ti,ab.	650
4	(tobacco* or nicotin* or cigar* or cigs*).hw.	246
5	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).ti,ab.	0
6	(bidi or bidis* or beedi or beedis* or kretek* or hand roll* or handroll* or rollies).hw.	0
7	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).ti,ab.	5
8	(waterpipe* or water pipe* or dokha or dokhas* or hookah or hookahs* or hooka or hookas* or shisha or shishas* or sheesha or sheeshas*).hw.	4
9	or/1-8	1931
10	pregnan*.ti,ab.	1860
11	pregnan*.hw.	1663
12	(ante natal* or ante-natal* or antenatal* or pre natal* or pre-natal* or prenatal* or peri natal* or peri-natal* or perinatal*).ti,ab.	706
13	(ante natal* or ante-natal* or antenatal* or pre natal* or pre-natal* or prenatal* or peri natal* or peri-natal* or perinatal*).hw.	132
14	(maternity* or maternal* or obstetric* or midwif* or midwiv*).ti,ab.	2275
15	(maternity* or maternal* or obstetric* or midwif* or midwiv*).hw.	492
16	or/10-15	4734
17	9 and 16	183
18	("opt in" or "opt out" or "opting in" or "opting out" or "opted in" or "opted out" or "opts in" or "opts out" or default*).ti,ab.	333
19	("opt in" or "opt out" or "opting in" or "opting out" or "opted in" or "opted out" or "opts in" or "opts out" or default*).hw.	41

20	((referral* or pathway* or gatekeep*) adj3 (optional* or compulsor* or mandatory* or oblige* or obligation* or automatic* or enforc* or impose* or imposing or coerc* or voluntary* or involuntary* or volunteer* or discretion* or compel* or uncompel* or routine*)).ti,ab.	53
21	(referral* or pathway* or gatekeep*).hw.	1747
22	((treatment* or service* or intervention* or pharmacotherap* or support* or "stop smoking" or SSS or counsel* or therapy* or therapies* or system* or scheme* or program* or initiative*) adj3 (optional* or compulsor* or mandatory* or oblige* or obligation* or obliging* or automatic* or enforc* or impose* or imposing or coerc* or voluntary* or involuntary* or volunteer* or discretion* or compel* or uncompel* or routine*)).ti,ab.	3385
23	((treatment* or service* or intervention* or pharmacotherap* or support* or "stop smoking" or SSS or counsel* or therapy* or therapies* or system* or scheme* or program* or initiative*) and (optional* or compulsor* or mandatory* or oblige* or obligation* or obliging* or automatic* or enforc* or impose* or imposing or coerc* or voluntary* or involuntary* or volunteer* or discretion* or compel* or uncompel* or routine*)).hw.	5204
24	((patient* or smoker* or woman* or women* or client*) adj3 (choice* or acceptance* or* unaccept* or refus* or comply* or compliance* or complie* or noncomply* or noncompliance* or noncomplie* or non-comply* or non-compliance* or non-complie* or non comply* or non compliance* or non complie* or cooperat* or uncooperat*)).ti,ab.	466
25	((patient* or smoker* or woman* or women* or client*) and (choice* or acceptance* or* unaccept* or refus* or comply* or compliance* or complie* or noncomply* or noncompliance* or noncomplie* or non-comply* or non-compliance* or non-complie* or non comply* or non compliance* or non complie* or cooperat* or uncooperat*)).hw.	336
26	or/18-25	10536
27	17 and 26	4
28	limit 27 to yr="1998 -Current"	3

17.4 Supplementary search techniques

17.4.1 Surveillance includes

The following papers were identified during the surveillance searches for this topic and added to the EndNote file.

Bauld L et al. (2012) Implementation of routine biochemical validation and an 'opt out' referral pathway for smoking cessation in pregnancy. *Addiction*, 107 Suppl 2: 53-60.

17.4.2 Scoping searches

The following papers were identified during the scoping searches for this topic and added to the EndNote file.

Buchanan C et al. (2017) Tobacco Use Prevalence and Outcomes Among Perinatal Patients Assessed Through an "Opt-out" Cessation and Follow-Up Clinical Program. *Maternal & Child Health Journal*, 21(9): 1790-1797.

Campbell KA et al. (2016) Antenatal Clinic and Stop Smoking Services Staff Views on "Opt-Out" Referrals for Smoking Cessation in Pregnancy: A Framework Analysis. *International Journal of Environmental Research & Public Health*, 13(10), 10 12

Campbell KA et al. (2017) 'Opt-out' referrals after identifying pregnant smokers using exhaled air carbon monoxide: impact on engagement with smoking cessation support. *Tobacco Control*, 26(3):300-306

Richter KP and Ellerbeck EF (2015) It's time to change the default for tobacco treatment. *Addiction*, 110(3):381-6

Sloan M et al. (2016) Pregnant Women's Experiences and Views on an "Opt-Out" Referral Pathway to Specialist Smoking Cessation Support: A Qualitative Evaluation. *Nicotine & Tobacco Research*, 18(5):900-5.

17.4.3 Web of Science – for Forward Citation Searching and Reference Harvesting

The following papers were identified during the scoping searches and they were used for forward citation searching and reference harvesting in Web of Science. Only those references that could be accessed through the NICE subscription to WOS were added to the search results. This used Web of Science Core Collection (1990-present). Duplicates were removed from the marked list in WOS before downloading the results.

Bauld L et al. (2012) Implementation of routine biochemical validation and an 'opt out' referral pathway for smoking cessation in pregnancy. *Addiction*, 107 Suppl 2: 53-60.

Buchanan C et al. (2017) Tobacco Use Prevalence and Outcomes Among Perinatal Patients Assessed Through an "Opt-out" Cessation and Follow-Up Clinical Program. *Maternal & Child Health Journal*, 21(9): 1790-1797.

Campbell KA et al. (2016) Antenatal Clinic and Stop Smoking Services Staff Views on "Opt-Out" Referrals for Smoking Cessation in Pregnancy: A Framework Analysis. *International Journal of Environmental Research & Public Health*, 13(10), 10 12

Campbell KA et al. (2017) 'Opt-out' referrals after identifying pregnant smokers using exhaled air carbon monoxide: impact on engagement with smoking cessation support. *Tobacco Control*, 26(3):300-306

Richter KP and Ellerbeck EF (2015) It's time to change the default for tobacco treatment. *Addiction*, 110(3):381-6

Sloan M et al. (2016) Pregnant Women's Experiences and Views on an "Opt-Out" Referral Pathway to Specialist Smoking Cessation Support: A Qualitative Evaluation. *Nicotine & Tobacco Research*, 18(5):900-5.

Total added to marked list = 143 citations

6 items not available in our subscriptions (on BIOSIS) = 137

6 items removed as published before 1998 = 131

Total number downloaded for EndNote = 131

Science Citation Index Expanded (SCI-EXPANDED) --1990-present

Social Sciences Citation Index (SSCI) --1990-present

Arts & Humanities Citation Index (A&HCI) --1990-present

Emerging Sources Citation Index (ESCI) --2015-present

17.5 Web searching

17.5.1 Search engines

Search engine	
Name	Health Services/Technology Assessment Texts (HSTAT)
URL	https://www.ncbi.nlm.nih.gov/books/NBK16710
Date searched	24 April 2019
Search terms	<p>#1 (((((tobacco[MeSH Terms]) OR tobacco use[MeSH Terms]) OR smoking[MeSH Terms]) OR smoking cessation[MeSH Terms]) OR smoking prevention[MeSH Terms]) 2520</p> <p>#2 (((smoking[Title]) OR cigarette[Title]) OR tobacco[Title]) 2314</p> <p>#3 (#1 OR #2) 3850</p> <p>#4 hstatcollect[filter] 38193</p> <p>#5 #3 AND #4 1189</p> <p>Results: 1 to 20 of 27 books (1189 items)</p>
How the results were selected	Only selected documents if the title or abstract were directly relevant to the questions.
Results	<p>Agency for Healthcare Research and Quality (US) (2014) Smoking interventions in pregnancy and postpartum care</p> <p>Objective:</p> <p>The Vanderbilt Evidence-based Practice Center systematically reviewed evidence about smoking cessation interventions in pregnant and postpartum women.</p> <p>Data sources:</p> <p>We searched MEDLINE®, CINAHL®, and PsycINFO® for randomized controlled trials (RCTs) on interventions and prospective studies on patient characteristics published in English.</p> <p>Review methods:</p> <p>We dually reviewed abstracts and full texts. Studies were excluded if they did not address a Key Question, were not an eligible study design, or did not report biochemically validated smoking cessation outcomes. Data were extracted into evidence tables and summarized qualitatively. A meta-analysis of effectiveness data assessed relative impact of components in smoking cessation interventions.</p> <p>Results:</p>

	<p>We included 59 unique studies reported in 72 publications. Of the 56 RCTs, 13 were good, 15 fair, and 28 poor quality. Studies evaluated counseling-based interventions, educational materials, nicotine replacement therapy (NRT), peer support, multicomponent interventions, and other unique interventions. Multicomponent approaches were most likely to be effective, but results were inconsistent. In the meta-analysis, incentives demonstrated the strongest effect; other components with a greater than 80-percent likelihood of success were feedback about biologic measures, information, personal followup, NRT, and quit guides. Findings regarding infant outcomes were inconsistent or did not reach statistical significance. No serious harms were identified in four studies that reported adverse events.</p> <p>Conclusions:</p> <p>Across interventions, data are sparse to evaluate sustained cessation among pregnant and postpartum women. This review suggests that approaches that combine multiple components will have the best likelihood of success. Selecting which components to include is more complex and should be based on the particular considerations of the clinical setting, including patient characteristics and resource allocation, but incentives demonstrated the greatest effect among components studied. Infant outcomes are limited to data collected at time of birth; no studies assessed longer term or child outcomes. Harms data were rarely reported.</p> <p>https://www.ncbi.nlm.nih.gov/books/NBK190501/</p> <p>Discussion of incentives here https://www.ncbi.nlm.nih.gov/books/NBK190506/#results.s65</p> <p>Agency for Healthcare Research and Quality (US) (2015) Behavioral Counseling and Pharmacotherapy Interventions for Tobacco Cessation in Adults, Including Pregnant Women. A Review of Reviews for the U.S. Preventive Services Task Force</p> <p>Background:</p> <p>Tobacco use is the leading preventable cause of disease, disability, and death in the United States. Interventions to help adults quit smoking might stop or reduce tobacco-related illness.</p> <p>Purpose:</p> <p>To systematically review evidence for the effectiveness and safety of pharmacotherapy and behavioral tobacco cessation interventions among adults, including pregnant women and those with mental health conditions, and to conduct a de novo search for primary evidence related to electronic nicotine delivery systems for adults.</p> <p>Methods:</p>
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	<p>We conducted a review of reviews and searched for existing systematic reviews published through August 1, 2014 in the following databases and organizations' websites: PubMed, PsycInfo, the Database of Abstracts of Reviews of Effects, the Cochrane Database of Systematic Reviews, the Centre for Reviews and Dissemination Health Technology Assessment, the Agency of Healthcare Research and Quality, British Medical Journal Clinical Evidence, the Canadian Agency for Drugs and Technologies in Health, Center for Disease Control and Prevention's Guide to Community Preventive Services, the Institute of Medicine, the National Institute for Health and Clinical Excellence, the National Health Service Health Technology Assessment Programme, and the Surgeon General. We included reviews that were published in the English language that systematically reported the effects of tobacco cessation interventions on health, cessation, or adverse outcomes. We excluded nonsystematic meta-analyses and narrative reviews and those that focused on harm reduction or relapse prevention. We conducted an a priori search for primary trial evidence related to the effectiveness and safety of electronic nicotine delivery systems (ENDS) (through March 1, 2015) and a search for pharmacotherapy among pregnant women (through August 15, 2014) to supplement the review of reviews methodology. Two investigators independently reviewed abstracts and full-text articles against a set of a priori inclusion and quality criteria. Discrepancies were resolved by consensus. One reviewer abstracted data into an evidence table and a second reviewer checked these data. We grouped reviews based on population (general adults, pregnant women, individuals with mental health conditions) and intervention (pharmacotherapy, behavioral, or combined interventions). We identified one or more reviews within each population and intervention subgroup that represented the most current and applicable evidence to serve as the basis for the main findings ("primary" reviews) and discussed complementary and discordant findings from other included reviews as necessary. We did not reanalyze any of the individual study evidence; we presented pooled analyses and existing point estimates from included reviews.</p> <p>Results:</p> <p>We included 54 systematic reviews, 22 of which served as the basis for the primary findings. Among adults, nine reviews addressed the efficacy and/or harms of nicotine replacement therapy (NRT), bupropion hydrochloride sustained release (bupropion SR), and/or varenicline. None of these reviews reported on health outcomes. All three medications were found to be effective in increasing smoking quit rates compared with placebo or nondrug arms at 6 or more months followup. The pooled risk ratio (RR) for abstinence for NRT was 1.60 (95% confidence interval [CI], 1.53 to 1.68); for bupropion SR, RR 1.62 (95% CI, 1.49 to 1.76); and for varenicline, 2.27 (95% CI, 2.02 to 2.55). Combined NRT versus a single form of NRT showed a statistically significantly greater cessation effect in pooled</p>
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	<p>analysis (RR 1.34 [95% CI, 1.18 to 1.51]). None of the drugs were associated with major cardiovascular adverse events, although NRT produced higher rates of all cardiovascular events (driven by minor events). One review on combined pharmacotherapy and behavioral interventions reported a relative increase in quitting by 82 percent versus nonpharmacotherapy usual care (RR 1.82 [95% CI, 1.66 to 2.00]). We included an additional 33 reviews that addressed behavioral tobacco cessation treatments among adults, including those that focused on specific subpopulations such as older adults. Compared with various controls, behavioral interventions such as in-person advice and support from clinicians, self-help materials, and telephone counseling had modest, but significantly increased, relative smoking cessation at 6 or more months (18% to 96%). For example, the pooled RR of physician advice versus no advice was 1.76 (95% CI, 1.58 to 1.96) for smoking cessation at 6 or more months followup. Only two trials addressed the efficacy and harms related to the use of electronic cigarettes and these trials suggested no benefit on smoking cessation among smokers intending to quit. We included eight reviews that focused on pregnant women that found significant benefits for perinatal health, including increased birth weight and reduced preterm birth. These benefits were evident with behavioral interventions, and suggested by data from some of the NRT trials, although that evidence was limited. Cessation during late pregnancy was greater among women receiving any type of behavioral intervention, with evidence most clear for counseling. Rates of validated cessation among women allocated to NRT (5% to 24%) compared with placebo (0% to 15%) were not statistically different, although few studies contributed data. Our reviews among individuals with depression or schizophrenia provided limited trial evidence on the efficacy of pharmacotherapy or behavioral interventions. There was, however, some evidence of a benefit for bupropion among those with schizophrenia and the addition of a mood management component to behavioral interventions for smokers with depression.</p> <p>Conclusions:</p> <p>This review of reviews suggests that behavioral interventions and pharmacotherapy, alone or in combination, are effective in helping to reduce rates of smoking among the general adult population. Behavioral interventions, in particular, can assist pregnant women to stop smoking. Data on the effectiveness and safety of electronic nicotine delivery systems are limited. Future research should focus on direct comparisons between different combinations and classes of drugs; the incidence of serious adverse events related to medications for cessation; the efficacy and safety of ENDS; and pharmacotherapies for pregnant women and those with mental health conditions including evidence on health outcomes.</p> <p>https://www.ncbi.nlm.nih.gov/books/NBK321744/</p>
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	<p>Discussion of incentives is here. Note this also covers safety and information relevant to RQ5.3.</p> <p>https://www.ncbi.nlm.nih.gov/books/NBK321748/#ch3.s34</p>
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Search engine	
Name	NICE Evidence Search
URL	https://www.evidence.nhs.uk
Date searched	24 April 2019
Search terms	<p>Smoking pregnancy</p> <p>Tobacco pregnancy</p> <p>Nicotine pregnancy</p> <p>Cigarettes pregnancy</p> <p>Vaping pregnancy</p> <p>“opt out” pregnancy</p> <p>“opt in” pregnancy</p> <p>Incentives pregnancy</p> <p>Smoking pregnant</p> <p>Tobacco pregnant</p> <p>Nicotine pregnant</p> <p>Cigarettes pregnant</p> <p>Vaping pregnant</p> <p>“opt out” pregnant</p> <p>“opt in” pregnant</p> <p>Incentives pregnant</p> <p>Smoking maternity</p> <p>Tobacco maternity</p> <p>Nicotine maternity</p>

	<p>Cigarettes maternity</p> <p>Vaping maternity</p> <p>“opt out” maternity</p> <p>“opt in” maternity</p> <p>Incentives maternity</p> <p>Smoking maternal</p> <p>Tobacco maternal</p> <p>Nicotine maternal</p> <p>Cigarettes maternal</p> <p>Vaping maternal</p> <p>“opt out” maternal</p> <p>“opt in” maternal</p> <p>Incentives maternal</p>
<p>How the results were selected</p>	<p>Only selected documents if the title or abstract were directly relevant to the questions. For each question, sorted by relevance and then reviewed all of the first 100 results then applied filters for 'guidance and policy' and 'practice based information' and reviewed 250 again, then removed filters and applied Area of Interest-Public Health and reviewed a further 250.</p> <p>Did not include</p> <p>NAO Maternity services in England https://www.nao.org.uk/wp-content/uploads/2013/11/10259-001-Maternity-Services-Book-1.pdf</p> <p>Did not include NCT advice on NRT or ecigs.</p> <p>https://www.nct.org.uk/pregnancy/food-and-nutrition/smoking-during-pregnancy</p> <p>Did not include</p> <p>PHRC Using qualitative research to inform interventions to reduce smoking in pregnancy in England: a systematic review of qualitative studies http://phrc.lshtm.ac.uk/project_2005-2011_a810.html</p> <p>Did not include</p>

	<p>PHE 2017 Guidance on smoking cessation in secondary care in acute settings: self-assessment tool https://www.gov.uk/government/publications/smoking-cessation-in-secondary-care-acute-and-maternity-settings</p>
<p>Results</p>	<p>Health Education England (2019) Maternity Workforce Strategy – Transforming the Maternity Workforce https://www.hee.nhs.uk/sites/default/files/document/MWS_Report_Web.pdf</p> <p>ISD Scotland (2018) Births in Scottish Hospitals - Year ending 31st March 2018 – Table 3 Maternal Smoking https://www.isdscotland.org/Health-Topics/Maternity-and-Births/Publications/data-tables2017.asp?id=2047%20-%202047</p> <p>Local Government Association (2018) Fit for and during pregnancy. A key role for local government</p> <ul style="list-style-type: none"> - See p15 Barking and Dagenham and Havering: introducing smoking screening for all pregnant women - See p28 Greater Manchester: offering shopping vouchers to get pregnant women to quit smoking - See p39 Rotherham Metropolitan Borough Council: getting pregnant women to stop smoking <p>https://www.local.gov.uk/sites/default/files/documents/15.52%20Fit%20for%20and%20during%20pregnancy_03.pdf</p> <p>NHS Digital (2019) Statistics on Women's Smoking Status at Time of Delivery, England - Quarter 3, 2018-19 10.5% of mothers were smokers at time of delivery. https://digital.nhs.uk/data-and-information/publications/statistical/statistics-on-women-s-smoking-status-at-time-of-delivery-england/statistics-on-womens-smoking-status-at-time-of-delivery-england-quarter-3-october-2018-to-december-2018</p> <p>NHS England (2016) National maternity review. Better births. Improving outcomes of maternity services in England. A five year forward view for maternity services https://www.england.nhs.uk/wp-content/uploads/2016/02/national-maternity-review-report.pdf</p> <p>NHS England (2019) Saving Babies' Lives. A care bundle for reducing stillbirths. Version 2</p>

	<p>It aims to provide detailed information for providers and commissioners of maternity care on how to reduce perinatal mortality across England.</p> <p>The first element is reducing smoking in pregnancy – p23 discusses referral.</p> <p>https://www.england.nhs.uk/publication/saving-babies-lives-version-two-a-care-bundle-for-reducing-perinatal-mortality/</p> <p>Public Health Research Consortium (2008) Estimating costs to the NHS of smoking in pregnancy for pregnant women and infants</p> <p>Costs to the NHS related to maternal increased risk of spontaneous abortion, ectopic pregnancy, placenta previa, abruptio placenta, preterm premature rupture of membranes and decreased risk of pre-eclampsia are estimated to be between £8-64 million per year based on different costing methodologies.</p> <p>Costs to the NHS related to infant (0-12 months) increased risk of preterm delivery, low birth weight, Sudden Infant Death Syndrome, perinatal mortality, asthma, otitis media, and upper and lower respiratory infections are estimated to be between £1223.5 million per year.</p> <p>Smoking cessation interventions for pregnant women have been shown to be effective in significantly increasing quitting rates. In this report, we estimate that spending between £13.60-£37.00 per pregnant smoker would yield positive cost savings for the NHS.</p> <p>http://phrc.lshtm.ac.uk/papers/PHRC_A3-06_Final_Report.pdf</p>
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17.5.2 Website browsing

Website	
Name	Action on Smoking and Health (ASH)
URL	http://ash.org.uk/home
Date searched	23 April 2019
Search terms (including any specific sections browsed)	Browsed briefings, reports, fact sheets, information.

Results	<p>ASH (2017) Smokefree skills: an assessment of maternity workforce training Seeks to identify the current barriers to full training of the maternity workforce to enable them to deliver NICE guidance on smoking in pregnancy and sets out recommendations for change.</p> <ul style="list-style-type: none"> - Opt out briefly mentioned p38 <p>http://ash.org.uk/wp-content/uploads/2017/07/Smokefree-skills-an-assessment-of-maternity-workforce-training.pdf</p> <p>Smoking in Pregnancy Challenge Group (2018) Review of the challenge Examines the progress that has been made towards the Government's target and outlines recommendations for the next steps.</p> <ul style="list-style-type: none"> - See p17 for incentives - See p8 and 18 for opt out referral - See p19 for nicotine. <p>http://ash.org.uk/download/2018-challenge-group-report-final/</p>
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Website	
Name	Local Government Association
URL	https://www.local.gov.uk
Date searched	23 April 2019
Search terms (including any specific sections browsed)	<p>Social care, health and integration https://www.local.gov.uk/publications?topic[2495]=2495</p> <p>Case studies https://www.local.gov.uk/case-studies</p> <p>Searched for tobacco, smoking, cigarettes, pregnant, pregnancy, maternal, maternity.</p> <p>Did not include general items on local govt services e.g. Fit for and during pregnancy: A key role for local government</p>
Results	None specific to this question.

Website	
Name	National Centre for Smoking Cessation and Training
URL	http://www.ncsct.co.uk
Date searched	23 April 2019
Search terms (including any specific sections browsed)	<p>Browsed sections on research briefings, clinical tools, research resources.</p> <p>The only relevant article was already in the 5.2 results.</p>

	[Lorenatto F, West R, Michie S (In Press) Identifying evidence-based behaviour change techniques to aid smoking cessation in pregnancy. <i>Nicotine & Tobacco Research</i> .]
Results	None specific to this question.

Website	
Name	Northern Ireland Assembly
URL	http://www.niassembly.gov.uk/
Date searched	23 April 2019
Search terms (including any specific sections browsed)	Browsed Research and Information Service, research publications and Committee for Health, Social Services and Public Safety.
Results	None specific to this question.

Website	
Name	Public Health England
URL	https://www.gov.uk/government/organisations/public-health-england
Date searched	24 April 2019
Search terms (including any specific sections browsed)	<p>Searched for tobacco, smoking, cigarettes, nicotine, nrt, pregnant, pregnancy, referral, opt out and incentives.</p> <p>https://www.gov.uk/government/organisations/latest?organisations%5B%5D=public-health-england</p> <p>Searched announcements for the same terms.</p> <p>https://www.gov.uk/government/announcements?departments%5B%5D=public-health-england</p> <p>Did not include guide that has an infographic on smoking in pregnancy.</p> <p>Health matters: stopping smoking - what works?</p> <p>https://www.gov.uk/government/publications/health-matters-stopping-smoking-what-works/health-matters-stopping-smoking-what-works</p>
Results	None specific to this question.

Website	
Name	Royal College of Midwives
URL	https://www.rcm.org.uk
Date searched	24 April 2019
Search terms (including any specific sections browsed)	<p>Browsed the list of publications and searched it for tobacco, cigarettes, nicotine, nrt, vaping, vape and incentives.</p> <p>Browsed the list of Resources.</p> <p>Searched the media releases but did not include ASH report already knew about.</p> <p>Did not include ecigs infographic</p> <p>https://www.rcm.org.uk/media/2350/e-cigarettes-in-pregnancy.pdf or comment https://www.rcm.org.uk/media-releases/2019/march/cuts-to-stop-smoking-services-fly-in-face-of-government-stillbirth-ambitions-says-rcm-on-new-report/</p>
Results	None specific to this question.

Website	
Name	Royal College of Nursing
URL	https://www.rcn.org.uk
Date searched	24 April 2019
Search terms (including any specific sections browsed)	<p>Searched main website and Publications for tobacco, cigarettes, nicotine, nrt, vaping, vape and incentives.</p> <p>Browsed the smoking page at</p> <p>https://www.rcn.org.uk/clinical-topics/public-health/smoking-cessation</p>
Results	None specific to this question.

Website	
Name	Royal College of Obstetricians and Gynaecologists
URL	https://www.rcog.org.uk
Date searched	24 April 2019
Search terms (including any specific)	NOTE: this source was added after completion of the protocol.

sections browsed)	Did not include patient leaflet https://www.rcog.org.uk/en/patients/patient-leaflets/smoking-and-pregnancy/
Results	None specific to this question.

Website	
Name	Royal College of Paediatrics and Child Health
URL	https://www.rcpch.ac.uk/
Date searched	23 April 2019
Search terms (including any specific sections browsed)	Browsed resources and key topics. Browsed https://www.rcpch.ac.uk/resources/subject-archives-guide-smoking https://www.rcpch.ac.uk/topic/smoking-tobacco Searched for smoking, tobacco and nicotine.
Results	None specific to this question.

Website	
Name	Royal College of Physicians
URL	https://www.rcplondon.ac.uk
Search terms (including any specific sections browsed)	Browsed the public health section https://www.rcplondon.ac.uk/projects/rcp-policy-public-health And also the tags smoking and tobacco https://www.rcplondon.ac.uk/search/topic/smoking-and-tobacco
Results	None specific to this question.

Website	
Name	Scottish Government
URL	https://www.gov.scot
Date searched	24 April 2019
Search terms (including any specific sections browsed)	Searched for tobacco, smoking, cigarettes, nicotine, nrt, pregnant, pregnancy, referral, opt out and incentives in Publications. https://beta.gov.scot/publications

	<p>Browsed the smoking pages</p> <p>https://www.gov.scot/Topics/Health/Services/Smoking</p> <p>https://www.gov.scot/policies/smoking/</p> <p>Also used</p> <p>https://www.scotpho.org.uk/behaviour/tobacco-use/key-points/</p>
Results	None specific to this question.

Website	
Name	Smoking Toolkit Study
URL	http://www.smokinginengland.info
Date searched	23 April 2019
Search terms (including any specific sections browsed)	Browsed reports, key publications, STS documents.
Results	None specific to this question.

Website	
Name	UK Centre for Tobacco and Alcohol Studies
URL	http://ukctas.net/index.html
Date searched	23 April 2019
Search terms (including any specific sections browsed)	Browsed What we do – policy, research, dissemination.
Results	None specific to this question.

Website	
Name	University of Bath Tobacco Control Research Group
URL	https://researchportal.bath.ac.uk/en/organisations/uk-centre-for-tobacco-control-studies
Date searched	23 April 2019

Search terms (including any specific sections browsed)	Browsed research outputs. Did not include papers already in EndNote e.g. Implementation of routine biochemical validation and an 'opt out' referral pathway for smoking cessation in pregnancy
Results	None specific to this question.

Website	
Name	University of Stirling Centre for Tobacco Control Research
URL	https://www.stir.ac.uk/about/faculties-and-services/health-sciences-sport/research/research-groups/centre-for-tobacco-control-research/publications
Date searched	24 April 2019
Search terms (including any specific sections browsed)	Browsed publications and projects – books, chapters and monographs. Checked articles against EndNote and they were already retrieved. There are a lot of relevant projects that we can list under ongoing trials but the articles published already are in our EndNote file.
Results	NHS Health Scotland (2008) Smoking cessation support in pregnancy in Scotland This study aimed to map and describe smoking cessation support for pregnant women, to provide examples of promising practice, to examine existing national monitoring data on smoking in pregnancy and to compare current practice with the existing guidelines. Note – Case study 2 on Dundee includes financial incentives see p35. Referral is covered a lot – opt out is mentioned on p56 http://www.healthscotland.com/uploads/documents/7580-Smoking%20in%20Pregnancy.pdf

Website	
Name	Welsh Government
URL	https://gov.wales/?lang=en
Date searched	24 April 2019
Search terms (including any specific sections browsed)	Searched for tobacco, smoking, cigarettes, nicotine, pregnancy and pregnant.

specific sections browsed)	<p>Browsed Health and Social Services topic.</p> <p>Browsed smoking https://gov.wales/smoking</p> <p>Browsed maternity and early years https://gov.wales/maternity-early-years</p> <p>Did not include</p> <p>A strategic vision for maternity services in Wales (2011) https://gov.wales/maternity-services-strategy</p>
Results	None specific to this question.

Website	
Name	World Health Organization Europe
URL	http://www.euro.who.int/en/health-topics/disease-prevention/tobacco
Date searched	24 April 2019
Search terms (including any specific sections browsed)	Browsed the tobacco publications and evidence briefs.
Results	None specific to this question.

17.6 Search narrative

The databases listed in the protocol are similar to the ones used in RQ1-3 but CINAHL and BNI were added to ensure coverage of the nursing and midwifery literature. To balance out the resources required, ASSIA was removed.

The search is structured with 3 concepts and there are separate questions for RQ5.1, RQ5.2 and RQ5.3. The testing was done with a joint search for 2 concepts (Smoking AND Pregnancy), which had around 24,000 hits on MEDLINE in November 2018.

The population terms were amended from PH26 to make them relevant to this question. The same terms are used in RQ5.1 and RQ5.2. The protocol originally said "women immediately before or during pregnancy or following childbirth" and it now just says "women during pregnancy", so the search terms were focused. The population terms follow the protocol and focus on the behavior of the mother and do not include potential harms to the baby, such as birth weight or fetal development.

The smoking terms are similar to the ones used in RQ1-3 but they have been adapted to make them relevant to this question. Non-smokers and smoking prevention were removed as this is a cessation question. Vaping and NRT are relevant to RQ5.3 and not to this question. Varenicline and bupropion were removed because these are not indicated during pregnancy. The strategy from RQ1-3 was also updated because in the 2019 MeSH update "tobacco use cessation products" was changed to "tobacco use cessation devices".

Various ways of searching for "opt out" were tested, including using opt* and (opt adj (in or out)). The option was chosen to minimize the noise from terms such as optimum, optic or optometrists.

The QA comments questioned whether it was necessary to include more terms in the third set than just the terms for opt out. The papers listed above that were used in WOS were run through the Yale MeSH Analyzer and this found that 5 of the 6 used the MeSH term "Referral and Consultation" so it was retained. The terms were discussed further and it was felt that papers

would not necessarily use the term “opt out”. The word referral was originally used on its own but this was made more precise by combining it with terms for automatic or optional to better reflect the aspects we were interested in finding. The search was focussed on how women react when they are offered a referral, rather than what happens when a woman decides herself that she wants to quit smoking and so terms like self management were removed. The terms for non-adherence were removed because this was about the initial referral and we did not want articles about e.g. women who relapse after not adhering to NRT programmes.

The committee asked NICE to broaden the scope from "Is an opt-out referral pathway to stop smoking..." to "Is opt-out provision of stop smoking support...". This change is reflected in line 41, which covers services and programmes. No additional MeSH terms were required to accommodate this. The final draft of the search used more precise free-text terms by separating the lines for people/patients from the services/treatments. The line about treatment had to be retained because of the committee request that we cover opting out of referral to support/treatment/counselling and not just opting out of the specific referral to a service.

The Embase and CINAHL strategies were translated with slightly different structures to accommodate the subject headings they have specific to mothers who smoke.

The protocol had originally stated that CINAHL would use Ebsco and BNI would use ProQuest. These were both adjusted at the searching stage to HDAS for practical reasons. The strategy was translated into CINAHL Ebsco but it would not run and timed out without giving any results. The CINAHL HDAS strategy would not run with a conventional structure but it would run with the components broken down into separate searches. The same approach was used for BNI. This was not ideal but it at least meant we could access some results and the overlap between the searches just meant we had to remove additional duplicates in EndNote. There were a few other minor discrepancies because of the way HDAS works i.e. the free text for pre-natal and non-compliance could not be used because these are stop words in BNI.

Language limits are not available in BNI, HMIC or SPP. It was not practically possible to apply limits to exclude unwanted publication types on HDAS.

The HMIC and SPP strategies were structured to use the HW field for the subject headings, following recent testing that we are still writing up. The report to that project will recommend using HW instead of translating MeSH terms; using the same free text terms; and switching ADH to AND in the HW lines.

The Royal College of Obstetricians and Gynaecologists website was added after the protocol was completed as it was felt to be worth browsing. During the website searching documents were only selected if the title or abstract were directly relevant to the questions. Policy and background documents were not included in the main search results.

Consider adding “doulas” to any update searches as they are in 5.3 but note that covered childbirth and postpartum, whereas this question focussed on pregnancy.

18 Search for RQ5.2 (Effectiveness)

<p>Topic: Tobacco Portfolio</p> <p>Question details:</p> <p>5.2a. Are incentives to increase smoking cessation effective and cost effective among women who are pregnant?</p> <p>5.2b. Are incentives to increase smoking cessation acceptable to women who are pregnant? What are the barriers and facilitators to uptake of incentives?</p>

18.1 Table of results

Database name	Date searched	Database Platform	Database segment or version
British Nursing Index (BNI)	15/04/2019	HDAS	1992-present (provided by ProQuest)
Cochrane Central Register of Controlled Trials (CENTRAL)	15/04/2019	Wiley	Cochrane Central Register of Controlled Trials Issue 4 of 12, April 2019
Cochrane Database of Systematic Reviews (CDSR)	15/04/2019	Wiley	Cochrane Database of Systematic Reviews Issue 4 of 12, April 2019
Cumulative Index to Nursing and Allied Literature (CINAHL)	15/04/2019	HDAS	1981-present (provided by Ebsco)
Embase	15/04/2019	Ovid	Embase 1974 to 2019 April 12
Health Management Information Consortium (HMIC)	15/04/2019	Ovid	Health Management Information Consortium 1979 to January 2019

MEDLINE	15/04/12019	Ovid	Ovid MEDLINE(R) 1946 to April 12, 2019
MEDLINE-in-Process (including Epub Ahead-of-Print)	15/04/12019	Ovid	Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations 1946 to April 12, 2019, Ovid MEDLINE(R) Daily Update April 12, 2019
PsycINFO	15/04/12019	Ovid	PsycINFO 1806 to April Week 2 2019
Social Policy and Practice (SPP)	15/04/12019	Ovid	Social Policy and Practice 201901
Forward citation searching	15/04/12019	Clarivate	Web of Science Core Collection (1990-present)

Search source	No. of records retrieved	Results	Total results	De-duplicated
British Nursing Index (BNI)	126	2280	2690	1399
Cochrane Central Register of Controlled Trials (CENTRAL)	136			
Cochrane Database of Systematic Reviews (CDSR)	14			
Cumulative Index to Nursing and Allied Literature (CINAHL)	414			
Embase	589			
Health Management Information Consortium (HMIC)	50			
MEDLINE	558			
MEDLINE-in-Process (including Epub Ahead-of-Print)	77			
PsycINFO	305			
Social Policy and Practice (SPP)	11			
Surveillance	1			
Scoping searches	21			
Includes from PH26	3			
Web of Science	385			

18.2 Database strategy outline

(smoking OR tobacco OR cigarettes or shisha) AND

(pregnancy OR maternity services OR obstetrics OR midwifery) AND

(incentives OR rewards) AND

1998-Current AND Limits

18.3 Database strategies

18.3.1 Database name: British Nursing Index (BNI)

#	Database	Search term	Results
1	BNI	TOBACCO/	1656
2	BNI	CIGARETTES/	546
3	BNI	CIGARS/	16
4	BNI	"WATER PIPES"/	5
5	BNI	SMOKING/	9970
6	BNI	"SMOKING CESSATION"/	1636
7	BNI	NICOTINE/	513
8	BNI	(smoking* OR smoker* OR antismok* OR anti smok* OR anti-smok* OR exsmoker* OR ex-smoker* OR "ex smoker*").ti,ab	12185
9	BNI	(tobacco* OR nicotin* OR cigar* OR cigs).ti,ab	6610
10	BNI	(bidi OR bidis OR beedi OR beedis OR kretek* OR hand roll* OR handroll* OR rollies).ti,ab	66
11	BNI	(waterpipe* OR water pipe* OR dokha OR dokhas OR hookah OR hookahs OR hooka OR hookas OR shisha OR shishas OR sheesha OR sheeshas).ti,ab	109
12	BNI	(1 OR 2 OR 3 OR 4 OR 5 OR 6 OR 7 OR 8 OR 9 OR 10 OR 11)	18104
13	BNI	PREGNANCY/ OR "TEENAGE PREGNANCY"/	24996
14	BNI	"PREGNANCY COMPLICATIONS"/	4529
15	BNI	"PRENATAL CARE"/	3730
16	BNI	"PERINATAL CARE"/	621
17	BNI	MIDWIFERY/ OR "MIDWIFERY EDUCATION"/	14461
18	BNI	"PRENATAL EDUCATION"/	1058

19	BNI	OBSTETRICS/	4920
20	BNI	(pregnan*).ti,ab	24104
21	BNI	(maternity* OR maternal* OR obstetric* OR midwif* OR midwiv*).ti,ab	38684
22	BNI	(ante natal* OR ante-natal* OR antenatal* OR prenatal* OR peri natal* OR peri-natal* OR perinatal*).ti,ab	12251
23	BNI	13 OR 14 OR 15 OR 16 OR 17 OR 18 OR 19 OR 20 OR 21 OR 22	67603
24	BNI	(12 AND 23)	2226
25	BNI	REWARDS/	77
26	BNI	INCENTIVES/	302
27	BNI	"MONETARY INCENTIVES"/	155
28	BNI	"INCENTIVE PLANS"/	15
29	BNI	MOTIVATION/	2402
30	BNI	REIMBURSEMENT/	364
31	BNI	PAYMENTS/	150
32	BNI	"CASH PAYMENTS"/	5
33	BNI	"PERSONAL FINANCE"/	80
34	BNI	"FINANCIAL LITERACY"/	6
35	BNI	"FINANCIAL PLANNING"/	36
36	BNI	"PERSONAL INCOME"/	12
37	BNI	"FINANCIAL MANAGEMENT"/	1302
38	BNI	(incentive* OR incentiviz* OR incentivis* OR reward* OR prize* OR voucher* OR competition* OR contest* OR lotter* OR raffle* OR gift* OR inducement* OR motivat* OR cash* OR money* OR monetar* OR financ* OR token* OR reinforcement* OR awards*).ti,ab	34492

39	BNI	(deposit* ADJ3 (contract* OR contingency* OR contingent* OR 11 conditional* OR return* OR pay* OR repay* OR reimburs* OR retain* OR forfeit* OR keep* OR save* OR saving* OR system* OR scheme* OR program* OR initiative* OR intervention*)).ti,ab	
40	BNI	((pay* OR repay* OR reimburs*) ADJ3 (contract* OR contingency* OR contingent* OR conditional* OR forfeit* OR system* OR scheme* OR program* OR initiative* OR intervention*)).ti,ab	1310
41	BNI	(25 OR 26 OR 27 OR 28 OR 29 OR 30 OR 31 OR 32 OR 33 OR 34 OR 35 OR 36 OR 37 OR 38 OR 39 OR 40)	37860
42	BNI	(24 AND 41)	133
43	BNI	(24 AND 41) [DT 1998-2019]	126

18.3.2 Database name: Cochrane Central Register of Controlled Trials (CENTRAL)

ID	Search	Hits
#1	MeSH descriptor: [Tobacco Use] explode all trees	89
#2	MeSH descriptor: [Tobacco] this term only	155
#3	MeSH descriptor: [Tobacco Use Disorder] this term only	1472
#4	MeSH descriptor: [Tobacco Use Cessation] this term only	93
#5	MeSH descriptor: [Tobacco Use Cessation Devices] this term only	425
#6	MeSH descriptor: [Smoking] this term only	5586
#7	MeSH descriptor: [Pipe Smoking] explode all trees	1
#8	MeSH descriptor: [Smoking Reduction] this term only	7
#9	MeSH descriptor: [Smoking Cessation] this term only	3708
#10	MeSH descriptor: [Smoking Cessation Agents] this term only	2
#11	MeSH descriptor: [Nicotine] this term only	2323
#12	MeSH descriptor: [Smokers] this term only	84
#13	MeSH descriptor: [Ex-Smokers] this term only	0
#14	MeSH descriptor: [Smoking Devices] explode all trees	341
#15	(smoking* or smoker* or antismok* or anti smok* or anti-smok* or exsmoker* or ex-smoker* or "ex smoker*"):ti,ab	29016
#16	(tobacco* or nicotin* or cigar* or cigs):ti,ab	14807
#17	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies):ti,ab	144
#18	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas):ti,ab	210
#19	{or #1-#18}	34376
#20	MeSH descriptor: [Pregnancy] explode all trees	7229
#21	MeSH descriptor: [Pregnancy Complications] explode all trees	10285
#22	MeSH descriptor: [Pregnant Women] this term only	200
#23	MeSH descriptor: [Maternal Health Services] explode all trees	1972
#24	MeSH descriptor: [Midwifery] this term only	308
#25	MeSH descriptor: [Obstetrics] this term only	165
#26	MeSH descriptor: [Obstetric Nursing] this term only	45
#27	MeSH descriptor: [Nurse Midwives] this term only	97
#28	pregnan*:ti,ab	45782

- #29 (ante natal* or ante-natal* or antenatal* or pre natal* or pre-natal* or prenatal* or peri natal* or peri-natal* or perinatal*):ti,ab 10641
- #30 (maternity* or maternal* or obstetric* or midwif* or midwiv*):ti,ab 24022
- #31 {or #20-#30} 64863
- #32 #19 and #31 2810
- #33 MeSH descriptor: [Reward] this term only 763
- #34 MeSH descriptor: [Motivation] this term only 4347
- #35 MeSH descriptor: [Health Promotion] this term only and with qualifier(s): [economics - EC] 230
- #36 MeSH descriptor: [Token Economy] this term only 150
- #37 (incentive* or incentiviz* or incentivis* or reward* or prize* or voucher* or competition* or contest* or lotter* or raffle* or gift* or inducement* or motivat* or cash* or money* or monetar* or financ* or token* or reinforcement* or awards*):ti,ab 30231
- #38 (deposit* near/3 (contract* or contingency* or contingent* or conditional* or return* or pay* or repay* or reimburs* or retain* or forfeit* or keep* or save* or saving* or system* or scheme* or program* or initiative* or intervention*)):ti,ab 92
- #39 ((pay* or repay* or reimburs*) near/3 (contract* or contingency* or contingent* or conditional* or forfeit* or system* or scheme* or program* or initiative* or intervention*)):ti,ab 482
- #40 {or #33-#39} 32080
- #41 #32 and #40 277
- #42 "clinicaltrials.gov":so or "who.int":so or "clinicaltrialsregister.eu":so 252319
- #43 #41 not #42 186
- #44 "conference":pt 149689
- #45 #43 not #44 164
- #46 #43 not #44 with Publication Year from 1998 to 2019, in Trials 136

18.3.3 Database name: Cochrane Database of Systematic Reviews (CDSR)

ID	Search	Hits
#1	MeSH descriptor: [Tobacco Use] explode all trees	89
#2	MeSH descriptor: [Tobacco] this term only	155
#3	MeSH descriptor: [Tobacco Use Disorder] this term only	1472
#4	MeSH descriptor: [Tobacco Use Cessation] this term only	93
#5	MeSH descriptor: [Tobacco Use Cessation Devices] this term only	425
#6	MeSH descriptor: [Smoking] this term only	5586
#7	MeSH descriptor: [Pipe Smoking] explode all trees	1
#8	MeSH descriptor: [Smoking Reduction] this term only	7
#9	MeSH descriptor: [Smoking Cessation] this term only	3708
#10	MeSH descriptor: [Smoking Cessation Agents] this term only	2
#11	MeSH descriptor: [Nicotine] this term only	2323
#12	MeSH descriptor: [Smokers] this term only	84
#13	MeSH descriptor: [Ex-Smokers] this term only	0
#14	MeSH descriptor: [Smoking Devices] explode all trees	341
#15	(smoking* or smoker* or antismok* or anti smok* or anti-smok* or exsmoker* or ex-smoker* or "ex smoker*"):ti,ab	29016
#16	(tobacco* or nicotin* or cigar* or cigs):ti,ab	14807
#17	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies):ti,ab	144
#18	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas):ti,ab	210
#19	{or #1-#18}	34376
#20	MeSH descriptor: [Pregnancy] explode all trees	7229
#21	MeSH descriptor: [Pregnancy Complications] explode all trees	10285
#22	MeSH descriptor: [Pregnant Women] this term only	200
#23	MeSH descriptor: [Maternal Health Services] explode all trees	1972
#24	MeSH descriptor: [Midwifery] this term only	308
#25	MeSH descriptor: [Obstetrics] this term only	165
#26	MeSH descriptor: [Obstetric Nursing] this term only	45
#27	MeSH descriptor: [Nurse Midwives] this term only	97
#28	pregnan*:ti,ab	45782
#29	(ante natal* or ante-natal* or antenatal* or pre natal* or pre-natal* or prenatal* or peri natal* or peri-natal* or perinatal*):ti,ab	10641
#30	(maternity* or maternal* or obstetric* or midwif* or midwiv*):ti,ab	24022
#31	{or #20-#30}	64863
#32	#19 and #31	2810

- #33 MeSH descriptor: [Reward] this term only 763
- #34 MeSH descriptor: [Motivation] this term only 4347
- #35 MeSH descriptor: [Health Promotion] this term only and with
qualifier(s): [economics - EC] 230
- #36 MeSH descriptor: [Token Economy] this term only 150
- #37 (incentive* or incentiviz* or incentivis* or reward* or prize* or voucher*
or competition* or contest* or lotter* or raffle* or gift* or inducement* or
motivat* or cash* or money* or monetar* or financ* or token* or reinforcement*
or awards*):ti,ab 30231
- #38 (deposit* near/3 (contract* or contingency* or contingent* or
conditional* or return* or pay* or repay* or reimburs* or retain* or forfeit* or
keep* or save* or saving* or system* or scheme* or program* or initiative* or
intervention*)):ti,ab 92
- #39 ((pay* or repay* or reimburs*) near/3 (contract* or contingency* or
contingent* or conditional* or forfeit* or system* or scheme* or program* or
initiative* or intervention*)):ti,ab 482
- #40 {or #33-#39} 32080
- #41 #32 and #40 277
- #42 "clinicaltrials.gov":so or "who.int":so or "clinicaltrialsregister.eu":so
252319
- #43 #41 not #42 186
- #44 "conference":pt 149689
- #45 #43 not #44 164
- #46 #43 not #44 with Cochrane Library publication date Between Jan 1998
and May 2019, in Cochrane Reviews, Cochrane Protocols 14

18.3.4 Database name: Cumulative Index to Nursing and Allied Literature (CINAHL)

#	Database Search term	IResults
1	CINAHL TOBACCO/	6532
2	CINAHL TOBACCO PRODUCTS/	1987
3	CINAHL "TOBACCO USE CESSATION PRODUCTS"/	363
4	CINAHL "SMOKING"/	51579
5	CINAHL SMOKING CESSATION/	17947
6	CINAHL SMOKING CESSATION PROGRAMS/	2043
7	CINAHL NICOTINE/	3832
8	CINAHL (smoking* OR smoker* OR antismok* OR anti smok* OR anti-smok* OR exsmoker* OR ex-smoker* OR "ex smoker*").ti,ab	70060
9	CINAHL (tobacco* OR nicotin* OR cigar* OR cigs).ti,ab	43026
10	CINAHL (bidi OR bidis OR beedi OR beedis OR kretek* OR hand roll* OR handroll* OR rollies).ti,ab	323
11	CINAHL (waterpipe* OR water pipe* OR dokha OR dokhas OR hookah OR hookahs OR hooka OR hookas OR shisha OR shishas OR sheesha OR sheeshas).ti,ab	1197
12	CINAHL (1 OR 2 OR 3 OR 4 OR 5 OR 6 OR 7 OR 8 OR 9 OR 10 OR 108719 11)	108719
13	CINAHL PREGNANCY/ OR "PREGNANCY, MULTIPLE"/ OR "PREGNANCY TRIMESTERS"/ OR "PREGNANCY, UNPLANNED"/ OR "PREGNANCY, UNWANTED"/	170215
14	CINAHL exp "PREGNANCY COMPLICATIONS"/	76981
15	CINAHL EXPECTANT MOTHERS/	5751
16	CINAHL MATERNAL HEALTH SERVICES/	7829
17	CINAHL PRENATAL CARE/	13929
18	CINAHL PERINATAL CARE/	3457

19	CINAHL	exp MIDWIFERY/	17966
20	CINAHL	exp MIDWIFERY SERVICE/	1612
21	CINAHL	exp MIDWIVES/	12393
22	CINAHL	MIDWIFE ATTITUDES/	1573
23	CINAHL	OBSTETRIC CARE/	6116
24	CINAHL	OBSTETRICS/	4533
25	CINAHL	OBSTETRIC NURSING/ OR OBSTETRIC PATIENTS/ OR OBSTETRIC SERVICE/	4718
26	CINAHL	(pregnan*).ti,ab	107234
27	CINAHL	(ante natal* OR ante-natal* OR antenatal* OR pre natal* OR pre-natal* OR prenatal* OR peri natal* OR peri-natal* OR perinatal*).ti,ab	48022
28	CINAHL	(maternity* OR maternal* OR obstetric* OR midwif* OR midwiv*).ti,ab	107993
29	CINAHL	(13 OR 14 OR 15 OR 16 OR 17 OR 18 OR 19 OR 20 OR 21 OR 22 OR 23 OR 24 OR 25 OR 26 OR 27 OR 28)	285374
30	CINAHL	12 and 29	9275
31	CINAHL	"SMOKING CESSATION IN PREGNANCY"/	444
32	CINAHL	(30 OR 31)	9275
33	CINAHL	REWARD/	3728
34	CINAHL	MOTIVATION/	32268
35	CINAHL	"HEALTH PROMOTION"/ec	910
36	CINAHL	"REINFORCEMENT (PSYCHOLOGY)"/	3247
37	CINAHL	"REIMBURSEMENT, INCENTIVE"/	1945
38	CINAHL	"FINANCIAL MANAGEMENT"/	11909
39	CINAHL	"CONTINGENCY MANAGEMENT"/	298

40	CINAHL	(incentive* OR incentiviz* OR incentivis* OR reward* OR prize* OR voucher* OR competition* OR contest* OR lottery* OR raffle* OR gift* OR inducement* OR motivat* OR cash* OR money* OR monetar* OR financ* OR token* OR reinforcement* OR awards*).ti,ab	143664
41	CINAHL	(deposit* ADJ3 (contract* OR contingency* OR contingent* OR conditional* OR return* OR pay* OR repay* OR reimburs* OR retain* OR forfeit* OR keep* OR save* OR saving* OR system* OR scheme* OR program* OR initiative* OR intervention*).ti,ab	174
42	CINAHL	((pay* OR repay* OR reimburs*) ADJ3 (contract* OR contingency* OR contingent* OR conditional* OR forfeit* OR system* OR scheme* OR program* OR initiative* OR intervention*).ti,ab	6143
43	CINAHL	(33 OR 34 OR 35 OR 36 OR 37 OR 38 OR 39 OR 40 OR 41 OR 42)	176125
44	CINAHL	(32 AND 43)	434
45	CINAHL	32 AND 43 [Languages eng]	428
46	CINAHL	(32 and 43) [DT 1998-2019] [Languages eng]	414

18.3.5 Database name: EmbaseDatabase(s): **Embase** 1974 to 2019 April 12

Search Strategy:

#	Searches	Results
1	"tobacco use"/	8232
2	tobacco consumption/	2072
3	tobacco/	42730
4	tobacco dependence/	19041
5	"smoking and smoking related phenomena"/	183
6	smoking/	281707
7	cigar smoking/	104
8	cigarette smoking/	52136
9	bidi smoking/	122
10	exp pipe smoking/	198
11	parental smoking/	1137
12	adolescent smoking/	1694
13	smoking reduction/	102
14	smoking cessation/	54468
15	smoking cessation program/	3065
16	nicotine/	42551
17	exp smoking device/	5637
18	(smoking* or smoker* or antismok* or anti smok* or anti-smok*).ti,ab.	338432
19	(tobacco* or nicotin* or cigar* or cigs).ti,ab.	239521
20	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).ti,ab.	817

21	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).ti,ab.	2388
22	or/1-21	574072
23	exp pregnancy/	625736
24	exp pregnancy complication/	113428
25	pregnant woman/	68501
26	maternal health service/	1120
27	obstetric procedure/	2472
28	exp prenatal care/	140554
29	exp perinatal care/	54201
30	midwife/	23788
31	obstetrics/	33324
32	obstetrical nursing/	2407
33	nurse midwifery/	76
34	pregnan*.ti,ab.	585173
35	(ante natal* or ante-natal* or antenatal* or pre natal* or pre-natal* or prenatal* or perinatal* or peri-natal* or perinatal*).ti,ab.	233121
36	(maternity* or maternal* or obstetric* or midwif* or midwiv*).ti,ab.	422963
37	or/23-36	1175080
38	22 and 37	36705
39	maternal smoking/	6041
40	38 or 39	38456
41	reward/	34503
42	motivation/	93767

43	behavioral economics/	822
44	Reinforcement/	34015
45	reimbursement/	52995
46	"awards and prizes"/	22569
47	competition/	19027
48	finance/	11482
49	financial management/	109679
50	money/	9979
51	(incentive* or incentiviz* or incentivis* or reward* or prize* or voucher* or competition* or contest* or lotter* or raffle* or gift* or inducement* or motivat* or cash* or money* or monetar* or financ* or token* or reinforcement* or awards*).ti,ab.	511681
52	(deposit* adj3 (contract* or contingency* or contingent* or conditional* or return* or pay* or repay* or reimburs* or retain* or forfeit* or keep* or save* or saving* or system* or scheme* or program* or initiative* or intervention*).ti,ab.	2481
53	((pay* or repay* or reimburs*) adj3 (contract* or contingency* or contingent* or conditional* or forfeit* or system* or scheme* or program* or initiative* or intervention*).ti,ab.	13193
54	or/41-53	727678
55	40 and 54	1280
56	nonhuman/ not (human/ and nonhuman/)	4346898
57	55 not 56	1233
58	(letter or editorial).pt.	1652980
59	57 not 58	1204
60	(conference abstract or conference paper or conference proceeding or "conference review").pt.	4126111
61	59 not 60	953

62	limit 61 to medline	249
63	61 not 62	704
64	limit 63 to english language	652
65	limit 64 to yr="1998 -Current"	589

18.3.6 Database name: Health Management Information Consortium (HMIC)

Database(s): **HMIC Health Management Information Consortium** 1979 to January 2019

Search Strategy:

#	Searches	Results
1	(smoking* or smoker* or antismok* or anti smok* or anti-smok* or exsmoker* or ex-smoker* or "ex smoker*").ti,ab.	7531
2	(smoking* or smoker* or antismok* or anti smok* or anti-smok* or exsmoker* or ex-smoker* or "ex smoker*").hw.	5418
3	(tobacco* or nicotin* or cigar* or cigs).ti,ab.	3691
4	(tobacco* or nicotin* or cigar* or cigs*).hw.	1679
5	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).ti,ab.	12
6	(bidi or bidis* or beedi or beedis* or kretek* or hand roll* or handroll* or rollies).hw.	1
7	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).ti,ab.	13
8	(waterpipe* or water pipe* or dokha or dokhas* or hookah or hookahs* or hooka or hookas* or shisha or shishas* or sheesha or sheeshas*).hw.	0
9	or/1-8	9465
10	pregnan*.ti,ab.	4454
11	pregnan*.hw.	3394
12	(ante natal* or ante-natal* or antenatal* or pre natal* or pre-natal* or prenatal* or peri natal* or peri-natal* or perinatal*).ti,ab.	2726
13	(ante natal* or ante-natal* or antenatal* or pre natal* or pre-natal* or prenatal* or peri natal* or peri-natal* or perinatal*).hw.	1343
14	(maternity* or maternal* or obstetric* or midwif* or midwiv*).ti,ab.	9174
15	(maternity* or maternal* or obstetric* or midwif* or midwiv*).hw.	6160
16	or/10-15	14606
17	9 and 16	806

18	(incentive* or incentiviz* or incentivis* or reward* or prize* or voucher* or competition* or contest* or lotter* or raffle* or gift* or inducement* or motivat* or cash* or money* or monetar* or financ* or token* or reinforcement* or awards*).ti,ab.	26883
19	(incentive* or incentiviz* or incentivis* or reward* or prize* or voucher* or competition* or contest* or lotter* or raffle* or gift* or inducement* or motivat* or cash* or money* or monetar* or financ* or token* or reinforcement* or awards*).hw.	19938
20	(deposit* adj3 (contract* or contingency* or contingent* or conditional* or return* or pay* or repay* or reimburs* or retain* or forfeit* or keep* or save* or saving* or system* or scheme* or program* or initiative* or intervention*)).ti,ab.	9
21	(deposit* and (contract* or contingency* or contingent* or conditional* or return* or pay* or repay* or reimburs* or retain* or forfeit* or keep* or save* or saving* or system* or scheme* or program* or initiative* or intervention*)).hw.	0
22	((pay* or repay* or reimburs*) adj3 (contract* or contingency* or contingent* or conditional* or forfeit* or system* or scheme* or program* or initiative* or intervention*)).ti,ab.	1484
23	((pay* or repay* or reimburs*) and (contract* or contingency* or contingent* or conditional* or forfeit* or system* or scheme* or program* or initiative* or intervention*)).hw.	955
24	or/18-23	40086
25	17 and 24	52
26	limit 25 to yr="1998 -Current"	50

18.3.7 Database name: MEDLINEDatabase(s): **Ovid MEDLINE(R)** 1946 to April 12, 2019

Search Strategy:

#	Searches	Results
1	exp "tobacco use"/	2436
2	tobacco/	29440
3	"tobacco use disorder"/	10619
4	"tobacco use cessation"/	1064
5	"tobacco use cessation devices"/	1557
6	smoking/	135389
7	exp Pipe smoking/	87
8	smoking reduction/	23
9	"smoking cessation"/	26605
10	Smoking cessation agents/	32
11	nicotine/	24530
12	Smokers/	722
13	Ex-smokers/	13
14	exp Smoking Devices/	8351
15	(smoking* or smoker* or antismok* or anti smok* or anti-smok* or exsmoker* or ex-smoker* or "ex smoker*").ti,ab.	207251
16	(tobacco* or nicotin* or cigar* or cigs).ti,ab.	182809
17	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).ti,ab.	484
18	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).ti,ab.	1485
19	or/1-18	357695
20	exp Pregnancy/	858439

21	exp Pregnancy complications/	407712
22	Pregnant Women/	7377
23	exp Maternal Health Services/	45691
24	Midwifery/	18498
25	obstetrics/	21717
26	obstetric nursing/	2951
27	nurse midwives/	6951
28	pregnan*.ti,ab.	429409
29	(ante natal* or ante-natal* or antenatal* or pre natal* or pre-natal* or prenatal* or peri natal* or peri-natal* or perinatal*).ti,ab.	163299
30	(maternity* or maternal* or obstetric* or midwif* or midwiv*).ti,ab.	301268
31	or/20-30	1094593
32	19 and 31	24294
33	reward/	18782
34	motivation/	62683
35	health promotion/ec	2673
36	token economy/	922
37	reinforcement, social/	1042
38	Reimbursement, Incentive/	4148
39	"awards and prizes"/	16301
40	financial management/	16333
41	(incentive* or incentiviz* or incentivis* or reward* or prize* or voucher* or competition* or contest* or lotter* or raffle* or gift* or inducement* or motivat* or cash* or money* or monetar* or financ* or token* or reinforcement* or awards*).ti,ab.	359789

42	(deposit* adj3 (contract* or contingency* or contingent* or conditional* or return* or pay* or repay* or reimburs* or retain* or forfeit* or keep* or save* or saving* or system* or scheme* or program* or initiative* or intervention*)).ti,ab.	1512
43	((pay* or repay* or reimburs*) adj3 (contract* or contingency* or contingent* or conditional* or forfeit* or system* or scheme* or program* or initiative* or intervention*)).ti,ab.	9106
44	or/33-43	428474
45	32 and 44	781
46	Animals/ not (Animals/ and Humans/)	4536484
47	45 not 46	741
48	limit 47 to (letter or historical article or comment or editorial or news or case reports)	20
49	47 not 48	721
50	limit 49 to english language	663
51	limit 50 to yr="1998 -Current"	558

18.3.8 Database name: MEDLINE-in-Process (including Epub Ahead-of-Print)

Database(s): **Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations** 1946 to April 12, 2019, **Ovid MEDLINE(R) Daily Update** April 12, 2019

Search Strategy:

#	Searches	Results
1	(smoking* or smoker* or antismok* or anti smok* or anti-smok* or exsmoker* or ex-smoker* or "ex smoker*").ti,ab.	21335
2	(tobacco* or nicotin* or cigar* or cigs).ti,ab.	19019
3	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).ti,ab.	83
4	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).ti,ab.	425
5	or/1-4	33694
6	pregnan*.ti,ab.	35544
7	(ante natal* or ante-natal* or antenatal* or pre natal* or pre-natal* or prenatal* or peri natal* or peri-natal* or perinatal*).ti,ab.	14172
8	(maternity* or maternal* or obstetric* or midwif* or midwiv*).ti,ab.	30533
9	or/6-8	60277
10	5 and 9	1595
11	(incentive* or incentiviz* or incentivis* or reward* or prize* or voucher* or competition* or contest* or lotter* or raffle* or gift* or inducement* or motivat* or cash* or money* or monetar* or financ* or token* or reinforcement* or awards*).ti,ab.	60535
12	(deposit* adj3 (contract* or contingency* or contingent* or conditional* or return* or pay* or repay* or reimburs* or retain* or forfeit* or keep* or save* or saving* or system* or scheme* or program* or initiative* or intervention*).ti,ab.	566
13	((pay* or repay* or reimburs*) adj3 (contract* or contingency* or contingent* or conditional* or forfeit* or system* or scheme* or program* or initiative* or intervention*).ti,ab.	919
14	or/11-13	61716

15	10 and 14	78
16	limit 15 to english language	77
17	limit 16 to yr="1998 -Current"	77

18.3.9 Database name: PsycINFODatabase(s): **PsycINFO** 1806 to April Week 2 2019

Search Strategy:

#	Searches	Results
1	tobacco smoking/	29571
2	smoking cessation/	12398
3	nicotine/	10600
4	(smoking* or smoker* or antismok* or anti smok* or anti-smok* or exsmoker* or ex-smoker* or "ex smoker*").ti,ab.	48433
5	(tobacco* or nicotin* or cigar* or cigs).ti,ab.	45009
6	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).ti,ab.	87
7	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).ti,ab.	574
8	or/1-7	68373
9	exp pregnancy/	23678
10	midwifery/	1250
11	obstetrics/	1129
12	prenatal care/	1720
13	perinatal period/	2513
14	pregnan*.ti,ab.	43499
15	(ante natal* or ante-natal* or antenatal* or pre natal* or pre-natal* or prenatal* or perinatal* or peri-natal* or perinatal*).ti,ab.	28899
16	(maternity* or maternal* or obstetric* or midwif* or midwiv*).ti,ab.	60657
17	or/9-16	106114
18	8 and 17	4645
19	exp Rewards/	14539

20	Reward Allocation/	319
21	Incentives/	4258
22	Monetary Incentives/	1396
23	Motivation/	49808
24	Contingency Management/	2159
25	Token Economy Programs/	790
26	Reinforcement/	12661
27	Social Reinforcement/	1532
28	"Awards (Merit)"/	2505
29	Competition/	12426
30	finance/	4100
31	money/	4383
32	Financial Literacy/	288
33	(incentive* or incentiviz* or incentivis* or reward* or prize* or voucher* or competition* or contest* or lotter* or raffle* or gift* or inducement* or motivat* or cash* or money* or monetar* or financ* or token* or reinforcement* or awards*).ti,ab.	361178
34	(deposit* adj3 (contract* or contingency* or contingent* or conditional* or return* or pay* or repay* or reimburs* or retain* or forfeit* or keep* or save* or saving* or system* or scheme* or program* or initiative* or intervention*)).ti,ab.	107
35	((pay* or repay* or reimburs*) adj3 (contract* or contingency* or contingent* or conditional* or forfeit* or system* or scheme* or program* or initiative* or intervention*)).ti,ab.	2461
36	or/19-35	384312
37	18 and 36	378
38	limit 37 to ("column/opinion" or editorial or letter)	5
39	37 not 38	373

40	limit 39 to animal	29
41	39 not 40	344
42	limit 41 to english language	327
43	limit 42 to yr="1998 -Current"	305

18.3.10 Database name: Social Policy and Practice (SPP)Database(s): **Social Policy and Practice** 201901

Search Strategy:

#	Searches	Results
1	(smoking* or smoker* or antismok* or anti smok* or anti-smok* or exsmoker* or ex-smoker* or "ex smoker*").ti,ab.	1387
2	(smoking* or smoker* or antismok* or anti smok* or anti-smok* or exsmoker* or ex-smoker* or "ex smoker*").hw.	1027
3	(tobacco* or nicotin* or cigar* or cigs).ti,ab.	650
4	(tobacco* or nicotin* or cigar* or cigs*).hw.	246
5	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).ti,ab.	0
6	(bidi or bidis* or beedi or beedis* or kretek* or hand roll* or handroll* or rollies).hw.	0
7	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).ti,ab.	5
8	(waterpipe* or water pipe* or dokha or dokhas* or hookah or hookahs* or hooka or hookas* or shisha or shishas* or sheesha or sheeshas*).hw.	4
9	or/1-8	1931
10	pregnan*.ti,ab.	1860
11	pregnan*.hw.	1663
12	(ante natal* or ante-natal* or antenatal* or pre natal* or pre-natal* or prenatal* or peri natal* or peri-natal* or perinatal*).ti,ab.	706
13	(ante natal* or ante-natal* or antenatal* or pre natal* or pre-natal* or prenatal* or peri natal* or peri-natal* or perinatal*).hw.	132
14	(maternity* or maternal* or obstetric* or midwif* or midwiv*).ti,ab.	2275
15	(maternity* or maternal* or obstetric* or midwif* or midwiv*).hw.	492
16	or/10-15	4734
17	9 and 16	183

18	(incentive* or incentiviz* or incentivis* or reward* or prize* or voucher* or competition* or contest* or lotter* or raffle* or gift* or inducement* or motivat* or cash* or money* or monetar* or financ* or token* or reinforcement* or awards*).ti,ab.	29590
19	(incentive* or incentiviz* or incentivis* or reward* or prize* or voucher* or competition* or contest* or lotter* or raffle* or gift* or inducement* or motivat* or cash* or money* or monetar* or financ* or token* or reinforcement* or awards*).hw.	20045
20	(deposit* adj3 (contract* or contingency* or contingent* or conditional* or return* or pay* or repay* or reimburs* or retain* or forfeit* or keep* or save* or saving* or system* or scheme* or program* or initiative* or intervention*)).ti,ab.	77
21	(deposit* and (contract* or contingency* or contingent* or conditional* or return* or pay* or repay* or reimburs* or retain* or forfeit* or keep* or save* or saving* or system* or scheme* or program* or initiative* or intervention*)).hw.	15
22	((pay* or repay* or reimburs*) adj3 (contract* or contingency* or contingent* or conditional* or forfeit* or system* or scheme* or program* or initiative* or intervention*)).ti,ab.	564
23	((pay* or repay* or reimburs*) and (contract* or contingency* or contingent* or conditional* or forfeit* or system* or scheme* or program* or initiative* or intervention*)).hw.	250
24	or/18-23	40431
25	17 and 24	11
26	limit 25 to yr="1998 -Current"	11

18.4 Supplementary search techniques

18.4.1 Surveillance includes

The following papers were identified during the surveillance searches for this topic and added to the EndNote file.

Tappin D, Bauld L, Purves D, Boyd K, Sinclair L, et al; Cessation in Pregnancy Incentives Trial Team. Financial incentives for smoking cessation in pregnancy: randomised controlled trial. *BMJ*. 2015 Jan 27;350:h134.

18.4.2 Scoping searches

The following papers were identified during the scoping searches for this topic and added to the EndNote file.

Bauld L and Sinclair L (2015). Rewarding smoking cessation in pregnancy - will women cheat to gain incentives? *Addiction*, 110(4): 689-690.

Berlin N, Goldzahl L, Bauld L, Hoddinott P and Berlin I (2017 Online). Public acceptability of financial incentives to reward pregnant smokers who quit smoking: a United Kingdom-France comparison. *The European Journal of Health Economics*, online 23rd June.

Boyd KA, Briggs AH, Bauld L, Sinclair L and Tappin D (2016). Are financial incentives cost-effective to support smoking cessation during pregnancy? *Addiction*, 111(2): 360-370.

The following Cochrane Review was identified during scoping and added to the search results in EndNote.

Cahill K et al. (2015) Incentives for smoking cessation. *Cochrane Database of Systematic Reviews*, Issue 5. Art. No.: CD004307.

Reference harvesting was done on the Cahill review.

9 of the included studies relate to pregnancy

Donatelle, 2000a

Donatelle, 2000b

Donatelle, 2002

Heil, 2008

Higgins, 2004

Higgins, 2014

Ondersma, 2012

Tappin, 2015

Tuten, 2012

Extracted the following 17 papers relating to these 9 trials that were relevant to this protocol.

Donatelle RJ, Hudson D, Dobie S, Goodall A, Hunsberger M, Oswald K. Incentives in smoking cessation: status of the field and implications for research and practice with pregnant smokers. *Nicotine & Tobacco Research* 2004;6(Suppl 2):S163-79.

Donatelle RJ, Prows SL, Champeau D, Hudson D. Randomised controlled trial using social support and financial incentives for high risk pregnant smokers: Significant Other Support (SOS) program. *Tobacco Control* 2000;9(Supplement III):iii67-iii69.

Heil SH, Higgins ST, Bernstein IM, Solomon LJ, Rogers RE, Thomas CS, et al. Effects of voucher-based incentives on abstinence from cigarette smoking and fetal growth among pregnant women. *Addiction* 2008;103(6):1009-18.

Heil SH, Tidey JW, Holmes HW, Badger GJ, Higgins ST. A contingent payment model of smoking cessation: effects on abstinence and withdrawal. *Nicotine & Tobacco Research* 2003;5(2):205-13.

Higgins ST, Bernstein IM, Washio Y, Heil SH, Badger GJ, Skelly JM, et al. Effects of smoking cessation with voucher-based contingency management on birth outcomes. *Addiction* 2010;105(11):2023-30.

Higgins ST, Heil SH, Badger GJ, Mongeon JA, Solomon LJ, McHale L, et al. Biochemical verification of smoking status in pregnant and recently postpartum women. *Experimental and Clinical Psychopharmacology* 2007;15(1):58-66.

Higgins ST, Heil SH, Solomon LJ, Bernstein IM, Lussier JP, Abel RL, et al. A pilot study on voucher-based incentives to promote abstinence from cigarette smoking during pregnancy and postpartum. *Nicotine & Tobacco Research* 2004;6(6):1015-20.

Higgins ST, Heil SH, Badger GJ, Skelly JM, Solomon LJ, Bernstein IM. Educational disadvantage and cigarette smoking during pregnancy. *Drug & Alcohol Dependence* 2009;104 Suppl 1:s100-5.

Higgins ST, Heil SH, Dumeer AM, Thomas CS, Solomon LJ, Bernstein IM. Smoking status in the initial weeks of quitting as a predictor of smoking-cessation outcomes in pregnant women. *Drug and Alcohol Dependence* 2006;85(2):138-41.

Higgins ST, Washio Y, Lopez AA, Heil SH, Solomon LJ, Lynch ME, et al. Examining two different schedules of financial incentives for smoking cessation among pregnant women. *Preventive Medicine* 2014;pii: S0091-7435(14):00118-2

Jones C, Gaalema D, Shephard DS, Erten M, Stoeckel M, Day S, et al. Incentive-based treatments to promote smoking abstinence during pregnancy: findings from the Vermont Center on Behavior and Health. *Value in Health* 2014;17(3):A217.

Linares Scott TJ, Heil SH, Higgins ST, Badger GJ, Bernstein IM. Depressive symptoms predict smoking status among pregnant women. *Addictive Behaviors* 2009;34(8):705-8

Solomon LJ, Higgins ST, Heil SH, Badger GJ, Thomas CS, Bernstein IM. Predictors of postpartum relapse to smoking. *Drug and Alcohol Dependence* 2007;90(2-3):224-7.

Ondersma SJ, Chase SK, Svikis DS, Schuster CR. Computer-based motivational intervention for perinatal drug use. *Journal of Substance Abuse Treatment* 2005;28(4):305-12.

Ondersma SJ, Svikis DS, Lam PK, Connors-Burge VS, Ledgerwood DM, Hopper JA. A randomized trial of computer-delivered brief intervention and low-intensity contingency management for smoking during pregnancy. *Nicotine & Tobacco Research* 2012;14(3):351-60

Tuten M, Fitzsimona H, Chisolm MS, Nuzzo PA, Jones HE. Contingent incentives reduce cigarette smoking among pregnant, methadone-maintained women: results of an initial feasibility and efficacy randomized clinical trial. *Addiction* 2012;107(10):1868-77.

Yoon JH, Higgins ST, Heil SH, Sugarbaker RJ, Thomas CS, Badger GJ. Delay discounting predicts postpartum relapse to cigarette smoking among pregnant women. *Experimental and Clinical Psychopharmacology* 2007;15(2):176-86.

18.4.3 Includes from PH26

Studies included in the evidence reviews for PH26 which support the recommendations that are being updated and potentially meet the criteria for the current review will be added to the search results. The relevant evidence is contained in Evidence Statement ER1.2 (found here).

PH26 included one review which included four studies on incentives during pregnancy. These 5 papers were considered for inclusion in this new review.

Donatelle RJ, Prows SL, Champeau D, Hudson D, Donatelle RJ, Prows SL et al. (2000) Randomised controlled trial using social support and financial incentives for high risk pregnant smokers: significant other supporter (SOS) program. *Tobacco Control*, 9 Suppl 3:III67-III69. Include

Heil SH, Higgins ST, Bernstein IM, Solomon LJ, Rogers RE, Thomas CS et al (2008) Effects of voucher-based incentives on abstinence from cigarette smoking and fetal growth among pregnant women. *Addiction*, 103(6):1009-1018 Include

Higgins ST, Heil SH, Solomon LJ, Bernstein IM, Lussier JP, Abel RL et al (2004) A pilot study on voucher-based incentives to promote abstinence from cigarette smoking during pregnancy and postpartum. *Nicotine & Tobacco Research*, 6(6):1015-1020. Include

Lumley J, Chamberlain C, Dowswell T, Oliver S, Oakley L, Watson L. (2009) Interventions for promoting smoking cessation during pregnancy.[update of *Cochrane Database Syst Rev*, 4):CD001055; PMID: 15495004]. [Review] [301 refs]. *Cochrane Database of Systematic Reviews*, (3):CD001055. This has been replaced by the Cahill Cochrane review.

Sexton M, Hebel JR, Sexton M, Hebel JR (1984) A clinical trial of change in maternal smoking and its effect on birth weight. *JAMA*, 251(7):911-915. We are not looking at pre-1998 studies.

Total added to search results = 3

18.4.4 Web of Science – for Forward Citation Searching and Reference Harvesting

The following 10 papers were prioritised from the surveillance and scoping searches to be used for forward citation searching and reference harvesting in Web of Science. Only those references that could be accessed through the NICE subscription to WOS were added to the search results. This used Web of Science Core Collection (1990-present). Duplicates were removed from the marked list in WOS before downloading the results. Pre-1998 papers were deleted manually from the marked list.

Bauld L and Sinclair L (2015). Rewarding smoking cessation in pregnancy - will women cheat to gain incentives? *Addiction*, 110(4): 689-690.

Berlin N, Goldzahl L, Bauld L, Hoddinott P and Berlin I (2017 Online). Public acceptability of financial incentives to reward pregnant smokers who quit smoking: a United Kingdom-France comparison. *The European Journal of Health Economics*.

Boyd KA, Briggs AH, Bauld L, Sinclair L and Tappin D (2016). Are financial incentives cost-effective to support smoking cessation during pregnancy? *Addiction*, 111(2):.

Cahill K et al. (2015) Incentives for smoking cessation. *Cochrane Database of Systematic Reviews*, {forwards only, did not do reference harvesting because I had already picked out the relevant ones to compile this list}

Donatelle RJ, Prows SL, Champeau D, Hudson D, Donatelle RJ, Prows SL et al. (2000) Randomised controlled trial using social support and financial incentives for high risk pregnant smokers: significant other supporter (SOS) program. *Tobacco Control*, 9 Suppl 3:III67-III69.

Heil SH, Higgins ST, Bernstein IM, Solomon LJ, Rogers RE, Thomas CS, et al. Effects of voucher-based incentives on abstinence from cigarette smoking and fetal growth among pregnant women. *Addiction* 2008;103(6):1009-18.

Higgins ST, Heil SH, Solomon LJ, Bernstein IM, Lussier JP, Abel RL, et al. A pilot study on voucher-based incentives to promote abstinence from cigarette smoking during pregnancy and postpartum. *Nicotine & Tobacco Research* 2004;6(6):1015-20.

Higgins ST, Washio Y, Lopez AA, Heil SH, Solomon LJ, Lynch ME, et al. Examining two different schedules of financial incentives for smoking cessation among pregnant women. *Preventive Medicine* 2014;pii: S0091-7435(14):00118-2

Jones C, et al. Incentive-based treatments to promote smoking abstinence during pregnancy: findings from the Vermont Center on Behavior and Health. *Value in Health* 2014;17(3):A217.

Tappin D, Bauld L, Purves D, Boyd K, Sinclair L, et al; Cessation in Pregnancy Incentives Trial Team. Financial incentives for smoking cessation in pregnancy: randomised controlled trial. *BMJ*. 2015 Jan 27;350:h134.

Total added to marked list = 414 citations

Total available for download = 404

Removed published before 1998 = 19

Total downloaded = 385

Science Citation Index Expanded (SCI-EXPANDED) --1990-present

Social Sciences Citation Index (SSCI) --1990-present

Arts & Humanities Citation Index (A&HCI) --1990-present

Emerging Sources Citation Index (ESCI) --2015-present

18.5 Web searching

18.5.1 Search engines

Search engine	
Name	Health Services/Technology Assessment Texts (HSTAT)
URL	https://www.ncbi.nlm.nih.gov/books/NBK16710
Date searched	24 April 2019
Search terms	<p>#1 (((((tobacco[MeSH Terms]) OR tobacco use[MeSH Terms]) OR smoking[MeSH Terms]) OR smoking cessation[MeSH Terms]) OR smoking prevention[MeSH Terms]) 2520</p> <p>#2 ((smoking[Title]) OR cigarette[Title]) OR tobacco[Title] 2314</p> <p>#3 (#1 OR #2) 3850</p> <p>#4 hstatcollect[filter] 38193</p> <p>#5 #3 AND #4 1189</p> <p>Results: 1 to 20 of 27 books (1189 items)</p>
How the results were selected	Only selected documents if the title or abstract were directly relevant to the questions.
Results	<p>Agency for Healthcare Research and Quality (US) (2014) Smoking interventions in pregnancy and postpartum care</p> <p>Objective:</p> <p>The Vanderbilt Evidence-based Practice Center systematically reviewed evidence about smoking cessation interventions in pregnant and postpartum women.</p> <p>Data sources:</p> <p>We searched MEDLINE®, CINAHL®, and PsycINFO® for randomized controlled trials (RCTs) on interventions and prospective studies on patient characteristics published in English.</p> <p>Review methods:</p> <p>We dually reviewed abstracts and full texts. Studies were excluded if they did not address a Key Question, were not an eligible study design, or did not report biochemically validated smoking cessation outcomes. Data were extracted into evidence tables and summarized qualitatively. A meta-analysis of effectiveness data assessed relative impact of components in smoking cessation interventions.</p> <p>Results:</p>

	<p>We included 59 unique studies reported in 72 publications. Of the 56 RCTs, 13 were good, 15 fair, and 28 poor quality. Studies evaluated counseling-based interventions, educational materials, nicotine replacement therapy (NRT), peer support, multicomponent interventions, and other unique interventions. Multicomponent approaches were most likely to be effective, but results were inconsistent. In the meta-analysis, incentives demonstrated the strongest effect; other components with a greater than 80-percent likelihood of success were feedback about biologic measures, information, personal followup, NRT, and quit guides. Findings regarding infant outcomes were inconsistent or did not reach statistical significance. No serious harms were identified in four studies that reported adverse events.</p> <p>Conclusions:</p> <p>Across interventions, data are sparse to evaluate sustained cessation among pregnant and postpartum women. This review suggests that approaches that combine multiple components will have the best likelihood of success. Selecting which components to include is more complex and should be based on the particular considerations of the clinical setting, including patient characteristics and resource allocation, but incentives demonstrated the greatest effect among components studied. Infant outcomes are limited to data collected at time of birth; no studies assessed longer term or child outcomes. Harms data were rarely reported.</p> <p>https://www.ncbi.nlm.nih.gov/books/NBK190501/</p> <p>Discussion of incentives here https://www.ncbi.nlm.nih.gov/books/NBK190506/#results.s65</p> <p>Agency for Healthcare Research and Quality (US) (2015) Behavioral Counseling and Pharmacotherapy Interventions for Tobacco Cessation in Adults, Including Pregnant Women. A Review of Reviews for the U.S. Preventive Services Task Force</p> <p>Background:</p> <p>Tobacco use is the leading preventable cause of disease, disability, and death in the United States. Interventions to help adults quit smoking might stop or reduce tobacco-related illness.</p> <p>Purpose:</p> <p>To systematically review evidence for the effectiveness and safety of pharmacotherapy and behavioral tobacco cessation interventions among adults, including pregnant women and those with mental health conditions, and to conduct a de novo search for primary evidence related to electronic nicotine delivery systems for adults.</p> <p>Methods:</p>
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We conducted a review of reviews and searched for existing systematic reviews published through August 1, 2014 in the following databases and organizations' websites: PubMed, PsycInfo, the Database of Abstracts of Reviews of Effects, the Cochrane Database of Systematic Reviews, the Centre for Reviews and Dissemination Health Technology Assessment, the Agency of Healthcare Research and Quality, British Medical Journal Clinical Evidence, the Canadian Agency for Drugs and Technologies in Health, Center for Disease Control and Prevention's Guide to Community Preventive Services, the Institute of Medicine, the National Institute for Health and Clinical Excellence, the National Health Service Health Technology Assessment Programme, and the Surgeon General. We included reviews that were published in the English language that systematically reported the effects of tobacco cessation interventions on health, cessation, or adverse outcomes. We excluded nonsystematic meta-analyses and narrative reviews and those that focused on harm reduction or relapse prevention. We conducted an a priori search for primary trial evidence related to the effectiveness and safety of electronic nicotine delivery systems (ENDS) (through March 1, 2015) and a search for pharmacotherapy among pregnant women (through August 15, 2014) to supplement the review of reviews methodology. Two investigators independently reviewed abstracts and full-text articles against a set of a priori inclusion and quality criteria. Discrepancies were resolved by consensus. One reviewer abstracted data into an evidence table and a second reviewer checked these data. We grouped reviews based on population (general adults, pregnant women, individuals with mental health conditions) and intervention (pharmacotherapy, behavioral, or combined interventions). We identified one or more reviews within each population and intervention subgroup that represented the most current and applicable evidence to serve as the basis for the main findings ("primary" reviews) and discussed complementary and discordant findings from other included reviews as necessary. We did not reanalyze any of the individual study evidence; we presented pooled analyses and existing point estimates from included reviews.

Results:

We included 54 systematic reviews, 22 of which served as the basis for the primary findings. Among adults, nine reviews addressed the efficacy and/or harms of nicotine replacement therapy (NRT), bupropion hydrochloride sustained release (bupropion SR), and/or varenicline. None of these reviews reported on health outcomes. All three medications were found to be effective in increasing smoking quit rates compared with placebo or nondrug arms at 6 or more months followup. The pooled risk ratio (RR) for abstinence for NRT was 1.60 (95% confidence interval [CI], 1.53 to 1.68); for bupropion SR, RR 1.62 (95% CI, 1.49 to 1.76); and for varenicline, 2.27 (95% CI, 2.02 to 2.55). Combined NRT versus a single form of NRT showed a statistically significantly greater cessation effect in pooled

	<p>analysis (RR 1.34 [95% CI, 1.18 to 1.51]). None of the drugs were associated with major cardiovascular adverse events, although NRT produced higher rates of all cardiovascular events (driven by minor events). One review on combined pharmacotherapy and behavioral interventions reported a relative increase in quitting by 82 percent versus nonpharmacotherapy usual care (RR 1.82 [95% CI, 1.66 to 2.00]). We included an additional 33 reviews that addressed behavioral tobacco cessation treatments among adults, including those that focused on specific subpopulations such as older adults. Compared with various controls, behavioral interventions such as in-person advice and support from clinicians, self-help materials, and telephone counseling had modest, but significantly increased, relative smoking cessation at 6 or more months (18% to 96%). For example, the pooled RR of physician advice versus no advice was 1.76 (95% CI, 1.58 to 1.96) for smoking cessation at 6 or more months followup. Only two trials addressed the efficacy and harms related to the use of electronic cigarettes and these trials suggested no benefit on smoking cessation among smokers intending to quit. We included eight reviews that focused on pregnant women that found significant benefits for perinatal health, including increased birth weight and reduced preterm birth. These benefits were evident with behavioral interventions, and suggested by data from some of the NRT trials, although that evidence was limited. Cessation during late pregnancy was greater among women receiving any type of behavioral intervention, with evidence most clear for counseling. Rates of validated cessation among women allocated to NRT (5% to 24%) compared with placebo (0% to 15%) were not statistically different, although few studies contributed data. Our reviews among individuals with depression or schizophrenia provided limited trial evidence on the efficacy of pharmacotherapy or behavioral interventions. There was, however, some evidence of a benefit for bupropion among those with schizophrenia and the addition of a mood management component to behavioral interventions for smokers with depression.</p> <p>Conclusions:</p> <p>This review of reviews suggests that behavioral interventions and pharmacotherapy, alone or in combination, are effective in helping to reduce rates of smoking among the general adult population. Behavioral interventions, in particular, can assist pregnant women to stop smoking. Data on the effectiveness and safety of electronic nicotine delivery systems are limited. Future research should focus on direct comparisons between different combinations and classes of drugs; the incidence of serious adverse events related to medications for cessation; the efficacy and safety of ENDS; and pharmacotherapies for pregnant women and those with mental health conditions including evidence on health outcomes.</p> <p>https://www.ncbi.nlm.nih.gov/books/NBK321744/</p>
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	<p>Discussion of incentives is here. Note this also covers safety and information relevant to RQ5.3.</p> <p>https://www.ncbi.nlm.nih.gov/books/NBK321748/#ch3.s34</p>
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Search engine	
Name	NICE Evidence Search
URL	https://www.evidence.nhs.uk
Date searched	24 April 2019
Search terms	<p>Smoking pregnancy</p> <p>Tobacco pregnancy</p> <p>Nicotine pregnancy</p> <p>Cigarettes pregnancy</p> <p>Vaping pregnancy</p> <p>“opt out” pregnancy</p> <p>“opt in” pregnancy</p> <p>Incentives pregnancy</p> <p>Smoking pregnant</p> <p>Tobacco pregnant</p> <p>Nicotine pregnant</p> <p>Cigarettes pregnant</p> <p>Vaping pregnant</p> <p>“opt out” pregnant</p> <p>“opt in” pregnant</p> <p>Incentives pregnant</p> <p>Smoking maternity</p> <p>Tobacco maternity</p> <p>Nicotine maternity</p>

	<p>Cigarettes maternity</p> <p>Vaping maternity</p> <p>“opt out” maternity</p> <p>“opt in” maternity</p> <p>Incentives maternity</p> <p>Smoking maternal</p> <p>Tobacco maternal</p> <p>Nicotine maternal</p> <p>Cigarettes maternal</p> <p>Vaping maternal</p> <p>“opt out” maternal</p> <p>“opt in” maternal</p> <p>Incentives maternal</p>
<p>How the results were selected</p>	<p>Only selected documents if the title or abstract were directly relevant to the questions. For each question, sorted by relevance and then reviewed all of the first 100 results then applied filters for 'guidance and policy' and 'practice based information' and reviewed 250 again, then removed filters and applied Area of Interest-Public Health and reviewed a further 250.</p> <p>Did not include</p> <p>NAO Maternity services in England https://www.nao.org.uk/wp-content/uploads/2013/11/10259-001-Maternity-Services-Book-1.pdf</p> <p>Did not include NCT advice on NRT or ecigs.</p> <p>https://www.nct.org.uk/pregnancy/food-and-nutrition/smoking-during-pregnancy</p> <p>Did not include</p> <p>PHRC Using qualitative research to inform interventions to reduce smoking in pregnancy in England: a systematic review of qualitative studies http://phrc.lshtm.ac.uk/project_2005-2011_a810.html</p> <p>Did not include</p>

	<p>PHE 2017 Guidance on smoking cessation in secondary care in acute settings: self-assessment tool https://www.gov.uk/government/publications/smoking-cessation-in-secondary-care-acute-and-maternity-settings</p>
<p>Results</p>	<p>Health Education England (2019) Maternity Workforce Strategy – Transforming the Maternity Workforce https://www.hee.nhs.uk/sites/default/files/document/MWS_Report_Web.pdf</p> <p>ISD Scotland (2018) Births in Scottish Hospitals - Year ending 31st March 2018 – Table 3 Maternal Smoking https://www.isdscotland.org/Health-Topics/Maternity-and-Births/Publications/data-tables2017.asp?id=2047%20-%202047</p> <p>Local Government Association (2018) Fit for and during pregnancy. A key role for local government</p> <ul style="list-style-type: none"> - See p15 Barking and Dagenham and Havering: introducing smoking screening for all pregnant women - See p28 Greater Manchester: offering shopping vouchers to get pregnant women to quit smoking - See p39 Rotherham Metropolitan Borough Council: getting pregnant women to stop smoking <p>https://www.local.gov.uk/sites/default/files/documents/15.52%20Fit%20for%20and%20during%20pregnancy_03.pdf</p> <p>NHS Digital (2019) Statistics on Women's Smoking Status at Time of Delivery, England - Quarter 3, 2018-19 10.5% of mothers were smokers at time of delivery. https://digital.nhs.uk/data-and-information/publications/statistical/statistics-on-women-s-smoking-status-at-time-of-delivery-england/statistics-on-womens-smoking-status-at-time-of-delivery-england-quarter-3-october-2018-to-december-2018</p> <p>NHS England (2016) National maternity review. Better births. Improving outcomes of maternity services in England. A five year forward view for maternity services https://www.england.nhs.uk/wp-content/uploads/2016/02/national-maternity-review-report.pdf</p> <p>NHS England (2019) Saving Babies' Lives. A care bundle for reducing stillbirths. Version 2</p>

	<p>It aims to provide detailed information for providers and commissioners of maternity care on how to reduce perinatal mortality across England.</p> <p>The first element is reducing smoking in pregnancy – p23 discusses referral.</p> <p>https://www.england.nhs.uk/publication/saving-babies-lives-version-two-a-care-bundle-for-reducing-perinatal-mortality/</p> <p>Public Health Research Consortium (2008) Estimating costs to the NHS of smoking in pregnancy for pregnant women and infants</p> <p>Costs to the NHS related to maternal increased risk of spontaneous abortion, ectopic pregnancy, placenta previa, abruptio placenta, preterm premature rupture of membranes and decreased risk of pre-eclampsia are estimated to be between £8-64 million per year based on different costing methodologies.</p> <p>Costs to the NHS related to infant (0-12 months) increased risk of preterm delivery, low birth weight, Sudden Infant Death Syndrome, perinatal mortality, asthma, otitis media, and upper and lower respiratory infections are estimated to be between £1223.5 million per year.</p> <p>Smoking cessation interventions for pregnant women have been shown to be effective in significantly increasing quitting rates. In this report, we estimate that spending between £13.60-£37.00 per pregnant smoker would yield positive cost savings for the NHS.</p> <p>http://phrc.lshtm.ac.uk/papers/PHRC_A3-06_Final_Report.pdf</p>
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18.5.2 Website browsing

Website	
Name	Action on Smoking and Health (ASH)
URL	http://ash.org.uk/home
Date searched	23 April 2019
Search terms (including any specific sections browsed)	Browsed briefings, reports, fact sheets, information.

Results	<p>ASH (2017) Smokefree skills: an assessment of maternity workforce training Seeks to identify the current barriers to full training of the maternity workforce to enable them to deliver NICE guidance on smoking in pregnancy and sets out recommendations for change.</p> <ul style="list-style-type: none"> - Opt out briefly mentioned p38 <p>http://ash.org.uk/wp-content/uploads/2017/07/Smokefree-skills-an-assessment-of-maternity-workforce-training.pdf</p> <p>Smoking in Pregnancy Challenge Group (2018) Review of the challenge Examines the progress that has been made towards the Government's target and outlines recommendations for the next steps.</p> <ul style="list-style-type: none"> - See p17 for incentives - See p8 and 18 for opt out referral - See p19 for nicotine. <p>http://ash.org.uk/download/2018-challenge-group-report-final/</p>
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Website	
Name	Local Government Association
URL	https://www.local.gov.uk
Date searched	23 April 2019
Search terms (including any specific sections browsed)	<p>Social care, health and integration https://www.local.gov.uk/publications?topic[2495]=2495</p> <p>Case studies https://www.local.gov.uk/case-studies</p> <p>Searched for tobacco, smoking, cigarettes, pregnant, pregnancy, maternal, maternity.</p> <p>Did not include general items on local govt services e.g. Fit for and during pregnancy: A key role for local government</p>
Results	None specific to this question.

Website	
Name	National Centre for Smoking Cessation and Training
URL	http://www.ncsct.co.uk
Date searched	23 April 2019
Search terms (including any specific sections browsed)	<p>Browsed sections on research briefings, clinical tools, research resources.</p> <p>The only relevant article was already in the 5.2 results.</p>

	[Lorenatto F, West R, Michie S (In Press) Identifying evidence-based behaviour change techniques to aid smoking cessation in pregnancy. <i>Nicotine & Tobacco Research</i> .]
Results	None specific to this question.

Website	
Name	Northern Ireland Assembly
URL	http://www.niassembly.gov.uk/
Date searched	23 April 2019
Search terms (including any specific sections browsed)	Browsed Research and Information Service, research publications and Committee for Health, Social Services and Public Safety.
Results	None specific to this question.

Website	
Name	Public Health England
URL	https://www.gov.uk/government/organisations/public-health-england
Date searched	24 April 2019
Search terms (including any specific sections browsed)	<p>Searched for tobacco, smoking, cigarettes, nicotine, nrt, pregnant, pregnancy, referral, opt out and incentives.</p> <p>https://www.gov.uk/government/organisations/latest?organisations%5B%5D=public-health-england</p> <p>Searched announcements for the same terms.</p> <p>https://www.gov.uk/government/announcements?departments%5B%5D=public-health-england</p> <p>Did not include guide that has an infographic on smoking in pregnancy.</p> <p>Health matters: stopping smoking - what works?</p> <p>https://www.gov.uk/government/publications/health-matters-stopping-smoking-what-works/health-matters-stopping-smoking-what-works</p>
Results	None specific to this question.

Website	
Name	Royal College of Midwives
URL	https://www.rcm.org.uk
Date searched	24 April 2019
Search terms (including any specific sections browsed)	<p>Browsed the list of publications and searched it for tobacco, cigarettes, nicotine, nrt, vaping, vape and incentives.</p> <p>Browsed the list of Resources.</p> <p>Searched the media releases but did not include ASH report already knew about.</p> <p>Did not include ecigs infographic</p> <p>https://www.rcm.org.uk/media/2350/e-cigarettes-in-pregnancy.pdf or comment https://www.rcm.org.uk/media-releases/2019/march/cuts-to-stop-smoking-services-fly-in-face-of-government-stillbirth-ambitions-says-rcm-on-new-report/</p>
Results	None specific to this question.

Website	
Name	Royal College of Nursing
URL	https://www.rcn.org.uk
Date searched	24 April 2019
Search terms (including any specific sections browsed)	<p>Searched main website and Publications for tobacco, cigarettes, nicotine, nrt, vaping, vape and incentives.</p> <p>Browsed the smoking page at</p> <p>https://www.rcn.org.uk/clinical-topics/public-health/smoking-cessation</p>
Results	None specific to this question.

Website	
Name	Royal College of Obstetricians and Gynaecologists
URL	https://www.rcog.org.uk
Date searched	24 April 2019
Search terms (including any specific)	NOTE: this source was added after completion of the protocol.

sections browsed)	Did not include patient leaflet https://www.rcog.org.uk/en/patients/patient-leaflets/smoking-and-pregnancy/
Results	None specific to this question.

Website	
Name	Royal College of Paediatrics and Child Health
URL	https://www.rcpch.ac.uk/
Date searched	23 April 2019
Search terms (including any specific sections browsed)	Browsed resources and key topics. Browsed https://www.rcpch.ac.uk/resources/subject-archives-guide-smoking https://www.rcpch.ac.uk/topic/smoking-tobacco Searched for smoking, tobacco and nicotine.
Results	None specific to this question.

Website	
Name	Royal College of Physicians
URL	https://www.rcplondon.ac.uk
Date searched	23 April 2019
Search terms (including any specific sections browsed)	Browsed the public health section https://www.rcplondon.ac.uk/projects/rcp-policy-public-health And also the tags smoking and tobacco https://www.rcplondon.ac.uk/search/topic/smoking-and-tobacco
Results	None specific to this question.

Website	
Name	Scottish Government
URL	https://www.gov.scot
Date searched	24 April 2019
Search terms (including any specific	Searched for tobacco, smoking, cigarettes, nicotine, nrt, pregnant, pregnancy, referral, opt out and incentives in Publications. https://beta.gov.scot/publications

sections browsed)	<p>Browsed the smoking pages</p> <p>https://www.gov.scot/Topics/Health/Services/Smoking</p> <p>https://www.gov.scot/policies/smoking/</p> <p>Also used</p> <p>https://www.scotpho.org.uk/behaviour/tobacco-use/key-points/</p>
Results	None specific to this question.

Website	
Name	Smoking Toolkit Study
URL	http://www.smokinginengland.info
Date searched	23 April 2019
Search terms (including any specific sections browsed)	Browsed reports, key publications, STS documents.
Results	None specific to this question.

Website	
Name	UK Centre for Tobacco and Alcohol Studies
URL	http://ukctas.net/index.html
Date searched	23 April 2019
Search terms (including any specific sections browsed)	Browsed What we do – policy, research, dissemination.
Results	None specific to this question.

Website	
Name	University of Bath Tobacco Control Research Group
URL	https://researchportal.bath.ac.uk/en/organisations/uk-centre-for-tobacco-control-studies

Date searched	23 April 2019
Search terms (including any specific sections browsed)	Browsed research outputs. Did not include papers already in EndNote e.g. Implementation of routine biochemical validation and an 'opt out' referral pathway for smoking cessation in pregnancy
Results	None specific to this question.

Website	
Name	University of Stirling Centre for Tobacco Control Research
URL	https://www.stir.ac.uk/about/faculties-and-services/health-sciences-sport/research/research-groups/centre-for-tobacco-control-research/publications
Date searched	24 April 2019
Search terms (including any specific sections browsed)	Browsed publications and projects – books, chapters and monographs. Checked articles against EndNote and they were already retrieved. There are a lot of relevant projects that we can list under ongoing trials but the articles published already are in our EndNote file.
Results	NHS Health Scotland (2008) Smoking cessation support in pregnancy in Scotland This study aimed to map and describe smoking cessation support for pregnant women, to provide examples of promising practice, to examine existing national monitoring data on smoking in pregnancy and to compare current practice with the existing guidelines. Note – Case study 2 on Dundee includes financial incentives see p35. Referral is covered a lot – opt out is mentioned on p56 http://www.healthscotland.com/uploads/documents/7580-Smoking%20in%20Pregnancy.pdf

Website	
Name	Welsh Government
URL	https://gov.wales/?lang=en
Date searched	24 April 2019

Search terms (including any specific sections browsed)	<p>Searched for tobacco, smoking, cigarettes, nicotine, pregnancy and pregnant.</p> <p>Browsed Health and Social Services topic.</p> <p>Browsed smoking https://gov.wales/smoking</p> <p>Browsed maternity and early years https://gov.wales/maternity-early-years</p> <p>Did not include</p> <p>A strategic vision for maternity services in Wales (2011) https://gov.wales/maternity-services-strategy</p>
Results	None specific to this question.

Website	
Name	World Health Organization Europe
URL	http://www.euro.who.int/en/health-topics/disease-prevention/tobacco
Date searched	24 April 2019
Search terms (including any specific sections browsed)	Browsed the tobacco publications and evidence briefs.
Results	None specific to this question.

18.6 Search narrative

The databases listed in the protocol are similar to the ones used in questions 1-3 but CINAHL and BNI were added to ensure coverage of the nursing and midwifery literature. To balance out the resources required, ASSIA was removed.

The search is structured with 3 concepts and there are separate questions for RQ5.1, RQ5.2 and RQ5.3. The testing was done with a joint search for 2 concepts (Smoking AND Pregnancy), which had around 24,000 hits on MEDLINE in November 2018. The alternative (Smoking and Incentives) had about 12,000 MEDLINE hits.

The population terms were amended from PH26 to make them relevant to this question. The same terms are used in these three questions. The protocol originally said "women immediately before or during pregnancy or following childbirth" and it now just says "women during pregnancy", so the search terms were focused. The population terms follow the protocol and focus on the behaviour of the mother and do not include potential harms to the baby, such as birth weight or foetal development.

The smoking terms are similar to the ones used in questions 1-3 but they have been adapted to make them relevant to this question. Non-smokers and smoking prevention were removed as this is a cessation question. Vaping and NRT are relevant to RQ5.3 and not to this question. Varenicline and bupropion were removed because these are not indicated during pregnancy. The strategy from 1-3 was also updated because in the 2019 MeSH update "tobacco use cessation products" was changed to "tobacco use cessation devices".

The search strategy was tested against the relevant papers included in the Cahill Cochrane review. There are 19 included papers in Cahill and the search finds 13 of these. One of the other six papers is not indexed on MEDLINE. The other five are not retrieved because they either do not include terms for pregnancy or for incentives and removing these sets would make the search results too high. The 6 missing papers were added to EndNote using WOS.

The papers from Cahill were added to the Yale MeSH Analyzer and this showed that the MeSH terms Reward, Motivation and Token Economy were required. The translations were checked by looking through the top results from a search for (incentive* adj2 smoking*).ti and checking what subject headings had been used.

Cahill K et al. (2015) Incentives for smoking cessation. Cochrane Database of Systematic Reviews, Issue 5. Art. No.: CD004307.

The QA questioned whether it was necessary to use adjacency with the term deposit. It was tested and the additional hits were not relevant, as they were about deposition of pollutants from smoke or fat deposits.

The strategy includes the word competition. The terms "compete* or competing" were tested but they were removed. They just brought back additional noise from abstracts that cited the authors' competing interests or discussed competing explanations.

The strategy includes the term inducement* but the truncation was not altered to also cover inducing or induces. Adding these terms at testing took the MEDLINE number from 550 to 1244 because of the noise from papers about e.g. inducing labour, as this is a pregnancy topic.

The search originally had a line for "token adj4 economy" to match the MeSH term. This had zero hits when the line was combined with smoking and pregnancy. The word token was then used on its own (which had three hits). The MeSH token economy maps to Reinforcement in Embase and then this maps back to Social Reinforcement in MeSH. Both terms and equivalent free text were therefore used throughout.

The MeSH term Reimbursement, Incentive/ was added to be consistent with using reimbursement/ in Embase, as this had been applied to one of the test papers. It's really a term about health insurance so not directly relevant. Similarly, the term "awards and prizes" is more high level than required but was retained.

The Embase and CINAHL strategies were translated with slightly different structures to accommodate the subject headings they have specific to mothers who smoke.

There were a few minor discrepancies in the BNI search because of the way HDAS works i.e. the free text for pre-natal and non-compliance could not be used because these are stop words.

Language limits are not available in BNI, HMIC or SPP. It was not practically possible to apply limits to exclude unwanted publication types on HDAS.

It was not possible to translate the MEDLINE term Health Promotion with a subheading of Economics into BNI and Embase. It was felt that Health Promotion alone was too broad. The Emtree term Behavioral Economics was used instead.

The HMIC and SPP strategies were structured to use the HW field for the subject headings, following recent testing that we are still writing up. The report to that project will recommend using HW instead of translating MeSH terms; using the same free text terms; and switching ADH to AND in the HW lines.

The Royal College of Obstetricians and Gynaecologists website was added after the protocol was completed as it was felt to be worth browsing. During the website searching documents were only selected if the title or abstract were directly relevant to the questions. Policy and background documents were not included in the main search results.

Consider adding “doulas” to any update searches as they are in 5.3 but note that covered childbirth and postpartum, whereas this question focussed on pregnancy.

19 Search for RQ5.3 (Effectiveness)

<p>Topic: Tobacco Portfolio</p> <p>Question details:</p> <p>To be answered by Cochrane:</p> <ul style="list-style-type: none"> 5.3a. Are nicotine replacement therapies (NRT) or e-cigarettes effective and cost effective at helping pregnant women who smoke to quit? <p>To be answered by Cochrane with SRs and RCTs:</p> <ul style="list-style-type: none"> 5.3b. Are NRT and e-cigarettes safe for helping pregnant women who smoke to quit? <p>The current search is a top-up to find cohort studies to answer this question.</p> <p>To be answered by Cochrane:</p> <ul style="list-style-type: none"> 5.3c. What are the barriers or facilitators to women taking up these interventions?
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19.1 Table of results

Database name	Date searched	Database Platform	Database segment or version
British Nursing Index (BNI)	25/4/2019	ProQuest	(1994-current)
Cochrane Central Register of Controlled Trials (CENTRAL)	24/4/2019	Wiley	Cochrane Central Register of Controlled Trials Issue 4 of 12, April 2019
Cumulative Index to Nursing and Allied Literature (CINAHL)	24/4/2019	HDA S	1981-present
Embase	24/4/2019	Ovid	Embase 1974 to 2019 April 23
Health Management Information Consortium (HMIC)	24/4/2019	Ovid	HMIC Health Management Information Consortium 1979 to January 2019

MEDLINE	24/4/2019	Ovid	Ovid MEDLINE(R) 1946 to April 23, 2019
MEDLINE-in-Process (including Epub Ahead-of-Print)	24/4/2019	Ovid	Ovid MEDLINE(R) Epub Ahead of Print April 22, 2019, Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations 1946 to April 23, 2019
PsycINFO	24/4/2019	Ovid	PsycINFO 1806 to April Week 3 2019
Social Policy and Practice (SPP)	24/4/2019	Ovid	Social Policy and Practice 201901
Forward citation searching	24/4/2019	Clarivate	Web of Science Core Collection (1990-present)

Search source	No. of records retrieved	Results	Total results	De-duplicated
British Nursing Index (BNI)	41	459	721	558
Cochrane Central Register of Controlled Trials (CENTRAL)	77			
Cumulative Index to Nursing and Allied Literature (CINAHL)	81			
Embase	114			
Health Management Information Consortium (HMIC)	2			
MEDLINE	91			
MEDLINE-in-Process (including Epub Ahead-of-Print)	25			
PsycINFO	28			
Social Policy and Practice (SPP)	0			
Surveillance	0			
Scoping searches	3	262		
Web of Science	259			

19.2 Database strategy outline

(e-cigarettes OR vaping OR NRT) AND

((pregnancy OR maternity services OR obstetrics OR midwifery)

OR (embryo OR fetal OR infant health))

AND cohort studies AND Limits

19.3 Database strategies

19.3.1 Database name: British Nursing Index (BNI)

Set#	Searched for	Results
S1	MAINSUBJECT.EXACT("Electronic cigarettes")	307
S2	TI,AB(ecig* OR e-cig* OR e-voke* OR juul* OR vape* OR vaping* OR ENNDS)	68
S3	TI,AB(electronic* N/3 (tobacco* OR nicotin* OR cigar* OR cigs OR vapor* OR vapour*))	184
S4	TI,AB((tobacco* or nicotin* or cigar* or cigs) N/3 (vapor* or vapour* or device* or inhalator* or inhaler*))	61
S5	TI,AB(nicotin* AND (ENDS OR ANDS))	53
S6	TI,AB(nicotin* N/3 deliver*)	69
S7	TI,AB((tobacco* OR nicotin* OR cigar* OR cigs) N/3 (dual* OR multiple* OR multi))	26
S8	TI,AB(polytobacco* OR poly tobacco* OR poly-tobacco* OR multitobacco* OR multi tobacco* OR multi-tobacco*)	26
S9	MAINSUBJECT.EXACT("Transdermal medication")	192
S10	TI,AB(nrt OR nicorette* OR niquitin* OR nicotinell* OR nicassist*)	92
S11	(nicotin* N/3 (replacement* OR substitut* OR gum* OR inhaled* OR inhaler* OR inhalant* OR inhalator* OR spray* OR lozenge* OR tablet* OR transdermal* OR patch* OR vaccin* OR device* OR gel* OR pastil* OR deliver* OR sublingual* OR therap* OR treatment* OR nasal* OR microtab* OR polacrilex* OR product OR products*))	2079
S12	S1 OR S2 OR S3 OR S4 OR S5 OR S6 OR S7 OR S8 OR S9 OR S10 OR S11	2438
S13	MAINSUBJECT.EXACT("Cohort analysis")	340
S14	TI,AB(longitudinal* OR prospective* OR retrospective* OR cohort*)	38128
S15	TI(follow up* or followup* or follow-up* or concurrent* or incidence* or population*) AND TI(study* OR studies* OR analy* OR observation* OR design* OR method*)	3321

S16	AB(follow up* or followup* or follow-up* or concurrent* or incidence* or population*) AND AB(study* OR studies* OR analy* OR observation* OR design* OR method*)	47594
S17	S13 OR S14 OR S15 OR S16	74785
S18	S12 AND S17	264
S19	MAINSUBJECT.EXACT("Teenage pregnancy") OR MAINSUBJECT.EXACT("Pregnancy") OR MAINSUBJECT.EXACT("Pregnancy complications") OR MAINSUBJECT.EXACT("Preeclampsia") OR MAINSUBJECT.EXACT("Perinatal care") OR MAINSUBJECT.EXACT("Prenatal development") OR MAINSUBJECT.EXACT("Prenatal care") OR MAINSUBJECT.EXACT("Prenatal education") OR MAINSUBJECT.EXACT("Obstetrics") OR MAINSUBJECT.EXACT("Midwifery education") OR MAINSUBJECT.EXACT("Midwifery") OR MAINSUBJECT.EXACT("Childbirth & labor") OR MAINSUBJECT.EXACT("Cesarean section") OR (MAINSUBJECT.EXACT("Child labor") OR MAINSUBJECT.EXACT("Premature labor") OR MAINSUBJECT.EXACT("Induced labor")) OR MAINSUBJECT.EXACT("Premature birth") OR MAINSUBJECT.EXACT("Stillbirth") OR MAINSUBJECT.EXACT("Newborn babies") OR MAINSUBJECT.EXACT("Babies") OR MAINSUBJECT.EXACT("Embryos") OR MAINSUBJECT.EXACT("Fetuses") OR MAINSUBJECT.EXACT("Birth weight") OR MAINSUBJECT.EXACT("Postpartum period") OR MAINSUBJECT.EXACT("Miscarriage") OR MAINSUBJECT.EXACT("Infant mortality") OR MAINSUBJECT.EXACT("Sudden infant death syndrome--SIDS") OR MAINSUBJECT.EXACT("Birth injuries") OR MAINSUBJECT.EXACT("Neonatal care") OR MAINSUBJECT.EXACT("Neonatal nursing") OR MAINSUBJECT.EXACT("Maternal child nursing")	62554
S20	TI,AB(pregnan*)	24240
S21	TI,AB(maternity* OR maternal* OR obstetric* OR midwif* OR midwiv* OR doula*)	38962
S22	TI,AB(eclampsia* OR preeclampsia* OR Ectopic* OR uterine* OR fallopian* OR SCBU* OR NICU* OR preterm* OR prematur* OR lbw OR vlbw OR birthweight* OR birth weight*)	14998
S23	TI,AB(postpartum* OR post partum* OR Peripartum* OR peri partum* OR antepartum* OR ante partum* OR intrapartum* OR intra partum* OR postnatal* OR post natal* OR puerperium* OR puerperal* OR parturition* OR Caesarean* OR Cesarean*)	13902

S24	TI,AB(ante natal* OR antenatal* OR prenatal* OR peri natal* OR perinatal*)	12315
S25	TI,AB(miscarr* OR stillbirth* OR stillborn* OR abortion* OR fetal* OR foetal* OR foetus OR fetus* OR embryo* OR childbirth* OR child birth* OR child-birth*)	19511
S26	TI,AB(gestational* OR baby* OR babies* OR neonat* OR neo nat* OR infanc* OR infant* OR newborn* OR new born*)	39188
S27	S19 OR S20 OR S21 OR S22 OR S23 OR S24 OR S25 OR S26	100519
S28	S18 AND S27	41

19.3.2 Database name: Cochrane Central Register of Controlled Trials (CENTRAL)

- #1 MeSH descriptor: [Electronic Nicotine Delivery Systems] this term only 72
- #2 MeSH descriptor: [Vaping] this term only 10
- #3 (ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS):ti,ab 6356
- #4 (electronic* near/3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)):ti,ab 262
- #5 ((tobacco* or nicotin* or cigar* or cigs) near/3 (vapor* or vapour* or device* or inhalator* or inhaler*)):ti,ab 191
- #6 (nicotin* and (ENDS or ANDS)):ti,ab 33
- #7 (nicotin* near/3 deliver* system*):ti,ab 86
- #8 ((tobacco* or nicotin* or cigar* or cigs) near/3 (dual* or multiple* or multi) near/3 ("use" or uses or user* or usage* or using*)):ti,ab 23
- #9 (polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*):ti,ab 249
- #10 MeSH descriptor: [Nicotine Chewing Gum] this term only 4
- #11 MeSH descriptor: [Tobacco Use Cessation Devices] this term only 425
- #12 MeSH descriptor: [Smoking Cessation Agents] this term only 2
- #13 (nrt or nicorette* or niquitin* or nicotinell* or nicassist*):ti,ab 836
- #14 (nicotin* near/3 (replacement* or substitut* or gum* or inhaled* or inhaler* or inhalant* or inhalator* or spray* or lozenge* or tablet* or transdermal* or patch* or vaccin* or device* or gel* or pastil* or deliver* or sublingual* or therap* or treatment* or nasal* or microtab* or polacrilex* or product or products*)):ti,ab 3537
- #15 {or #1-#14} 10208
- #16 MeSH descriptor: [Pregnancy] explode all trees 7229
- #17 MeSH descriptor: [Pregnancy Complications] explode all trees 10285
- #18 MeSH descriptor: [Pregnant Women] this term only 200
- #19 MeSH descriptor: [Maternal Health Services] explode all trees 1972
- #20 MeSH descriptor: [Midwifery] this term only 308
- #21 MeSH descriptor: [Douglas] this term only 7
- #22 MeSH descriptor: [Obstetrics] this term only 165
- #23 MeSH descriptor: [Obstetric Nursing] this term only 45
- #24 pregnan*:ti,ab 45783
- #25 (ante natal* or ante-natal* or antenatal* or pre natal* or pre-natal* or prenatal* or peri natal* or peri-natal* or perinatal*):ti,ab 10640
- #26 (maternity* or maternal* or obstetric* or midwif* or midwiv* or doula*):ti,ab 24050
- #27 MeSH descriptor: [Pregnancy Outcome] explode all trees 3283
- #28 MeSH descriptor: [Obstetric Surgical Procedures] explode all trees 6646
- #29 MeSH descriptor: [Hypertension, Pregnancy-Induced] explode all trees 965
- #30 MeSH descriptor: [Postpartum Period] this term only 1019
- #31 MeSH descriptor: [Peripartum Period] this term only 7

- #32 MeSH descriptor: [Embryonic and Fetal Development] explode all trees
4009
- #33 MeSH descriptor: [Embryo, Mammalian] explode all trees 685
- #34 MeSH descriptor: [Embryo Loss] this term only 8
- #35 MeSH descriptor: [Fetus] explode all trees 1690
- #36 MeSH descriptor: [Fetal Death] explode all trees 303
- #37 MeSH descriptor: [Fetal Weight] this term only 18
- #38 MeSH descriptor: [Fetal Distress] this term only 141
- #39 MeSH descriptor: [Heart Rate, Fetal] this term only 333
- #40 MeSH descriptor: [Birth Weight] this term only 1496
- #41 MeSH descriptor: [Infant, Newborn] explode all trees 14968
- #42 MeSH descriptor: [Infant, Newborn, Diseases] explode all trees
6177
- #43 MeSH descriptor: [Infant Death] explode all trees 79
- #44 MeSH descriptor: [Maternal-Child Nursing] explode all trees 178
- #45 MeSH descriptor: [Child Development] this term only 1750
- #46 (miscarr* or stillbirth* or stillborn* or abortion* or fetal* or foetal* or
foetus or fetus* or embryo* or childbirth* or child birth* or child-birth* or
gestational* or baby* or babies* or neonat* or neo nat* or neo-nat* or infanc*
or infant* or newborn* or new born* or "new-born*" or postpartum* or post
partum* or post-partum* or peripartum* or peri partum* or peri-partum* or
antepartum* or ante partum* or ante-partum* or intrapartum* or intra partum*
or intra-partum* or postnatal* or post natal* or post-natal* or puerperium* or
puerperal* or parturition* or Caesarean* or Cesarean* or eclampsia* or
preeclampsia* or "pre eclampsia*" or pre-eclampsia* or ectopic* or uterine* or
fallopian* or SCBU* or NICU* or preterm* or "pre term*" or pre-term* or
premat* or "pre matur*" or pre-matur* or lbw or vlbw or birthweight* or birth
weight* or birth-weight*).ti,ab 4383
- #47 {or #16-#46} 85055
- #48 #15 and #47 404
- #49 MeSH descriptor: [Cohort Studies] explode all trees 140848
- #50 MeSH descriptor: [Epidemiologic Methods] this term only 826
- #51 #50 with Publication Year from 1970 to 1989, in Trials 45
- #52 ((follow up* or followup* or follow-up* or concurrent* or incidence* or
population*) near/3 (study* or studies* or analy* or observation* or design* or
method*)):ti,ab 58104
- #53 (longitudinal* or prospective* or retrospective* or cohort*):ti,ab
234030
- #54 #49 or #51 or #52 or #53 338724
- #55 #48 and #54 120
- #56 "clinicaltrials.gov":so or "who.int":so or "clinicaltrialsregister.eu":so
252319
- #57 #55 not #56 100
- #58 "conference":pt 149689
- #59 #57 not #58 93
- #60 #57 not #58 in Trials 77

19.3.3 Database name: Cumulative Index to Nursing and Allied Literature (CINAHL)

#	Database	Search term	Results
1	CINAHL	"ELECTRONIC CIGARETTES"/	1611
2	CINAHL	(ecig* OR e-cig* OR e-voke* OR juul* OR vape* OR vaping* OR ENNDS).ti,ab	2366
3	CINAHL	(electronic* ADJ3 (tobacco* OR nicotin* OR cigar* OR cigs OR vapor* OR vapour*)).ti,ab	1631
4	CINAHL	((tobacco* OR nicotin* OR cigar* OR cigs) ADJ3 (vapor* OR vapour* OR device* OR inhalator* OR inhaler*)).ti,ab	368
5	CINAHL	(nicotin* AND (ENDS OR ANDS)).ti,ab	546
6	CINAHL	(nicotin* ADJ3 deliver* system*).ti,ab	249
7	CINAHL	((((tobacco* OR nicotin* OR cigar* OR cigs) ADJ3 (dual* OR multiple* OR multi)) ADJ3 ("use" OR uses OR user* OR usage* OR using*)).ti,ab	303
8	CINAHL	(polytobacco* OR poly tobacco* OR poly-tobacco* OR multitobacco* OR multi tobacco* OR multi-tobacco*).ti,ab	514
9	CINAHL	"NICOTINE CHEWING GUM"/	1
10	CINAHL	"NICOTINE REPLACEMENT THERAPY"/	1400
11	CINAHL	"NICOTINE PATCH"/	403
12	CINAHL	"TOBACCO USE CESSATION PRODUCTS"/	363
13	CINAHL	(nrt OR nicotine* OR niquitin* OR nicotinell* OR nicassist*).ti,ab	777

14	CINAHL	(nicotin* ADJ3 (replacement* OR substitut* OR gum* OR inhaled* OR inhaler* OR inhalant* OR inhalator* OR spray* OR lozenge* OR tablet* OR transdermal* OR patch* OR vaccin* OR device* OR gel* OR pastil* OR deliver* OR sublingual* OR therap* OR treatment* OR nasal* OR microtab* OR polacrilex* OR product OR products*)).ti,ab	3268
15	CINAHL	(1 OR 2 OR 3 OR 4 OR 5 OR 6 OR 7 OR 8 OR 9 OR 10 OR 11 OR 12 OR 13 OR 14)	7875
16	CINAHL	exp PREGNANCY/	178899
17	CINAHL	"PREGNANCY, MULTIPLE"/ OR "PREGNANCY TRIMESTERS"/ OR "PREGNANCY, UNPLANNED"/ OR "PREGNANCY, UNWANTED"/	5542
18	CINAHL	exp "PREGNANCY COMPLICATIONS"/	77102
19	CINAHL	EXPECTANT MOTHERS/	5754
20	CINAHL	MATERNAL HEALTH SERVICES/	7859
21	CINAHL	exp MIDWIFERY/	18036
22	CINAHL	exp MIDWIFERY SERVICE/	1634
23	CINAHL	exp MIDWIVES/	12441
24	CINAHL	MIDWIFE ATTITUDES/	1584
25	CINAHL	exp "OBSTETRIC CARE"/	42319
26	CINAHL	OBSTETRICS/	4545
27	CINAHL	OBSTETRIC NURSING/ OR OBSTETRIC PATIENTS/ OR OBSTETRIC SERVICE/	4688

28	CINAHL	"NEONATAL ASSESSMENT"/	3248
29	CINAHL	exp "NEONATAL NURSING"/	6428
30	CINAHL	"INTENSIVE CARE, NEONATAL"/	4128
31	CINAHL	"PERINATAL DEATH"/	6721
32	CINAHL	exp "INFANT DEATH"/	3213
33	CINAHL	DOULAS/	557
34	CINAHL	"PREGNANCY OUTCOMES"/	20196
35	CINAHL	exp "POSTNATAL PERIOD"/	10854
36	CINAHL	exp "EMBRYONIC STRUCTURES"/	35080
37	CINAHL	"FETAL WEIGHT"/ OR "BIRTH WEIGHT"/	9201
38	CINAHL	"FETAL ABNORMALITIES"/	733
39	CINAHL	exp "INFANT, NEWBORN"/	117712
40	CINAHL	exp "FETAL DISEASES"/	11426
41	CINAHL	exp "INFANT, NEWBORN, DISEASES"/	28842
42	CINAHL	"MATERNAL-CHILD NURSING"/ OR "PERINATAL NURSING"/	2202
43	CINAHL	"INFANT DEVELOPMENT"/	5483
44	CINAHL	"SMOKING CESSATION IN PREGNANCY"/	442
45	CINAHL	16 OR 17 OR 18 OR 19 OR 20 OR 21 OR 22 OR 23 OR 24 OR 25 OR 26 OR 27 OR 28 OR 29 OR 30 OR 31 OR 32 OR 33 OR 34 OR 35 OR 36 OR 37 OR 38 OR 39 OR 40 OR 41 OR 42 OR 43 OR 44	333456

46	CINAHL	(pregnan*).ti,ab	107402
47	CINAHL	(ante natal* OR ante-natal* OR antenatal* OR pre natal* OR pre-natal* OR prenatal* OR perinatal* OR peri-natal* OR perinatal*).ti,ab	48057
48	CINAHL	(maternity* OR maternal* OR obstetric* OR midwif* OR midwiv* OR doula*).ti,ab	108368
49	CINAHL	(miscarr* OR stillbirth* OR stillborn* OR abortion* OR fetal* OR foetal* OR foetus OR fetus* OR embryo* OR childbirth* OR child birth* OR child-birth*).ti,ab	86646
50	CINAHL	(gestational* OR baby* OR babies* OR neonat* OR neonat* OR neo-nat* OR infanc* OR infant* OR newborn* OR new born* OR "new-born").ti,ab	169390
51	CINAHL	(postpartum* OR post partum* OR post-partum* OR peripartum* OR peri partum* OR peri-partum* OR antepartum* OR ante partum* OR ante-partum* OR intrapartum* OR intra partum* OR intra-partum* OR postnatal* OR post natal* OR post-natal* OR puerperium* OR puerperal* OR parturition* OR Caesarean* OR Cesarean*).ti,ab	50390
52	CINAHL	(eclampsia* OR preeclampsia* OR "pre eclampsia*" OR pre-eclampsia* OR ectopic* OR uterine* OR fallopian* OR SCBU* OR NICU* OR preterm* OR "pre term*" OR pre-term* OR prematur* OR "pre matur*" OR pre-matur* OR lbw OR vlbw OR birthweight* OR birth weight* OR birth-weight*).ti,ab	89017
53	CINAHL	45 and 15	344

54	CINAHL	46 and 15	293
55	CINAHL	47 and 15	82
56	CINAHL	48 and 15	116
57	CINAHL	49 and 15	111
58	CINAHL	50 and 15	128
59	CINAHL	51 and 15	33
60	CINAHL	52 and 15	123
61	CINAHL	exp "PROSPECTIVE STUDIES"/	380461
62	CINAHL	"RETROSPECTIVE DESIGN"/	215624
63	CINAHL	"POSTEXPOSURE FOLLOW-UP"/	1454
64	CINAHL	((follow up* OR followup* OR follow-up* OR concurrent* OR incidence* OR population*) ADJ3 (study* OR studies* OR analy* OR observation* OR design* OR method*)).ti,ab	116975
65	CINAHL	(longitudinal* OR prospective* OR retrospective* OR cohort*).ti,ab	462169
66	CINAHL	(61 OR 62 OR 63 OR 64 OR 65)	782365
67	CINAHL	53 and 66	49
68	CINAHL	54 and 66	52
69	CINAHL	55 and 66	22
70	CINAHL	56 and 66	29
71	CINAHL	57 and 66	32
72	CINAHL	58 and 66	33

73 CINAHL 59 and 66 9

74 CINAHL 60 and 66 21

Downloaded lines 67-74 separately and added all results to EndNote = 247

166 duplicates removed in CINHALL = 81 added to the main EndNote file

19.3.4 Database name: EmbaseDatabase(s): **Embase** 1974 to 2019 April 23

Search Strategy:

#	Searches	Results
1	electronic cigarette/	4501
2	Vaping/	793
3	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).ti,ab.	3807
4	(electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).ti,ab.	2828
5	((tobacco* or nicotin* or cigar* or cigs) adj3 (vapor* or vapour* or device* or inhalator* or inhaler*)).ti,ab.	1041
6	(nicotin* and (ENDS or ANDS)).ti,ab.	374
7	(nicotin* adj3 deliver* system*).ti,ab.	453
8	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*)).ti,ab.	441
9	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).ti,ab.	96
10	nicotine replacement therapy/	4743
11	nicotine gum/ or nicotine lozenge/ or nicotine patch/ or nicotine vaccine/	4321
12	(nrt or nicorette* or niquitin* or nicotinell* or nicassist*).ti,ab.	2539
13	(nicotin* adj3 (replacement* or substitut* or gum* or inhaled* or inhaler* or inhalant* or inhalator* or spray* or lozenge* or tablet* or transdermal* or patch* or vaccin* or device* or gel* or pastil* or deliver* or sublingual* or therap* or treatment* or nasal* or microtab* or polacrilex* or product or products*)).ti,ab.	12662
14	or/1-13	21581
15	exp pregnancy/	626892
16	exp pregnancy complication/	113708
17	pregnant woman/	68822

18	maternal health service/	1130
19	exp obstetric procedure/	415821
20	exp midwife/	29460
21	exp obstetrics/	35398
22	obstetrical nursing/	2408
23	doula/	189
24	pregnan*.ti,ab.	586664
25	(ante natal* or ante-natal* or antenatal* or pre natal* or pre-natal* or prenatal* or perinatal* or peri-natal* or perinatal*).ti,ab.	233842
26	(maternity* or maternal* or obstetric* or midwif* or midwiv*).ti,ab.	424185
27	maternal smoking/	6057
28	exp "parameters concerning the fetus, newborn and pregnancy"/	340187
29	exp pregnancy disorder/	492554
30	perinatal period/	31719
31	exp "functions of embryonic, fetal and placental structures"/	255738
32	human embryo/	2190
33	embryo death/	2220
34	fetus/	182700
35	exp fetus death/	34886
36	exp infant/	924579
37	exp infant disease/	1410596
38	exp child death/	23874
39	maternal child health care/	787
40	early childhood intervention/	2607

41	postnatal development/	20254
42	child development/	42419
43	perinatal development/	3267
44	(miscarr* or stillbirth* or stillborn* or abortion* or fetal* or foetal* or foetus or fetus* or embryo* or childbirth* or child birth* or child-birth* or gestational* or baby* or babies* or neonat* or neo nat* or neo-nat* or infanc* or infant* or newborn* or new born* or "new-born*" or postpartum* or post partum* or post-partum* or peripartum* or peri partum* or peri-partum* or antepartum* or ante partum* or ante-partum* or intrapartum* or intra partum* or intra-partum* or postnatal* or post natal* or post-natal* or puerperium* or puerperal* or parturition* or Caesarean* or Cesarean* or eclampsia* or preeclampsia* or "pre eclampsia*" or pre-eclampsia* or ectopic* or uterine* or fallopian* or SCBU* or NICU* or preterm* or "pre term*" or pre-term* or prematur* or "pre matur*" or pre-matur* or lbw or vlbw or birthweight* or birth weight* or birth-weight*).ti,ab.	1960020
45	or/15-44	3815630
46	14 and 45	1911
47	cohort analysis/	458245
48	longitudinal study/	124155
49	prospective study/	513199
50	retrospective study/	760660
51	follow up/	1387475
52	((follow up* or followup* or follow-up* or concurrent* or incidence* or population*) adj3 (study* or studies* or analy* or observation* or design* or method*)).ti,ab.	554027
53	or/47-52	2972087
54	46 and 53	192
55	nonhuman/ not (human/ and nonhuman/)	4356474
56	54 not 55	189
57	(letter or editorial).pt.	1655615

58	56 not 57	186
59	(conference abstract or conference paper or conference proceeding or "conference review").pt.	4151669
60	58 not 59	137
61	limit 60 to medline	23
62	60 not 61	114

19.3.5 Database name: Health Management Information Consortium (HMIC)

Database(s): **HMIC Health Management Information Consortium** 1979 to January 2019

Search Strategy:

#	Searches	Results
1	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).ti,ab.	78
2	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).hw.	0
3	(electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).ti,ab.	55
4	(electronic* and (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).hw.	0
5	((tobacco* or nicotin* or cigar* or cigs) adj3 (vapor* or vapour* or device* or inhalator* or inhaler*)).ti,ab.	20
6	((tobacco* or nicotin* or cigar* or cigs) and (vapor* or vapour* or device* or inhalator* or inhaler*)).hw.	1
7	(nicotin* and (ENDS or ANDS)).ti,ab.	4
8	(nicotin* and (ENDS or ANDS)).hw.	0
9	(nicotin* adj3 deliver* system*).ti,ab.	6
10	(nicotin* and deliver* system*).hw.	0
11	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*)).ti,ab.	8
12	((tobacco* or nicotin* or cigar* or cigs) and (dual* or multiple* or multi) and ("use" or uses or user* or usage* or using*)).hw.	0
13	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).ti,ab.	0
14	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).hw.	0
15	(nrt or nicorette* or niquitin* or nicotinell* or nicassist*).ti,ab.	123
16	(nrt or nicorette* or niquitin* or nicotinell* or nicassist*).hw.	0

17	(nicotin* adj3 (replacement* or substitut* or gum* or inhaled* or inhaler* or inhalant* or inhalator* or spray* or lozenge* or tablet* or transdermal* or patch* or vaccin* or device* or gel* or pastil* or deliver* or sublingual* or therap* or treatment* or nasal* or microtab* or polacrilex* or product or products*)).ti,ab.	324
18	(nicotin* and (replacement* or substitut* or gum* or inhaled* or inhaler* or inhalant* or inhalator* or spray* or lozenge* or tablet* or transdermal* or patch* or vaccin* or device* or gel* or pastil* or deliver* or sublingual* or therap* or treatment* or nasal* or microtab* or polacrilex* or product or products*)).hw.	187
19	or/1-18	470
20	pregnan*.ti,ab.	4454
21	pregnan*.hw.	3394
22	(ante natal* or ante-natal* or antenatal* or pre natal* or pre-natal* or prenatal* or peri natal* or peri-natal* or perinatal*).ti,ab.	2726
23	(ante natal* or ante-natal* or antenatal* or pre natal* or pre-natal* or prenatal* or peri natal* or peri-natal* or perinatal*).hw.	1343
24	(maternity* or maternal* or obstetric* or midwif* or midwiv* or doula*).ti,ab.	9175
25	(maternity* or maternal* or obstetric* or midwif* or midwiv* or doula*).hw.	6160
26	(miscarr* or stillbirth* or stillborn* or abortion* or fetal* or foetal* or foetus or fetus* or embryo* or childbirth* or child birth* or child-birth* or gestational* or baby* or babies* or neonat* or neo nat* or neo-nat* or infanc* or infant* or newborn* or new born* or "new-born*" or postpartum* or post partum* or post-partum* or peripartum* or peri partum* or peri-partum* or antepartum* or ante partum* or ante-partum* or intrapartum* or intra partum* or intra-partum* or postnatal* or post natal* or post-natal* or puerperium* or puerperal* or parturition* or Caesarean* or Cesarean* or eclampsia* or preeclampsia* or "pre eclampsia*" or pre-eclampsia* or ectopic* or uterine* or fallopian* or SCBU* or NICU* or preterm* or "pre term*" or pre-term* or prematur* or "pre matur*" or pre-matur* or lbw or vlbw or birthweight* or birth weight* or birth-weight*).ti,ab.	10447
27	(miscarr* or stillbirth* or stillborn* or abortion* or fetal* or foetal* or foetus or fetus* or embryo* or childbirth* or child birth* or child-birth* or gestational* or baby* or babies* or neonat* or neo nat* or neo-nat* or infanc* or infant* or newborn* or new born* or "new-born*" or postpartum* or post partum* or post-partum* or peripartum* or peri partum* or	6500

	peri-partum* or antepartum* or ante partum* or ante-partum* or intrapartum* or intra partum* or intra-partum* or postnatal* or post natal* or post-natal* or puerperium* or puerperal* or parturition* or Caesarean* or Cesarean* or eclampsia* or preeclampsia* or "pre eclampsia*" or pre-eclampsia* or ectopic* or uterine* or fallopian* or SCBU* or NICU* or preterm* or "pre term*" or pre-term* or prematur* or "pre matur*" or pre-matur* or lbw or vlbw or birthweight* or birth weight* or birth-weight*).hw.	
28	or/20-27	20972
29	19 and 28	48
30	((follow up* or followup* or follow-up* or concurrent* or incidence* or population*) adj3 (study* or studies* or analy* or observation* or design* or method*).ti,ab.	4429
31	((follow up* or followup* or follow-up* or concurrent* or incidence* or population*) and (study* or studies* or analy* or observation* or design* or method*).hw.	407
32	(longitudinal* or prospective* or retrospective* or cohort*).ti,ab.	15705
33	(longitudinal* or prospective* or retrospective* or cohort*).hw.	1763
34	or/30-33	18834
35	29 and 34	2

19.3.6 Database name: MEDLINEDatabase(s): **Ovid MEDLINE(R)** 1946 to April 23, 2019

Search Strategy:

#	Searches	Results
1	Electronic Nicotine Delivery Systems/	2303
2	Vaping/	292
3	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).ti,ab.	2170
4	(electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).ti,ab.	1705
5	((tobacco* or nicotin* or cigar* or cigs) adj3 (vapor* or vapour* or device* or inhalator* or inhaler*)).ti,ab.	644
6	(nicotin* and (ENDS or ANDS)).ti,ab.	234
7	(nicotin* adj3 deliver* system*).ti,ab.	267
8	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*)).ti,ab.	298
9	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).ti,ab.	71
10	nicotine chewing gum/	13
11	"tobacco use cessation devices"/	1559
12	Smoking cessation agents/	35
13	(nrt or nicorette* or niquitin* or nicotinell* or nicassist*).ti,ab.	1674
14	(nicotin* adj3 (replacement* or substitut* or gum* or inhaled* or inhaler* or inhalant* or inhalator* or spray* or lozenge* or tablet* or transdermal* or patch* or vaccin* or device* or gel* or pastil* or deliver* or sublingual* or therap* or treatment* or nasal* or microtab* or polacrilex* or product or products*)).ti,ab.	9215
15	or/1-14	13113
16	exp Pregnancy/	859379
17	exp Pregnancy complications/	408186

18	Pregnant Women/	7395
19	exp Maternal Health Services/	45793
20	Midwifery/	18510
21	Doulas/	118
22	obstetrics/	21742
23	obstetric nursing/	2952
24	pregnan*.ti,ab.	430029
25	(ante natal* or ante-natal* or antenatal* or pre natal* or pre-natal* or prenatal* or perinatal* or peri-natal* or perinatal*).ti,ab.	163577
26	(maternity* or maternal* or obstetric* or midwif* or midwiv* or doula*).ti,ab.	301958
27	exp pregnancy outcome/	69630
28	exp Obstetric Surgical Procedures/	127768
29	exp Hypertension, Pregnancy-Induced/	34613
30	Postpartum Period/	23839
31	Peripartum Period/	986
32	exp "Embryonic and Fetal Development"/	258487
33	exp Embryo, Mammalian/	91164
34	Embryo loss/	1339
35	exp fetus/	153638
36	exp Fetal death/	28638
37	Fetal Weight/	1644
38	Fetal distress/	3300
39	Heart Rate, Fetal/	4852
40	Birth weight/	38064

41	exp Infant, Newborn/	582879
42	exp Infant, Newborn, Diseases/	168044
43	exp Infant death/	7575
44	exp Maternal-Child Nursing/	5685
45	Child Development/	43509
46	(miscarr* or stillbirth* or stillborn* or abortion* or fetal* or foetal* or foetus or fetus* or embryo* or childbirth* or child birth* or child-birth* or gestational* or baby* or babies* or neonat* or neo nat* or neo-nat* or infanc* or infant* or newborn* or new born* or "new-born*" or postpartum* or post partum* or post-partum* or peripartum* or peri partum* or peri-partum* or antepartum* or ante partum* or ante-partum* or intrapartum* or intra partum* or intra-partum* or postnatal* or post natal* or post-natal* or puerperium* or puerperal* or parturition* or Caesarean* or Cesarean* or eclampsia* or preeclampsia* or "pre eclampsia*" or pre-eclampsia* or ectopic* or uterine* or fallopian* or SCBU* or NICU* or preterm* or "pre term*" or pre-term* or prematur* or "pre matur*" or pre-matur* or lbw or vlbw or birthweight* or birth weight* or birth-weight*).ti,ab.	1528456
47	or/16-46	2455773
48	15 and 47	976
49	exp Cohort Studies/	1848829
50	((follow up* or followup* or follow-up* or concurrent* or incidence* or population*) adj3 (study* or studies* or analy* or observation* or design* or method*)).ti,ab.	291037
51	(longitudinal* or prospective* or retrospective* or cohort*).ti,ab.	1473903
52	epidemiologic methods/ and (197* or 198*).yr.	10282
53	or/49-52	2465212
54	48 and 53	96
55	Animals/ not (Animals/ and Humans/)	4540337
56	54 not 55	91
57	limit 56 to (letter or historical article or comment or editorial or news or case reports)	0

58	56 not 57	91
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19.3.7 Database name: MEDLINE-in-Process (including Epub Ahead-of-Print)

Database(s): **Ovid MEDLINE(R) Epub Ahead of Print** April 22, 2019, **Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations** 1946 to April 23, 2019

Search Strategy:

#	Searches	Results
1	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).ti,ab.	1123
2	(electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).ti,ab.	703
3	((tobacco* or nicotin* or cigar* or cigs) adj3 (vapor* or vapour* or device* or inhalator* or inhaler*)).ti,ab.	167
4	(nicotin* and (ENDS or ANDS)).ti,ab.	103
5	(nicotin* adj3 deliver* system*).ti,ab.	123
6	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*)).ti,ab.	121
7	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).ti,ab.	30
8	(nrt or nicorette* or niquitin* or nicotinell* or nicassist*).ti,ab.	264
9	(nicotin* adj3 (replacement* or substitut* or gum* or inhaled* or inhaler* or inhalant* or inhalator* or spray* or lozenge* or tablet* or transdermal* or patch* or vaccin* or device* or gel* or pastil* or deliver* or sublingual* or therap* or treatment* or nasal* or microtab* or polacrilex* or product or products*)).ti,ab.	1087
10	or/1-9	2364
11	pregnan*.ti,ab.	42505
12	(ante natal* or ante-natal* or antenatal* or pre natal* or pre-natal* or prenatal* or perinatal* or peri-natal* or perinatal*).ti,ab.	17626
13	(maternity* or maternal* or obstetric* or midwif* or midwiv* or doula*).ti,ab.	36533
14	(miscarr* or stillbirth* or stillborn* or abortion* or fetal* or foetal* or foetus or fetus* or embryo* or childbirth* or child birth* or child-birth* or gestational* or baby* or babies* or neonat* or neo nat* or neo-nat* or infanc* or infant* or newborn* or new born* or "new-born*" or postpartum* or post partum* or post-partum* or peripartum* or peri partum* or	139661

	peri-partum* or antepartum* or ante partum* or ante-partum* or intrapartum* or intra partum* or intra-partum* or postnatal* or post natal* or post-natal* or puerperium* or puerperal* or parturition* or Caesarean* or Cesarean* or eclampsia* or preeclampsia* or "pre eclampsia*" or pre-eclampsia* or ectopic* or uterine* or fallopian* or SCBU* or NICU* or preterm* or "pre term*" or pre-term* or prematur* or "pre matur*" or pre-matur* or lbw or vlbw or birthweight* or birth weight* or birth-weight*).ti,ab.	
15	or/11-14	169890
16	10 and 15	134
17	((follow up* or followup* or follow-up* or concurrent* or incidence* or population*) adj3 (study* or studies* or analy* or observation* or design* or method*).ti,ab.	43048
18	(longitudinal* or prospective* or retrospective* or cohort*).ti,ab.	241450
19	or/17-18	269698
20	16 and 19	25

19.3.8 Database name: PsycINFODatabase(s): **PsycINFO** 1806 to April Week 3 2019

Search Strategy:

#	Searches	Results
1	Electronic Cigarettes/	906
2	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).ti,ab.	1253
3	(electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).ti,ab.	850
4	((tobacco* or nicotin* or cigar* or cigs) adj3 (vapor* or vapour* or device* or inhalator* or inhaler*)).ti,ab.	237
5	(nicotin* and (ENDS or ANDS)).ti,ab.	108
6	(nicotin* adj3 deliver* system*).ti,ab.	150
7	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*)).ti,ab.	236
8	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).ti,ab.	71
9	(nrt or nicorette* or niquitin* or nicotinell* or nicassist*).ti,ab.	837
10	(nicotin* adj3 (replacement* or substitut* or gum* or inhaled* or inhaler* or inhalant* or inhalator* or spray* or lozenge* or tablet* or transdermal* or patch* or vaccin* or device* or gel* or pastil* or deliver* or sublingual* or therap* or treatment* or nasal* or microtab* or polacrilex* or product or products*)).ti,ab.	4417
11	or/1-10	5876
12	exp pregnancy/	23702
13	midwifery/	1253
14	exp obstetrics/	2534
15	exp prenatal care/	1944
16	perinatal period/	2518
17	exp obstetrical complications/	1331

18	exp "labor (childbirth)"/	1253
19	exp prenatal development/	7159
20	exp pregnancy outcomes/	16733
21	birth weight/	3049
22	exp infant development/	20941
23	neonatal period/	1676
24	sudden infant death/	601
25	prenatal exposure/	6072
26	pregnan*.ti,ab.	43543
27	(ante natal* or ante-natal* or antenatal* or pre natal* or pre-natal* or prenatal* or peri natal* or peri-natal* or perinatal*).ti,ab.	28934
28	(maternity* or maternal* or obstetric* or midwif* or midwiv* or doula*).ti,ab.	60772
29	(miscarr* or stillbirth* or stillborn* or abortion* or fetal* or foetal* or foetus or fetus* or embryo* or childbirth* or child birth* or child-birth* or gestational* or baby* or babies* or neonat* or neo nat* or neo-nat* or infanc* or infant* or newborn* or new born* or "new-born*" or postpartum* or post partum* or post-partum* or peripartum* or peri partum* or peri-partum* or antepartum* or ante partum* or ante-partum* or intrapartum* or intra partum* or intra-partum* or postnatal* or post natal* or post-natal* or puerperium* or puerperal* or parturition* or Caesarean* or Cesarean* or eclampsia* or preeclampsia* or "pre eclampsia*" or pre-eclampsia* or ectopic* or uterine* or fallopian* or SCBU* or NICU* or preterm* or "pre term*" or pre-term* or prematur* or "pre matur*" or pre-matur* or lbw or vlbw or birthweight* or birth weight* or birth-weight*).ti,ab.	174464
30	or/12-29	233869
31	11 and 30	314
32	cohort analysis/	1304
33	longitudinal studies/	15638
34	prospective studies/	518

35	retrospective studies/	407
36	followup studies/	12366
37	((follow up* or followup* or follow-up* or concurrent* or incidence* or population*) adj3 (study* or studies* or analy* or observation* or design* or method*)).ti,ab.	65563
38	(longitudinal* or prospective* or retrospective* or cohort*).ti,ab.	236836
39	or/32-38	301273
40	31 and 39	30
41	limit 40 to animal	2
42	40 not 41	28

19.3.9 Database name: Social Policy and Practice (SPP)Database(s): **Social Policy and Practice** 201901

Search Strategy:

#	Searches	Results
1	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).ti,ab.	7
2	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).hw.	0
3	(electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).ti,ab.	1
4	(electronic* and (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).hw.	1
5	((tobacco* or nicotin* or cigar* or cigs) adj3 (vapor* or vapour* or device* or inhalator* or inhaler*)).ti,ab.	1
6	((tobacco* or nicotin* or cigar* or cigs) and (vapor* or vapour* or device* or inhalator* or inhaler*)).hw.	0
7	(nicotin* and (ENDS or ANDS)).ti,ab.	0
8	(nicotin* and (ENDS or ANDS)).hw.	0
9	(nicotin* adj3 deliver* system*).ti,ab.	0
10	(nicotin* and deliver* system*).hw.	0
11	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*)).ti,ab.	0
12	((tobacco* or nicotin* or cigar* or cigs) and (dual* or multiple* or multi) and ("use" or uses or user* or usage* or using*)).hw.	0
13	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).ti,ab.	0
14	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).hw.	0
15	(nrt or nicorette* or niquitin* or nicotinell* or nicassist*).ti,ab.	6
16	(nrt or nicorette* or niquitin* or nicotinell* or nicassist*).hw.	2
17	(nicotin* adj3 (replacement* or substitut* or gum* or inhaled* or inhaler* or inhalant* or inhalator* or spray* or lozenge* or tablet* or transdermal* or patch* or vaccin* or	26

	device* or gel* or pastil* or deliver* or sublingual* or therap* or treatment* or nasal* or microtab* or polacrilex* or product or products*)).ti,ab.	
18	(nicotin* and (replacement* or substitut* or gum* or inhaled* or inhaler* or inhalant* or inhalator* or spray* or lozenge* or tablet* or transdermal* or patch* or vaccin* or device* or gel* or pastil* or deliver* or sublingual* or therap* or treatment* or nasal* or microtab* or polacrilex* or product or products*)).hw.	6
19	or/1-18	38
20	pregnan*.ti,ab.	1860
21	pregnan*.hw.	1663
22	(ante natal* or ante-natal* or antenatal* or pre natal* or pre-natal* or prenatal* or peri natal* or peri-natal* or perinatal*).ti,ab.	706
23	(ante natal* or ante-natal* or antenatal* or pre natal* or pre-natal* or prenatal* or peri natal* or peri-natal* or perinatal*).hw.	132
24	(maternity* or maternal* or obstetric* or midwif* or midwiv* or doula*).ti,ab.	2278
25	(maternity* or maternal* or obstetric* or midwif* or midwiv* or doula*).hw.	492
26	(miscarr* or stillbirth* or stillborn* or abortion* or fetal* or foetal* or foetus or fetus* or embryo* or childbirth* or child birth* or child-birth* or gestational* or baby* or babies* or neonat* or neo nat* or neo-nat* or infanc* or infant* or newborn* or new born* or "new-born*" or postpartum* or post partum* or post-partum* or peripartum* or peri partum* or peri-partum* or antepartum* or ante partum* or ante-partum* or intrapartum* or intra partum* or intra-partum* or postnatal* or post natal* or post-natal* or puerperium* or puerperal* or parturition* or Caesarean* or Cesarean* or eclampsia* or preeclampsia* or "pre eclampsia*" or pre-eclampsia* or ectopic* or uterine* or fallopian* or SCBU* or NICU* or preterm* or "pre term*" or pre-term* or prematur* or "pre matur*" or pre-matur* or lbw or vlbw or birthweight* or birth weight* or birth-weight*).ti,ab.	4613
27	(miscarr* or stillbirth* or stillborn* or abortion* or fetal* or foetal* or foetus or fetus* or embryo* or childbirth* or child birth* or child-birth* or gestational* or baby* or babies* or neonat* or neo nat* or neo-nat* or infanc* or infant* or newborn* or new born* or "new-born*" or postpartum* or post partum* or post-partum* or peripartum* or peri partum* or peri-partum* or antepartum* or ante partum* or ante-partum* or intrapartum* or intra partum* or intra-partum* or postnatal* or post natal* or post-natal* or puerperium* or puerperal* or parturition* or Caesarean* or Cesarean* or eclampsia* or preeclampsia*	2462

	or "pre eclampsia*" or pre-eclampsia* or ectopic* or uterine* or fallopian* or SCBU* or NICU* or preterm* or "pre term*" or pre-term* or prematur* or "pre matur*" or pre-matur* or lbw or vlbw or birthweight* or birth weight* or birth-weight*).hw.	
28	or/20-27	8647
29	19 and 28	4
30	((follow up* or followup* or follow-up* or concurrent* or incidence* or population*) adj3 (study* or studies* or analy* or observation* or design* or method*).ti,ab.	2221
31	((follow up* or followup* or follow-up* or concurrent* or incidence* or population*) and (study* or studies* or analy* or observation* or design* or method*).hw.	763
32	(longitudinal* or prospective* or retrospective* or cohort*).ti,ab.	9609
33	(longitudinal* or prospective* or retrospective* or cohort*).hw.	3808
34	or/30-33	13255
35	29 and 34	0

19.4 Supplementary search techniques

The following papers were identified during the PH26 surveillance searches for this topic.

Berlin I, Grangé G, Jacob N, Tanguy ML. Nicotine patches in pregnant smokers: randomised, placebo controlled, multicentre trial of efficacy. *BMJ*. 2014 Mar 11;348:g1622.

Cooper S, Lewis S, Thornton JG, Marlow N, Watts K, et al; Smoking, Nicotine and Pregnancy Trial Team. The SNAP trial: a randomised placebo-controlled trial of nicotine replacement therapy in pregnancy--clinical effectiveness and safety until 2 years after delivery, with economic evaluation. *Health Technol Assess*. 2014 Aug;18(54):1-128.

El-Mohandes A, Windsor R, Tan S, Perry D, Gantz M, Kiely M. A randomised clinical trial of transdermal nicotine replacement in pregnant African-American smokers. *Matern Child Health*. 2013 Jul;17(5):897-906.

None of these were added to EndNote as they are not cohort studies.

The following papers were identified during the scoping searches for this topic.

Dhalwani NN et al. (2014) Prescribing of nicotine replacement therapy in and around pregnancy: a population-based study using primary care data. *British Journal of General Practice*, 64(626), E554-E560.

Dhalwani NN et al. (2019) Stillbirth Among Women Prescribed Nicotine Replacement Therapy in Pregnancy: Analysis of a Large UK Pregnancy Cohort. *Nicotine & Tobacco Research*, 21(4): 409-415.

Strandberg-Larsen K, Tet al. (2008) Use of nicotine replacement therapy during pregnancy and stillbirth: a cohort study. *BJOG*, 115(11): 1405–1410.

The papers above identified during the scoping searches were used for forward citation searching and reference harvesting in Web of Science. Only those references that could be accessed through the NICE subscription to WOS were added to the search results. Duplicates were removed from the marked list in WOS before downloading the results to EndNote.

Total downloaded to EndNote = 259

Science Citation Index Expanded (SCI-EXPANDED) --1990-present

Social Sciences Citation Index (SSCI) --1990-present

Arts & Humanities Citation Index (A&HCI) --1990-present

Emerging Sources Citation Index (ESCI) --2015-present

19.5 Search narrative

There are several aspects to the review question, most of which are being done by Cochrane as an update of their review “Pharmacological interventions for promoting smoking cessation during pregnancy”.

5.3a. Are nicotine replacement therapies (NRT) or e-cigarettes effective and cost effective at helping pregnant women who smoke to quit?

5.3b. Are NRT and e-cigarettes safe for helping pregnant women who smoke to quit?

5.3c. What are the barriers or facilitators to women taking up these interventions?

Cochrane are doing all of 5.3a and 5.3c. They are also doing the SR and RCT parts of 5.3b (safety):

- Systematic reviews of included study designs
- RCTs (including cluster RCTs)
- Cohort studies

The current search is just a top-up strategy for cohort studies.

The databases listed in the protocol are similar to the ones used in questions 1-3 but CINAHL and BNI were added to ensure coverage of the nursing and midwifery literature. To balance out the resources required, ASSIA was removed.

The search terms for the population of pregnant women are the same as in 5.1 and 5.2. Outcomes affecting the baby's health (e.g. low birth weight) are relevant to this review unlike RQ5.1 and RQ5.2 and so an additional set was added for miscarriage, stillbirth, birth weight and other outcomes listed in the revised protocol. The terms were compared to the searches for previous NICE guidance (including CG190 and NG124). The numbers were fairly low during testing because of the cohort filter, which meant that the terms could be left fairly broad such as “baby or babies or neonatal”, unlike in the previous

guidance where the terms were more precise. Terms for paediatrics and children were not included to focus the results on newborns. The term “doulas” was identified during testing and added. Doulas could be added to any update searches for RQ5.1 or RQ5.2 but they are about pregnancy and did not consider childbirth. Consider adding nurse midwives/ back into this search.

The ecigs terms are the same as in the final version of RQ4.1/6.3, which had already been QAed.

The NRT terms were cross checked against the two relevant Cochrane Reviews:

Hartmann-Boyce J et al. (2018) Nicotine replacement therapy versus control for smoking cessation. Cochrane Database of Systematic Reviews. 5:CD000146, 2018 05 31

Coleman T et al. (2015) Pharmacological interventions for promoting smoking cessation during pregnancy Cochrane Database of Systematic Reviews. (12)CD010078, 2015 Dec 22.

“Nicotine chewing gum” is a narrower term of “tobacco use cessation devices” but they were both included (rather than exploding) to make it clearer to the committee that the search was comprehensive. The search was updated to incorporate the change in the 2019 MeSH update from “tobacco use cessation products” to “tobacco use cessation devices”. Smoking cessation agents was added in MeSH 2019 update so was included here.

The date limits were removed from the search strategy because the technical team decided it would be inappropriate to have a date limit as part of the inclusion/exclusion criteria. There is still a date limit on the searches for RQ5.1 and RQ5.2. The date limit is relevant when there is a behavioural element to the question but not when the review is about a biological mechanism.

There is no English language limit to match the way that the updated Cochrane review is being done.

There are no websites in the protocol, at the technical team's request. There will be a single website search for RQ5.1 and RQ5.2 so if any potentially relevant items were retrieved during those searches they could be highlighted.

The search was initially tested against the papers included in the 2 Cochrane reviews. The search strategy retrieved 22 of the 24 papers indexed on MEDLINE and the other two were missed for legitimate reasons (they were excluded by the search limits). A further 4 includes were not indexed on MEDLINE.

The terms for cohort studies were then added. These are a combination of the terms used in the SIGN filter and the BMJ Best Practice filter. The BMJ filter has a line to include items indexed with epidemiologic methods/ between 1971 and 1988. It is necessary to include this because the search has no date limits and it has to capture anything published before the MeSH term Cohort Studies/ was introduced in 1989. The BMJ filter was amended to use the .yr field in Ovid so that it could be done on a single line instead of using the "Limit" command. It was not necessary to translate this into Embase as the Emtree term Cohort Analysis was established since 1975 and the term Epidemiology was only added in 1974, the year the database was established.

The final protocol did not specify any type of cohort study and so terms for prospective and retrospective were included. The set was made more sensitive by adding free-text terms from the non-preferred terms in MeSH and Emtree.

The scoping searches identified 3 potentially relevant papers with a cohort design. The rcts included in the Cochrane review were not used for further work given their study type. The 3 cohort studies were used in Web of Science for citation searching and reference harvesting. It is not possible to search within WOS to restrict the results to cohort studies. A line was added to the protocol to enable the team to download the WOS results to a separate EndNote file to be searched for relevant terms before passing on a precise set to the main results. Searching the EndNote file for e.g. *longitudinal* or

prospective or *cohort* in the titles and abstracts resulted in 200 of the 259 results being identified as potentially relevant. It was felt that this operation was of limited value and all 259 WOS results were passed into the main EndNote file.

The British Nursing Index searches were very difficult to run. The protocol had specified BNI would be searched via HDAS but this proved to be impracticable during extensive testing. The search would time out before any results could be accessed. The search was therefore run on the ProQuest native interface for BNI. The search had to be adapted before any results could be accessed. The free text for words such as “pre natal” had to be removed because of the list of stopwords. The punctuation in words such as “pre-natal” had to be removed because the search would not run with too many operators present.

The CINAHL search was similarly problematic but it was still run on HDAS. The results were downloaded in 8 separate files as it would time out when trying to combine them into a single set. These sets were downloaded into EndNote and the 247 results were deduplicated with the remaining 81 unique includes passed over to the main EndNote file.

The time out difficulties on BNI and CINAHL meant that no limits could be applied for publication types, which means conferences and letters will be included in the search results.

20 Search for RQ5.1, 5.2, 5.3 (Cost effectiveness)

<p>Topic: Tobacco Portfolio</p> <p>Question details:</p> <p>Cost Effectiveness elements of:</p> <ul style="list-style-type: none"> • 5.1a. Is opt-out provision of stop smoking support for pregnant women who smoke effective and cost effective in increasing uptake of the support and increasing smoking cessation? • 5.1b. Is opt-out provision of stop smoking support acceptable to women who are pregnant? What are the barriers and facilitators to taking up a referral once it has been made? • 5.2a. Are incentives to increase smoking cessation effective and cost effective among women who are pregnant? • 5.2b. Are incentives to increase smoking cessation acceptable to women who are pregnant? What are the barriers and facilitators to uptake of incentives? • 5.3a. Are nicotine replacement therapies (NRT) or e-cigarettes effective and cost effective at helping pregnant women who smoke to quit? • 5.3b. Are NRT and e-cigarettes safe for helping pregnant women who smoke to quit? • 5.3c. What are the barriers or facilitators to women taking up these interventions?

20.1 Table of results

Search source	Date searched	Database Platform	Database segment or version
Campbell	05/07/2019	https://campbellcollaboration.org/library.html	05/07/2019 with 378 records
EconLit	05/07/2019	Ovid	Econlit 1886 to June 27, 2019
Embase	05/07/2019	Ovid	Embase 1974 to 2019 July 03
HTA	05/07/2019	CRD https://www.crd.york.ac.uk/CRDWeb/	Last updated 31 March 2018
MEDLINE	05/07/2019	Ovid	Ovid MEDLINE(R) ALL 1946 to July 03, 2019

NHS EED	05/07/2019	CRD https://www.crd.york.ac.uk/CRDWeb/	Last updated 31st March 2015
Websites	05/07/2019	Browsed original search results	-
Includes from PH26	05/07/2019	Browsed original search results	-

Type	Search source	No. of records retrieved	Total Results	De-duplicated
Database	Campbell	0	3368	2531
	EconLit	161		
	Embase	1734		
	HTA	23		
	MEDLINE	1408		
	NHS EED	41		
Other source	Websites	1		
	Includes from PH26	0		

20.2 Database strategy outline

The search took a broad approach rather than using the original strategies from the three questions.

(smoking OR tobacco OR cigarettes OR shisha OR vaping OR NRT) AND
 (pregnancy OR maternity services OR obstetrics OR midwifery) AND
 (cost effectiveness filter) AND

Limits

20.3 Database strategies

20.3.1 Source: Campbell Library

Just searched for single words – once in the keywords, and once in the title field. Used the words below. No truncation or nesting available on the website but used variations of each word (e.g. plurals).

smoking	hand roll
smoker	handroll
antismoking	rollies
anti smoking	bupropion
anti-smoking	zyban
exsmoker	varenicline
ex-smoker	chamfix
"ex smoker"	nicorette
nonsmoker	niquitin
non-smoker	nicotinell
"non smoker"	nicassist
tobacco	waterpipe
nicotine	water pipe
cigar	dokha
cigarette	hooka
cigs	shisha
ecig	sheesha
e-cig	
e-voke	
juul	
vape	
vaping	
ENNDS	
bidi	
beedi	
kretek	

Only had one hit from all of those searches (conducted on 5 July 2019) but did not add it to the results as it is from LMIC.

Effectiveness of interventions for tobacco control in low- and middle-income countries: an evidence and gap map
<https://www.campbellcollaboration.org/library/intervention-effectiveness-tobacco-control-in-low-and-middle-income-countries.html>

20.3.2 Source: EconLitDatabase(s): **Econlit** 1886 to June 27, 2019

Search Strategy:

#	Searches	Results
1	(smoking* or smoker* or antismok* or anti smok* or anti-smok* or exsmoker* or ex-smoker* or "ex smoker*").ti,ab.	2037
2	(tobacco* or nicotin* or cigar* or cigs).ti,ab.	2505
3	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).ti,ab.	26
4	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).ti,ab.	19
5	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).ti,ab.	27
6	(electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).ti,ab.	14
7	((tobacco* or nicotin* or cigar* or cigs) adj3 (vapor* or vapour* or device* or inhalator* or inhaler*)).ti,ab.	1
8	(nicotin* and (ENDS or ANDS)).ti,ab.	0
9	(nicotin* adj3 deliver* system*).ti,ab.	1
10	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*)).ti,ab.	0
11	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).ti,ab.	0
12	(nrt or nicorette* or niquitin* or nicotinell* or nicassist*).ti,ab.	9
13	(nicotin* adj3 (replacement* or substitut* or gum* or inhaled* or inhaler* or inhalant* or inhalator* or spray* or lozenge* or tablet* or transdermal* or patch* or vaccin* or device* or gel* or pastil* or deliver* or sublingual* or therap* or treatment* or nasal* or microtab* or polacrilex* or product or products*)).ti,ab.	33
14	or/1-13	3654
15	pregnan*.ti,ab.	1291

16	(ante natal* or ante-natal* or antenatal* or pre natal* or pre-natal* or prenatal* or perinatal* or peri-natal* or perinatal*).ti,ab.	709
17	(maternity* or maternal* or obstetric* or midwif* or midwiv* or doula*).ti,ab.	2352
18	or/15-17	3729
19	14 and 18	161

20.3.3 Source: EmbaseDatabase(s): **Embase** 1974 to 2019 July 03

Search Strategy:

#	Searches	Results
1	"tobacco use"/	8738
2	tobacco consumption/	2249
3	tobacco/	43539
4	tobacco dependence/	19524
5	"smoking and smoking related phenomena"/	184
6	smoking/	288272
7	cigar smoking/	112
8	cigarette smoking/	52974
9	bidi smoking/	131
10	exp pipe smoking/	265
11	parental smoking/	1159
12	adolescent smoking/	1742
13	smoking reduction/	127
14	smoking cessation/	55725
15	smoking cessation program/	3150
16	nicotine/	43169
17	exp smoking device/	6466
18	(smoking* or smoker* or antismok* or anti smok* or anti-smok*).ti,ab.	346148
19	(tobacco* or nicotin* or cigar* or cigs).ti,ab.	244543
20	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).ti,ab.	867

21	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).ti,ab.	2549
22	electronic cigarette/	4873
23	Vaping/	896
24	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).ti,ab.	4138
25	(electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).ti,ab.	3037
26	((tobacco* or nicotin* or cigar* or cigs) adj3 (vapor* or vapour* or device* or inhalator* or inhaler*)).ti,ab.	1077
27	(nicotin* and (ENDS or ANDS)).ti,ab.	408
28	(nicotin* adj3 deliver* system*).ti,ab.	490
29	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*)).ti,ab.	473
30	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).ti,ab.	101
31	nicotine replacement therapy/	4853
32	nicotine gum/ or nicotine lozenge/ or nicotine patch/ or nicotine vaccine/	4370
33	(nrt or nicorette* or niquitin* or nicotinell* or nicassist*).ti,ab.	2601
34	(nicotin* adj3 (replacement* or substitut* or gum* or inhaled* or inhaler* or inhalant* or inhalator* or spray* or lozenge* or tablet* or transdermal* or patch* or vaccin* or device* or gel* or pastil* or deliver* or sublingual* or therap* or treatment* or nasal* or microtab* or polacrilex* or product or products*)).ti,ab.	12905
35	or/1-34	587902
36	exp pregnancy/	634996
37	exp pregnancy complication/	115804
38	pregnant woman/	70903
39	maternal health service/	1209

40	obstetric procedure/	2569
41	exp prenatal care/	143208
42	exp perinatal care/	55266
43	midwife/	24176
44	obstetrics/	33824
45	obstetrical nursing/	2418
46	nurse midwifery/	77
47	doula/	192
48	pregnan*.ti,ab.	597545
49	(ante natal* or ante-natal* or antenatal* or pre natal* or pre-natal* or prenatal* or peri natal* or peri-natal* or perinatal*).ti,ab.	238123
50	(maternity* or maternal* or obstetric* or midwif* or midwiv* or doula*).ti,ab.	432553
51	or/36-50	1196693
52	35 and 51	37582
53	maternal smoking/	6204
54	52 or 53	39383
55	health-economics/ or exp economic-evaluation/ or exp health-care-cost/ or pharmacoconomics/ or Monte Carlo Method/ or Decision Tree/	554774
56	(Economic* or cost or costs or costly or costing or costed or price or prices or pricing or pharmaco-economic* or pharmaco economic* or budget*).ti,ab.	971216
57	((monte adj carlo) or markov or (decision adj2 (tree* or analys*))).ti,ab.	81708
58	(value adj2 (money or monetary)).ti,ab.	3032
59	Quality of Life/ or Quality Adjusted Life Year/ or Quality of Life Index/ or Short Form 36/ or Health Status/	558153

60	(quality of life or quality adjusted life or qaly* or qald* or qale* or qtime* or quality of wellbeing or quality of well-being or willingness to pay or standard gamble* or time trade off* or time tradeoff*).ti,ab.	405297
61	(disability adjusted life or daly).ti,ab.	4172
62	Health* year* equivalent*.ti,ab.	41
63	(sf36 or sf 36 or short form 36 or shortform 36 or sf thirtysix or sf thirty six or shortform thirtysix or shortform thirty six or short form thirtysix or short form thirty six or sf6 or sf 6 or short form 6 or shortform 6 or sf six or sfsix or shortform six or short form six or sf12 or sf 12 or short form 12 or shortform 12 or sf twelve or sftwelve or shortform twelve or short form twelve or sf16 or sf 16 or short form 16 or shortform 16 or sf sixteen or sfsixteen or shortform sixteen or short form sixteen or sf20 or sf 20 or short form 20 or shortform 20 or sf twenty or sftwenty or shortform twenty or short form twenty or euroqol or euro qol or eq5d or eq 5d).ti,ab.	64854
64	or/55-63	1816850
65	((energy or oxygen) adj cost*) or (metabolic adj cost*) or ((energy or oxygen) adj expenditure*).ti,ab.	36345
66	64 not 65	1807666
67	exp animal/ or exp animal-experiment/ or nonhuman/	26083950
68	(rat or rats or mouse or mice or hamster or hamsters or animal or animals or dog or dogs or cat or cats or bovine or sheep).ti,ab,sh.	5491611
69	exp human/ or human-experiment/	19850421
70	67 or 68	26223227
71	70 not (70 and 69)	6373681
72	66 not 71	1690143
73	54 and 72	3028
74	(letter or editorial).pt.	1697433
75	73 not 74	2934

76	(conference abstract or conference paper or conference proceeding or "conference review").pt.	4227143
77	75 not 76	2306
78	limit 77 to medline	461
79	77 not 78	1845
80	limit 79 to english language	1734

20.3.4 Source: HTA<https://www.crd.york.ac.uk/CRDWeb/>

Search	Hits	
1	MeSH DESCRIPTOR Tobacco Use EXPLODE ALL TREES	361
2	MeSH DESCRIPTOR tobacco	14
3	MeSH DESCRIPTOR tobacco use disorder	80
4	MeSH DESCRIPTOR tobacco use cessation	13
5	MeSH DESCRIPTOR smoking	360
6	MeSH DESCRIPTOR smoking cessation	475
7	MeSH DESCRIPTOR nicotine	93
8	((smoking* or smoker* or antismok* or anti smok* or anti-smok* or exsmoker* or ex-smoker* or "ex smoker*"))	1505
9	((tobacco* or nicotin* or cigar* or cigs))	686
10	((bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies))	0
11	((waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas))	1
12	MeSH DESCRIPTOR Vaping	0
13	((ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS))	6
14	((electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)))	7
15	((((tobacco* or nicotin* or cigar* or cigs) adj3 (vapor* or vapour* or device* or inhalator* or inhaler*)))	15
16	((nicotin* and (ENDS or ANDS)))	1
17	((nicotin* adj3 deliver* system*))	2
18	((((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi)))	5

19	((polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*))	0
20	((nrt or nicorette* or niquitin* or nicotinell* or nicassist*))	82
21	((nicotin* adj3 (replacement* or substitut* or gum* or inhaled* or inhaler* or inhalant* or inhalator* or spray* or lozenge* or tablet* or transdermal* or patch* or vaccin* or device* or gel* or pastil* or deliver* or sublingual* or therap* or treatment* or nasal* or microtab* or polacrilex* or product or products*)))	227
22	#1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 OR #9 OR #10 OR #11 OR #12 OR #13 OR #14 OR #15 OR #16 OR #17 OR #18 OR #19 OR #20 OR #21	1646
23	MeSH DESCRIPTOR Pregnancy EXPLODE ALL TREES	2574
24	MeSH DESCRIPTOR Pregnancy complications EXPLODE ALL TREES	1431
25	MeSH DESCRIPTOR Pregnant Women	31
26	MeSH DESCRIPTOR Maternal Health Services EXPLODE ALL TREES	341
27	MeSH DESCRIPTOR Midwifery	49
28	MeSH DESCRIPTOR obstetrics	33
29	MeSH DESCRIPTOR obstetric nursing	3
30	MeSH DESCRIPTOR nurse midwives	16
31	MeSH DESCRIPTOR Doulas	3
32	(pregnan*)	4386
33	((ante natal* or ante-natal* or antenatal* or pre natal* or pre-natal* or prenatal* or peri natal* or peri-natal* or perinatal*))	1528
34	((maternity* or maternal* or obstetric* or midwif* or midwiv* or doula*))	2707
35	#23 OR #24 OR #25 OR #26 OR #27 OR #28 OR #29 OR #30 OR #31 OR #32 OR #33 OR #34	5589
36	#22 AND #35	164
37	(#22 AND #35) IN HTA	23

20.3.5 Source: MEDLINEDatabase(s): **Ovid MEDLINE(R) ALL** 1946 to July 03, 2019

Search Strategy:

#	Searches	Results
1	exp "tobacco use"/	2739
2	tobacco/	29676
3	"tobacco use disorder"/	10702
4	"tobacco use cessation"/	1083
5	"tobacco use cessation devices"/	1596
6	smoking/	136166
7	exp Pipe smoking/	104
8	smoking reduction/	26
9	"smoking cessation"/	26902
10	Smoking cessation agents/	50
11	nicotine/	24670
12	Smokers/	879
13	Ex-smokers/	21
14	exp Smoking Devices/	8690
15	(smoking* or smoker* or antismok* or anti smok* or anti-smok* or exsmoker* or ex-smoker* or "ex smoker*").ti,ab.	235803
16	(tobacco* or nicotin* or cigar* or cigs).ti,ab.	207571
17	(bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies).ti,ab.	584
18	(waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas).ti,ab.	2039
19	Electronic Nicotine Delivery Systems/	2442
20	Vaping/	336

21	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).ti,ab.	3485
22	(electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).ti,ab.	2528
23	((tobacco* or nicotin* or cigar* or cigs) adj3 (vapor* or vapour* or device* or inhalator* or inhaler*)).ti,ab.	834
24	(nicotin* and (ENDS or ANDS)).ti,ab.	351
25	(nicotin* adj3 deliver* system*).ti,ab.	408
26	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*)).ti,ab.	443
27	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).ti,ab.	106
28	nicotine chewing gum/	14
29	(nrt or nicorette* or niquitin* or nicotinell* or nicassist*).ti,ab.	1968
30	(nicotin* adj3 (replacement* or substitut* or gum* or inhaled* or inhaler* or inhalant* or inhalator* or spray* or lozenge* or tablet* or transdermal* or patch* or vaccin* or device* or gel* or pastil* or deliver* or sublingual* or therap* or treatment* or nasal* or microtab* or polacrilex* or product or products*)).ti,ab.	10435
31	or/1-30	403043
32	exp Pregnancy/	864313
33	exp Pregnancy complications/	410678
34	Pregnant Women/	7539
35	exp Maternal Health Services/	46272
36	Midwifery/	18596
37	obstetrics/	21849
38	obstetric nursing/	2955
39	nurse midwives/	6985
40	Doulas/	121

41	pregnan*.ti,ab.	478163
42	(ante natal* or ante-natal* or antenatal* or pre natal* or pre-natal* or prenatal* or perinatal* or peri-natal* or perinatal*).ti,ab.	183548
43	(maternity* or maternal* or obstetric* or midwif* or midwiv* or doula*).ti,ab.	342724
44	or/32-43	1177912
45	31 and 44	26674
46	Economics/ or exp "Costs and Cost Analysis"/ or Economics, Dental/ or exp Economics, Hospital/ or exp Economics, Medical/ or Economics, Nursing/ or Economics, Pharmaceutical/ or Budgets/ or exp Models, Economic/ or Markov Chains/ or Monte Carlo Method/ or Decision Trees/	331626
47	(Economic* or cost or costs or costly or costing or costed or price or prices or pricing or pharmacoeconomic* or pharmaco economic* or budget*).ti,ab.	745590
48	((monte adj carlo) or markov or (decision adj2 (tree* or analys*))).ti,ab.	73303
49	(value adj2 (money or monetary)).ti,ab.	2198
50	Quality of Life/ or Health Status Indicators/ or Quality-Adjusted Life Years/ or Value of Life/	209074
51	(quality of life or quality adjusted life or qaly* or qald* or qale* or qtime* or quality of wellbeing or quality of well-being or willingness to pay or standard gamble* or time trade off* or time tradeoff*).ti,ab.	255457
52	(disability adjusted life or daly).ti,ab.	3294
53	health* year* equivalent*.ti,ab.	40
54	(sf36 or sf 36 or short form 36 or shortform 36 or sf thirtysix or sf thirty six or shortform thirtysix or shortform thirty six or short form thirtysix or short form thirty six).ti,ab.	23994
55	(sf6 or sf 6 or short form 6 or shortform 6 or sf six or sfsix or shortform six or short form six).ti,ab.	1986
56	(sf12 or sf 12 or short form 12 or shortform 12 or sf twelve or sftwelve or shortform twelve or short form twelve).ti,ab.	5267

57	(sf16 or sf 16 or short form 16 or shortform 16 or sf sixteen or sfsixteen or shortform sixteen or short form sixteen).ti,ab.	32
58	(sf20 or sf 20 or short form 20 or shortform 20 or sf twenty or sftwenty or shortform twenty or short form twenty).ti,ab.	393
59	(euroqol or euro qol or eq5d or eq 5d).ti,ab.	9606
60	or/46-59	1246491
61	((energy or oxygen) adj cost*) or (metabolic adj cost*) or ((energy or oxygen) adj expenditure*).ti,ab.	29669
62	60 not 61	1238306
63	45 and 62	1556
64	Animals/ not (Animals/ and Humans/)	4562332
65	63 not 64	1545
66	limit 65 to (letter or historical article or comment or editorial or news or case reports)	27
67	65 not 66	1518
68	limit 67 to english language	1408

20.3.6 Source: NHS EED

Search	Hits	
1	MeSH DESCRIPTOR Tobacco Use EXPLODE ALL TREES	361
2	MeSH DESCRIPTOR tobacco	14
3	MeSH DESCRIPTOR tobacco use disorder	80
4	MeSH DESCRIPTOR tobacco use cessation	13
5	MeSH DESCRIPTOR smoking	360
6	MeSH DESCRIPTOR smoking cessation	475
7	MeSH DESCRIPTOR nicotine	93
8	((smoking* or smoker* or antismok* or anti smok* or anti-smok* or exsmoker* or ex-smoker* or "ex smoker*"))	1505
9	((tobacco* or nicotin* or cigar* or cigs))	686
10	((bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies))	0
11	((waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas))	1
12	MeSH DESCRIPTOR Vaping	0
13	((ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS))	6
14	((electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)))	7
15	((((tobacco* or nicotin* or cigar* or cigs) adj3 (vapor* or vapour* or device* or inhalator* or inhaler*)))	15
16	((nicotin* and (ENDS or ANDS)))	1
17	((nicotin* adj3 deliver* system*))	2
18	((((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi)))	5
19	((polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*))	0

20	((nrt or nicorette* or niquitin* or nicotinell* or nicassist*))	82
21	((nicotin* adj3 (replacement* or substitut* or gum* or inhaled* or inhaler* or inhalant* or inhalator* or spray* or lozenge* or tablet* or transdermal* or patch* or vaccin* or device* or gel* or pastil* or deliver* or sublingual* or therap* or treatment* or nasal* or microtab* or polacrilex* or product or products*)))	227
22	#1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 OR #9 OR #10 OR #11 OR #12 OR #13 OR #14 OR #15 OR #16 OR #17 OR #18 OR #19 OR #20 OR #21	1646
23	MeSH DESCRIPTOR Pregnancy EXPLODE ALL TREES	2574
24	MeSH DESCRIPTOR Pregnancy complications EXPLODE ALL TREES	1431
25	MeSH DESCRIPTOR Pregnant Women	31
26	MeSH DESCRIPTOR Maternal Health Services EXPLODE ALL TREES	341
27	MeSH DESCRIPTOR Midwifery	49
28	MeSH DESCRIPTOR obstetrics	33
29	MeSH DESCRIPTOR obstetric nursing	3
30	MeSH DESCRIPTOR nurse midwives	16
31	MeSH DESCRIPTOR Doulas	3
32	(pregnan*)	4386
33	((ante natal* or ante-natal* or antenatal* or pre natal* or pre-natal* or prenatal* or peri natal* or peri-natal* or perinatal*))	1528
34	((maternity* or maternal* or obstetric* or midwif* or midwiv* or doula*))	2707
35	#23 OR #24 OR #25 OR #26 OR #27 OR #28 OR #29 OR #30 OR #31 OR #32 OR #33 OR #34	5589
36	#22 AND #35	164
37	(#22 AND #35) IN NHSEED	41

20.3.7 Includes from PH26

No cost effectiveness studies were identified from the following evidence reviews for PH26:

- Bauld L and Coleman T (2009) The Effectiveness of Smoking Cessation Interventions during Pregnancy: A Briefing Paper
<https://www.nice.org.uk/guidance/ph26/evidence/effectiveness-of-smoking-cessation-interventions-during-pregnancy-a-briefing-paper-pdf-376336333>
- British Columbia Centre of Excellence for Women's Health (2009) Interventions to Improve Partner Support and Partner Cessation During Pregnancy <https://www.nice.org.uk/guidance/ph26/evidence/interventions-to-improve-partner-support-and-partner-cessation-during-pregnancy-pdf-376423165>
- Queen Mary University of London (2009) Rapid review of interventions to prevent relapse in pregnant ex-smokers
<https://www.nice.org.uk/guidance/ph26/evidence/rapid-review-of-interventions-to-prevent-relapse-in-pregnant-exsmokers-pdf-376427053>
- ScHARR (2009) Systematic review of how to stop smoking in pregnancy and following childbirth. Review 1: Which interventions are effective and cost effective in encouraging the establishment of smoke free homes? Review 2: Factors aiding delivery of effective interventions. Review 3: The health consequences of pregnant women cutting down as opposed to quitting <https://www.nice.org.uk/guidance/ph26/evidence/systematic-review-pdf-376475005>
 - Note on p42 and p65 it states, "No evidence was identified on the cost effectiveness of the interventions."
 - Note: ScHARR *excluded* 3 papers with "cost" in the titles. These 3 papers have all been retrieved in our results and are in the EndNote file:
 - Ershoff, D. H., Quinn, V. P., Mullen, P. D., Lairson, D. R. 1990, "Pregnancy and medical cost outcomes of a self-help prenatal

smoking cessation program in a HMO", *Public Health Reports*, vol. 105, no. 4, pp. 340-347.

- Ruger, J. P., Weinstein, M. C., Hammond, S. K., Kearney, M. H., Emmons, K. M., Ruger, J. P., Weinstein, M. C., Hammond, S. K., Kearney, M. H., & Emmons, K. M. 2008, "Cost-effectiveness of motivational interviewing for smoking cessation and relapse prevention among low-income pregnant women: a randomized controlled trial", *Value in Health*, vol. 11, no. 2, pp. 191-198.
- Windsor, R. A., Warner, K. E., Cutter, G. R., Windsor, R. A., Warner, K. E., & Cutter, G. R. 1988, "A cost-effectiveness analysis of self-help smoking cessation methods for pregnant women", *Public Health Reports*, vol. 103, no. 1, pp. 83-88.
- YHEC (2009) Economic Analysis of Interventions for Smoking Cessation Aimed at Pregnant Women Supplementary Report
<https://www.nice.org.uk/guidance/ph26/evidence/economic-analysis-review-pdf-376281901>

20.4 Web searching

The web results from the searches for RQ5.1 and RQ5.2 (completed on 24 April 2019) were re-scanned on 5 July 2019 for any results potentially relevant to this review. The Word file was scanned manually and also searched (with ctrl+F) for cost, economic, quality, qaly, value, price and cost. No web search was done for RQ5.3.

For full details of the search strategies and sources see the website document for RQ5.1 and RQ5.2.

Results selected for this review	Original website search	Action
<p>Public Health Research Consortium (2008) Estimating costs to the NHS of smoking in pregnancy for pregnant women and infants</p> <p>Costs to the NHS related to maternal increased risk of spontaneous abortion, ectopic pregnancy, placenta previa, abruptio placenta, preterm premature rupture of membranes and decreased risk of pre-eclampsia are estimated to be between £8-64 million per year based on different costing methodologies.</p> <p>Costs to the NHS related to infant (0-12 months) increased risk of preterm delivery, low birth weight, Sudden Infant Death Syndrome, perinatal mortality, asthma, otitis media, and upper and lower respiratory infections are estimated to be between £1223.5 million per year.</p> <p>Smoking cessation interventions for pregnant women have been shown to be effective in significantly increasing quitting rates. In this report, we estimate that spending between £13.60-£37.00 per pregnant smoker would yield positive cost savings for the NHS.</p> <p>http://phrc.lshtm.ac.uk/papers/PHRC_A3-06_Final_Report.pdf</p>	5.1/5.2	Added to EndNote manually

20.5 Search narrative

The search took a broad approach rather than using the original strategies from the three effectiveness questions. The search has the structure “Smoking AND Pregnancy AND CE Filter” rather than applying the filter to the full search strategies used in RQ5.1, RQ5.2 and RQ5.3. This was to make the search more sensitive and to make it simpler and quicker to translate to the other sources. For example, the terms for incentives would have been combined with the terms for smoking but not with the terms for e-cigarettes or NRT. The CE filter was the standard filter used by NICE (which already had the terms for excluding animal studies attached).

A full search strategy was not available for RQ5.3a because this is being completed by Cochrane using their registry of studies. We had completed a search for RQ5.3b and the vaping and NRT terms were taken from this.

The RQ5.3b search had used terms for miscarriage, low birth weight and pregnancy outcomes relating to the baby that were not used in the CE search. These outcomes were not included in RQ5.1, RQ5.2 or RQ5.3a as these questions focused on the pregnant woman.

RQ5.1 and RQ5.2 had different limits applied to RQ5.3 and so the CE search could not be consistent with all 3 of them. It was decided to retain the English language limit on the CE search as resources for translating papers were not available. The date limit of 1998-current was not used in the CE search. The date limit had been applied to RQ5.1 and RQ5.2 as these questions had behavioural elements, whereas RQ5.3 was a biomedical question. It was safer to remove the date limit rather than finding later that we should not have used it. It was decided that if any pre-1998 papers were identified for the CE review then we would run top up searches for pre-1998 results for RQ5.1 and RQ5.2 to ensure consistency. It was noted that the SchARR review in 2009 for PH26 had not identified any included CE papers.

Note that HTA and NHS EED are not currently being updated:

- From 31 March 2018, the HTA database remains available, but CRD are no longer adding new records to it.
- Bibliographic records were published on NHS EED until 31st March 2015. Searches of MEDLINE, Embase, CINAHL, PsycINFO and PubMed were continued until the end of the 2014.

A shorter version was run in the CRD databases as some of the MeSH terms were not available through the CRD interface e.g.

- exp Pipe smoking/
- smoking reduction/
- Smoking cessation agents/
- Smokers/ or Ex-smokers/
- exp Smoking Devices/

21 Search for RQ6.1a

22 Main search (Effectiveness)

Topic: Tobacco Portfolio

Question details:

6.1a. What are the most effective and cost effective means of smoking cessation (including e-cigarettes)?

Done by Bristol University rather than NICE and available separately.

23 Search for RQ6.1a Rerun 1

The searches are based on the strategy we received from Bristol University with a search date of 22 January 2019. The searches were adapted to make them appropriate to the screening criteria for the NICE review. There was no new QA or peer review as we were using existing searches.

23.1 Table of results

Database name	Date searched	Database Platform	Database segment or version
Cochrane Central Register of Controlled Trials (CENTRAL)	14/11/2019	Wiley	Cochrane Central Register of Controlled Trials Issue 11 of 12, November 2019
Cochrane Database of Systematic Reviews (CDSR)	14/11/2019	Wiley	Cochrane Database of Systematic Reviews Issue 11 of 12, November 2019
Embase	14/11/2019	Ovid	Embase 1974 to 2019 November 13
MEDLINE	14/11/2019	Ovid	Ovid MEDLINE(R) 1946 to November 13, 2019
MEDLINE-in-Process	14/11/2019	Ovid	Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations 1946 to November 13, 2019
MEDLINE-in-Process Epub Ahead-of-Print	14/11/2019	Ovid	Ovid MEDLINE(R) Epub Ahead of Print November 13, 2019, Ovid MEDLINE(R) Daily Update November 13, 2019
PsycINFO	14/11/2019	Ovid	PsycINFO 1806 to November Week 1 2019
Web of Science	14/11/2019	Clarivate	Web of Science Core Collection = SCI-EXPANDED, SSCI, A&HCI, ESCI

Search source	No. of records retrieved	Results	Total results	De-duplicated
Cochrane Central Register of Controlled Trials (CENTRAL)	357	1709	1709	1170
Cochrane Database of Systematic Reviews (CDSR)	9			
Embase	171			
MEDLINE	263			
MEDLINE-in-Process	222			
MEDLINE-in-Process Epub Ahead-of-Print	145			
PsycINFO	128			
Web of Science Core Collection (WOS)	414			

23.2 Database strategy outline

Smoking Cessation AND (Bupropion OR Varenicline OR NRT OR Ecigs OR Polytobacco) AND RCT Filter AND Limits

The main searches were run on 22 January 2019 by Bristol University

These re-run searches were run on 14 November 2019 by NICE Information Services.

23.3 Re-run narrative

The searches are based on the strategy we received from Bristol University with a search date of 22 January 2019. The searches were adapted to make them appropriate to the screening criteria for the NICE review. There was no new QA or peer review as we were using existing searches.

1709 results were added to the file for the re-run search. 539 duplicates were removed. The remaining 1170 were compared to the 814 included studies we had received in an EndNote file from Bristol in July 2019. A further 33 publications that had been seen previously were removed. There were 1137 results to be screened from this re-run search.

The modifications to the search were to make it appropriate to the NICE review rather than the Bristol review. Truncation was added in several places e.g. to the names of drugs. The interventions were expanded to include juul and the lines for polytobacco were added. The free-text terms for waterpipes and hookah were added. Basing this search on Bristol means there are some slight differences to the NICE search for cost effectiveness covering both RQ6.1a and RQ6.1b.

Cystine (Tabex) was included in some of the Bristol searches but it has not been included here as the protocol specifies that interventions unlicensed in the UK are out of scope.

Line 33 in the Bristol search was deleted as it was an orphan line and was covered elsewhere.

((smoking or tobacco) adj5 (cessation or ceas* or quit* or stop* or giv* or prevent* or abstain* or abstin* or control*)).ti,kf.

No websites were searched for grey literature in line with Bristol. Clinical trial registers were not searched (as they were in Bristol) because the NICE technical team did not want to include clinical trial registers as the protocol specifies that only published papers will be included and the protocol excludes unpublished data.

The English language limit was included as part of standard NICE practice, although the Bristol protocol did not have any language limits. The non-English papers would have been screened out anyway.

The same rct filters were used to be consistent with the filters used in Bristol. This means the rct filter is more sensitive than the one used in standard NICE practice. The NICE search for RQ6.1b also included SRs of RCTs but that was not done in Bristol (which is why CDSR was included here).

Bristol had searched WOS as a database (rather than for citation searching) and so that was repeated here. The WOS searched was adapted from Bristol to be more consistent with the NICE MEDLINE search. This aimed to be focussed. There is not an agreed animals limit, or rct filter on WOS and only publication date, rather than date of entry, could be used.

23.4 Database strategies

23.4.1 Database name: Cochrane Central Register of Controlled Trials (CENTRAL)

- #1 MeSH descriptor: [Smoking] this term only 5664
- #2 MeSH descriptor: [Tobacco Smoking] this term only 41
- #3 MeSH descriptor: [Tobacco] this term only 158
- #4 MeSH descriptor: [Nicotine] this term only 2405
- #5 MeSH descriptor: [Tobacco Products] this term only 171
- #6 MeSH descriptor: [Smoking Cessation] this term only 3820
- #7 MeSH descriptor: [Tobacco Use Cessation] this term only 95
- #8 MeSH descriptor: [Tobacco Use Disorder] this term only 1518
- #9 MeSH descriptor: [Smokers] this term only 131
- #10 MeSH descriptor: [Ex-Smokers] this term only 0
- #11 (smoking* or smoker* or antismok* or anti smok* or anti-smok* or exsmoker* or ex-smoker* or "ex smoker*"):ti,ab 30554
- #12 (tobacco* or cigar* or cigarette* or nicotine*):ti,ab 14251
- #13 ((quit or quits or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or cut or cuts or cutting or abstain* or abstinen* or giv* up or discontinu*) near/3 (smoker* or smoking* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies or waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas)):ti,ab 11030
- #14 #1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 OR #9 OR #10 OR #11 OR #12 OR #13 35524
- #15 MeSH descriptor: [Nicotine Chewing Gum] this term only 8
- #16 MeSH descriptor: [Tobacco Use Cessation Devices] this term only 454
- #17 MeSH descriptor: [Smoking Cessation Agents] this term only 15

- #18 MeSH descriptor: [Bupropion] this term only 753
- #19 MeSH descriptor: [Varenicline] this term only 417
- #20 MeSH descriptor: [Nicotinic Agonists] this term only 716
- #21 (NRT or nicotine replacement*):ti,ab 1687
- #22 bupropion*:ti,ab 1484
- #23 (amfebutamone* or quomen* or wellbutrin* or zyban* or zynabac*):ti,ab 114
- #24 varenicline*:ti,ab 816
- #25 (chamfix* or chantix*):ti,ab 103
- #26 (nicotin* near/3 (replacement* or substitute* or gum* or inhaled* or inhaler* or inhalant* or inhalator* or spray* or lozenge* or tablet* or transdermal* or patch* or vaccin* or device* or gel* or pastil* or deliver* or sublingual* or therap* or treatment* or nasal* or microtab* or polacrilex* or product or products*)):ti,ab 3652
- #27 (nicorette* or niquitin* or nicotinell* or nicassist*):ti,ab 118
- #28 (nicotinic* near/3 agonist*):ti,ab 192
- #29 (benzazepine* near/2 derivative*):ti,ab 2
- #30 nicotinic receptor partial agonist*:ti,ab 128
- #31 #15 or #16 or #17 OR #18 OR #19 OR #20 OR #21 OR #22 OR #23 OR #24 or #25 or #26 or #27 or #28 or #29 or #30 5922
- #32 MeSH descriptor: [Electronic Nicotine Delivery Systems] this term only 84
- #33 MeSH descriptor: [Vaping] this term only 17
- #34 (electr* near/2 (cig* or nicotine* or device* or tobacco*)):ti,ab 1462
- #35 (ecig* or e-cig* or e-voke* or juul* or ENNDS):ti,ab 414
- #36 (nicotine* near/4 (electr* or ENDS or aerosol* or ANDS)):ti,ab 150
- #37 (vape or vaper or vapers or vaping or vapor or vapour):ti,ab 747

- #38 ((tobacco* or nicotin* or cigar* or cigs) near/3 (dual* or multiple* or multi) near/3 ("use" or uses or user* or usage* or using*)):ti,ab 34
- #39 (polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*):ti,ab 278
- #40 #31 or #32 or #33 or #34 or #35 or #36 or #37 or #38 or #39 8195
- #41 #31 or #40 8195
- #42 #14 and #41 5366
- #43 (clinicaltrials or trialsearch):so 275329
- #44 #42 not #43 4087
- #45 conference:pt 165107
- #46 #44 not #45 3698
- #47 #44 not #45 with Cochrane Library publication date Between Jan 2019 and Nov 2019, in Trials 357

Used the date added to Cochrane Library rather than date of original publication.

23.4.2 Database name: Cochrane Database of Systematic Reviews (CDSR)

- #1 MeSH descriptor: [Smoking] this term only 5664
- #2 MeSH descriptor: [Tobacco Smoking] this term only 41
- #3 MeSH descriptor: [Tobacco] this term only 158
- #4 MeSH descriptor: [Nicotine] this term only 2405
- #5 MeSH descriptor: [Tobacco Products] this term only 171
- #6 MeSH descriptor: [Smoking Cessation] this term only 3820
- #7 MeSH descriptor: [Tobacco Use Cessation] this term only 95
- #8 MeSH descriptor: [Tobacco Use Disorder] this term only 1518
- #9 MeSH descriptor: [Smokers] this term only 131
- #10 MeSH descriptor: [Ex-Smokers] this term only 0
- #11 (smoking* or smoker* or antismok* or anti smok* or anti-smok* or exsmoker* or ex-smoker* or "ex smoker*"):ti,ab 30554
- #12 (tobacco* or cigar* or cigarette* or nicotine*):ti,ab 14251
- #13 ((quit or quits or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or cut or cuts or cutting or abstain* or abstinen* or giv* up or discontinu*) near/3 (smoker* or smoking* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies or waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas)):ti,ab 11030
- #14 #1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 OR #9 OR #10 OR #11 OR #12 OR #13 35524
- #15 MeSH descriptor: [Nicotine Chewing Gum] this term only 8
- #16 MeSH descriptor: [Tobacco Use Cessation Devices] this term only 454
- #17 MeSH descriptor: [Smoking Cessation Agents] this term only 15
- #18 MeSH descriptor: [Bupropion] this term only 753
- #19 MeSH descriptor: [Varenicline] this term only 417

- #20 MeSH descriptor: [Nicotinic Agonists] this term only 716
- #21 (NRT or nicotine replacement*):ti,ab 1687
- #22 bupropion*:ti,ab 1484
- #23 (amfebutamone* or quomen* or wellbutrin* or zyban* or zyntabac*):ti,ab 114
- #24 varenicline*:ti,ab 816
- #25 (chamfix* or chantix*):ti,ab 103
- #26 (nicotin* near/3 (replacement* or substitute* or gum* or inhaled* or inhaler* or inhalant* or inhalator* or spray* or lozenge* or tablet* or transdermal* or patch* or vaccin* or device* or gel* or pastil* or deliver* or sublingual* or therap* or treatment* or nasal* or microtab* or polacrilex* or product or products*)):ti,ab 3652
- #27 (nicorette* or niquitin* or nicotinell* or nicassist*):ti,ab 118
- #28 (nicotinic* near/3 agonist*):ti,ab 192
- #29 (benzazepine* near/2 derivative*):ti,ab 2
- #30 nicotinic receptor partial agonist*:ti,ab 128
- #31 #15 or #16 or #17 OR #18 OR #19 OR #20 OR #21 OR #22 OR #23 OR #24 or #25 or #26 or #27 or #28 or #29 or #30 5922
- #32 MeSH descriptor: [Electronic Nicotine Delivery Systems] this term only 84
- #33 MeSH descriptor: [Vaping] this term only 17
- #34 (electr* near/2 (cig* or nicotine* or device* or tobacco*)):ti,ab 1462
- #35 (ecig* or e-cig* or e-voke* or juul* or ENNDS):ti,ab 414
- #36 (nicotine* near/4 (electr* or ENDS or aerosol* or ANDS)):ti,ab 150
- #37 (vape or vaper or vapers or vaping or vapor or vapour):ti,ab 747
- #38 ((tobacco* or nicotin* or cigar* or cigs) near/3 (dual* or multiple* or multi) near/3 ("use" or uses or user* or usage* or using*)):ti,ab 34

#39 (polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*):ti,ab 278

#40 #31 or #32 or #33 or #34 or #35 or #36 or #37 or #38 or #39 8195

#41 #31 or #40 8195

#42 #14 and #41 5366

#43 (clinicaltrials or trialsearch):so 275329

#44 #42 not #43 4087

#45 conference:pt 165107

#46 #44 not #45 with Cochrane Library publication date in The last year, in Cochrane Reviews, Cochrane Protocols 9

[Results: Cochrane Reviews = 9; Cochrane Protocols = 0]

23.4.3 Database name: EmbaseDatabase(s): **Embase** 1974 to 2019 November 13

Search Strategy:

#	Searches	Results
1	exp smoking/	373435
2	tobacco/ or tobacco consumption/ or "tobacco use"/	54761
3	tobacco dependence/	20018
4	nicotine/	43762
5	smoking cessation/	57037
6	smoking cessation program/	3232
7	(smoking* or smoker*).ti,ab,kw.	359853
8	(tobacco* or cigar* or cigarette* or nicotine*).ti,ab,kw.	208809
9	((quit or quits or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or cut or cuts or cutting or abstain* or abstin* or giv* up or discontinu*) adj3 (smoker* or smoking* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies or waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas)).ti,ab,kw.	49153
10	(antismok* or anti smok* or anti-smok* or exsmoker* or ex-smoker* or "ex smoker*").ti,ab,kw.	9977
11	or/1-10	566676
12	Bupropion/ or Amfebutamone/	17901
13	varenicline/	4287
14	nicotinic agent/	3198
15	nicotine vaccine/ or nicotine replacement therapy/ or nicotine lozenge/ or nicotine gum/ or nicotine patch/	7960
16	(NRT or nicotine replacement*).ti,ab,kw.	5497
17	bupropion*.ti,ab,kw.	6127

18	(amfebutamone* or quomen* or wellbutrin* or zyban* or zyntabac*).ti,ab,kw.	336
19	varenicline*.ti,ab,kw.	2664
20	(champix* or chantix*).ti,ab,kw.	210
21	(nicotin* adj3 (replacement* or substitute* or gum* or inhaled* or inhaler* or inhalant* or inhalator* or spray* or lozenge* or tablet* or transdermal* or patch* or vaccin* or device* or gel* or pastil* or deliver* or sublingual* or therap* or treatment* or nasal* or microtab* or polacrilex* or product or products*).ti,ab,kw.	13573
22	(nicorette* or niquitin* or nicotinell* or nicassist*).ti,ab,kw.	154
23	(nicotinic* adj3 agonist*).ti,ab,kw.	2853
24	(benzazepine* adj2 derivative*).ti,ab,kw.	110
25	nicotinic receptor partial agonist*.ti,ab,kw.	91
26	or/12-25	39138
27	electronic cigarette/	5424
28	vaping/	1185
29	(electr* adj2 (cig* or nicotine* or device* or tobacco*).ti,ab,kw.	20371
30	(ecigr* or e-cig* or e-voke* or juul* or ENNDS).ti,ab,kw.	4522
31	(nicotine* adj4 (electr* or ENDS or aerosol* or ANDS)).ti,ab,kw.	1421
32	(vape or vaper or vapers or vaping or vapor or vapour).ti,ab,kw.	40188
33	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*).ti,ab,kw.	525
34	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).ti,ab,kw.	122
35	or/27-34	62376
36	clinical trial/ or controlled clinical trial/ or phase 1 clinical trial/ or phase 2 clinical trial/ or phase 3 clinical trial/ or phase 4 clinical trial/	1116885
37	randomized controlled trial/	580537

38	randomization/	84898
39	double blind procedure/ or single blind procedure/ or triple blind procedure/	203247
40	placebo/	343706
41	((clin* or randomi?ed) adj5 trial*).ti,ab,kw.	900478
42	((singl* or doubl* or trebl* or tripl*) adj5 (blind* or mask*)).ti,ab,kw.	236017
43	placebo*.ti,ab,kw.	300669
44	control group/	110434
45	randomi?ation.ti,ab,kw.	56033
46	randomly.ab.	426444
47	(random* adj3 (administ* or allocat* or assign* or class* or control* or determine* or divide* or distribut* or expose* or fashion or number* or place* or recruit* or substitut* or treat*)).ab.	628452
48	(control* adj3 (trial* or study or studies)).ab,ti.	675669
49	((singl* or doubl* or tripl* or trebl*) adj3 (blind* or mask* or dummy*)).mp.	300184
50	(quasi adj (experimental* or random*)).ti,ab.	19889
51	((waitlist* or wait* list* or treatment as usual or TAU) adj3 (control or group)).ab.	7522
52	or/36-51	2684910
53	((animal or nonhuman) not human).sh.	5540969
54	(animal experiment not (human experiment or human)).sh.	2189620
55	(rat or rats or rodent* or mouse or mice or murine or sheep or lambs or ovine or pigs or piglets or swine or porcine or rabbit or rabbits or cat or cats or feline or dog or dogs or canine or cattle or bovine or monkey or monkeys or primate*).ti. and animal experiment/	1067004
56	or/53-55	5911989
57	52 not 56	2484493

58	26 or 35	99292
59	11 and 58	26677
60	57 and 59	6622
61	(letter or editorial).pt.	1721081
62	60 not 61	6440
63	(conference abstract or conference paper or conference proceeding or "conference review").pt.	4392921
64	62 not 63	5608
65	limit 64 to medline	761
66	64 not 65	4847
67	limit 66 to english language	4655
68	limit 67 to dc=20190121-20191114	171

23.4.4 Database name: MEDLINEDatabase(s): **Ovid MEDLINE(R)** 1946 to November 13, 2019

Search Strategy:

#	Searches	Results
1	Smoking/	137725
2	Tobacco Smoking/	757
3	Tobacco/	30121
4	Nicotine/	24976
5	Tobacco Products/	3626
6	Smoking Cessation/	27578
7	"Tobacco Use Cessation"/	1121
8	"Tobacco Use Disorder"/	10923
9	smokers/ or Ex-smokers/	1261
10	(smoking* or smoker*).ti,ab,kf.	215790
11	(tobacco* or cigar* or cigarette* or nicotine*).ti,ab,kf.	151473
12	((quit or quits or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or cut or cuts or cutting or abstain* or abstin* or giv* up or discontinu*) adj3 (smoker* or smoking* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies or waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas)).ti,ab,kf.	32608
13	(antismok* or anti smok* or anti-smok* or exsmoker* or ex-smoker* or "ex smoker*").ti,ab,kf.	5627
14	or/1-13	330726
15	Nicotine Chewing Gum/	16
16	"tobacco use cessation devices"/	1694
17	Smoking cessation agents/	93

18	Bupropion/	2968
19	Varenicline/	1233
20	Nicotinic Agonists/	7185
21	(NRT or nicotine replacement*).ti,ab,kf.	3569
22	bupropion*.ti,ab,kf.	3741
23	(amfebutamone* or quomen* or wellbutrin* or zyban* or zyntabac*).ti,ab,kf.	186
24	varenicline*.ti,ab,kf.	1422
25	(chamfix* or chantix*).ti,ab,kf.	95
26	(nicotin* adj3 (replacement* or substitute* or gum* or inhaled* or inhaler* or inhalant* or inhalator* or spray* or lozenge* or tablet* or transdermal* or patch* or vaccin* or device* or gel* or pastil* or deliver* or sublingual* or therap* or treatment* or nasal* or microtab* or polacrilex* or product or products*).ti,ab,kf.	11931
27	(nicorette* or niquitin* or nicotinell* or nicassist*).ti,ab,kf.	105
28	(nicotinic* adj3 agonist*).ti,ab,kf.	2152
29	(benzazepine* adj2 derivative*).ti,ab,kf.	70
30	nicotinic receptor partial agonist*.ti,ab,kf.	58
31	or/15-30	23066
32	Electronic Nicotine Delivery Systems/	2766
33	Vaping/	511
34	(electr* adj2 (cig* or nicotine* or device* or tobacco*).ti,ab,kf.	10860
35	(ecig* or e-cig* or e-voke* or juul* or ENNDS).ti,ab,kf.	2514
36	(nicotine* adj4 (electr* or ENDS or aerosol* or ANDS)).ti,ab,kf.	899
37	(vape or vaper or vapers or vaping or vapor or vapour).ti,ab,kf.	23853
38	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*).ti,ab,kf.	344

39	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).ti,ab,kf.	93
40	or/32-39	35748
41	randomized controlled trial.pt.	494146
42	controlled clinical trial.pt.	93404
43	pragmatic clinical trial.pt.	1221
44	clinical trial.pt.	519103
45	clinical trial/ or clinical trial, phase i/ or clinical trial, phase ii/ or clinical trial, phase iii/ or clinical trial, phase iv/ or controlled clinical trial/	585065
46	Random Allocation/	101120
47	randomized controlled trial/	494146
48	pragmatic clinical trial/	1221
49	Double-Blind Method/	154687
50	Single-Blind Method/	27623
51	Placebos/	34601
52	((clin* or randomi?ed) adj5 trial*).ti,ab,kf.	535977
53	((singl* or doubl* or trebl* or tripl*) adj5 (blind* or mask*)).ti,ab,kf.	153888
54	placebo*.ti,ab,kf.	190671
55	control groups/	1640
56	randomi?ation.ti,ab,kf.	30394
57	randomly.ab.	274416
58	(random* adj3 (administ* or allocat* or assign* or class* or control* or determine* or divide* or distribut* or expose* or fashion or number* or place* or recruit* or substitut* or treat*)).ab.	390723
59	drug therapy.fs.	2157239

60	trial.ti,ab,kf.	491894
61	groups.ab.	1700801
62	(control* adj3 (trial* or study or studies)).ab,ti.	433026
63	((singl* or doubl* or tripl* or trebl*) adj3 (blind* or mask* or dummy*)).mp.	215629
64	(quasi adj (experimental* or random*)).ti,ab.	13695
65	((waitlist* or wait* list* or treatment as usual or TAU) adj3 (control or group)).ab.	4723
66	or/41-65	4578495
67	31 or 40	57518
68	14 and 67	17916
69	66 and 68	6568
70	Animals/ not (Animals/ and Humans/)	4609630
71	69 not 70	5502
72	limit 71 to (letter or historical article or comment or editorial or news or case reports)	346
73	71 not 72	5156
74	limit 73 to english language	4928
75	limit 74 to ed=20190121-20191114	263

23.4.5 Database name: MEDLINE-in-Process

Database(s): **Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations** 1946 to November 13, 2019
 Search Strategy:

#	Searches	Results
1	(smoking* or smoker*).ti,ab,kf.	23311
2	(tobacco* or cigar* or cigarette* or nicotine*).ti,ab,kf.	17446
3	((quit or quits or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or cut or cuts or cutting or abstain* or abstin* or give* up or discontinu*) adj3 (smoker* or smoking* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies or waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas)).ti,ab,kf.	3829
4	(antismok* or anti smok* or anti-smok* or exsmoker* or ex-smoker* or "ex smoker").ti,ab,kf.	481
5	or/1-4	33212
6	(NRT or nicotine replacement*).ti,ab,kf.	464
7	bupropion*.ti,ab,kf.	406
8	(amfebutamone* or quomen* or wellbutrin* or zyban* or zyntabac*).ti,ab,kf.	17
9	varenicline*.ti,ab,kf.	223
10	(champix* or chantix*).ti,ab,kf.	21
11	(nicotin* adj3 (replacement* or substitute* or gum* or inhaled* or inhaler* or inhalant* or inhalator* or spray* or lozenge* or tablet* or transdermal* or patch* or vaccin* or device* or gel* or pastil* or deliver* or sublingual* or therap* or treatment* or nasal* or microtab* or polacrilex* or product or products)).ti,ab,kf.	1065
12	(nicorette* or niquitin* or nicotinell* or nicassist*).ti,ab,kf.	5
13	(nicotinic* adj3 agonist*).ti,ab,kf.	107
14	(benzazepine* adj2 derivative*).ti,ab,kf.	14
15	nicotinic receptor partial agonist*.ti,ab,kf.	3

16	or/6-15	1734
17	(electr* adj2 (cig* or nicotine* or device* or tobacco*)).ti,ab,kf.	8824
18	(ecig* or e-cig* or e-voke* or juul* or ENNDS).ti,ab,kf.	1011
19	(nicotine* adj4 (electr* or ENDS or aerosol* or ANDS)).ti,ab,kf.	279
20	(vape or vaper or vapers or vaping or vapor or vapour).ti,ab,kf.	20444
21	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*)).ti,ab,kf.	108
22	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).ti,ab,kf.	18
23	or/17-22	29099
24	randomized controlled trial.pt.	276
25	controlled clinical trial.pt.	21
26	pragmatic clinical trial.pt.	0
27	clinical trial.pt.	404
28	((clin* or randomi?ed) adj5 trial*).ti,ab,kf.	80594
29	((singl* or doubl* or trebl* or tripl*) adj5 (blind* or mask*)).ti,ab,kf.	14236
30	placebo*.ti,ab,kf.	16858
31	randomi?ation.ti,ab,kf.	4114
32	randomly.ab.	42172
33	(random* adj3 (administ* or allocat* or assign* or class* or control* or determine* or divide* or distribut* or expose* or fashion or number* or place* or recruit* or substitut* or treat*)).ab.	59030
34	trial.ti,ab,kf.	68486
35	groups.ab.	241740
36	(control* adj3 (trial* or study or studies)).ab,ti.	58857

37	((singl* or doubl* or tripl* or trebl*) adj3 (blind* or mask* or dummy*)).mp.	14109
38	(quasi adj (experimental* or random*)).ti,ab.	2582
39	((waitlist* or wait* list* or treatment as usual or TAU) adj3 (control or group)).ab.	878
40	or/24-39	365934
41	16 or 23	30437
42	5 and 41	2183
43	40 and 42	560
44	limit 43 to (letter or historical article or comment or editorial or news or case reports)	8
45	43 not 44	552
46	limit 45 to english language	551
47	limit 46 to dt=20190121-20191114	222

23.4.6

Database name: MEDLINE Epub Ahead of Print and Daily Update

Database(s): **Ovid MEDLINE(R) Epub Ahead of Print** November 13, 2019, **Ovid MEDLINE(R) Daily Update** November 13, 2019

Search Strategy:

#	Searches	Results
1	(smoking* or smoker*).ti,ab,kf.	4325
2	(tobacco* or cigar* or cigarette* or nicotine*).ti,ab,kf.	2969
3	((quit or quits or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or cut or cuts or cutting or abstain* or abstin* or giv* up or discontinu*) adj3 (smoker* or smoking* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies or waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas)).ti,ab,kf.	884
4	(antismok* or anti smok* or anti-smok* or exsmoker* or ex-smoker* or "ex smoker").ti,ab,kf.	86
5	or/1-4	5750
6	(NRT or nicotine replacement*).ti,ab,kf.	103
7	bupropion*.ti,ab,kf.	75
8	(amfebutamone* or quomen* or wellbutrin* or zyban* or zyntabac*).ti,ab,kf.	2
9	varenicline*.ti,ab,kf.	50
10	(champix* or chantix*).ti,ab,kf.	2
11	(nicotin* adj3 (replacement* or substitute* or gum* or inhaled* or inhaler* or inhalant* or inhalator* or spray* or lozenge* or tablet* or transdermal* or patch* or vaccin* or device* or gel* or pastil* or deliver* or sublingual* or therap* or treatment* or nasal* or microtab* or polacrilex* or product or products)).ti,ab,kf.	273
12	(nicorette* or niquitin* or nicotinell* or nicassist*).ti,ab,kf.	2
13	(nicotinic* adj3 agonist*).ti,ab,kf.	16
14	(benzazepine* adj2 derivative*).ti,ab,kf.	2
15	nicotinic receptor partial agonist*.ti,ab,kf.	0

16	or/6-15	385
17	(electr* adj2 (cig* or nicotine* or device* or tobacco*)).ti,ab,kf.	600
18	(ecig* or e-cig* or e-voke* or juul* or ENNDS).ti,ab,kf.	274
19	(nicotine* adj4 (electr* or ENDS or aerosol* or ANDS)).ti,ab,kf.	86
20	(vape or vaper or vapers or vaping or vapor or vapour).ti,ab,kf.	788
21	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*)).ti,ab,kf.	23
22	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).ti,ab,kf.	11
23	or/17-22	1440
24	randomized controlled trial.pt.	289
25	controlled clinical trial.pt.	9
26	pragmatic clinical trial.pt.	4
27	clinical trial.pt.	154
28	((clin* or randomi?ed) adj5 trial*).ti,ab,kf.	15285
29	((singl* or doubl* or trebl* or tripl*) adj5 (blind* or mask*)).ti,ab,kf.	2204
30	placebo*.ti,ab,kf.	3082
31	randomi?ation.ti,ab,kf.	872
32	randomly.ab.	5369
33	(random* adj3 (administ* or allocat* or assign* or class* or control* or determine* or divide* or distribut* or expose* or fashion or number* or place* or recruit* or subsitut* or treat*)).ab.	10301
34	trial.ti,ab,kf.	12445
35	groups.ab.	34909
36	(control* adj3 (trial* or study or studies)).ab,ti.	11305

37	((singl* or doubl* or tripl* or trebl*) adj3 (blind* or mask* or dummy*)).mp.	2228
38	(quasi adj (experimental* or random*)).ti,ab.	481
39	((waitlist* or wait* list* or treatment as usual or TAU) adj3 (control or group)).ab.	205
40	or/24-39	56476
41	16 or 23	1709
42	5 and 41	535
43	40 and 42	149
44	limit 43 to (letter or historical article or comment or editorial or news or case reports)	1
45	43 not 44	148
46	limit 45 to english language	145

The MIP had to be split, unlike in the main search, as it was not appropriate to search the Epubs or Daily segments with date limits.

23.4.7 Database name: PsycINFODatabase(s): **PsycINFO** 1806 to November Week 1 2019

Search Strategy:

#	Searches	Results
1	Nicotine/	10879
2	Smoking Cessation/	12710
3	tobacco smoking/	30307
4	(smoking* or smoker*).ti,ab,id.	50680
5	(tobacco* or cigar* or cigarette* or nicotine*).ti,ab,id.	44676
6	((quit or quits or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or cut or cuts or cutting or abstain* or abstin* or giv* up or discontinu*) adj3 (smoker* or smoking* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies or waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas)).ti,ab,id.	16501
7	(antismok* or anti smok* or anti-smok* or exsmoker* or ex-smoker* or "ex smoker*").ti,ab,id.	1803
8	or/1-7	68084
9	Bupropion/	944
10	(NRT or nicotine replacement*).ti,ab,id.	1857
11	bupropion*.ti,ab,id.	2134
12	(amfebutamone* or quomen* or wellbutrin* or zyban* or zyntabac*).ti,ab,id.	83
13	varenicline*.ti,ab,id.	790
14	(champix* or chantix*).ti,ab,id.	56
15	(nicotin* adj3 (replacement* or substitute* or gum* or inhaled* or inhaler* or inhalant* or inhalator* or spray* or lozenge* or tablet* or transdermal* or patch* or vaccin* or device* or gel* or pastil* or deliver* or sublingual* or therap* or treatment* or nasal* or microtab* or polacrilex* or product or products*)).ti,ab,id.	4646

16	(nicorette* or niquitin* or nicotinell* or nicassist*).ti,ab,id.	37
17	(nicotinic* adj3 agonist*).ti,ab,id.	585
18	(benzazepine* adj2 derivative*).ti,ab,id.	1
19	nicotinic receptor partial agonist*.ti,ab,id.	31
20	or/9-19	7387
21	Electronic Cigarettes/	1091
22	(electr* adj2 (cig* or nicotine* or device* or tobacco*)).ti,ab,id.	2314
23	(ecig* or e-cig* or e-voke* or juul* or ENNDS).ti,ab,id.	1446
24	(nicotine* adj4 (electr* or ENDS or aerosol* or ANDS)).ti,ab,id.	349
25	(vape or vaper or vapers or vaping or vapor or vapour).ti,ab,id.	1131
26	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*)).ti,ab,id.	262
27	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).ti,ab,id.	83
28	or/21-27	3906
29	clinical trials/ or exp Randomized Controlled Trials/	11713
30	treatment effectiveness evaluation/	23586
31	Placebo/	5406
32	((clin* or randomi?ed) adj5 trial*).ti,ab,id.	74957
33	((singl* or doubl* or trebl* or tripl*) adj5 (blind* or mask*)).ti,ab,id.	25821
34	placebo*.ti,ab,id.	39606
35	randomi?ation.ti,ab,id.	5136
36	randomly.ab.	70297

37	(random* adj3 (administ* or allocat* or assign* or class* or control* or determine* or divide* or distribut* or expose* or fashion or number* or place* or recruit* or substitut* or treat*)).ab.	88437
38	trial.ti,ab,id.	102705
39	groups.ab.	477408
40	((singl* or doubl* or tripl* or trebl*) adj3 (blind* or mask* or dummy*)).mp.	25711
41	(quasi adj (experimental or random*)).ti,ab,id.	11318
42	((waitlist* or wait* list* or treatment as usual or TAU) adj3 (control or group)).ab.	5346
43	treatment outcome.md.	19950
44	or/29-43	679805
45	20 or 28	10748
46	8 and 45	7071
47	44 and 46	2703
48	limit 47 to ("column/opinion" or editorial or letter)	33
49	47 not 48	2670
50	limit 49 to english language	2580
51	limit 50 to up=20190121-20191114	128

23.4.8 Web of Science

1	TS=(smoking or smoker* or tobacco* or cigar* or nicotine or antismok* or anti-smok* or anti smok* or exsmoker* or ex-smoker* or "ex smoker*") Indexes=SCI-EXPANDED, SSCI, A&HCI, ESCI Timespan=All years	388127
2	TS=(NRT or nicotine replacement* or bupropion* or amfebutamone* or quomen* or wellbutrin* or zyban* or zyntabac* or varenicline* or champix* or chantix*) Indexes=SCI-EXPANDED, SSCI, A&HCI, ESCI Timespan=All years	11381
3	TS=((nicotine SAME (replacement* or substitute* or gum* or inhaled* or inhaler* or inhalant* or inhalator* or spray* or lozenge* or tablet* or transdermal* or patch* or vaccin* or device* or gel* or pastil* or deliver* or sublingual* or therap* or treatment* or nasal* or microtab* or polacrilex* or product or products*))) Indexes=SCI-EXPANDED, SSCI, A&HCI, ESCI Timespan=All years	22110
4	TS=(nicorette* or niquitin* or nicotinell* or nicassist*) Indexes=SCI-EXPANDED, SSCI, A&HCI, ESCI Timespan=All years	77
5	TS=(nicotinic SAME agonist*) Indexes=SCI-EXPANDED, SSCI, A&HCI, ESCI Timespan=All years	7390
6	TS=(benzazepine* SAME derivative*) Indexes=SCI-EXPANDED, SSCI, A&HCI, ESCI Timespan=All years	435
7	TS="nicotinic receptor partial agonist" Indexes=SCI-EXPANDED, SSCI, A&HCI, ESCI Timespan=All years	76
8	TS=("Electronic Nicotine Delivery System*" or "electronic cigarette" or ecig* or e-cig* or juul* or ENNDS) Indexes=SCI-EXPANDED, SSCI, A&HCI, ESCI Timespan=All years	4796
9	TS=(vape or vaper or vapers or vaping) Indexes=SCI-EXPANDED, SSCI, A&HCI, ESCI Timespan=All years	1004
10	TS=(electr* SAME (cig* or nicotine* or device* or tobacco*)) Indexes=SCI-EXPANDED, SSCI, A&HCI, ESCI Timespan=All years	374627

11	TS=(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*) Indexes=SCI-EXPANDED, SSCI, A&HCI, ESCI Timespan=All years	2393
12	#11 OR #10 OR #9 OR #8 OR #7 OR #6 OR #5 OR #4 OR #3 OR #2 Indexes=SCI-EXPANDED, SSCI, A&HCI, ESCI Timespan=All years	409142
13	#12 AND #1 Indexes=SCI-EXPANDED, SSCI, A&HCI, ESCI Timespan=All years	39980
14	TS=((clin* or randomi?ed) SAME trial*) Indexes=SCI-EXPANDED, SSCI, A&HCI, ESCI Timespan=All years	980267
15	TS=((singl* or doubl* or trebl* or tripl*) SAME (blind* or mask*)) Indexes=SCI-EXPANDED, SSCI, A&HCI, ESCI Timespan=All years	296329
16	TS=(placebo* or randomly or randomisation* or randomization* or trial or treatment outcome or waitlist* or wait* list* or treatment as usual or TAU or control group*) Indexes=SCI-EXPANDED, SSCI, A&HCI, ESCI Timespan=All years	3102159
17	#16 OR #15 OR #14 Indexes=SCI-EXPANDED, SSCI, A&HCI, ESCI Timespan=All years	3175944
18	#17 AND #13 Indexes=SCI-EXPANDED, SSCI, A&HCI, ESCI Timespan=All years	10023
19	(#17 AND #13) AND LANGUAGE: (English) Indexes=SCI-EXPANDED, SSCI, A&HCI, ESCI Timespan=All years	9801
20	(#17 AND #13) AND LANGUAGE: (English) AND DOCUMENT TYPES: (Article) Indexes=SCI-EXPANDED, SSCI, A&HCI, ESCI Timespan=All years	8229
21	(#17 AND #13) AND LANGUAGE: (English) AND DOCUMENT TYPES: (Article) Indexes=SCI-EXPANDED, SSCI, A&HCI, ESCI Timespan=2019	505

22	(TS=(rat or rats or rodent* or mouse or mice or murine or sheep or lambs or ovine or pigs or piglets or swine or porcine or rabbit or rabbits or cat or cats or feline or dog or dogs or canine or cattle or bovine or monkey or monkeys or primate* or animal*)) AND LANGUAGE: (English) AND DOCUMENT TYPES: (Article) Indexes=SCI-EXPANDED, SSCI, A&HCI, ESCI Timespan=2019	132279
23	(#21 not #22) AND LANGUAGE: (English) AND DOCUMENT TYPES: (Article) Indexes=SCI-EXPANDED, SSCI, A&HCI, ESCI Timespan=2019	414

Science Citation Index Expanded (SCI-EXPANDED) --1990-present

Social Sciences Citation Index (SSCI) --1990-present

Arts & Humanities Citation Index (A&HCI) --1990-present

Emerging Sources Citation Index (ESCI) --2015-present

24 Search for RQ6.1a ReRun 2

24.1 Table of results

Database name	Date searched	Database Platform	Database segment or version
Cochrane Central Register of Controlled Trials (CENTRAL)	21/07/2020	Wiley	Cochrane Central Register of Controlled Trials Issue 7 of 12, July 2020
Cochrane Database of Systematic Reviews (CDSR)	21/07/2020	Wiley	Cochrane Database of Systematic Reviews Issue 7 of 12, July 2020
Embase	21/07/2020	Ovid	Embase 1974 to 2020 July 17
MEDLINE	21/07/2020	Ovid	Ovid MEDLINE(R) 1946 to July 17, 2020
MEDLINE-in-Process	21/07/2020	Ovid	Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations 1946 to July 17, 2020
MEDLINE-in-Process Epub Ahead-of-Print	21/07/2020	Ovid	Ovid MEDLINE(R) Epub Ahead of Print July 17, 2020, Ovid MEDLINE(R) Daily Update July 17, 2020
PsycINFO	21/07/2020	Ovid	APA PsycInfo 1806 to July Week 2 2020
Web of Science	21/07/2020	Clarivate	Web of Science Core Collection = SCI-EXPANDED, SSCI, A&HCI, ESCI 1990-2020-07-20

Search source	No. of records retrieved	Results	Total results	De-duplicated
Cochrane Central Register of Controlled Trials (CENTRAL)	198	1852		653
Cochrane Database of Systematic Reviews (CDSR)	4			
Embase	147			
MEDLINE	312			
MEDLINE-in-Process	187			

MEDLINE-in-Process Epub Ahead-of-Print	132			
PsycINFO	117			
Web of Science Core Collection (WOS)	755			

24.2 Database strategy outline

Smoking Cessation AND (Bupropion OR Varenicline OR NRT OR Ecigs OR Polytobacco)
AND RCT Filter AND Limits

The main searches were run on 22 January 2019 by Bristol University

These re-run searches were first run on 14 November 2019 and again on 21 July 2020 by NICE Information Services.

24.3 Re-run narrative

The searches are based on the strategy we received from Bristol University with a search date of 22 January 2019. The searches were adapted to make them appropriate to the screening criteria for the NICE review. There was no new QA or peer review as we were using existing searches.

Searches were backdated to 1 November 2019 (the first rerun used Ovid segments up to 13 November 2019). Some overlap is required and the duplicates can be dealt with in EPPI.

The amendments made in Rerun1 were repeated in ReRun2. No further amendments were made.

No websites were searched for grey literature in line with Bristol and ReRun1.

The MeSH 2020 term E-cigarette Vapor was not added as it is not related to cessation. It was added to the search for 4.1,6.2,6.3,6.4 as that includes a safety element.

The 1852 results from ReRun2 were downloaded. This was deduped and 584 duplicates were removed and 1268 items remained.

The 1268 were deduped against the 814 from the main search and the 1137 from ReRun1.

A further 615 items were removed and 653 items remained.

A new EPPI review was set up for the 653 items from ReRun2 to be screened.

24.4 Database strategies

24.4.1 Database name: Cochrane Central Register of Controlled Trials (CENTRAL)

- #1 MeSH descriptor: [Smoking] this term only 5648
- #2 MeSH descriptor: [Tobacco Smoking] this term only 59
- #3 MeSH descriptor: [Tobacco] this term only 158
- #4 MeSH descriptor: [Nicotine] this term only 2605
- #5 MeSH descriptor: [Tobacco Products] this term only 191
- #6 MeSH descriptor: [Smoking Cessation] this term only 3965
- #7 MeSH descriptor: [Tobacco Use Cessation] this term only 98
- #8 MeSH descriptor: [Tobacco Use Disorder] this term only 1659
- #9 MeSH descriptor: [Smokers] this term only 190
- #10 MeSH descriptor: [Ex-Smokers] this term only 0
- #11 (smoking* or smoker* or antismok* or anti smok* or anti-smok* or exsmoker* or ex-smoker* or "ex smoker*"):ti,ab 31413
- #12 (tobacco* or cigar* or cigarette* or nicotine*):ti,ab 15006
- #13 ((quit or quits or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or cut or cuts or cutting or abstain* or abstin* or giv* up or discontinu*) near/3 (smoker* or smoking* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies or waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas)):ti,ab 11899
- #14 #1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 OR #9 OR #10 OR #11 OR #12 OR #13 36649
- #15 MeSH descriptor: [Nicotine Chewing Gum] this term only 11
- #16 MeSH descriptor: [Tobacco Use Cessation Devices] this term only 486
- #17 MeSH descriptor: [Smoking Cessation Agents] this term only 33
- #18 MeSH descriptor: [Bupropion] this term only 810
- #19 MeSH descriptor: [Varenicline] this term only 518
- #20 MeSH descriptor: [Nicotinic Agonists] this term only 726
- #21 (NRT or nicotine replacement*):ti,ab 1846
- #22 bupropion*:ti,ab 1552
- #23 (amfebutamone* or quomen* or wellbutrin* or zyban* or zyntabac*):ti,ab 127
- #24 varenicline*:ti,ab 914
- #25 (chamxix* or chantix*):ti,ab 117
- #26 (nicotin* near/3 (replacement* or substitute* or gum* or inhaled* or inhaler* or inhalant* or inhalator* or spray* or lozenge* or tablet* or transdermal* or patch* or vaccin* or device* or gel* or pastil* or deliver* or sublingual* or therap* or treatment* or nasal* or microtab* or polacrilex* or product or products*)):ti,ab 3932
- #27 (nicorette* or niquitin* or nicotinell* or nicassist*):ti,ab 125
- #28 (nicotinic* near/3 agonist*):ti,ab 187
- #29 (benzazepine* near/2 derivative*):ti,ab 2
- #30 nicotinic receptor partial agonist*:ti,ab 128
- #31 #15 or #16 or #17 OR #18 OR #19 OR #20 OR #21 OR #22 OR #23 OR #24 or #25 or #26 or #27 or #28 or #29 or #30 6329

- #32 MeSH descriptor: [Electronic Nicotine Delivery Systems] this term only
108
- #33 MeSH descriptor: [Vaping] this term only 35
- #34 (electr* near/2 (cig* or nicotine* or device* or tobacco*)):ti,ab 1657
- #35 (ecig* or e-cig* or e-voke* or juul* or ENNDS):ti,ab 496
- #36 (nicotine* near/4 (electr* or ENDS or aerosol* or ANDS)):ti,ab
174
- #37 (vape or vaper or vapers or vaping or vapor or vapour):ti,ab 820
- #38 ((tobacco* or nicotin* or cigar* or cigs) near/3 (dual* or multiple* or
multi) near/3 ("use" or uses or user* or usage* or using*)):ti,ab 43
- #39 (polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or
multi tobacco* or multi-tobacco*):ti,ab 303
- #40 #32 or #33 or #34 or #35 or #36 or #37 or #38 or #39 2926
- #41 #31 or #40 8847
- #42 #14 and #41 5816
- #43 (clinicaltrials or trialsearch):so 329110
- #44 #42 not #43 4234
- #45 conference:pt 163355
- #46 #44 not #45 3832
- #47 #44 not #45 with Cochrane Library publication date Between Nov 2019
and Jul 2020, in Trials 198

Used the date added to Cochrane Library rather than date of original publication. The previous Rerun was done using CENTRAL Issue 11 of 12 November 2019 but started this from 1 Nov 2019 to be comprehensive. Duplicates could be dealt with in EPPI.

24.4.2 Database name: Cochrane Database of Systematic Reviews (CDSR)

- #1 MeSH descriptor: [Smoking] this term only 5648
- #2 MeSH descriptor: [Tobacco Smoking] this term only 59
- #3 MeSH descriptor: [Tobacco] this term only 158
- #4 MeSH descriptor: [Nicotine] this term only 2605
- #5 MeSH descriptor: [Tobacco Products] this term only 191
- #6 MeSH descriptor: [Smoking Cessation] this term only 3965
- #7 MeSH descriptor: [Tobacco Use Cessation] this term only 98
- #8 MeSH descriptor: [Tobacco Use Disorder] this term only 1659
- #9 MeSH descriptor: [Smokers] this term only 190
- #10 MeSH descriptor: [Ex-Smokers] this term only 0
- #11 (smoking* or smoker* or antismok* or anti smok* or anti-smok* or exsmoker* or ex-smoker* or "ex smoker*"):ti,ab 31413
- #12 (tobacco* or cigar* or cigarette* or nicotine*):ti,ab 15006
- #13 ((quit or quits or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or cut or cuts or cutting or abstain* or abstin* or giv* up or discontinu*) near/3 (smoker* or smoking* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies or waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas)):ti,ab 11899
- #14 #1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 OR #9 OR #10 OR #11 OR #12 OR #13 36649
- #15 MeSH descriptor: [Nicotine Chewing Gum] this term only 11
- #16 MeSH descriptor: [Tobacco Use Cessation Devices] this term only 486
- #17 MeSH descriptor: [Smoking Cessation Agents] this term only 33
- #18 MeSH descriptor: [Bupropion] this term only 810
- #19 MeSH descriptor: [Varenicline] this term only 518
- #20 MeSH descriptor: [Nicotinic Agonists] this term only 726
- #21 (NRT or nicotine replacement*):ti,ab 1846
- #22 bupropion*:ti,ab 1552
- #23 (amfebutamone* or quomen* or wellbutrin* or zyban* or zyntabac*):ti,ab 127
- #24 varenicline*:ti,ab 914
- #25 (chamfix* or chantix*):ti,ab 117
- #26 (nicotin* near/3 (replacement* or substitute* or gum* or inhaled* or inhaler* or inhalant* or inhalator* or spray* or lozenge* or tablet* or transdermal* or patch* or vaccin* or device* or gel* or pastil* or deliver* or sublingual* or therap* or treatment* or nasal* or microtab* or polacrilex* or product or products*)):ti,ab 3932
- #27 (nicorette* or niquitin* or nicotinell* or nicassist*):ti,ab 125
- #28 (nicotinic* near/3 agonist*):ti,ab 187
- #29 (benzazepine* near/2 derivative*):ti,ab 2
- #30 nicotinic receptor partial agonist*:ti,ab 128
- #31 #15 or #16 or #17 OR #18 OR #19 OR #20 OR #21 OR #22 OR #23 OR #24 or #25 or #26 or #27 or #28 or #29 or #30 6329
- #32 MeSH descriptor: [Electronic Nicotine Delivery Systems] this term only 108

#33 MeSH descriptor: [Vaping] this term only 35
#34 (electr* near/2 (cig* or nicotine* or device* or tobacco*)):ti,ab 1657
#35 (ecig* or e-cig* or e-voke* or juul* or ENNDS):ti,ab 496
#36 (nicotine* near/4 (electr* or ENDS or aerosol* or ANDS)):ti,ab
174
#37 (vape or vaper or vapers or vaping or vapor or vapour):ti,ab 820
#38 ((tobacco* or nicotin* or cigar* or cigs) near/3 (dual* or multiple* or
multi) near/3 ("use" or uses or user* or usage* or using*)):ti,ab 43
#39 (polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or
multi tobacco* or multi-tobacco*):ti,ab 303
#40 #32 or #33 or #34 or #35 or #36 or #37 or #38 or #39 2926
#41 #31 or #40 8847
#42 #14 and #41 5816
#43 (clinicaltrials or trialsearch):so 329110
#44 #42 not #43 4234
#45 conference:pt 163355
#46 #44 not #45 3832
#47 #44 not #45 with Cochrane Library publication date Between Nov 2019
and Jul 2020, in Cochrane Reviews, Cochrane Protocols 4
[Results: Cochrane Reviews = 4; Cochrane Protocols = 0]

24.4.3 Database name: EmbaseDatabase(s): **Embase** 1974 to 2020 July 17

Search Strategy:

#	Searches	Results
1	exp smoking/	385879
2	tobacco/ or tobacco consumption/ or "tobacco use"/	57197
3	tobacco dependence/	20758
4	nicotine/	45030
5	smoking cessation/	58935
6	smoking cessation program/	3332
7	(smoking* or smoker*).ti,ab,kw.	375030
8	(tobacco* or cigar* or cigarette* or nicotine*).ti,ab,kw.	216569
9	((quit or quits or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or cut or cuts or cutting or abstain* or abstin* or giv* up or discontinu*) adj3 (smoker* or smoking* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies or waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas)).ti,ab,kw.	51052
10	(antismok* or anti smok* or anti-smok* or exsmoker* or ex-smoker* or "ex smoker*").ti,ab,kw.	10345
11	or/1-10	589464
12	Bupropion/ or Amfebutamone/	18283
13	varenicline/	4418
14	nicotinic agent/	3243
15	nicotine vaccine/ or nicotine replacement therapy/ or nicotine lozenge/ or nicotine gum/ or nicotine patch/	8195
16	(NRT or nicotine replacement*).ti,ab,kw.	5733
17	bupropion*.ti,ab,kw.	6301

18	(amfebutamone* or quomen* or wellbutrin* or zyban* or zyntabac*).ti,ab,kw.	340
19	varenicline*.ti,ab,kw.	2752
20	(champix* or chantix*).ti,ab,kw.	215
21	(nicotin* adj3 (replacement* or substitute* or gum* or inhaled* or inhaler* or inhalant* or inhalator* or spray* or lozenge* or tablet* or transdermal* or patch* or vaccin* or device* or gel* or pastil* or deliver* or sublingual* or therap* or treatment* or nasal* or microtab* or polacrilex* or product or products*).ti,ab,kw.	14242
22	(nicorette* or niquitin* or nicotinell* or nicassist*).ti,ab,kw.	157
23	(nicotinic* adj3 agonist*).ti,ab,kw.	2898
24	(benzazepine* adj2 derivative*).ti,ab,kw.	114
25	nicotinic receptor partial agonist*.ti,ab,kw.	92
26	or/12-25	40442
27	electronic cigarette/	6415
28	vaping/	1924
29	(electr* adj2 (cig* or nicotine* or device* or tobacco*).ti,ab,kw.	23595
30	(ecig* or e-cig* or e-voke* or juul* or ENNDS).ti,ab,kw.	5520
31	(nicotine* adj4 (electr* or ENDS or aerosol* or ANDS)).ti,ab,kw.	1676
32	(vape or vaper or vapers or vaping or vapor or vapour).ti,ab,kw.	44617
33	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*).ti,ab,kw.	611
34	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).ti,ab,kw.	138
35	or/27-34	70113
36	clinical trial/ or controlled clinical trial/ or phase 1 clinical trial/ or phase 2 clinical trial/ or phase 3 clinical trial/ or phase 4 clinical trial/	1141245
37	randomized controlled trial/	610665

38	randomization/	87248
39	double blind procedure/ or single blind procedure/ or triple blind procedure/	211774
40	placebo/	352164
41	((clin* or randomi?ed) adj5 trial*).ti,ab,kw.	951699
42	((singl* or doubl* or trebl* or tripl*) adj5 (blind* or mask*)).ti,ab,kw.	243739
43	placebo*.ti,ab,kw.	310574
44	control group/	110469
45	randomi?ation.ti,ab,kw.	59301
46	randomly.ab.	445932
47	(random* adj3 (administ* or allocat* or assign* or class* or control* or determine* or divide* or distribut* or expose* or fashion or number* or place* or recruit* or substitut* or treat*)).ab.	662093
48	(control* adj3 (trial* or study or studies)).ab,ti.	710703
49	((singl* or doubl* or tripl* or trebl*) adj3 (blind* or mask* or dummy*)).mp.	310058
50	(quasi adj (experimental* or random*)).ti,ab.	21522
51	((waitlist* or wait* list* or treatment as usual or TAU) adj3 (control or group)).ab.	8035
52	or/36-51	2787090
53	((animal or nonhuman) not human).sh.	5702630
54	(animal experiment not (human experiment or human)).sh.	2252587
55	(rat or rats or rodent* or mouse or mice or murine or sheep or lambs or ovine or pigs or piglets or swine or porcine or rabbit or rabbits or cat or cats or feline or dog or dogs or canine or cattle or bovine or monkey or monkeys or primate*).ti. and animal experiment/	1101443
56	or/53-55	6078620
57	52 not 56	2578020

58	26 or 35	107921
59	11 and 58	28583
60	57 and 59	6835
61	(letter or editorial).pt.	1782818
62	60 not 61	6651
63	(conference abstract or conference paper or conference proceeding or "conference review").pt.	4592460
64	62 not 63	5782
65	limit 64 to medline	823
66	64 not 65	4959
67	limit 66 to english language	4766
68	limit 67 to dc=20191101-20200721	147

Add smoking cessation agent/ new Emtree term if searches rerun again.

24.4.4 Database name: MEDLINEDatabase(s): **Ovid MEDLINE(R)** 1946 to July 17, 2020

Search Strategy:

#	Searches	Results
1	Smoking/	139900
2	Tobacco Smoking/	1121
3	Tobacco/	30799
4	Nicotine/	25495
5	Tobacco Products/	4114
6	Smoking Cessation/	28531
7	"Tobacco Use Cessation"/	1162
8	"Tobacco Use Disorder"/	11195
9	smokers/ or Ex-smokers/	1830
10	(smoking* or smoker*).ti,ab,kf.	223762
11	(tobacco* or cigar* or cigarette* or nicotine*).ti,ab,kf.	156232
12	((quit or quits or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or cut or cuts or cutting or abstain* or abstin* or giv* up or discontinu*) adj3 (smoker* or smoking* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies or waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas)).ti,ab,kf.	33843
13	(antismok* or anti smok* or anti-smok* or exsmoker* or ex-smoker* or "ex smoker*").ti,ab,kf.	5761
14	or/1-13	341476
15	Nicotine Chewing Gum/	18
16	"tobacco use cessation devices"/	1797
17	Smoking cessation agents/	155

18	Bupropion/	3031
19	Varenicline/	1291
20	Nicotinic Agonists/	7295
21	(NRT or nicotine replacement*).ti,ab,kf.	3685
22	bupropion*.ti,ab,kf.	3841
23	(amfebutamone* or quomen* or wellbutrin* or zyban* or zyntabac*).ti,ab,kf.	189
24	varenicline*.ti,ab,kf.	1495
25	(chamfix* or chantix*).ti,ab,kf.	100
26	(nicotin* adj3 (replacement* or substitute* or gum* or inhaled* or inhaler* or inhalant* or inhalator* or spray* or lozenge* or tablet* or transdermal* or patch* or vaccin* or device* or gel* or pastil* or deliver* or sublingual* or therap* or treatment* or nasal* or microtab* or polacrilex* or product or products*).ti,ab,kf.	12333
27	(nicorette* or niquitin* or nicotinell* or nicassist*).ti,ab,kf.	108
28	(nicotinic* adj3 agonist*).ti,ab,kf.	2176
29	(benzazepine* adj2 derivative*).ti,ab,kf.	71
30	nicotinic receptor partial agonist*.ti,ab,kf.	58
31	or/15-30	23730
32	Electronic Nicotine Delivery Systems/	3391
33	Vaping/	988
34	(electr* adj2 (cig* or nicotine* or device* or tobacco*).ti,ab,kf.	11871
35	(ecig* or e-cig* or e-voke* or juul* or ENNDS).ti,ab,kf.	3128
36	(nicotine* adj4 (electr* or ENDS or aerosol* or ANDS)).ti,ab,kf.	1062
37	(vape or vaper or vapers or vaping or vapor or vapour).ti,ab,kf.	24664
38	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*).ti,ab,kf.	401

39	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).ti,ab,kf.	101
40	or/32-39	37689
41	randomized controlled trial.pt.	509468
42	controlled clinical trial.pt.	93741
43	pragmatic clinical trial.pt.	1440
44	clinical trial.pt.	523324
45	clinical trial/ or clinical trial, phase i/ or clinical trial, phase ii/ or clinical trial, phase iii/ or clinical trial, phase iv/ or controlled clinical trial/	592946
46	Random Allocation/	103207
47	randomized controlled trial/	509468
48	pragmatic clinical trial/	1440
49	Double-Blind Method/	158834
50	Single-Blind Method/	28814
51	Placebos/	34975
52	((clin* or randomi?ed) adj5 trial*).ti,ab,kf.	566185
53	((singl* or doubl* or trebl* or tripl*) adj5 (blind* or mask*)).ti,ab,kf.	158054
54	placebo*.ti,ab,kf.	195707
55	control groups/	1677
56	randomi?ation.ti,ab,kf.	32259
57	randomly.ab.	285606
58	(random* adj3 (administ* or allocat* or assign* or class* or control* or determine* or divide* or distribut* or expose* or fashion or number* or place* or recruit* or substitut* or treat*)).ab.	410346
59	drug therapy.fs.	2220320

60	trial.ti,ab,kf.	517436
61	groups.ab.	1765533
62	(control* adj3 (trial* or study or studies)).ab,ti.	454382
63	((singl* or doubl* or tripl* or trebl*) adj3 (blind* or mask* or dummy*)).mp.	221747
64	(quasi adj (experimental* or random*)).ti,ab.	14528
65	((waitlist* or wait* list* or treatment as usual or TAU) adj3 (control or group)).ab.	5060
66	or/41-65	4734638
67	31 or 40	59889
68	14 and 67	19061
69	66 and 68	6897
70	Animals/ not (Animals/ and Humans/)	4685420
71	69 not 70	5797
72	limit 71 to (letter or historical article or comment or editorial or news or case reports)	355
73	71 not 72	5442
74	limit 73 to english language	5209
75	limit 74 to ed=20191101-20200721	312

24.4.5 Database name: MEDLINE-in-Process

Database(s): **Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations** 1946 to July 17, 2020

Search Strategy:

#	Searches	Results
1	(smoking* or smoker*).ti,ab,kf.	25245
2	(tobacco* or cigar* or cigarette* or nicotine*).ti,ab,kf.	19016
3	((quit or quits or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or cut or cuts or cutting or abstain* or abstin* or give* up or discontinu*) adj3 (smoker* or smoking* or tobacco* or cigar* or cig* or bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies or waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas)).ti,ab,kf.	4147
4	(antismok* or anti smok* or anti-smok* or exsmoker* or ex-smoker* or "ex smoker").ti,ab,kf.	538
5	or/1-4	36007
6	(NRT or nicotine replacement*).ti,ab,kf.	551
7	bupropion*.ti,ab,kf.	426
8	(amfebutamone* or quomen* or wellbutrin* or zyban* or zyantabac*).ti,ab,kf.	16
9	varenicline*.ti,ab,kf.	231
10	(chamfix* or chantix*).ti,ab,kf.	17
11	(nicotin* adj3 (replacement* or substitute* or gum* or inhaled* or inhaler* or inhalant* or inhalator* or spray* or lozenge* or tablet* or transdermal* or patch* or vaccin* or device* or gel* or pastil* or deliver* or sublingual* or therap* or treatment* or nasal* or microtab* or polacrilex* or product or products)).ti,ab,kf.	1208
12	(nicorette* or niquitin* or nicotinell* or nicassist*).ti,ab,kf.	3
13	(nicotinic* adj3 agonist*).ti,ab,kf.	117
14	(benzazepine* adj2 derivative*).ti,ab,kf.	16
15	nicotinic receptor partial agonist*.ti,ab,kf.	2

16	or/6-15	1936
17	(electr* adj2 (cig* or nicotine* or device* or tobacco*)).ti,ab,kf.	10049
18	(ecig* or e-cig* or e-voke* or juul* or ENNDS).ti,ab,kf.	1245
19	(nicotine* adj4 (electr* or ENDS or aerosol* or ANDS)).ti,ab,kf.	323
20	(vape or vaper or vapers or vaping or vapor or vapour).ti,ab,kf.	22552
21	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*)).ti,ab,kf.	124
22	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).ti,ab,kf.	32
23	or/17-22	32370
24	randomized controlled trial.pt.	277
25	controlled clinical trial.pt.	21
26	pragmatic clinical trial.pt.	0
27	clinical trial.pt.	435
28	((clin* or randomi?ed) adj5 trial*).ti,ab,kf.	88684
29	((singl* or doubl* or trebl* or tripl*) adj5 (blind* or mask*)).ti,ab,kf.	15553
30	placebo*.ti,ab,kf.	18348
31	randomi?ation.ti,ab,kf.	4486
32	randomly.ab.	45928
33	(random* adj3 (administ* or allocat* or assign* or class* or control* or determine* or divide* or distribut* or expose* or fashion or number* or place* or recruit* or substitut* or treat*)).ab.	65159
34	trial.ti,ab,kf.	74878
35	groups.ab.	266908
36	(control* adj3 (trial* or study or studies)).ab,ti.	65023

37	((singl* or doubl* or tripl* or trebl*) adj3 (blind* or mask* or dummy*)).mp.	15391
38	(quasi adj (experimental* or random*)).ti,ab.	2965
39	((waitlist* or wait* list* or treatment as usual or TAU) adj3 (control or group)).ab.	1000
40	or/24-39	402649
41	16 or 23	33818
42	5 and 41	2558
43	40 and 42	621
44	limit 43 to (letter or historical article or comment or editorial or news or case reports)	9
45	43 not 44	612
46	limit 45 to english language	609
47	limit 46 to dt=20191101-20200721	187

24.4.6 Database name: MEDLINE Epub Ahead of Print and Daily Update

Database(s): Ovid MEDLINE(R) Epub Ahead of Print July 17, 2020, Ovid MEDLINE(R) Daily Update July 17, 2020

Search Strategy:

#	Searches	Results
1	(smoking* or smoker*).ti,ab,kf.	4617
2	(tobacco* or cigar* or cigarette* or nicotine*).ti,ab,kf.	3215
3	((quit or quits or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or cut or cuts or cutting or abstain* or abstin* or give* up or discontinu*) adj3 (smoker* or smoking* or tobacco* or cigar* or cig* or bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies or waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas)).ti,ab,kf.	820
4	(antismok* or anti smok* or anti-smok* or exsmoker* or ex-smoker* or "ex smoker*").ti,ab,kf.	86
5	or/1-4	6241
6	(NRT or nicotine replacement*).ti,ab,kf.	90
7	bupropion*.ti,ab,kf.	85
8	(amfebutamone* or quomen* or wellbutrin* or zyban* or zyntabac*).ti,ab,kf.	2
9	varenicline*.ti,ab,kf.	40
10	(chamxip* or chantix*).ti,ab,kf.	2
11	(nicotin* adj3 (replacement* or substitute* or gum* or inhaled* or inhaler* or inhalant* or inhalator* or spray* or lozenge* or tablet* or transdermal* or patch* or vaccin* or device* or gel* or pastil* or deliver* or sublingual* or therap* or treatment* or nasal* or microtab* or polacrilex* or product or products)).ti,ab,kf.	294
12	(nicorette* or niquitin* or nicotinell* or nicassist*).ti,ab,kf.	3
13	(nicotinic* adj3 agonist*).ti,ab,kf.	18
14	(benzazepine* adj2 derivative*).ti,ab,kf.	2
15	nicotinic receptor partial agonist*.ti,ab,kf.	0

16	or/6-15	413
17	(electr* adj2 (cig* or nicotine* or device* or tobacco*)).ti,ab,kf.	694
18	(ecig* or e-cig* or e-voke* or juul* or ENNDS).ti,ab,kf.	344
19	(nicotine* adj4 (electr* or ENDS or aerosol* or ANDS)).ti,ab,kf.	121
20	(vape or vaper or vapers or vaping or vapor or vapour).ti,ab,kf.	937
21	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*)).ti,ab,kf.	29
22	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).ti,ab,kf.	11
23	or/17-22	1676
24	randomized controlled trial.pt.	415
25	controlled clinical trial.pt.	10
26	pragmatic clinical trial.pt.	10
27	clinical trial.pt.	141
28	((clin* or randomi?ed) adj5 trial*).ti,ab,kf.	17694
29	((singl* or doubl* or trebl* or tripl*) adj5 (blind* or mask*)).ti,ab,kf.	2365
30	placebo*.ti,ab,kf.	3260
31	randomi?ation.ti,ab,kf.	1012
32	randomly.ab.	5815
33	(random* adj3 (administ* or allocat* or assign* or class* or control* or determine* or divide* or distribut* or expose* or fashion or number* or place* or recruit* or substitut* or treat*)).ab.	11351
34	trial.ti,ab,kf.	13890
35	groups.ab.	39117
36	(control* adj3 (trial* or study or studies)).ab,ti.	12604

37	((singl* or doubl* or tripl* or trebl*) adj3 (blind* or mask* or dummy*)).mp.	2420
38	(quasi adj (experimental* or random*)).ti,ab.	535
39	((waitlist* or wait* list* or treatment as usual or TAU) adj3 (control or group)).ab.	203
40	or/24-39	63336
41	16 or 23	1934
42	5 and 41	641
43	40 and 42	134
44	limit 43 to (letter or historical article or comment or editorial or news or case reports)	0
45	43 not 44	134
46	limit 45 to english language	132

The MIP had to be split, unlike in the main search, as it was not appropriate to search the Epubs or Daily segments with date limits.

24.4.7 Database name: PsycINFODatabase(s): **APA PsycInfo** 1806 to July Week 2 2020

Search Strategy:

#	Searches	Results
1	Nicotine/	11288
2	Smoking Cessation/	13220
3	tobacco smoking/	31358
4	(smoking* or smoker*).ti,ab,id.	52378
5	(tobacco* or cigar* or cigarette* or nicotine*).ti,ab,id.	46339
6	((quit or quits or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or cut or cuts or cutting or abstain* or abstin* or giv* up or discontinu*) adj3 (smoker* or smoking* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies or waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas)).ti,ab,id.	17117
7	(antismok* or anti smok* or anti-smok* or exsmoker* or ex-smoker* or "ex smoker*").ti,ab,id.	1851
8	or/1-7	70441
9	Bupropion/	967
10	(NRT or nicotine replacement*).ti,ab,id.	1931
11	bupropion*.ti,ab,id.	2177
12	(amfebutamone* or quomen* or wellbutrin* or zyban* or zyntabac*).ti,ab,id.	83
13	varenicline*.ti,ab,id.	836
14	(champix* or chantix*).ti,ab,id.	56
15	(nicotin* adj3 (replacement* or substitute* or gum* or inhaled* or inhaler* or inhalant* or inhalator* or spray* or lozenge* or tablet* or transdermal* or patch* or vaccin* or device* or gel* or pastil* or deliver* or sublingual* or therap* or treatment* or nasal* or microtab* or polacrilex* or product or products*)).ti,ab,id.	4852

16	(nicorette* or niquitin* or nicotinell* or nicassist*).ti,ab,id.	38
17	(nicotinic* adj3 agonist*).ti,ab,id.	591
18	(benzazepine* adj2 derivative*).ti,ab,id.	1
19	nicotinic receptor partial agonist*.ti,ab,id.	32
20	or/9-19	7660
21	Electronic Cigarettes/	1368
22	(electr* adj2 (cig* or nicotine* or device* or tobacco*)).ti,ab,id.	2525
23	(ecig* or e-cig* or e-voke* or juul* or ENNDS).ti,ab,id.	1727
24	(nicotine* adj4 (electr* or ENDS or aerosol* or ANDS)).ti,ab,id.	388
25	(vape or vaper or vapers or vaping or vapor or vapour).ti,ab,id.	1269
26	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*)).ti,ab,id.	305
27	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).ti,ab,id.	94
28	or/21-27	4341
29	clinical trials/ or exp Randomized Controlled Trials/	12307
30	treatment effectiveness evaluation/	24551
31	Placebo/	5656
32	((clin* or randomi?ed) adj5 trial*).ti,ab,id.	79408
33	((singl* or doubl* or trebl* or tripl*) adj5 (blind* or mask*)).ti,ab,id.	26562
34	placebo*.ti,ab,id.	40571
35	randomi?ation.ti,ab,id.	5413
36	randomly.ab.	72786

37	(random* adj3 (administ* or allocat* or assign* or class* or control* or determine* or divide* or distribut* or expose* or fashion or number* or place* or recruit* or substitut* or treat*)).ab.	92940
38	trial.ti,ab,id.	107258
39	groups.ab.	491600
40	((singl* or doubl* or tripl* or trebl*) adj3 (blind* or mask* or dummy*)).mp.	26449
41	(quasi adj (experimental or random*)).ti,ab,id.	12039
42	((waitlist* or wait* list* or treatment as usual or TAU) adj3 (control or group)).ab.	5680
43	treatment outcome.md.	20603
44	or/29-43	701824
45	20 or 28	11364
46	8 and 45	7559
47	44 and 46	2847
48	limit 47 to ("column/opinion" or editorial or letter)	33
49	47 not 48	2814
50	limit 49 to english language	2730
51	limit 50 to up=20191101-20200721	117

PsycINFO is updated weekly but the update codes give the specific day. The previous rerun search was done Nov Week 1 2019 on 13 Nov so I ran ReRun2 with a start date from the beginning of that week.

24.4.8 Database name: Web of Science

1	406043	TS=(smoking or smoker* or tobacco* or cigar* or nicotine or antismok* or anti-smok* or anti smok* or exsmoker* or ex-smoker* or "ex smoker*")	Indexes=SCI-EXPANDED, SSCI, A&HCI, ESCI Timespan=All years
2	11896	TS=(NRT or nicotine replacement* or bupropion* or amfebutamone* or quomen* or wellbutrin* or zyban* or zyantabac* or varenicline* or champix* or chantix*)	Indexes=SCI-EXPANDED, SSCI, A&HCI, ESCI Timespan=All years
3	23356	TS=((nicotine SAME (replacement* or substitute* or gum* or inhaled* or inhaler* or inhalant* or inhalator* or spray* or lozenge* or tablet* or transdermal* or patch* or vaccin* or device* or gel* or pastil* or deliver* or sublingual* or therap* or treatment* or nasal* or microtab* or polacrilex* or product or products*)))	Indexes=SCI-EXPANDED, SSCI, A&HCI, ESCI Timespan=All years
4	78	TS=(nicorette* or niquitin* or nicotinell* or nicassist*)	Indexes=SCI-EXPANDED, SSCI, A&HCI, ESCI Timespan=All years
5	7565	TS=(nicotinic SAME agonist*)	Indexes=SCI-EXPANDED, SSCI, A&HCI, ESCI Timespan=All years
6	428	TS=(benzazepine* SAME derivative*)	Indexes=SCI-EXPANDED, SSCI, A&HCI, ESCI Timespan=All years
7	78	TS="nicotinic receptor partial agonist"	Indexes=SCI-EXPANDED, SSCI, A&HCI, ESCI Timespan=All years
8	6677	TS=("Electronic Nicotine Delivery System*" or "electronic cigarette*" or ecig* or e-cig* or juul* or ENNDS)	Indexes=SCI-EXPANDED, SSCI, A&HCI, ESCI Timespan=All years
9	1555	TS=(vape or vaper or vapers or vaping)	Indexes=SCI-EXPANDED, SSCI, A&HCI, ESCI Timespan=All years
10	396773	TS=(electr* SAME (cig* or nicotine* or device* or tobacco*)	Indexes=SCI-EXPANDED, SSCI, A&HCI, ESCI Timespan=All years
11	2545	TS=(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*)	Indexes=SCI-EXPANDED, SSCI, A&HCI, ESCI Timespan=All years
12	433139	#11 OR #10 OR #9 OR #8 OR #7 OR #6 OR #5 OR #4 OR #3 OR #2	Indexes=SCI-EXPANDED, SSCI, A&HCI, ESCI Timespan=All years
13	42439	#12 AND #1	Indexes=SCI-EXPANDED, SSCI, A&HCI, ESCI Timespan=All years
14	1006485	TS=((clin* or randomi?ed) SAME trial*)	Indexes=SCI-EXPANDED, SSCI, A&HCI, ESCI Timespan=All years

15	312903	TS=((singl* or doubl* or trebl* or tripl*) SAME (blind* or mask*)	Indexes=SCI-EXPANDED, SSCI, A&HCI, ESCI Timespan=All years
16	3246566	TS=(placebo* or randomly or randomisation* or randomization* or trial or treatment outcome or waitlist* or wait* list* or treatment as usual or TAU or control group*)	Indexes=SCI-EXPANDED, SSCI, A&HCI, ESCI Timespan=All years
17	3328013	#16 OR #15 OR #14	Indexes=SCI-EXPANDED, SSCI, A&HCI, ESCI Timespan=All years
18	10416	#17 AND #13	Indexes=SCI-EXPANDED, SSCI, A&HCI, ESCI Timespan=All years
19	10193	((#17 AND #13)) AND LANGUAGE: (English)	Indexes=SCI-EXPANDED, SSCI, A&HCI, ESCI Timespan=All years
20	8566	((#17 AND #13)) AND LANGUAGE: (English) AND DOCUMENT TYPES: (Article)	Indexes=SCI-EXPANDED, SSCI, A&HCI, ESCI Timespan=All years
21	904	((#17 AND #13)) AND LANGUAGE: (English) AND DOCUMENT TYPES: (Article)	Indexes=SCI-EXPANDED, SSCI, A&HCI, ESCI Timespan=2019-2020
22	248695	((TS=(rat or rats or rodent* or mouse or mice or murine or sheep or lambs or ovine or pigs or piglets or swine or porcine or rabbit or rabbits or cat or cats or feline or dog or dogs or canine or cattle or bovine or monkey or monkeys or primate* or animal*))) AND LANGUAGE:(English) AND DOCUMENT TYPES: (Article)	Indexes=SCI-EXPANDED, SSCI, A&HCI, ESCI Timespan=2019-2020
23	755	((#21 not #22)) AND LANGUAGE: (English) AND DOCUMENT TYPES: (Article)	Indexes=SCI-EXPANDED, SSCI, A&HCI, ESCI Timespan=2019-2020

Science Citation Index Expanded (SCI-EXPANDED) --1990-present

Social Sciences Citation Index (SSCI) --1990-present

Arts & Humanities Citation Index (A&HCI) --1990-present

Emerging Sources Citation Index (ESCI) --2015-present

Data last updated: 2020-07-20

25 Search for RQ6.1b (Effectiveness)

26 Main search

Topic: Tobacco Portfolio
Question details:
6.1b. Are e-cigarettes effective and cost effective for smoking harm reduction?

26.1 Table of results

Database name	Date searched	Database Platform	Database segment or version
Cochrane Central Register of Controlled Trials (CENTRAL)	24/07/2019	Wiley	Cochrane Central Register of Controlled Trials Issue 7 of 12, July 2019
Cochrane Database of Systematic Reviews (CDSR)	24/07/2019	Wiley	Cochrane Database of Systematic Reviews Issue 7 of 12, July 2019
Database of Abstracts of Reviews of Effects (DARE) - legacy	24/07/2019	CRD	Last updated 31 March 2015
Embase	24/07/2019	Ovid	Embase 1974 to 2019 July 23
MEDLINE	24/07/2019	Ovid	Ovid MEDLINE(R) 1946 to July 23, 2019
MEDLINE-in-Process (including Epub Ahead-of-Print)	24/07/2019	Ovid	Ovid MEDLINE(R) Epub Ahead of Print July 23, 2019, Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations 1946 to July 23, 2019
PsycINFO	24/07/2019	Ovid	PsycINFO 1806 to July Week 3 2019
Web of Science	24/07/2019	Clarivate	Web of Science Core Collection (1990-present)
Websites	24/07/2019	-	-

Search source	No. of records retrieved	Results	Total results	De-duplicated
Cochrane Central Register of Controlled Trials (CENTRAL)	262	1508	1852	1233
Cochrane Database of Systematic Reviews (CDSR)	8			

Database of Abstracts of Reviews of Effects (DARE)	17			
Embase	337			
MEDLINE	252			
MEDLINE-in-Process (including Epub Ahead-of-Print)	90			
PsycINFO	542			
Reference harvesting	83	344		
Scoping searches	6			
Forward citation searching	244			
Websites	11			

26.2 Database strategy outline

((Ecigs OR Vaping) AND (Smoking Harm Reduction))

OR Multi-Tobacco Use)

AND

(RCTs OR Systematic Reviews)

AND Limits

26.3 Database strategies

26.3.1 Database name: Cochrane Central Register of Controlled Trials (CENTRAL)

- #1 MeSH descriptor: [Electronic Nicotine Delivery Systems] this term only
76
- #2 MeSH descriptor: [Vaping] this term only 11
- #3 (ecig* or e-cig* or "e-voke" or juul* or vape* or vaping* or ENNDS):ti,ab
388
- #4 (electronic* near/3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)):ti,ab 287
- #5 ((tobacco* or nicotin* or cigar* or cigs) near/3 (vapor* or vapour* or device* or inhalator* or inhaler*)):ti,ab 201
- #6 (nicotin* and (ENDS or ANDS)):ti,ab 42
- #7 (nicotin* near/3 (delivery* NEXT system*)):ti,ab 54
- #8 {or #1-#7} 619
- #9 MeSH descriptor: [Smoking Reduction] this term only 9
- #10 MeSH descriptor: [Harm Reduction] this term only 111
- #11 MeSH descriptor: [Risk Reduction Behavior] this term only 1609
- #12 MeSH descriptor: [Smokers] this term only 102
- #13 prequit*:ti,ab or (pre NEXT quit*):ti,ab or (cut* NEXT down*):ti,ab or (controlled NEXT smoking*):ti,ab 434
- #14 stopstart*:ti,ab or (stop NEXT start):ti,ab or (cold NEXT turkey*):ti,ab
28
- #15 ((harm* or risk*) near/1 (cut or cuts* or cutting* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz* or less* or lower* or small*)):ti,ab 18218
- #16 ((temporar* or short* or impermanent* or brief* or interim* or cautious* or planned* or schedul* or intention* or intend* or motivat* or abrupt* or sudden* or rapid* or immediate* or quick* or impulsive* or spontaneous* or unplann* or unstructur* or unprompt* or unmotivat* or unwilling* or unable* or unintention* or unintend* or unsustain* or unsuccess* or prolong* or maintain* or maintenance* or sustain* or consumption* or consum* or attempt* or fail* or incomplet* or partial*) near/3 (cut or cuts* or cutting* or abstain* or abstinen* or quit or quits* or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or (giv* NEXT up) or discontinu* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz*)):ti,ab 32516
- #17 ((tobacco* or cigar* or cigs or smoking* or smoker*) near/3 (cut or cuts* or cutting* or abstain* or abstinen* or quit or quits* or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or (giv* NEXT up) or discontinu* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz*)):ti,ab 11039
- #18 (gradual* or withdraw* or substitut* or fading* or taper* or swap* or swop* or switch* or replace* or replacing*):ti,ab 83703
- #19 ((intention* or intend* or motivat* or impulsive* or spontaneous* or unplann* or unstructur* or unprompt* or unmotivat* or unwilling* or unable* or unintention* or unintend* or unsustain* or unsuccess* or attempt* or fail* or incomplet* or partial*) near/3 smoker*):ti,ab 562
- #20 {or #9-#19} 135082

#21 #8 and #20 400
#22 ((tobacco* or nicotin* or cigar* or cigs) near/3 (dual* or multiple* or multi)):ti,ab 81
#23 polytobacco*:ti,ab or (poly NEXT tobacco*):ti,ab or multitobacco*:ti,ab or (multi NEXT tobacco*):ti,ab 5
#24 {or #21-#23} 471
#25 conference:pt 155705
#26 #24 not #25 421
#27 (clinicaltrials or trialsearch):so 256741
#28 #26 not #27 271
#29 #26 not #27 in Trials 262

26.3.2 Database name: Cochrane Database of Systematic Reviews (CDSR)

- #1 MeSH descriptor: [Electronic Nicotine Delivery Systems] this term only 76
- #2 MeSH descriptor: [Vaping] this term only 11
- #3 (ecig* or e-cig* or "e-voke" or juul* or vape* or vaping* or ENNDS):ti,ab 388
- #4 (electronic* near/3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)):ti,ab 287
- #5 ((tobacco* or nicotin* or cigar* or cigs) near/3 (vapor* or vapour* or device* or inhalator* or inhaler*)):ti,ab 201
- #6 (nicotin* and (ENDS or ANDS)):ti,ab 42
- #7 (nicotin* near/3 (delivery* NEXT system*)):ti,ab 54
- #8 {or #1-#7} 619
- #9 MeSH descriptor: [Smoking Reduction] this term only 9
- #10 MeSH descriptor: [Harm Reduction] this term only 111
- #11 MeSH descriptor: [Risk Reduction Behavior] this term only 1609
- #12 MeSH descriptor: [Smokers] this term only 102
- #13 prequit*:ti,ab or (pre NEXT quit*):ti,ab or (cut* NEXT down*):ti,ab or (controlled NEXT smoking*):ti,ab 434
- #14 stopstart*:ti,ab or (stop NEXT start):ti,ab or (cold NEXT turkey*):ti,ab 28
- #15 ((harm* or risk*) near/1 (cut or cuts* or cutting* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz* or less* or lower* or small*)):ti,ab 18218
- #16 ((temporar* or short* or impermanent* or brief* or interim* or cautious* or planned* or schedul* or intention* or intend* or motivat* or abrupt* or sudden* or rapid* or immediate* or quick* or impulsive* or spontaneous* or unplann* or unstructur* or unprompt* or unmotivat* or unwilling* or unable* or unintention* or unintend* or unsustain* or unsuccess* or prolong* or maintain* or maintenance* or sustain* or consumption* or consum* or attempt* or fail* or incomplet* or partial*) near/3 (cut or cuts* or cutting* or abstain* or abstinen* or quit or quits* or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or (giv* NEXT up) or discontinu* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz*)):ti,ab 32516
- #17 ((tobacco* or cigar* or cigs or smoking* or smoker*) near/3 (cut or cuts* or cutting* or abstain* or abstinen* or quit or quits* or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or (giv* NEXT up) or discontinu* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz*)):ti,ab 11039
- #18 (gradual* or withdraw* or substitut* or fading* or taper* or swap* or swop* or switch* or replace* or replacing*):ti,ab 83703
- #19 ((intention* or intend* or motivat* or impulsive* or spontaneous* or unplann* or unstructur* or unprompt* or unmotivat* or unwilling* or unable* or unintention* or unintend* or unsustain* or unsuccess* or attempt* or fail* or incomplet* or partial*) near/3 smoker*):ti,ab 562
- #20 {or #9-#19} 135082
- #21 #8 and #20 400

- #22 ((tobacco* or nicotin* or cigar* or cigs) near/3 (dual* or multiple* or multi)):ti,ab 81
- #23 polytobacco*:ti,ab or (poly NEXT tobacco*):ti,ab or multitobacco*:ti,ab or (multi NEXT tobacco*):ti,ab 5
- #24 {or #21-#23} 471
- #25 conference:pt 155705
- #26 #24 not #25 421
- #27 (clinicaltrials or trialsearch):so 256741
- #28 #26 not #27 271
- #29 #26 not #27 in Cochrane Reviews, Cochrane Protocols 8

26.3.3 Database name: Database of Abstracts of Reviews of Effects

(DARE) – legacy

- 1 MeSH DESCRIPTOR Electronic Cigarettes 1
- 2 MeSH DESCRIPTOR Vaping 0
- 3 ((ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS)) 6
- 4 ((electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*))) 7
- 5 (((tobacco* or nicotin* or cigar* or cigs) adj3 (vapor* or vapour* or device* or inhalator* or inhaler*)))
- 6 ((nicotin* and (ENDS or ANDS)))
- 7 ((nicotin* adj3 deliver* system*))
- 8 ((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi))
5
- 9 ((polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*))
- 10 #1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 OR #9 29
- 11 (#1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 OR #9) IN DARE
17

26.3.4 Database name: EmbaseDatabase(s): **Embase** 1974 to 2019 July 23

Search Strategy:

#	Searches	Results
1	electronic cigarette/	4955
2	Vaping/	930
3	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).ti,ab.	4213
4	(electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).ti,ab.	3085
5	((tobacco* or nicotin* or cigar* or cigs) adj3 (vapor* or vapour* or device* or inhalator* or inhaler*)).ti,ab.	1088
6	(nicotin* and (ENDS or ANDS)).ti,ab.	416
7	(nicotin* adj3 deliver* system*).ti,ab.	497
8	or/1-7	6631
9	smoking reduction/	132
10	harm reduction/	5555
11	risk reduction/	97160
12	(pre-quit* or prequit* or "pre quit*" or cut* down* or controlled smoking*).ti,ab.	3467
13	("Stop-start*" or stopstart* or "stop start*" or "cold turkey*").ti,ab.	307
14	((harm* or risk*) adj1 (cut or cuts* or cutting* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz* or less* or lower* or small*)).ti,ab.	158096
15	((temporar* or short* or impermanent* or brief* or interim* or cautious* or planned* or schedul* or intention* or intend* or motivat* or abrupt* or sudden* or rapid* or immediate* or quick* or impulsive* or spontaneous* or unplann* or unstructur* or unprompt* or unmotivat* or unwilling* or unable* or unintention* or unintend* or unsustain* or unsuccess* or prolong* or maintain* or maintenance* or sustain* or consumption* or consum* or attempt* or fail* or incomplet* or partial*) adj3 (cut or cuts* or cutting* or abstain* or abstinen* or quit or quits* or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or	308888

	giv* up or discontinu* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz*)),ti,ab.	
16	((tobacco* or cigar* or cigs or smoking* or smoker*) adj3 (cut or cuts* or cutting* or abstain* or abstin* or quit or quits* or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or giv* up or discontinu* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz*)),ti,ab.	60690
17	(gradual* or withdraw* or substitut* or fading* or taper* or swap* or swop* or switch* or replace* or replacing*).ti,ab.	1413432
18	((intention* or intend* or motivat* or impulsive* or spontaneous* or unplann* or unstructur* or unprompt* or unmotivat* or unwilling* or unable* or unintention* or unintend* or unsustain* or unsuccess* or attempt* or fail* or incomplet* or partial*) adj3 smoker*).ti,ab.	2163
19	or/9-18	1946558
20	8 and 19	2916
21	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using)).ti,ab.	484
22	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).ti,ab.	101
23	or/20-22	3317
24	nonhuman/ not (human/ and nonhuman/)	4438289
25	23 not 24	3221
26	(letter or editorial).pt.	1703375
27	25 not 26	3053
28	(conference abstract or conference paper or conference proceeding or "conference review").pt.	4258144
29	27 not 28	2521
30	limit 29 to medline	723

31	29 not 30	1798
32	limit 31 to english language	1728
33	random:.tw.	1435722
34	placebo:.mp.	437119
35	double-blind:.tw.	200309
36	or/33-35	1684747
37	32 and 36	248
38	(MEDLINE or pubmed).tw.	226876
39	exp systematic review/ or systematic review.tw.	256330
40	meta-analysis/	167366
41	intervention*.ti.	182920
42	or/38-41	586502
43	32 and 42	126
44	37 or 43	337

26.3.5 Database name: MEDLINEDatabase(s): **Ovid MEDLINE(R)** 1946 to July 23, 2019

Search Strategy:

#	Searches	Results
1	Electronic Nicotine Delivery Systems/	2480
2	Vaping/	351
3	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).ti,ab.	2311
4	(electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).ti,ab.	1799
5	((tobacco* or nicotin* or cigar* or cigs) adj3 (vapor* or vapour* or device* or inhalator* or inhaler*)).ti,ab.	662
6	(nicotin* and (ENDS or ANDS)).ti,ab.	241
7	(nicotin* adj3 deliver* system*).ti,ab.	282
8	or/1-7	3688
9	Smoking reduction/	26
10	Harm Reduction/	2742
11	Risk Reduction Behavior/	11630
12	Smokers/	914
13	(pre-quit* or prequit* or "pre quit*" or cut* down* or controlled smoking*).ti,ab.	2051
14	("Stop-start*" or stopstart* or "stop start*" or "cold turkey*").ti,ab.	189
15	((harm* or risk*) adj1 (cut or cuts* or cutting* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz* or less* or lower* or small*)).ti,ab.	93025
16	((temporar* or short* or impermanent* or brief* or interim* or cautious* or planned* or schedul* or intention* or intend* or motivat* or abrupt* or sudden* or rapid* or immediate* or quick* or impulsive* or spontaneous* or unplann* or unstructur* or unprompt* or unmotivat* or unwilling* or unable* or unintention* or unintend* or unsustain* or unsuccess* or prolong* or maintain* or maintenance* or sustain* or consumption* or consum* or attempt* or fail* or incomplet* or partial*) adj3 (cut or cuts* or cutting* or abstain* or abstinen* or quit or quits* or quitting* or stop or stops* or	205037

	stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or giv* up or discontinu* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz*)).ti,ab.	
17	((tobacco* or cigar* or cigs or smoking* or smoker*) adj3 (cut or cuts* or cutting* or abstain* or abstinen* or quit or quits* or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or giv* up or discontinu* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz*)).ti,ab.	41137
18	(gradual* or withdraw* or substitut* or fading* or taper* or swap* or swop* or switch* or replace* or replacing*).ti,ab.	943923
19	((intention* or intend* or motivat* or impulsive* or spontaneous* or unplann* or unstructur* or unprompt* or unmotivat* or unwilling* or unable* or unintention* or unintend* or unsustain* or unsuccess* or attempt* or fail* or incomplet* or partial*) adj3 smoker*).ti,ab.	1562
20	or/9-19	1253036
21	8 and 20	1588
22	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*)).ti,ab.	316
23	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).ti,ab.	73
24	or/21-23	1862
25	Animals/ not (Animals/ and Humans/)	4568770
26	24 not 25	1820
27	limit 26 to (letter or historical article or comment or editorial or news or case reports)	154
28	26 not 27	1666
29	limit 28 to english language	1598
30	randomized controlled trial.pt.	485715
31	randomi?ed.mp.	749931

32	placebo.mp.	186653
33	or/30-32	800073
34	29 and 33	192
35	(MEDLINE or pubmed).tw.	143252
36	systematic review.tw.	102263
37	systematic review.pt.	109542
38	meta-analysis.pt.	103021
39	intervention*.ti.	113402
40	or/35-39	338819
41	29 and 40	90
42	34 or 41	252

26.3.6 Database name: MEDLINE-in-Process (including Epub Ahead-of-Print)

Database(s): **Ovid MEDLINE(R) Epub Ahead of Print** July 23, 2019, **Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations** 1946 to July 23, 2019

Search Strategy:

#	Searches	Results
1	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).ti,ab.	1228
2	(electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).ti,ab.	767
3	((tobacco* or nicotin* or cigar* or cigs) adj3 (vapor* or vapour* or device* or inhalator* or inhaler*)).ti,ab.	178
4	(nicotin* and (ENDS or ANDS)).ti,ab.	115
5	(nicotin* adj3 deliver* system*).ti,ab.	133
6	or/1-5	1538
7	(pre-quit* or prequit* or "pre quit*" or cut* down* or controlled smoking*).ti,ab.	365
8	("Stop-start*" or stopstart* or "stop start*" or "cold turkey*").ti,ab.	30
9	((harm* or risk*) adj1 (cut or cuts* or cutting* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz* or less* or lower* or small*)).ti,ab.	16046
10	((temporar* or short* or impermanent* or brief* or interim* or cautious* or planned* or schedul* or intention* or intend* or motivat* or abrupt* or sudden* or rapid* or immediate* or quick* or impulsive* or spontaneous* or unplann* or unstructur* or unprompt* or unmotivat* or unwilling* or unable* or unintention* or unintend* or unsustain* or unsuccess* or prolong* or maintain* or maintenance* or sustain* or consumption* or consum* or attempt* or fail* or incomplet* or partial*) adj3 (cut or cuts* or cutting* or abstain* or abstinen* or quit or quits* or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or giv* up or discontinu* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz*)).ti,ab.	29797
11	((tobacco* or cigar* or cigs or smoking* or smoker*) adj3 (cut or cuts* or cutting* or abstain* or abstinen* or quit or quits* or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or giv* up or discontinu* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz*)).ti,ab.	5777

12	(gradual* or withdraw* or substitut* or fading* or taper* or swap* or swop* or switch* or replace* or replacing*).ti,ab.	175699
13	((intention* or intend* or motivat* or impulsive* or spontaneous* or unplann* or unstructur* or unprompt* or unmotivat* or unwilling* or unable* or unintention* or unintend* or unsustain* or unsuccess* or attempt* or fail* or incomplet* or partial*) adj3 smoker*).ti,ab.	216
14	or/7-13	221393
15	6 and 14	651
16	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*)).ti,ab.	129
17	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).ti,ab.	34
18	or/15-17	751
19	limit 18 to (letter or historical article or comment or editorial or news or case reports)	12
20	18 not 19	739
21	limit 20 to english language	726
22	randomized controlled trial.pt.	277
23	randomi?ed.mp.	79540
24	placebo.mp.	19391
25	or/22-24	86449
26	21 and 25	65
27	(MEDLINE or pubmed).tw.	36642
28	systematic review.tw.	30722
29	systematic review.pt.	306
30	meta-analysis.pt.	42
31	intervention*.ti.	22573

32	or/27-31	71440
33	21 and 32	36
34	26 or 33	90

26.3.7 Database name: PsycINFODatabase(s): **PsycINFO** 1806 to July Week 3 2019

Search Strategy:

#	Searches	Results
1	Electronic Cigarettes/	971
2	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).ti,ab.	1338
3	(electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).ti,ab.	891
4	((tobacco* or nicotin* or cigar* or cigs) adj3 (vapor* or vapour* or device* or inhalator* or inhaler*)).ti,ab.	246
5	(nicotin* and (ENDS or ANDS)).ti,ab.	116
6	(nicotin* adj3 deliver* system*).ti,ab.	160
7	or/1-6	1713
8	harm reduction/	3037
9	(pre-quit* or prequit* or "pre quit*" or cut* down* or controlled smoking*).ti,ab.	786
10	("Stop-start*" or stopstart* or "stop start*" or "cold turkey*").ti,ab.	95
11	((harm* or risk*) adj1 (cut or cuts* or cutting* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz* or less* or lower* or small*)).ti,ab.	22141
12	((temporar* or short* or impermanent* or brief* or interim* or cautious* or planned* or schedul* or intention* or intend* or motivat* or abrupt* or sudden* or rapid* or immediate* or quick* or impulsive* or spontaneous* or unplann* or unstructur* or unprompt* or unmotivat* or unwilling* or unable* or unintention* or unintend* or unsustain* or unsuccess* or prolong* or maintain* or maintenance* or sustain* or consumption* or consum* or attempt* or fail* or incomplet* or partial*) adj3 (cut or cuts* or cutting* or abstain* or abstinen* or quit or quits* or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or giv* up or discontinu* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz*)).ti,ab.	46676
13	((tobacco* or cigar* or cigs or smoking* or smoker*) adj3 (cut or cuts* or cutting* or abstain* or abstinen* or quit or quits* or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or giv* up or	19026

	discontinu* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz*)).ti,ab.	
14	(gradual* or withdraw* or substitut* or fading* or taper* or swap* or swop* or switch* or replace* or replacing*).ti,ab.	139844
15	((intention* or intend* or motivat* or impulsive* or spontaneous* or unplann* or unstructur* or unprompt* or unmotivat* or unwilling* or unable* or unintention* or unintend* or unsustain* or unsuccess* or attempt* or fail* or incomplet* or partial*) adj3 smoker*).ti,ab.	1067
16	or/8-15	214006
17	7 and 16	964
18	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*)).ti,ab.	243
19	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).ti,ab.	71
20	or/17-19	1180
21	limit 20 to ("column/opinion" or editorial or letter)	39
22	20 not 21	1141
23	limit 22 to english language	1070
24	exp Randomized Controlled Trials/	117
25	Placebo/	5283
26	exp treatment/	1007827
27	(control* or random*).tw.	769682
28	(clinical* adj3 (trial* or stud*)).tw.	63503
29	placebo*.tw.	39284
30	((singl* or doubl* or trebl* or tripl*) adj (blind* or mask*)).tw.	25200
31	(crossover* or (cross adj over*)).tw.	9895

32	or/24-31	1619531
33	23 and 32	498
34	Meta Analysis/	4449
35	Systematic Review/	83
36	effectiveness*.tw.	153169
37	(search* or handsearch*).tw.	94327
38	(meta-analysis* or metaanaly* or metanaly* or (meta adj3 analy*)).tw.	34773
39	(review* or overview*).ti.	157886
40	(systematic* adj5 (review* or overview*)).tw.	30754
41	((quantitative* or qualitative*) adj5 (review* or overview*)).tw.	5130
42	((studies or trial*) adj2 (review* or overview*)).tw.	18248
43	(integrat* adj3 (research or review* or literature)).tw.	11732
44	(pool* adj2 (analy* or data)).tw.	3269
45	or/34-44	420276
46	23 and 45	114
47	33 or 46	542

26.4 Supplementary search techniques

26.4.1 Scoping searches

The following papers were identified during the scoping searches for this topic and added to the EndNote file:

Notley C et al. (2018) The unique contribution of e-cigarettes for tobacco harm reduction in supporting smoking relapse prevention. *Harm Reduction Journal*, 15(1): 31.

Polosa R et al. (2013) A fresh look at tobacco harm reduction: the case for the electronic cigarette. *Harm Reduction Journal*, 10:19.

The following Cochrane Reviews were identified during the scoping searches for this topic and added to the EndNote file:

Lindson-Hawley N et al. (2016) Interventions to reduce harm from continued tobacco use. *Cochrane Database of Systematic Reviews*, Issue 10. Art. No.: CD005231.

Lindson-Hawley N et al. (2012) Reduction versus abrupt cessation in smokers who want to quit. *Cochrane Database of Systematic Reviews*, Issue 11. Art. No.: CD008033.

The included papers cited in Lindson-Hawley were reviewed and these two were extracted as potentially relevant to this review.

Roethig HJ et al. A 12-month, randomized, controlled study to evaluate exposure and cardiovascular risk factors in adult smokers switching from conventional cigarettes to a second-generation electrically heated cigarette smoking system. *Journal of Clinical Pharmacology* 2008;48(5):580-91

Roethig HJ et al. Short-term exposure evaluation of adult smokers switching from conventional to first-generation electrically heated cigarettes during controlled smoking. *Journal of Clinical Pharmacology* 2005;45(2):133-45.

Added to marked list = 6 citations

MEDLINE strategy for retrieving the 6 to obtain a ris file:

Database(s): **Ovid MEDLINE(R)** 1946 to July 23, 2019
Search Strategy:

#	Searches	Results
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1	("29921278" or "24090432" or "23152252" or "27734465" or "18319361" or "15647405").ui.	6
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26.4.2 Reference harvesting

Only those references that could be accessed through the NICE subscription to WOS were added to the search results. This used Web of Science Core Collection (1990-present). Duplicates were removed from the marked list in WOS before downloading the results.

The following papers were identified during the scoping searches and they were used for reference harvesting in Web of Science.

Notley C et al. (2018) The unique contribution of e-cigarettes for tobacco harm reduction in supporting smoking relapse prevention. *Harm Reduction Journal*, 15(1): 31.

Polosa R et al. (2013) A fresh look at tobacco harm reduction: the case for the electronic cigarette. *Harm Reduction Journal*, 10:19.

Total added to marked list = 87 citations

Total available for download = 83 citations

26.4.3 Forward citation searching

The same papers as used for reference harvesting were used for citation searching in Web of Science. Only those references that could be accessed through the NICE subscription to WOS were added to the search results. This used Web of Science Core Collection (1990-present). Duplicates were removed from the marked list in WOS before downloading the results.

Lindson-Hawley N et al. (2016) Interventions to reduce harm from continued tobacco use. *Cochrane Database of Systematic Reviews*, Issue 10. Art. No.: CD005231.

Lindson-Hawley N et al. (2012) Reduction versus abrupt cessation in smokers who want to quit. *Cochrane Database of Systematic Reviews*, Issue 11. Art. No.: CD008033.

Notley C et al. (2018) The unique contribution of e-cigarettes for tobacco harm reduction in supporting smoking relapse prevention. *Harm Reduction Journal*, 15(1): 31.

Polosa R et al. (2013) A fresh look at tobacco harm reduction: the case for the electronic cigarette. *Harm Reduction Journal*, 10:19.

Total added to marked list = 244 citations

Total available for download = 244 citations

Science Citation Index Expanded (SCI-EXPANDED) --1990-present

Social Sciences Citation Index (SSCI) --1990-present

Arts & Humanities Citation Index (A&HCI) --1990-present

Emerging Sources Citation Index (ESCI) --2015-present

26.5 Web searching

26.5.1 Search engines

Search engine	
Name	Health Services/Technology Assessment Texts (HSTAT)
URL	https://www.ncbi.nlm.nih.gov/books/NBK16710
Date searched	24/07/2019
Search terms	<p>1 vaping[MeSH Terms] 90</p> <p>2 Electronic Nicotine Delivery Systems [MeSH Terms] 90</p> <p>3 ((ecig*[Title] OR e-cig*[Title] OR e-voke*[Title] OR juul*[Title] OR vape*[Title] OR vaping*[Title] OR ENNDS)[Title]) 12</p> <p>4 (((electronic* AND (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*))) 1898</p> <p>5 1 OR 2 OR 3 OR4 1956</p> <p>6 (1 OR 2 OR 3 OR4) AND hstatcollect[filter] 179 ITEMS (67 BOOKS)</p>
How the results were selected	Only selected documents if the title or abstract were directly relevant to the questions.
Results	<p>26.6 National Academies of Sciences, Engineering, and Medicine (2018) Public Health Consequences of E-Cigarettes SEE CHAPTER 18 HARM REDUCTION</p> <p>Millions of Americans use e-cigarettes. Despite their popularity, little is known about their health effects. Some suggest that e-cigarettes likely confer lower risk compared to combustible tobacco cigarettes, because they do not expose users to toxicants produced through combustion. Proponents of e-cigarette use also tout the potential benefits of e-cigarettes as devices that could help combustible tobacco cigarette smokers to quit and thereby reduce tobacco-related health risks. Others are concerned about the exposure to potentially toxic substances contained in e-cigarette emissions, especially in individuals who have never used tobacco products such as youth and young adults. Given their relatively recent introduction, there has been little time for a scientific body of evidence to develop on the health effects of e-cigarettes. Public Health Consequences of E-Cigarettes reviews and critically assesses the state of the emerging evidence about e-cigarettes and health. This report makes recommendations for the improvement of this research and highlights gaps that are a priority for future research. https://www.ncbi.nlm.nih.gov/books/NBK507171/</p>

Search engine	
Name	NICE Evidence Search
URL	https://www.evidence.nhs.uk
Date searched	24/07/2019

<p>Search terms</p>	<p>“harm reduction”</p> <p>“risk reduction”</p> <p>“smoking reduction”</p> <p>"pre quit"</p> <p>“controlled smoking”</p> <p>polytobacco</p> <p>multitobacco</p> <p>“multiple tobacco”</p> <p>“dual use”</p> <p>vaping</p> <p>vapers</p> <p>“electronic cigarettes”</p> <p>ecigs</p>
<p>How the results were selected</p>	<p>Only selected documents if the title or abstract were directly relevant to the questions. For each question, sorted by relevance and then reviewed all of the first 250 results. Also looked at results in date order and looked back to 2013 (i.e. publication of PH45). All terms were searched with and without plurals and hyphens if appropriate.</p> <p>Did not add these, which would be background reading.</p> <p>Healthtalk.org (2018) Giving up smoking. Electronic cigarettes http://www.healthtalk.org/peoples-experiences/healthy-living/giving-smoking-coming-soon/electronic-cigarettes</p> <p>Royal College of Psychiatrists (2018) The prescribing of varenicline and vaping (electronic cigarettes) to patients with severe mental illness https://www.rcpsych.ac.uk/docs/default-source/improving-care/better-mh-policy/position-statements/ps05_18.pdf?sfvrsn=2bb7fdfe_4</p> <p>Royal Society for Public Health (2015) Stopping smoking by using other sources of nicotine</p>

	<p>https://www.rsph.org.uk/uploads/assets/uploaded/d7f1aa02-3f33-4324-82bfb15d484d5354.pdf</p> <p>Royal Society for Public Health (2017) Targeting the supply and sale of e-cigarettes to smokers</p> <p>https://www.rsph.org.uk/uploads/assets/uploaded/227f64d3-1eab-4d29-bc896d09052ddda4.pdf</p>
<p>Results</p>	<p>Reports</p> <p>ASH (2014) Discussion Paper on harm reduction and electronic cigarettes.</p> <p>This paper provides a background to the evolution of harm reduction and electronic cigarettes in the UK.</p> <p>http://ash.org.uk/information-and-resources/product-regulation/harm-reduction/discussion-paper-on-harm-reduction-and-electronic-cigarettes/</p> <p>Institute of Economic Affairs (2016) Understanding the basic economics of tobacco harm reduction.</p> <p>The branch of economics that studies preferences and choices as they relate to costs and benefits is the natural starting point – indeed the only apparent candidate for a rational starting point – for understanding these phenomena as they relate to tobacco/nicotine use.</p> <p>Many implications of substituting low-risk alternatives (e-cigarettes, smokeless tobacco) for smoking, usually referred to as ‘tobacco harm reduction’, can be derived from even simple economic analysis. But such analysis has been largely avoided, limiting understanding and creating potentially harmful myths. Illiberal policies are hidden behind indefensible (and never actually defended) assumptions that contradict basic economics.</p> <p>Substitution of a low risk product would be welfare-enhancing for most smokers. Some smokers will still prefer smoking to any available alternative, despite the much higher risk. But there are vanishingly few smokers for whom abstinence is a better choice than switching to a low-risk alternative. Thus there is no apparent ethical justification for anti-smoking measures that push for abstinence rather than switching.</p> <p>The availability of low-risk tobacco/nicotine products will inevitably increase total consumption as compared to a world where cigarettes are the only option. This is the inevitable and rational effect of lowering the costs of a consumption choice. It is properly counted as an additional benefit, though it is widely derided as a cost. Public supporters of low-risk products who</p>

	<p>condition their support on those products not attracting any new users are either being naïve or cynically imposing conditions they know cannot be met.</p> <p>https://iea.org.uk/wp-content/uploads/2016/08/Economics-of-tobacco-PDF.pdf</p> <p>Royal College of Physicians (2016) Nicotine without smoke: Tobacco harm reduction</p> <p>This report provides an update on the use of harm reduction in tobacco smoking, in relation to all non-tobacco nicotine products but particularly e-cigarettes. It shows that, for all the potential risks involved, harm reduction has huge potential to prevent death and disability from tobacco use, and to hasten our progress to a tobacco-free society. However, the available evidence to date indicates that e-cigarettes are being used almost exclusively as safer alternatives to smoked tobacco, by confirmed smokers who are trying to reduce harm to themselves or others from smoking, or to quit smoking completely.</p> <p>https://www.rcplondon.ac.uk/projects/outputs/nicotine-without-smoke-tobacco-harm-reduction-0</p> <p>Articles</p> <p>Al-Delaimy WK, et al. (2014) E-Cigarette Use in the Past and Quitting Behavior in the Future: A Population-Based Study. <i>American Journal of Public Health</i> 105(6): 1213-1219.</p> <p>Beard E, Brown J, Michie S, et al. (2018) Is prevalence of e-cigarette and nicotine replacement therapy use among smokers associated with average cigarette consumption in England? A time-series analysis</p> <p><i>BMJ Open</i> 8: e016046. doi: 10.1136/bmjopen-2017-016046</p> <p>Beard E, Brown J, McNeill A, et al (2015) Has growth in electronic cigarette use by smokers been responsible for the decline in use of licensed nicotine products? Findings from repeated cross-sectional surveys <i>Thorax</i> 70: 974-978.</p> <p>Gomajee R, El-Khoury F, Goldberg M, et al. Association Between Electronic Cigarette Use and Smoking Reduction in France. <i>JAMA Intern Med</i>. Published online July 15, 2019. doi:10.1001/jamainternmed.2019.1483</p>
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	<p>Shahab L, et al. (2017) Nicotine, Carcinogen, and Toxin Exposure in Long-Term E-Cigarette and Nicotine Replacement Therapy Users: A Cross-sectional Study. <i>Ann Intern Med.</i> 166: 390–400. doi: 10.7326/M16-1107</p> <p>Sweet L et al. (2019) Quitting Behaviors Among Dual Cigarette and E-Cigarette Users and Cigarette Smokers Enrolled in the Tobacco User Adult Cohort, <i>Nicotine & Tobacco Research</i>, 21(3), 278–284. https://doi.org/10.1093/ntr/nty222</p> <p>Sumner W. Estimating the health consequences of replacing cigarettes with nicotine inhalers. <i>Tob Control</i> 2003, 12: 124-132</p>
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26.6.1 Website browsing

Website	
Name	UK Centre for Tobacco and Alcohol Studies
URL	http://ukctas.net/index.html
Date searched	24/07/2019
Search terms (including any specific sections browsed)	Browsed reports, policy, research, dissemination. Checked the harm reduction section https://www.ukctas.net/workstreams/ws4.html
Results	None

Website	
Name	University of Bath Tobacco Control Research Group
URL	https://researchportal.bath.ac.uk/en/organisations/uk-centre-for-tobacco-control-studies
Date searched	24/07/2019
Search terms (including any specific sections browsed)	Browsed the Nicotine and Smoking sections.
Results	None

Website	
Name	University of Stirling Centre for Tobacco Control Research
URL	https://www.stir.ac.uk/about/faculties-and-services/health-sciences-sport/research/research-groups/centre-for-tobacco-control-research/publications
Date searched	24/07/2019
Search terms (including any specific sections browsed)	Browsed the full list of publications. Hastings G, de Andrade M and Moodie C (2012). Tobacco harm reduction: The devil is in the deployment. <i>British Medical Journal</i> , 345 : e8412. – <i>this does mention NICE but it's not an rct, it's more of an opinion piece.</i>

	Brown A, McNeill A, Mons U and Guignard R (2012). Do smokers in Europe think all cigarettes are equally harmful? <i>European Journal of Public Health</i> , 22 (Supp 1): 35-40. – <i>this is about cigarette brands.</i>
Results	None

26.7 Search narrative

There are two components to RQ6.1.

- 6.1a. What are the most effective and cost effective means of smoking cessation (including e-cigarettes)?
- 6.1b. Are e-cigarettes effective and cost effective for smoking harm reduction?

RQ6.1A is being answered by a separate review done by Bristol University.

The current search is therefore just to answer RQ6.1B.

The sources in the protocol for this review were based on those in the protocol for the Bristol review. The NICE technical team did not want to include clinical trial registers as the protocol specifies that only published papers will be included and the protocol excludes unpublished data.

The date limits were removed from the search strategy because the technical team decided it would be inappropriate to have a date limit as part of the inclusion/exclusion criteria. Date limits are appropriate when there is a behavioural element to the question but not when the review is about a biological mechanism.

The English language limit was included as part of standard NICE practice, although the Bristol protocol did not have any language limits. The review team do not have any resources available for translating papers.

The terms for e-cigs were taken directly from RQ5.3 for pregnancy. No other interventions were included in the search because the technical team only wanted papers comparing E-cigs to other interventions (i.e. they did not want papers about NRT versus Placebo). The search was originally intended to be “(E-cigs OR NRT) AND harm reduction” which is why this question was done separately and not part of the overarching e-cigs search for RQ4.1, RQ6.2, RQ6.3, RQ6.4. NRT wasn’t highlighted as an area for update in harm reduction and it is already recommended so the purpose of this search is to consider if e-cigs are an option in this area. This search was done in July

2019 and it was better to do a new search rather than re-sifting the January 2019 results from the "RQ4.1, RQ6.2, RQ6.3, RQ6.4" search as e-cigs is a relatively fast moving topic and we would expect new papers to have been published this year. Had we known in January 2019 that NRT would not be included in 6.1b then we could have included it in the big search.

The structure of the e-cigs terms was changed from RQ5.3 and other earlier searches. The terms for dual use and multi-tobacco were moved to be searched separately because they could be considered harm reduction measures in their own right and it did not seem correct to combine them with the HR terms. The purpose of this was to make the search more sensitive.

The Lindson-Hawley 2016 Cochrane Review has 20 potentially relevant included papers. 9 of these were found by the MEDLINE search. 9 of the papers were about NRT and so it was not appropriate to use this review for full reference harvesting. 2 papers were missed by the topic terms for electronic cigarettes (Roethig et al. 2005 and 2008) and so these were added into the papers identified through scoping.

The 2 Cochrane Reviews were used for forwards citation searching as it was felt that e-cigs interventions were likely to also discuss previous research on NRT.

The definition of harm reduction used to develop the search was:

Measures to reduce the illnesses and deaths caused by smoking tobacco among people who smoke and those around them. Some measures or products may reduce harm more than others. People who smoke and are currently unwilling or unable to quit completely can reduce harm by smoking less and abstaining from smoking temporarily. While the benefits of harm reduction in and of itself are uncertain, it may mean people are more likely to stop smoking altogether in the future.

The terms for harm reduction were developed from PH45 and the Lindson-Hawley 2016 Cochrane Review. The 20 relevant included papers cited in Lindson-Hawley, the 2 Cochrane Reviews and the 2 papers identified from scoping (Notley and Polosa) were used in PubMedReminer (on 10 July 2019)

to identify additional terms for the free-text. Some of the terms from the Cochrane Review on abrupt cessation were retained (e.g. pre-quit), although that concept is not directly relevant. It is possible that smokers could try to quit and not completely cease but they do manage to reduce their smoking. The technical team asked for “pre-loading” to be removed. The harm reduction set finds all 24 test papers (although they are not all found by the final search because the NRT terms were removed and study filters were applied).

The study filters were chosen as a result of the Guideline updates filters project. The SR filter for MEDLINE and Embase is from Health-evidence.ca. The RCT filter is the McMaster Clinical Queries Balanced filter. The choice of filters was discussed with the technical team in advance. The RCT filter was tested against the 20 included papers from the Lindson-Hawley 2016 Cochrane Review and it found 19 of these – the missing paper was about NRT not e-cigs. The filters have not been tested in MIP separately and so this is a limitation of the search. The old unvalidated filters that were previously in use for public health guidance were tested in MIP and they did not retrieve any additional papers that were potentially includable in this review (after consulting the technical team on some of the titles that would be missed by the new filters). The standard NICE modifications to increase sensitivity were made to the filters. Full details provided in the table:

		MEDLINE	Embase
RCT	Name	McMaster Therapy – Medline - “best balance of sensitivity and specificity” version	McMaster Therapy – Embase “best balance of sensitivity and specificity” version
	Reference	Haynes RB et al. (2005) Optimal search strategies for retrieving scientifically strong studies of treatment from Medline: analytical survey. <i>BMJ</i> , 330, 1179-1183.	Wong SSL et al. (2006) Developing optimal search strategies for detecting clinically sound treatment studies in EMBASE. <i>Journal of the Medical Library Association</i> , 94(1), 41-47.
	Performance Sensitivity/Precision	96%/39%	95%/38%
	NICE modifications	randomized.mp changed to randomi?ed.mp	None

SR	Name	Health-evidence.ca Systematic review search filter	
	Reference	Lee, E. et al. (2012) An optimal search filter for retrieving systematic reviews and meta-analyses. <i>BMC Medical Research Methodology</i> , 12(1), 51.	
	Performance Sensitivity/Precision	90%/1.4%	88%/0.5%
	NICE modifications	pubmed.tw added to line medline.tw systematic review.pt added (MeSH update 2019)	pubmed.tw added to line medline.tw

The PsyclINFO search took a sensitive approach to the study filters. The McMaster filters from the Hedges page had relatively low sensitivity (79%) and had not been tested for NICE. The terms in these filters were combined with the free-text terms from the old filters that were previously used in MEDLINE and Embase, as well as the new vocabulary that has been added to the indexing in PsyclINFO. The animals limit was removed as there were papers that were about both humans and animals that would have been incorrectly excluded by limiting to humans. Dissertations were not removed using publication type as they could be used by the technical team to identify relevant articles, even though they would not be included in their own right.

The searches in Cochrane Library had to be adapted. The technology e-voke had to be searched as a phrase otherwise Wiley found every instance of the word evoke. The Ovid search incorporated terms such as “pre-quit” and “multi-tobacco” but in Cochrane these had to be searched differently with the NEXT command in order that wildcards for truncation could also be applied. The search limits to remove conference papers and registry entries from CENTRAL results have been agreed for use across programmes.

The DARE search is just for legacy records and so it was not possible to incorporate the newer MeSH for e-cigs. The search for vaping or e-cigs only had 17 results and so it was not worth translating all of the terms for harm reduction into the interface, especially as DARE had not been used for the January 2019 overarching search for several questions on e-cigs.

The website searching was done at an early stage and so could be incorporated into the main EndNote file, rather than being posted in a Word file as in earlier reviews.

27 Search for RQ6.1b ReRerun 1

27.1 Table of results

Database name	Date searched	Database Platform	Database segment or version
Cochrane Central Register of Controlled Trials (CENTRAL)	13/11/2019	Wiley	Cochrane Central Register of Controlled Trials Issue 11 of 12, November 2019
Cochrane Database of Systematic Reviews (CDSR)	13/11/2019	Wiley	Cochrane Database of Systematic Reviews Issue 11 of 12, November 2019
Embase	13/11/2019	Ovid	Embase 1974 to 2019 November 12
MEDLINE	13/11/2019	Ovid	Ovid MEDLINE(R) 1946 to November 12, 2019
MEDLINE-in-Process	13/11/2019	Ovid	Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations 1946 to November 12, 2019
MEDLINE-in-Process Epub Ahead-of-Print	13/11/2019	Ovid	Ovid MEDLINE(R) Epub Ahead of Print November 12, 2019, Ovid MEDLINE(R) Daily Update November 12, 2019
PsycINFO	13/11/2019	Ovid	PsycINFO 1806 to November Week 1 2019

Search source	No. of records retrieved	Results	Total results	De-duplicated
Cochrane Central Register of Controlled Trials (CENTRAL)	18	159	172	
Cochrane Database of Systematic Reviews (CDSR)	0			
Embase	30			
MEDLINE	20			
MEDLINE-in-Process	18			
MEDLINE-in-Process Epub Ahead-of-Print	31			

PsycINFO	42		
Websites	13	13	

27.2 Database strategy outline

((Ecigs OR Vaping) AND (Smoking Harm Reduction))
OR Multi-Tobacco Use)
AND
(RCTs OR Systematic Reviews)
AND Limits

The main searches were run on 24 July 2019.
These re-run searches were run on 13 November 2019.

27.3 Re-run narrative

No new QA – see main search July 2019
No new peer review - see main search Jan 2019

The database searches were modified as appropriate, with notes given below.

An update search was not done on DARE as this is a legacy database and it is not being updated.

Website searches were done on the same resources as the main search. The website results were added to the same EndNote file as the rest of the Re-run results rather than putting them in a separate Word file as in the main search.

No further work was done on Web of Science or with citation searching.

172 results were added to the file for the re-run search. 26 duplicates were removed. The remaining 146 were compared to the 1233 unique results from the main search. A further 52 publications that had been seen previously were removed. There were 94 results to be screened from this re-run search.

27.4 Database strategies

27.4.1 Database name: Cochrane Central Register of Controlled Trials (CENTRAL)

- #1 MeSH descriptor: [Electronic Nicotine Delivery Systems] this term only
84
- #2 MeSH descriptor: [Vaping] this term only 17
- #3 (ecig* or e-cig* or "e-voke" or juul* or vape* or vaping* or ENNDS):ti,ab
460
- #4 (electronic* near/3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)):ti,ab 316
- #5 ((tobacco* or nicotin* or cigar* or cigs) near/3 (vapor* or vapour* or device* or inhalator* or inhaler*)):ti,ab 209
- #6 (nicotin* and (ENDS or ANDS)):ti,ab 52
- #7 (nicotin* near/3 (delivery* NEXT system*)):ti,ab 63
- #8 {or #1-#7} 683
- #9 MeSH descriptor: [Smoking Reduction] this term only 10
- #10 MeSH descriptor: [Harm Reduction] this term only 115
- #11 MeSH descriptor: [Risk Reduction Behavior] this term only 1652
- #12 MeSH descriptor: [Smokers] this term only 131
- #13 prequit*:ti,ab or (pre NEXT quit*):ti,ab or (cut* NEXT down*):ti,ab or (controlled NEXT smoking*):ti,ab 435
- #14 stopstart*:ti,ab or (stop NEXT start):ti,ab or (cold NEXT turkey*):ti,ab
21
- #15 ((harm* or risk*) near/1 (cut or cuts* or cutting* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz* or less* or lower* or small*)):ti,ab 18735
- #16 ((temporar* or short* or impermanent* or brief* or interim* or cautious* or planned* or schedul* or intention* or intend* or motivat* or abrupt* or sudden* or rapid* or immediate* or quick* or impulsive* or spontaneous* or unplann* or unstructur* or unprompt* or unmotivat* or unwilling* or unable* or unintention* or unintend* or unsustain* or unsuccess* or prolong* or maintain* or maintenance* or sustain* or consumption* or consum* or attempt* or fail* or incomplet* or partial*) near/3 (cut or cuts* or cutting* or abstain* or abstinen* or quit or quits* or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or (giv* NEXT up) or discontinu* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz*)):ti,ab 33496
- #17 ((tobacco* or cigar* or cigs or smoking* or smoker*) near/3 (cut or cuts* or cutting* or abstain* or abstinen* or quit or quits* or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or (giv* NEXT up) or discontinu* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz*)):ti,ab 11285
- #18 (gradual* or withdraw* or substitut* or fading* or taper* or swap* or swop* or switch* or replace* or replacing*):ti,ab 86010
- #19 ((intention* or intend* or motivat* or impulsive* or spontaneous* or unplann* or unstructur* or unprompt* or unmotivat* or unwilling* or unable* or unintention* or unintend* or unsustain* or unsuccess* or attempt* or fail* or incomplet* or partial*) near/3 smoker*):ti,ab 577
- #20 {or #9-#19} 138899

#21 #8 and #20 438
#22 ((tobacco* or nicotin* or cigar* or cigs) near/3 (dual* or multiple* or multi)):ti,ab 88
#23 polytobacco*:ti,ab or (poly NEXT tobacco*):ti,ab or multitobacco*:ti,ab or (multi NEXT tobacco*):ti,ab 5
#24 {or #21-#23} 513
#25 conference:pt 165107
#26 #24 not #25 456
#27 (clinicaltrials or trialsearch):so 275330
#28 #26 not #27 288
#29 #26 not #27 in Trials 279
#30 #26 not #27 with Cochrane Library publication date Between Jul 2019 and Nov 2019, in Trials 18

Used the date added to Cochrane Library rather than date of original publication. The main search used the segment from Issue 7 of 12 July 2019, so started this search from July as it can only be narrowed by month, rather than day.

27.4.2 Database name: Cochrane Database of Systematic Reviews (CDSR)

- #1 MeSH descriptor: [Electronic Nicotine Delivery Systems] this term only
84
- #2 MeSH descriptor: [Vaping] this term only 17
- #3 (ecig* or e-cig* or "e-voke" or juul* or vape* or vaping* or ENNDS):ti,ab
460
- #4 (electronic* near/3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)):ti,ab 316
- #5 ((tobacco* or nicotin* or cigar* or cigs) near/3 (vapor* or vapour* or device* or inhalator* or inhaler*)):ti,ab 209
- #6 (nicotin* and (ENDS or ANDS)):ti,ab 52
- #7 (nicotin* near/3 (delivery* NEXT system*)):ti,ab 63
- #8 {or #1-#7} 683
- #9 MeSH descriptor: [Smoking Reduction] this term only 10
- #10 MeSH descriptor: [Harm Reduction] this term only 115
- #11 MeSH descriptor: [Risk Reduction Behavior] this term only 1652
- #12 MeSH descriptor: [Smokers] this term only 131
- #13 prequit*:ti,ab or (pre NEXT quit*):ti,ab or (cut* NEXT down*):ti,ab or (controlled NEXT smoking*):ti,ab 435
- #14 stopstart*:ti,ab or (stop NEXT start):ti,ab or (cold NEXT turkey*):ti,ab
21
- #15 ((harm* or risk*) near/1 (cut or cuts* or cutting* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz* or less* or lower* or small*)):ti,ab 18735
- #16 ((temporar* or short* or impermanent* or brief* or interim* or cautious* or planned* or schedul* or intention* or intend* or motivat* or abrupt* or sudden* or rapid* or immediate* or quick* or impulsive* or spontaneous* or unplann* or unstructur* or unprompt* or unmotivat* or unwilling* or unable* or unintention* or unintent* or unsustain* or unsuccess* or prolong* or maintain* or maintenance* or sustain* or consumption* or consum* or attempt* or fail* or incomplet* or partial*) near/3 (cut or cuts* or cutting* or abstain* or abstinen* or quit or quits* or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or (giv* NEXT up) or discontinu* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz*)):ti,ab 33496
- #17 ((tobacco* or cigar* or cigs or smoking* or smoker*) near/3 (cut or cuts* or cutting* or abstain* or abstinen* or quit or quits* or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or (giv* NEXT up) or discontinu* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz*)):ti,ab 11285
- #18 (gradual* or withdraw* or substitut* or fading* or taper* or swap* or swop* or switch* or replace* or replacing*):ti,ab 86010

- #19 ((intention* or intend* or motivat* or impulsive* or spontaneous* or unplann* or unstructur* or unprompt* or unmotivat* or unwilling* or unable* or unintention* or unintend* or unsustain* or unsuccessful* or attempt* or fail* or incomplet* or partial*) near/3 smoker*):ti,ab 577
- #20 {or #9-#19} 138899
- #21 #8 and #20 438
- #22 ((tobacco* or nicotin* or cigar* or cigs) near/3 (dual* or multiple* or multi)):ti,ab 88
- #23 polytobacco*:ti,ab or (poly NEXT tobacco*):ti,ab or multitobacco*:ti,ab or (multi NEXT tobacco*):ti,ab 5
- #24 {or #21-#23} 513
- #25 conference:pt 165107
- #26 #24 not #25 456
- #27 (clinicaltrials or trialsearch):so 275330
- #28 #26 not #27 288
- #29 #26 not #27 in Cochrane Reviews, Cochrane Protocols 8
- #30 #26 not #27 with Cochrane Library publication date Between Jan 2019 and Nov 2019, in Cochrane Reviews, Cochrane Protocols 0

[Results: Cochrane Reviews = 0; Cochrane Protocols = 0]

There were 8 in the main search in July 2019 and 8 in the Rerun so there was nothing to add for these results. Also, confirmed with date published in Cochrane Library for the whole year from January 2019 that there were 0 results.

27.4.3 Database name: EmbaseDatabase(s): **Embase** 1974 to 2019 November 12

Search Strategy:

#	Searches	Results
1	electronic cigarette/	5418
2	Vaping/	1184
3	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).ti,ab.	4732
4	(electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).ti,ab.	3387
5	((tobacco* or nicotin* or cigar* or cigs) adj3 (vapor* or vapour* or device* or inhalator* or inhaler*)).ti,ab.	1146
6	(nicotin* and (ENDS or ANDS)).ti,ab.	470
7	(nicotin* adj3 deliver* system*).ti,ab.	566
8	or/1-7	7301
9	smoking reduction/	164
10	harm reduction/	5816
11	risk reduction/	99079
12	(pre-quit* or prequit* or "pre quit*" or cut* down* or controlled smoking*).ti,ab.	3542
13	("Stop-start*" or stopstart* or "stop start*" or "cold turkey*").ti,ab.	310
14	((harm* or risk*) adj1 (cut or cuts* or cutting* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz* or less* or lower* or small*)).ti,ab.	163857
15	((temporar* or short* or impermanent* or brief* or interim* or cautious* or planned* or schedul* or intention* or intend* or motivat* or abrupt* or sudden* or rapid* or immediate* or quick* or impulsive* or spontaneous* or unplann* or unstructur* or unprompt* or unmotivat* or unwilling* or unable* or unintention* or unintend* or unsustain* or unsuccess* or prolong* or maintain* or maintenance* or sustain* or consumption* or consum* or attempt* or fail* or incomplet* or partial*) adj3 (cut or cuts* or cutting* or abstain* or abstinen* or quit or quits* or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or	315570

	giv* up or discontinu* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz*)),ti,ab.	
16	((tobacco* or cigar* or cigs or smoking* or smoker*) adj3 (cut or cuts* or cutting* or abstain* or abstinem* or quit or quits* or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or giv* up or discontinu* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz*)),ti,ab.	62209
17	(gradual* or withdraw* or substitut* or fading* or taper* or swap* or swop* or switch* or replace* or replacing*).ti,ab.	1440015
18	((intention* or intend* or motivat* or impulsive* or spontaneous* or unplann* or unstructur* or unprompt* or unmotivat* or unwilling* or unable* or unintention* or unintend* or unsustain* or unsuccess* or attempt* or fail* or incomplet* or partial*) adj3 smoker*).ti,ab.	2202
19	or/9-18	1986370
20	8 and 19	3183
21	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using)).ti,ab.	524
22	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).ti,ab.	112
23	or/20-22	3614
24	nonhuman/ not (human/ and nonhuman/)	4502005
25	23 not 24	3503
26	(letter or editorial).pt.	1720733
27	25 not 26	3328
28	(conference abstract or conference paper or conference proceeding or "conference review").pt.	4391865
29	27 not 28	2767
30	limit 29 to medline	809

31	29 not 30	1958
32	limit 31 to english language	1884
33	random:.tw.	1476472
34	placebo:.mp.	444142
35	double-blind:.tw.	204412
36	or/33-35	1727237
37	32 and 36	269
38	(MEDLINE or pubmed).tw.	238290
39	exp systematic review/ or systematic review.tw.	271448
40	meta-analysis/	175793
41	intervention*.ti.	188426
42	or/38-41	610928
43	32 and 42	136
44	37 or 43	365
45	limit 44 to dc=20190724-20191113	30

27.4.4 Database name: MEDLINEDatabase(s): **Ovid MEDLINE(R)** 1946 to November 12, 2019

Search Strategy:

#	Searches	Results
1	Electronic Nicotine Delivery Systems/	2764
2	Vaping/	510
3	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).ti,ab.	2600
4	(electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).ti,ab.	1963
5	((tobacco* or nicotin* or cigar* or cigs) adj3 (vapor* or vapour* or device* or inhalator* or inhaler*)).ti,ab.	696
6	(nicotin* and (ENDS or ANDS)).ti,ab.	262
7	(nicotin* adj3 deliver* system*).ti,ab.	309
8	or/1-7	4061
9	Smoking reduction/	39
10	Harm Reduction/	2846
11	Risk Reduction Behavior/	11935
12	Smokers/	1250
13	(pre-quit* or prequit* or "pre quit*" or cut* down* or controlled smoking*).ti,ab.	2094
14	("Stop-start*" or stopstart* or "stop start*" or "cold turkey*").ti,ab.	193
15	((harm* or risk*) adj1 (cut or cuts* or cutting* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz* or less* or lower* or small*)).ti,ab.	95991
16	((temporar* or short* or impermanent* or brief* or interim* or cautious* or planned* or schedul* or intention* or intend* or motivat* or abrupt* or sudden* or rapid* or immediate* or quick* or impulsive* or spontaneous* or unplann* or unstructur* or unprompt* or unmotivat* or unwilling* or unable* or unintention* or unintend* or unsustain* or unsuccess* or prolong* or maintain* or maintenance* or sustain* or consumption* or consum* or attempt* or fail* or incomplet* or partial*) adj3 (cut or cuts* or cutting* or abstain* or abstinen* or quit or quits* or quitting* or stop or stops* or	208737

	stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or giv* up or discontinu* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz*)),ti,ab.	
17	((tobacco* or cigar* or cigs or smoking* or smoker*) adj3 (cut or cuts* or cutting* or abstain* or abstinen* or quit or quits* or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or giv* up or discontinu* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz*)),ti,ab.	42134
18	(gradual* or withdraw* or substitut* or fading* or taper* or swap* or swop* or switch* or replace* or replacing*).ti,ab.	957867
19	((intention* or intend* or motivat* or impulsive* or spontaneous* or unplann* or unstructur* or unprompt* or unmotivat* or unwilling* or unable* or unintention* or unintend* or unsustain* or unsuccess* or attempt* or fail* or incomplet* or partial*) adj3 smoker*).ti,ab.	1603
20	or/9-19	1274025
21	8 and 20	1769
22	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*)),ti,ab.	344
23	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).ti,ab.	86
24	or/21-23	2066
25	Animals/ not (Animals/ and Humans/)	4609130
26	24 not 25	2021
27	limit 26 to (letter or historical article or comment or editorial or news or case reports)	170
28	26 not 27	1851
29	limit 28 to english language	1774
30	randomized controlled trial.pt.	494037
31	randomi?ed.mp.	766344

32	placebo.mp.	189864
33	or/30-32	817037
34	29 and 33	205
35	(MEDLINE or pubmed).tw.	149839
36	systematic review.tw.	107826
37	systematic review.pt.	116270
38	meta-analysis.pt.	107651
39	intervention*.ti.	116839
40	or/35-39	352166
41	29 and 40	98
42	34 or 41	272
43	limit 42 to ed=20190724-20191113	20

27.4.5 Database name: MEDLINE-in-Process

Database(s): **Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations** 1946 to November 12, 2019
 Search Strategy:

#	Searches	Results
1	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).ti,ab.	1085
2	(electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).ti,ab.	711
3	((tobacco* or nicotin* or cigar* or cigs) adj3 (vapor* or vapour* or device* or inhalator* or inhaler*)).ti,ab.	163
4	(nicotin* and (ENDS or ANDS)).ti,ab.	110
5	(nicotin* adj3 deliver* system*).ti,ab.	134
6	or/1-5	1384
7	(pre-quit* or prequit* or "pre quit*" or cut* down* or controlled smoking*).ti,ab.	316
8	("Stop-start*" or stopstart* or "stop start*" or "cold turkey*").ti,ab.	27
9	((harm* or risk*) adj1 (cut or cuts* or cutting* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz* or less* or lower* or small*)).ti,ab.	13262
10	((temporar* or short* or impermanent* or brief* or interim* or cautious* or planned* or schedul* or intention* or intend* or motivat* or abrupt* or sudden* or rapid* or immediate* or quick* or impulsive* or spontaneous* or unplann* or unstructur* or unprompt* or unmotivat* or unwilling* or unable* or unintention* or unintend* or unsustain* or unsuccess* or prolong* or maintain* or maintenance* or sustain* or consumption* or consum* or attempt* or fail* or incomplet* or partial*) adj3 (cut or cuts* or cutting* or abstain* or abstinen* or quit or quits* or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or giv* up or discontinu* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz*)).ti,ab.	26754
11	((tobacco* or cigar* or cigs or smoking* or smoker*) adj3 (cut or cuts* or cutting* or abstain* or abstinen* or quit or quits* or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or giv* up or discontinu* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz*)).ti,ab.	4733

12	(gradual* or withdraw* or substitut* or fading* or taper* or swap* or swop* or switch* or replace* or replacing*).ti,ab.	164478
13	((intention* or intend* or motivat* or impulsive* or spontaneous* or unplann* or unstructur* or unprompt* or unmotivat* or unwilling* or unable* or unintention* or unintend* or unsustain* or unsuccess* or attempt* or fail* or incomplet* or partial*) adj3 smoker*).ti,ab.	173
14	or/7-13	204169
15	6 and 14	552
16	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*)).ti,ab.	107
17	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).ti,ab.	15
18	or/15-17	628
19	limit 18 to (letter or historical article or comment or editorial or news or case reports)	12
20	18 not 19	616
21	limit 20 to english language	606
22	randomized controlled trial.pt.	276
23	randomi?ed.mp.	68356
24	placebo.mp.	16770
25	or/22-24	74365
26	21 and 25	52
27	(MEDLINE or pubmed).tw.	31850
28	systematic review.tw.	26298
29	systematic review.pt.	490
30	meta-analysis.pt.	39
31	intervention*.ti.	19317

32	or/27-31	61451
33	21 and 32	34
34	26 or 33	79
35	limit 34 to dt=20190724-20191113	18

27.4.6 Database name: MEDLINE Epub Ahead of Print and Daily Update

Database(s): **Ovid MEDLINE(R) Epub Ahead of Print** November 12, 2019, **Ovid MEDLINE(R) Daily Update** November 12, 2019

Search Strategy:

#	Searches	Results
1	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).ti,ab.	316
2	(electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).ti,ab.	187
3	((tobacco* or nicotin* or cigar* or cigs) adj3 (vapor* or vapour* or device* or inhalator* or inhaler*)).ti,ab.	35
4	(nicotin* and (ENDS or ANDS)).ti,ab.	30
5	(nicotin* adj3 deliver* system*).ti,ab.	35
6	or/1-5	373
7	(pre-quit* or prequit* or "pre quit*" or cut* down* or controlled smoking*).ti,ab.	55
8	("Stop-start*" or stopstart* or "stop start*" or "cold turkey*").ti,ab.	2
9	((harm* or risk*) adj1 (cut or cuts* or cutting* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz* or less* or lower* or small*)).ti,ab.	3265
10	((temporar* or short* or impermanent* or brief* or interim* or cautious* or planned* or schedul* or intention* or intend* or motivat* or abrupt* or sudden* or rapid* or immediate* or quick* or impulsive* or spontaneous* or unplann* or unstructur* or unprompt* or unmotivat* or unwilling* or unable* or unintention* or unintend* or unsustain* or unsuccess* or prolong* or maintain* or maintenance* or sustain* or consumption* or consum* or attempt* or fail* or incomplet* or partial*) adj3 (cut or cuts* or cutting* or abstain* or abstinen* or quit or quits* or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or giv* up or discontinu* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz*)).ti,ab.	3994
11	((tobacco* or cigar* or cigs or smoking* or smoker*) adj3 (cut or cuts* or cutting* or abstain* or abstinen* or quit or quits* or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or giv* up or discontinu* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz*)).ti,ab.	1191

12	(gradual* or withdraw* or substitut* or fading* or taper* or swap* or swop* or switch* or replace* or replacing*).ti,ab.	17163
13	((intention* or intend* or motivat* or impulsive* or spontaneous* or unplann* or unstructur* or unprompt* or unmotivat* or unwilling* or unable* or unintention* or unintend* or unsustain* or unsuccess* or attempt* or fail* or incomplet* or partial*) adj3 smoker*).ti,ab.	55
14	or/7-13	24508
15	6 and 14	175
16	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*)).ti,ab.	26
17	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).ti,ab.	12
18	or/15-17	194
19	limit 18 to (letter or historical article or comment or editorial or news or case reports)	0
20	18 not 19	194
21	limit 20 to english language	193
22	randomized controlled trial.pt.	639
23	randomi?ed.mp.	13851
24	placebo.mp.	3193
25	or/22-24	14891
26	21 and 25	24
27	(MEDLINE or pubmed).tw.	6954
28	systematic review.tw.	6737
29	systematic review.pt.	583
30	meta-analysis.pt.	312
31	intervention*.ti.	4134

32	or/27-31	13851
33	21 and 32	13
34	26 or 33	31

The MIP had to be split, unlike in the main search, as it was not appropriate to search the Epubs or Daily segments with date limits.

27.4.7 Database name: PsycINFODatabase(s): **PsycINFO** 1806 to November Week 1 2019

Search Strategy:

#	Searches	Results
1	Electronic Cigarettes/	1091
2	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).ti,ab.	1481
3	(electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).ti,ab.	973
4	((tobacco* or nicotin* or cigar* or cigs) adj3 (vapor* or vapour* or device* or inhalator* or inhaler*)).ti,ab.	266
5	(nicotin* and (ENDS or ANDS)).ti,ab.	133
6	(nicotin* adj3 deliver* system*).ti,ab.	180
7	or/1-6	1882
8	harm reduction/	3102
9	(pre-quit* or prequit* or "pre quit*" or cut* down* or controlled smoking*).ti,ab.	801
10	("Stop-start*" or stopstart* or "stop start*" or "cold turkey*").ti,ab.	97
11	((harm* or risk*) adj1 (cut or cuts* or cutting* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz* or less* or lower* or small*)).ti,ab.	22609
12	((temporar* or short* or impermanent* or brief* or interim* or cautious* or planned* or schedul* or intention* or intend* or motivat* or abrupt* or sudden* or rapid* or immediate* or quick* or impulsive* or spontaneous* or unplann* or unstructur* or unprompt* or unmotivat* or unwilling* or unable* or unintention* or unintend* or unsustain* or unsuccess* or prolong* or maintain* or maintenance* or sustain* or consumption* or consum* or attempt* or fail* or incomplet* or partial*) adj3 (cut or cuts* or cutting* or abstain* or abstinen* or quit or quits* or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or giv* up or discontinu* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz*)).ti,ab.	47520
13	((tobacco* or cigar* or cigs or smoking* or smoker*) adj3 (cut or cuts* or cutting* or abstain* or abstinen* or quit or quits* or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or giv* up or	19332

	discontinu* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz*)).ti,ab.	
14	(gradual* or withdraw* or substitut* or fading* or taper* or swap* or swop* or switch* or replace* or replacing*).ti,ab.	141459
15	((intention* or intend* or motivat* or impulsive* or spontaneous* or unplann* or unstructur* or unprompt* or unmotivat* or unwilling* or unable* or unintention* or unintend* or unsustain* or unsuccess* or attempt* or fail* or incomplet* or partial*) adj3 smoker*).ti,ab.	1084
16	or/8-15	217026
17	7 and 16	1051
18	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*)).ti,ab.	260
19	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).ti,ab.	76
20	or/17-19	1277
21	limit 20 to ("column/opinion" or editorial or letter)	40
22	20 not 21	1237
23	limit 22 to english language	1148
24	exp Randomized Controlled Trials/	235
25	Placebo/	5406
26	exp treatment/	1020157
27	(control* or random*).tw.	781079
28	(clinical* adj3 (trial* or stud*)).tw.	64584
29	placebo*.tw.	39714
30	((singl* or doubl* or trebl* or tripl*) adj (blind* or mask*)).tw.	25506
31	(crossover* or (cross adj over*)).tw.	10051

32	or/24-31	1640552
33	23 and 32	537
34	Meta Analysis/	4536
35	Systematic Review/	178
36	effectiveness*.tw.	155515
37	(search* or handsearch*).tw.	96273
38	(meta-analysis* or metaanaly* or metanaly* or (meta adj3 analy*)).tw.	35907
39	(review* or overview*).ti.	159834
40	(systematic* adj5 (review* or overview*)).tw.	32162
41	((quantitative* or qualitative*) adj5 (review* or overview*)).tw.	5244
42	((studies or trial*) adj2 (review* or overview*)).tw.	18514
43	(integrat* adj3 (research or review* or literature)).tw.	11953
44	(pool* adj2 (analy* or data)).tw.	3356
45	or/34-44	426286
46	23 and 45	125
47	33 or 46	589
48	limit 47 to up=20190712-20191113	42

PsycINFO is updated weekly but the update codes give the specific day. The main search used segment "July week 3 2019" so I chose a start date slightly earlier to capture this start date.

27.5 Web searching

27.5.1 Search engines

Search engine			
Name	Health Services/Technology Assessment Texts (HSTAT)		
URL	https://www.ncbi.nlm.nih.gov/books/NBK16710		
Date searched	12/11/2019		
Search terms	#1	Search ((ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS))	871
	#2	Search ((Electronic tobacco* or Electronic nicotin* or Electronic cigar* or Electronic cigs or Electronic vapor* or Electronic vapour*))	1599
	#3	Search ((Dual tobacco* or dual nicotin* or dual cigar* or dual cigs))	369
	#4	Search Nicotine deliver*	410
	#5	Search ((polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*))	1784
	#6	Search Electronic Nicotine Delivery Systems[MeSH Terms]	90
	#7	Search Vaping[MeSH Terms]	90
	#8	Search ((#1 or #2 or #3 or #4 or #5 or #6 or #7))	3734
	#9	Search hstatcollect[filter]	3806 8
	#10	Search ((#8 and #9))	406
How the results were selected	Only selected documents if the title or abstract were directly relevant to the questions and had not been selected in the main search.		
Results	None additional		

Search engine	
Name	NICE Evidence Search
URL	https://www.evidence.nhs.uk
Date searched	12/11/2019

Search terms	<p>Searched for electronic cigarettes, e-cigs, ecigs, vape, vaping, vapouriser, electronic nicotine.</p> <p>Searched for harm reduction in all topics.</p>
How the results were selected	<p>Only selected documents if the title or abstract were directly relevant to the questions. Did not include anything already in EndNote. Did not include Behind the Headlines stories as they are just commentaries on articles already in EndNote.</p> <p>Sorted by date and then reviewed all of the results up to 250 then applied filters for 'guidance and policy' and 'practice based information' and reviewed 250 again, then removed filters and applied Area of Interest-Public Health and reviewed a further 250.</p>
Results	<p>European Respiratory Society (2019) ERS Position Paper on Tobacco Harm Reduction</p> <p>The ERS Tobacco Control Committee (TCC) published the position paper on tobacco harm reduction in May 2019.</p> <p>The ERS TCC believe that current strategies which support the use of alternative nicotine delivery products for smoking cessation are not effective as they are based upon incorrect assumptions and undocumented claims about the safety and effectiveness of alternative nicotine delivery products for smoking cessation.</p> <p>Therefore, the statement brings together scientifically-backed arguments for why a tobacco harm reduction strategy should not be used as a population-based strategy in tobacco control, including that harm reduction arguments are:</p> <ul style="list-style-type: none"> Based on incorrect claims that smokers cannot or will not quit smoking Reliant upon undocumented assumptions that alternative nicotine delivery products are highly effective as a smoking cessation aid Built on incorrect assumptions that smokers will replace conventional cigarettes with alternative nicotine delivery products Ignorant to the lack of evidence to show that alternative nicotine delivery products are safe for human health <p>https://www.ersnet.org/advocacy/eu-affairs/ers-position-paper-on-tobacco-harm-reduction-2019</p> <p>Cancer Research UK (2019) E-cigarettes and primary care: A cross-sectional survey of nurses and GPs across the UK.</p>

	<p>The study, led by Anne Ferrey at University of Oxford, used a cross-sectional survey of 2002 nurses and GPs across the UK to examine advice given on e-cigarettes, as well as clinician beliefs, attitudes and knowledge around e-cigarettes. 3 in 10 clinicians say that the topic of ecigarettes is raised in the majority of conversations about smoking. Over 1 in 3 clinicians are unsure if ecigarettes are safe enough to recommend as a quit tool to patients who smoke. 1 in 3 are unsure whether e-cigarettes are addictive. When asked what advice they would give patients on e-cigarettes, 3 in 5 clinicians said “we do not know enough about them so I don’t endorse them”.</p> <p>https://www.cancerresearchuk.org/sites/default/files/cancer-stats/full_report/full_report_0.pdf</p> <p>Department of Health and Social Care (2019) The Government Response to the Science and Technology Committee’s Seventh Report of the Session 2017-19 on E-cigarettes</p> <p>This Command Paper sets out the UK Government’s response to the Science and Technology Committee’s Seventh Report of the Session 2017-19 on E-cigarettes. The Government welcomes the Committee’s Report and the important contribution it makes to the wider debate on e-cigarettes. The Government believes in proportionate regulation of e-cigarettes, recognising that they are not risk-free. The Government has consistently highlighted that quitting smoking and nicotine use completely is the best way to improve health. E-cigarettes are not risk free. However, the evidence is increasingly clear that e-cigarettes are significantly less harmful to health than smoking tobacco, and can help smokers to quit, particularly when combined with stop smoking services.</p> <p>https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/762847/government-response-to-science-and-technology-committee_s-report-on-e-cig.pdf</p> <p>Office for National Statistics (2019) Adult smoking habits in the UK: 2018</p> <p>In Great Britain, 6.3% of people in 2018 said they currently used an e-cigarette, which equates to approximately 3.2 million adults in the population</p> <p>https://www.ons.gov.uk/peoplepopulationandcommunity/healthandsocialcare/healthandlifeexpectancies/bulletins/adultsmokinghabitsingreatbritain/2018/pdf</p>
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27.5.2 Website browsing

Website	
Name	Action on Smoking and Health (ASH)

URL	http://ash.org.uk/home
Date searched	13/11/2019
Search terms (including any specific sections browsed)	Browsed fact sheets, briefings, reports and submissions. Browsed https://ash.org.uk/category/information-and-resources/product-regulation/harm-reduction/
Results	<p>ASH (2019) Use of e-cigarettes among young people in Great Britain</p> <p>More than three quarters of 11-18 year olds have never tried (76.9%) or are unaware of e-cigarettes (6.6%). • Young people vape mainly just to give it a try (52.4%) not because they think it looks cool (1.0%). • In 2019 15.4% of 11-18 year olds had tried vaping, compared to 16.0% in 2018. This is an increase from 2015 when 12.7% of 11-18 year olds had tried e-cigarettes. • There has also been an increase in current use since 2015 from 2.4% to 4.9%, with 1.6% of 11-18 year olds using e-cigarettes more than once a week in 2019. • Vaping is much less common among young people who have never smoked</p> <p>https://ash.org.uk/wp-content/uploads/2019/06/ASH-Factsheet-Youth-E-cigarette-Use-2019.pdf</p> <p>ASH (2019) Use of e-cigarettes among adults in Great Britain, 2019</p> <p>This fact sheet provides a detailed analysis of adult attitudes and behaviour with respect to e-cigarettes and how they have changed over time. The data are taken from an annual survey, Smokefree GB, carried out for ASH by YouGov. The survey first started asking about e-cigarette use in 2010 and this update includes the results of the survey carried out in Spring 2019.</p> <p>https://ash.org.uk/information-and-resources/fact-sheets/statistical/use-of-e-cigarettes-among-adults-in-great-britain-2019/</p>

Website	
Name	Local Government Association
URL	https://www.local.gov.uk
Date searched	13/11/2019
Search terms (including any specific sections browsed)	Searched publications for electronic cigarettes, e-cigs, ecigs, vape, vaping, vapouriser. No results so also searched for smoking, cigarettes, tobacco and nicotine. Browsed the social care, health and integration page. Browsed the public health page https://www.local.gov.uk/topics/social-care-health-and-integration/public-health

	Did not include the July 2019 Tobacco Control plan as relevant to this question. https://www.local.gov.uk/sites/default/files/documents/22.44_Must_Know_Guide_On_Tobacco_Control_05.pdf
Results	None relevant

Website	
Name	National Centre for Smoking Cessation and Training
URL	http://www.ncsct.co.uk
Date searched	13/11/2019
Search terms (including any specific sections browsed)	Browsed research and research resources, training resources, briefings and commissioning resources. Searched for electronic cigarettes, e-cigs, ecigs, vape, vaping, vapouriser.
Results	None additional

Website	
Name	NHS Digital
URL	https://digital.nhs.uk
Date searched	13/11/2019
Search terms (including any specific sections browsed)	Searched for electronic cigarettes, e-cigs, ecigs, vape, vaping, vapouriser. Searched for tobacco, smoking and cigarettes. Only included annual publications and only included the most recent edition.
Results	NHS Digital (2019) Statistics on smoking, England, 2019. Finds that in 2017/18 there were 489,300 hospital admissions attributable to smoking, an increase of 1% on the previous year. Notes that 14.4% of adults in 2018 were current smokers, compared to 19.8% in 2011 but a national target of 12%. Highlights that 6.3% of adults were users of e-cigarettes, with the 35-49 age group the most likely to use them. https://digital.nhs.uk/data-and-information/publications/statistical/statistics-on-smoking/statistics-on-smoking-england-2019 NHS Digital (2019) Statistics on NHS Stop Smoking Services in England April 2018 to March 2019. Finds that 121,742 (52%) of the 233,778 people setting a quit date were successful, with 70% of these verified by carbon monoxide

	<p>testing. Highlights that 6169 (45%) of 13,589 pregnant women setting a quit date were successful and 61% of these were verified by CO testing.</p> <p>https://digital.nhs.uk/data-and-information/publications/statistical/statistics-on-nhs-stop-smoking-services-in-england/april-2018-to-march-2019</p> <p>NHS Digital (2019) Smoking, Drinking and Drug Use among Young People in England 2018</p> <p>This report contains results from a biennial survey of secondary school pupils in England in years 7 to 11 (mostly aged 11 to 15), focusing on smoking, drinking and drug use. 16% of pupils had ever smoked cigarettes, down from 19% in 2016, and 49% in 1996.</p> <p>https://digital.nhs.uk/data-and-information/publications/statistical/smoking-drinking-and-drug-use-among-young-people-in-england/2018</p>
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Website	
Name	Northern Ireland Assembly
URL	http://www.niassembly.gov.uk/
Date searched	13/11/2019
Search terms (including any specific sections browsed)	Searched publications for electronic cigarettes, e-cigs, ecigs, vape, vaping, vapouriser.
Results	None relevant

Website	
Name	Public Health England
URL	https://www.gov.uk/government/organisations/public-health-england
Date searched	13/11/2019
Search terms (including any specific sections browsed)	<p>Searched publications and announcements for electronic cigarettes, e-cigs, ecigs, vape, vaping, vapouriser.</p> <p>Browsed the vaping section</p> <p>https://www.gov.uk/government/collections/e-cigarettes-and-vaping-policy-regulation-and-guidance</p> <p>Only included reports relevant to the particular questions we are doing. Did not include exporting and regulations on consumer products e.g. here.</p>

Results	<p>Public Health England (2019) Vaping in England: an evidence update February 2019 A report commissioned by Public Health England</p> <p>This report was commissioned by Public Health England to summarise evidence to underpin policy and regulation of electronic cigarettes in England. It focuses mainly on the latest evidence on prevalence and characteristics of electronic cigarette use in young people and adults in England. The context for the report is that smoking remains the leading preventable cause of illness and premature death and is one of the largest causes of health inequalities. So, alternative nicotine delivery systems, such as electronic cigarettes or e-cigarettes, could play a major role in improving public health.</p> <p>https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/821179/Vaping_in_England_an_evidence_update_February_2019.pdf</p>
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Website	
Name	Royal College of Paediatrics and Child Health
URL	https://www.rcpch.ac.uk/
Date searched	13/11/2019
Search terms (including any specific sections browsed)	<p>Searched for electronic cigarettes, e-cigs, ecigs, vape, vaping, vapouriser. No results so also searched for smoking, cigarettes, tobacco and nicotine.</p> <p>Also browsed resources and key topics.</p>
Results	None relevant

Website	
Name	Royal College of Physicians
URL	https://www.rcplondon.ac.uk
Date searched	13/11/2019
Search terms (including any specific sections browsed)	<p>Searched for electronic cigarettes, e-cigs, ecigs, vape, vaping, vapouriser.</p> <p>Also checked smoking, cigarettes, tobacco and nicotine and reviewed</p> <p>https://www.rcplondon.ac.uk/projects/rcp-policy-public-health</p>
Results	None additional

Website	
Name	Scottish Government
URL	https://www.gov.scot
Date searched	13/11/2019
Search terms (including any specific sections browsed)	Browsed the health and social care section. Browsed the smoking page https://www.gov.scot/policies/smoking/ and https://www.gov.scot/policies/smoking/electronic-cigarettes/ Searched within health publications for smoking, tobacco, nicotine. Searched in publications generally for electronic cigarettes, e-cigs, ecigs, vape, vaping, vapourisers.
Results	None extra

Website	
Name	Smokefree NHS
URL	https://www.nhs.uk/smokefree
Date searched	13/11/2019
Search terms (including any specific sections browsed)	Browsed the resources section. No results from Google using site: https://www.nhs.uk/smokefree filetype:pdf Browsed https://www.nhs.uk/smokefree/help-and-advice/e-cigarettes
Results	None additional

Website	
Name	Smoking Toolkit Study
URL	http://www.smokinginengland.info
Date searched	13/11/2019
Search terms (including any specific sections browsed)	Browsed latest stats, reports, key publications and STS documents. Did not include anything from Key Publications section as they were published elsewhere as journal articles and so they should have come up in the database searches.
Results	Smoking Toolkit Study (2019) Trends in electronic cigarette use in England updated 11 October 2019 [PowerPoint slides]

	<p>Aims to track use of electronic cigarettes over time and assess how far any increase is accompanied by changes in use of other aids to cessation or smoking reduction and key performance indicators for tobacco control.</p> <p>http://www.smokinginengland.info/downloadfile/?type=sts-documents&src=46</p>
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Website	
Name	Treat Tobacco
URL	http://www.treatobacco.net/en/index.php
Date searched	13/11/2019
Search terms (including any specific sections browsed)	<p>Browsed http://www.treatobacco.net/en/page_492.php but it had not been updated since 2014.</p> <p>Did not include any journal article as they should have already been retrieved.</p>
Results	None

Website	
Name	UK Centre for Tobacco and Alcohol Studies
URL	http://ukctas.net/index.html
Date searched	13/11/2019
Search terms (including any specific sections browsed)	<p>Browsed all sections of the website, including the Policy, Research and Reports sections.</p> <p>Did not include anything seen before i.e. the PHE reports.</p>
Results	None additional

Website	
Name	University of Bath Tobacco Control Research Group
URL	https://researchportal.bath.ac.uk/en/organisations/uk-centre-for-tobacco-control-studies
Date searched	13/11/2019
Search terms (including any specific sections browsed)	<p>Browsed research outputs from 2019.</p> <p>Also browsed http://www.bath.ac.uk/health/research/tobacco-control/</p>

Results	None
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Website	
Name	University of Stirling Centre for Tobacco Control Research
URL	https://www.stir.ac.uk/about/faculties-and-services/health-sciences-sport/research/research-groups/centre-for-tobacco-control-research/publications
Date searched	13/11/2019
Search terms (including any specific sections browsed)	No action – browsed publication list but the most recent was from 2017.
Results	None additional

Website	
Name	Welsh Government
URL	https://gov.wales/?lang=en
Date searched	17/01/2019
Search terms (including any specific sections browsed)	Searched for electronic cigarettes, e-cigs, ecigs, vape, vaping, vapouriser. Browsed the health and social care section for reports https://gov.wales/topics/health/?lang=en https://gov.wales/smoking
Results	None additional

Website	
Name	World Health Organization Europe
URL	http://www.euro.who.int/en/health-topics/disease-prevention/tobacco
Date searched	13/11/2019
Search terms (including any specific sections browsed)	Browsed the list of publications http://www.euro.who.int/en/health-topics/disease-prevention/tobacco/publications/a-z-list-of-all-publications2 Searched the overall publications list for smoking, cigarettes, tobacco and nicotine

	<p>http://www.euro.who.int/en/publications/search/a-z-list-of-all-publications</p> <p>Searched for electronic cigarettes, e-cigs, ecigs, vape, vaping, vapouriser in IRIS with date issued limited to 2019.</p> <p>http://apps.who.int/iris/?locale=en</p> <p>Did not include the Tobacco Control Playbook http://www.euro.who.int/__data/assets/pdf_file/0011/395687/Tobacco-Control-Playbook-final.pdf?ua=1</p>
<p>Results</p>	<p>World Health Organization (2019) European tobacco use: trends report 2019.</p> <p>Provides figures on prevalence of tobacco use, health impacts and policy responses across Europe.</p> <p>http://www.euro.who.int/en/health-topics/disease-prevention/tobacco/publications/2019/european-tobacco-use-trends-report-2019-2019</p> <p>World Health Organization (2019) WHO report on the global tobacco epidemic, 2019. Offer help to quit tobacco use.</p> <p>Reviews global progress in preventing tobacco uptake and supporting smoking cessation.</p> <p>http://www.euro.who.int/en/health-topics/disease-prevention/tobacco/publications/2019/european-tobacco-use-trends-report-2019-2019</p>

28 Search for RQ6.1b ReRun 2

28.1 Table of results

Database name	Date searched	Database Platform	Database segment or version
Cochrane Central Register of Controlled Trials (CENTRAL)	22/07/2020	Wiley	Cochrane Central Register of Controlled Trials Issue 7 of 12, July 2020
Cochrane Database of Systematic Reviews (CDSR)	22/07/2020	Wiley	Cochrane Database of Systematic Reviews Issue 7 of 12, July 2020
Embase	22/07/2020	Ovid	Embase 1974 to 2020 July 21
MEDLINE	22/07/2020	Ovid	Ovid MEDLINE(R) 1946 to July 21, 2020
MEDLINE-in-Process	22/07/2020	Ovid	Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations 1946 to July 21, 2020
MEDLINE-in-Process Epub Ahead-of-Print	22/07/2020	Ovid	Ovid MEDLINE(R) Epub Ahead of Print July 21, 2020, Ovid MEDLINE(R) Daily Update July 21, 2020
PsycINFO	22/07/2020	Ovid	APA PsycInfo 1806 to July Week 2 2020

Search source	No. of records retrieved	Results	Total results	De-duplicated
Cochrane Central Register of Controlled Trials (CENTRAL)	55	339	343	172
Cochrane Database of Systematic Reviews (CDSR)	2			
Embase	67			
MEDLINE	64			
MEDLINE-in-Process	32			
MEDLINE-in-Process Epub Ahead-of-Print	25			

PsycINFO	94			
Websites	4	4		

28.2 Database strategy outline

((Ecigs OR Vaping) AND (Smoking Harm Reduction))

OR Multi-Tobacco Use)

AND

(RCTs OR Systematic Reviews)

AND Limits

The main searches were run on 24 July 2019.

The re-run searches were first done on 13 November 2019 and again on 22 July 2020.

28.3 Re-run narrative

No new QA – see main search July 2019

No new peer review - see main search Jan 2019

The amendments made in Rerun1 were repeated in ReRun2. No further amendments were made.

Searches were backdated to 1 November 2019 (the first rerun used Ovid segments up to 13 November 2019). Some overlap is required and the duplicates can be dealt with in EPPI.

The MeSH 2020 term E-cigarette Vapor was not added as it is not related to harm reduction. It was added to the search for 4.1,6.2,6.3,6.4 as that includes a safety element.

An update search was not done on DARE as this is a legacy database and it is not being updated.

Website searches were done on the same resources as the main search. The website results were added to the same EPPI-reviewer file as the rest of the Re-run results rather than putting them in a separate Word file as in the main search.

No further work was done on Web of Science or with citation searching.

The 339 results from ReRun2 were downloaded. This was deduped and 91 duplicates were removed and 248 items remained.

The 248 were deduped against the 1233 from the main search and the 94 from ReRun1.

A further 80 items were removed and 168 items remained.

The 168 were exported to a new EPPI review and then the 4 results were added from the website searches.

There were 172 results to be screened from this second re-run search.

28.4 Database strategies

28.4.1 Database name: Cochrane Central Register of Controlled Trials (CENTRAL)

- #1 MeSH descriptor: [Electronic Nicotine Delivery Systems] this term only 108
- #2 MeSH descriptor: [Vaping] this term only 35
- #3 (ecig* or e-cig* or "e-voke" or juul* or vape* or vaping* or ENNDS):ti,ab 551
- #4 (electronic* near/3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)):ti,ab 374
- #5 ((tobacco* or nicotin* or cigar* or cigs) near/3 (vapor* or vapour* or device* or inhalator* or inhaler*)):ti,ab 238
- #6 (nicotin* and (ENDS or ANDS)):ti,ab 63
- #7 (nicotin* near/3 (delivery* NEXT system*)):ti,ab 74
- #8 {or #1-#7} 797
- #9 MeSH descriptor: [Smoking Reduction] this term only 12
- #10 MeSH descriptor: [Harm Reduction] this term only 121
- #11 MeSH descriptor: [Risk Reduction Behavior] this term only 1729
- #12 MeSH descriptor: [Smokers] this term only 190
- #13 prequit*:ti,ab or (pre NEXT quit*):ti,ab or (cut* NEXT down*):ti,ab or (controlled NEXT smoking*):ti,ab 470
- #14 stopstart*:ti,ab or (stop NEXT start):ti,ab or (cold NEXT turkey*):ti,ab 22
- #15 ((harm* or risk*) near/1 (cut or cuts* or cutting* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz* or less* or lower* or small*)):ti,ab 19317
- #16 ((temporar* or short* or impermanent* or brief* or interim* or cautious* or planned* or schedul* or intention* or intend* or motivat* or abrupt* or sudden* or rapid* or immediate* or quick* or impulsive* or spontaneous* or unplann* or unstructur* or unprompt* or unmotivat* or unwilling* or unable* or unintention* or unintent* or unsustain* or unsuccess* or prolong* or maintain* or maintenance* or sustain* or consumption* or consum* or attempt* or fail* or incomplet* or partial*) near/3 (cut or cuts* or cutting* or abstain* or abstinen* or quit or quits* or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or (giv* NEXT up) or discontinu* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz*)):ti,ab 35440
- #17 ((tobacco* or cigar* or cigs or smoking* or smoker*) near/3 (cut or cuts* or cutting* or abstain* or abstinen* or quit or quits* or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or (giv* NEXT up) or discontinu* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz*)):ti,ab 12132
- #18 (gradual* or withdraw* or substitut* or fading* or taper* or swap* or swop* or switch* or replace* or replacing*):ti,ab 89793

- #19 ((intention* or intend* or motivat* or impulsive* or spontaneous* or unplann* or unstructur* or unprompt* or unmotivat* or unwilling* or unable* or unintention* or unintent* or unsustain* or unsuccess* or attempt* or fail* or incomplet* or partial*) near/3 smoker*):ti,ab 635
- #20 {or #9-#19} 145178
- #21 #8 and #20 516
- #22 ((tobacco* or nicotin* or cigar* or cigs) near/3 (dual* or multiple* or multi)):ti,ab 100
- #23 polytobacco*:ti,ab or (poly NEXT tobacco*):ti,ab or multitobacco*:ti,ab or (multi NEXT tobacco*):ti,ab 3
- #24 {or #21-#23} 595
- #25 conference:pt 163355
- #26 #24 not #25 535
- #27 (clinicaltrials or trialsearch):so 329109
- #28 #26 not #27 331
- #29 #26 not #27 with Cochrane Library publication date Between Nov 2019 and Jul 2020, in Trials 55

Used the date added to Cochrane Library rather than date of original publication. The previous Rerun was done using CENTRAL Issue 11 of 12 November 2019 but started this from 1 Nov 2019 to be comprehensive. Duplicates could be dealt with in EPPI.

28.4.2 Database name: Cochrane Database of Systematic Reviews (CDSR)

- #1 MeSH descriptor: [Electronic Nicotine Delivery Systems] this term only 108
- #2 MeSH descriptor: [Vaping] this term only 35
- #3 (ecig* or e-cig* or "e-voke" or juul* or vape* or vaping* or ENNDS):ti,ab 551
- #4 (electronic* near/3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)):ti,ab 374
- #5 ((tobacco* or nicotin* or cigar* or cigs) near/3 (vapor* or vapour* or device* or inhalator* or inhaler*)):ti,ab 238
- #6 (nicotin* and (ENDS or ANDS)):ti,ab 63
- #7 (nicotin* near/3 (delivery* NEXT system*)):ti,ab 74
- #8 {or #1-#7} 797
- #9 MeSH descriptor: [Smoking Reduction] this term only 12
- #10 MeSH descriptor: [Harm Reduction] this term only 121
- #11 MeSH descriptor: [Risk Reduction Behavior] this term only 1729

- #12 MeSH descriptor: [Smokers] this term only 190
- #13 prequit*.ti,ab or (pre NEXT quit*).ti,ab or (cut* NEXT down*).ti,ab or (controlled NEXT smoking*).ti,ab 470
- #14 stopstart*.ti,ab or (stop NEXT start).ti,ab or (cold NEXT turkey*).ti,ab 22
- #15 ((harm* or risk*) near/1 (cut or cuts* or cutting* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz* or less* or lower* or small*)):ti,ab 19317
- #16 ((temporar* or short* or impermanent* or brief* or interim* or cautious* or planned* or schedul* or intention* or intend* or motivat* or abrupt* or sudden* or rapid* or immediate* or quick* or impulsive* or spontaneous* or unplann* or unstructur* or unprompt* or unmotivat* or unwilling* or unable* or unintention* or unintent* or unsustain* or unsuccess* or prolong* or maintain* or maintenance* or sustain* or consumption* or consum* or attempt* or fail* or incomplet* or partial*) near/3 (cut or cuts* or cutting* or abstain* or abstinen* or quit or quits* or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or (giv* NEXT up) or discontinu* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz*)):ti,ab 35440
- #17 ((tobacco* or cigar* or cigs or smoking* or smoker*) near/3 (cut or cuts* or cutting* or abstain* or abstinen* or quit or quits* or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or (giv* NEXT up) or discontinu* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz*)):ti,ab 12132
- #18 (gradual* or withdraw* or substitut* or fading* or taper* or swap* or swop* or switch* or replace* or replacing*):ti,ab 89793
- #19 ((intention* or intend* or motivat* or impulsive* or spontaneous* or unplann* or unstructur* or unprompt* or unmotivat* or unwilling* or unable* or unintention* or unintent* or unsustain* or unsuccess* or attempt* or fail* or incomplet* or partial*) near/3 smoker*):ti,ab 635
- #20 {or #9-#19} 145178
- #21 #8 and #20 516
- #22 ((tobacco* or nicotin* or cigar* or cigs) near/3 (dual* or multiple* or multi)):ti,ab 100
- #23 polytobacco*.ti,ab or (poly NEXT tobacco*):ti,ab or multitobacco*.ti,ab or (multi NEXT tobacco*):ti,ab 3
- #24 {or #21-#23} 595
- #25 conference:pt 163355
- #26 #24 not #25 535
- #27 (clinicaltrials or trialsearch):so 329109
- #28 #26 not #27 331
- #29 #26 not #27 with Cochrane Library publication date Between Nov 2019 and Jul 2020, in Cochrane Reviews, Cochrane Protocols 2

[Results: Cochrane Reviews = 0; Cochrane Protocols = 0]

Use the same dates as CENTRAL as the two sources had been done on the same day in ReRun1.

28.4.3 Database name: Embase

Database(s): Embase 1974 to 2020 July 21

Search Strategy:

#	Searches	Results
1	electronic cigarette/	6421
2	Vaping/	1929
3	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).ti,ab.	5953
4	(electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).ti,ab.	4027
5	((tobacco* or nicotin* or cigar* or cigs) adj3 (vapor* or vapour* or device* or inhalator* or inhaler*)).ti,ab.	1287
6	(nicotin* and (ENDS or ANDS)).ti,ab.	557
7	(nicotin* adj3 deliver* system*).ti,ab.	684
8	or/1-7	8866
9	smoking reduction/	201
10	harm reduction/	6274
11	risk reduction/	103496
12	(pre-quit* or prequit* or "pre quit*" or cut* down* or controlled smoking*).ti,ab.	3705
13	("Stop-start*" or stopstart* or "stop start*" or "cold turkey*").ti,ab.	319
14	((harm* or risk*) adj1 (cut or cuts* or cutting* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz* or less* or lower* or small*)).ti,ab.	173771
15	((temporar* or short* or impermanent* or brief* or interim* or cautious* or planned* or schedul* or intention* or intend* or motivat* or abrupt* or sudden* or rapid* or immediate* or quick* or impulsive* or spontaneous* or unplann* or unstructur* or unprompt* or unmotivat* or unwilling* or unable* or unintention* or unintend* or unsustain* or unsuccess* or prolong* or maintain* or maintenance* or sustain* or consumption* or consum* or attempt* or fail* or incomplet* or partial*) adj3 (cut or cuts* or cutting* or abstain* or abstinen* or quit or quits* or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or giv* up or discontinu* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz*)).ti,ab.	329529
16	((tobacco* or cigar* or cigs or smoking* or smoker*) adj3 (cut or cuts* or cutting* or abstain* or abstinen* or quit or quits* or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or giv* up or discontinu* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz*)).ti,ab.	64695

	or ceasing* or cessation* or giv* up or discontinu* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz*).ti,ab.	
17	(gradual* or withdraw* or substitut* or fading* or taper* or swap* or swop* or switch* or replace* or replacing*).ti,ab.	1503541
18	((intention* or intend* or motivat* or impulsive* or spontaneous* or unplann* or unstructur* or unprompt* or unmotivat* or unwilling* or unable* or unintention* or unintend* or unsustain* or unsuccess* or attempt* or fail* or incomplet* or partial*) adj3 smoker*).ti,ab.	2295
19	or/9-18	2076096
20	8 and 19	3726
21	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*).ti,ab.	613
22	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).ti,ab.	128
23	or/20-22	4217
24	nonhuman/ not (human/ and nonhuman/)	4647883
25	23 not 24	4093
26	(letter or editorial).pt.	1783672
27	25 not 26	3895
28	(conference abstract or conference paper or conference proceeding or "conference review").pt.	4595098
29	27 not 28	3252
30	limit 29 to medline	1008
31	29 not 30	2244
32	limit 31 to english language	2157
33	random:.tw.	1551646
34	placebo:.mp.	455893
35	double-blind:.tw.	210620
36	or/33-35	1806569
37	32 and 36	301
38	(MEDLINE or pubmed).tw.	260894
39	exp systematic review/ or systematic review.tw.	302604

40	meta-analysis/	190990
41	intervention*.ti.	199948
42	or/38-41	659695
43	32 and 42	166
44	37 or 43	420
45	limit 44 to dc=20191101-20200722	67

28.4.4 Database name: MEDLINE

Database(s): Ovid MEDLINE(R) 1946 to July 21, 2020

Search Strategy:

#	Searches	Results
1	Electronic Nicotine Delivery Systems/	3397
2	Vaping/	993
3	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).ti,ab.	3300
4	(electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).ti,ab.	2390
5	((tobacco* or nicotin* or cigar* or cigs) adj3 (vapor* or vapour* or device* or inhalator* or inhaler*)).ti,ab.	764
6	(nicotin* and (ENDS or ANDS)).ti,ab.	322
7	(nicotin* adj3 deliver* system*).ti,ab.	389
8	or/1-7	4959
9	Smoking reduction/	52
10	Harm Reduction/	3095
11	Risk Reduction Behavior/	12648
12	Smokers/	1821
13	(pre-quit* or prequit* or "pre quit*" or cut* down* or controlled smoking*).ti,ab.	2170
14	("Stop-start*" or stopstart* or "stop start*" or "cold turkey*").ti,ab.	198
15	((harm* or risk*) adj1 (cut or cuts* or cutting* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz* or less* or lower* or small*)).ti,ab.	102041
16	((temporar* or short* or impermanent* or brief* or interim* or cautious* or planned* or schedul* or intention* or intend* or motivat* or abrupt* or sudden* or rapid* or immediate* or quick* or impulsive* or spontaneous* or unplann* or unstructur* or unprompt* or unmotivat* or unwilling* or unable* or unintention* or unintend* or unsustain* or unsuccessful* or prolong* or maintain* or maintenance* or sustain* or consumption* or consum* or attempt* or fail* or incomplet* or partial*) adj3 (cut or cuts* or cutting* or abstain* or abstinen* or quit or quits* or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or giv* up or discontinu* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz*)).ti,ab.	215871

17	((tobacco* or cigar* or cigs or smoking* or smoker*) adj3 (cut or cuts* or cutting* or abstain* or abstin* or quit or quits* or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or giv* up or discontinu* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz*)).ti,ab.	43758
18	(gradual* or withdraw* or substitut* or fading* or taper* or swap* or swop* or switch* or replace* or replacing*).ti,ab.	984869
19	((intention* or intend* or motivat* or impulsive* or spontaneous* or unplann* or unstructur* or unprompt* or unmotivat* or unwilling* or unable* or unintention* or unintend* or unsustain* or unsuccess* or attempt* or fail* or incomplet* or partial*) adj3 smoker*).ti,ab.	1666
20	or/9-19	1314905
21	8 and 20	2144
22	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*)).ti,ab.	402
23	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).ti,ab.	92
24	or/21-23	2474
25	Animals/ not (Animals/ and Humans/)	4686361
26	24 not 25	2412
27	limit 26 to (letter or historical article or comment or editorial or news or case reports)	193
28	26 not 27	2219
29	limit 28 to english language	2129
30	randomized controlled trial.pt.	509649
31	randomi?ed.mp.	797353
32	placebo.mp.	195001
33	or/30-32	849034
34	29 and 33	246
35	(MEDLINE or pubmed).tw.	163869
36	systematic review.tw.	121379
37	systematic review.pt.	130410
38	meta-analysis.pt.	117293

39	intervention*.ti.	123984
40	or/35-39	380575
41	29 and 40	123
42	34 or 41	331
43	limit 42 to ed=20191101-20200722	64

28.4.5 Database name: MEDLINE-in-Process

Database(s): Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations 1946 to July 21, 2020

Search Strategy:

#	Searches	Results
1	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).ti,ab.	1411
2	(electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).ti,ab.	852
3	((tobacco* or nicotin* or cigar* or cigs) adj3 (vapor* or vapour* or device* or inhalator* or inhaler*)).ti,ab.	198
4	(nicotin* and (ENDS or ANDS)).ti,ab.	137
5	(nicotin* adj3 deliver* system*).ti,ab.	171
6	or/1-5	1753
7	(pre-quit* or prequit* or "pre quit*" or cut* down* or controlled smoking*).ti,ab.	342
8	("Stop-start*" or stopstart* or "stop start*" or "cold turkey*").ti,ab.	25
9	((harm* or risk*) adj1 (cut or cuts* or cutting* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz* or less* or lower* or small*)).ti,ab.	14517
10	((temporar* or short* or impermanent* or brief* or interim* or cautious* or planned* or schedul* or intention* or intend* or motivat* or abrupt* or sudden* or rapid* or immediate* or quick* or impulsive* or spontaneous* or unplann* or unstructur* or unprompt* or unmotivat* or unwilling* or unable* or unintention* or unintent* or unsustain* or unsuccess* or prolong* or maintain* or maintenance* or sustain* or consumption* or consum* or attempt* or fail* or incomplet* or partial*) adj3 (cut or cuts* or cutting* or abstain* or abstinen* or quit or quits* or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or giv* up or discontinu* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz*)).ti,ab.	29815
11	((tobacco* or cigar* or cigs or smoking* or smoker*) adj3 (cut or cuts* or cutting* or abstain* or abstinen* or quit or quits* or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or giv* up or discontinu* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz*)).ti,ab.	5169
12	(gradual* or withdraw* or substitut* or fading* or taper* or swap* or swop* or switch* or replace* or replacing*).ti,ab.	181390
13	((intention* or intend* or motivat* or impulsive* or spontaneous* or unplann* or unstructur* or unprompt* or unmotivat* or unwilling* or	187

	unable* or unintention* or unintend* or unsustain* or unsuccess* or attempt* or fail* or incomplet* or partial*) adj3 smoker*).ti,ab.	
14	or/7-13	225334
15	6 and 14	676
16	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*).ti,ab.	123
17	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).ti,ab.	31
18	or/15-17	759
19	limit 18 to (letter or historical article or comment or editorial or news or case reports)	31
20	18 not 19	728
21	limit 20 to english language	719
22	randomized controlled trial.pt.	277
23	randomi?ed.mp.	75363
24	placebo.mp.	18354
25	or/22-24	81828
26	21 and 25	60
27	(MEDLINE or pubmed).tw.	36265
28	systematic review.tw.	30070
29	systematic review.pt.	1012
30	meta-analysis.pt.	50
31	intervention*.ti.	21478
32	or/27-31	69417
33	21 and 32	47
34	26 or 33	97
35	limit 34 to dt=20191101-20200722	32

28.4.6 Database name: MEDLINE Epub Ahead of Print and Daily Update

Database(s): Ovid MEDLINE(R) Epub Ahead of Print July 21, 2020, Ovid MEDLINE(R) Daily Update July 21, 2020

Search Strategy:

#	Searches	Results
1	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).ti,ab.	402
2	(electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*).ti,ab.	210
3	((tobacco* or nicotin* or cigar* or cigs) adj3 (vapor* or vapour* or device* or inhalator* or inhaler*).ti,ab.	40
4	(nicotin* and (ENDS or ANDS)).ti,ab.	37
5	(nicotin* adj3 deliver* system*).ti,ab.	47
6	or/1-5	474
7	(pre-quit* or prequit* or "pre quit*" or cut* down* or controlled smoking*).ti,ab.	64
8	("Stop-start*" or stopstart* or "stop start*" or "cold turkey*").ti,ab.	1
9	((harm* or risk*) adj1 (cut or cuts* or cutting* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz* or less* or lower* or small*).ti,ab.	3631
10	((temporar* or short* or impermanent* or brief* or interim* or cautious* or planned* or schedul* or intention* or intend* or motivat* or abrupt* or sudden* or rapid* or immediate* or quick* or impulsive* or spontaneous* or unplann* or unstructur* or unprompt* or unmotivat* or unwilling* or unable* or unintention* or unintent* or unsustain* or unsuccess* or prolong* or maintain* or maintenance* or sustain* or consumption* or consum* or attempt* or fail* or incomplet* or partial*) adj3 (cut or cuts* or cutting* or abstain* or abstinen* or quit or quits* or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or giv* up or discontinu* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz*).ti,ab.	4424
11	((tobacco* or cigar* or cigs or smoking* or smoker*) adj3 (cut or cuts* or cutting* or abstain* or abstinen* or quit or quits* or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or giv* up or discontinu* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz*).ti,ab.	1085
12	(gradual* or withdraw* or substitut* or fading* or taper* or swap* or swop* or switch* or replace* or replacing*).ti,ab.	19033
13	((intention* or intend* or motivat* or impulsive* or spontaneous* or unplann* or unstructur* or unprompt* or unmotivat* or unwilling* or	45

	unable* or unintention* or unintend* or unsustain* or unsuccess* or attempt* or fail* or incomplet* or partial*) adj3 smoker*).ti,ab.	
14	or/7-13	27086
15	6 and 14	166
16	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*).ti,ab.	30
17	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).ti,ab.	12
18	or/15-17	197
19	limit 18 to (letter or historical article or comment or editorial or news or case reports)	3
20	18 not 19	194
21	limit 20 to english language	193
22	randomized controlled trial.pt.	596
23	randomi?ed.mp.	15358
24	placebo.mp.	3325
25	or/22-24	16411
26	21 and 25	15
27	(MEDLINE or pubmed).tw.	8538
28	systematic review.tw.	8075
29	systematic review.pt.	549
30	meta-analysis.pt.	408
31	intervention*.ti.	4536
32	or/27-31	16200
33	21 and 32	13
34	26 or 33	25

The MIP had to be split, unlike in the main search, as it was not appropriate to search the Epubs or Daily segments with date limits.

28.4.7 Database name: PsycINFO

Database(s): APA PsycInfo 1806 to July Week 2 2020

Search Strategy:

#	Searches	Results
1	Electronic Cigarettes/	1368
2	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).ti,ab.	1775
3	(electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).ti,ab.	1102
4	((tobacco* or nicotin* or cigar* or cigs) adj3 (vapor* or vapour* or device* or inhalator* or inhaler*)).ti,ab.	300
5	(nicotin* and (ENDS or ANDS)).ti,ab.	155
6	(nicotin* adj3 deliver* system*).ti,ab.	206
7	or/1-6	2227
8	harm reduction/	3261
9	(pre-quit* or prequit* or "pre quit*" or cut* down* or controlled smoking*).ti,ab.	834
10	("Stop-start*" or stopstart* or "stop start*" or "cold turkey*").ti,ab.	98
11	((harm* or risk*) adj1 (cut or cuts* or cutting* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz* or less* or lower* or small*)).ti,ab.	23730
12	((temporar* or short* or impermanent* or brief* or interim* or cautious* or planned* or schedul* or intention* or intend* or motivat* or abrupt* or sudden* or rapid* or immediate* or quick* or impulsive* or spontaneous* or unplann* or unstructur* or unprompt* or unmotivat* or unwilling* or unable* or unintention* or unintend* or unsustain* or unsuccessful* or prolong* or maintain* or maintenance* or sustain* or consumption* or consum* or attempt* or fail* or incomplet* or partial*) adj3 (cut or cuts* or cutting* or abstain* or abstinen* or quit or quits* or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or giv* up or discontinu* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz*)).ti,ab.	49318
13	((tobacco* or cigar* or cigs or smoking* or smoker*) adj3 (cut or cuts* or cutting* or abstain* or abstinen* or quit or quits* or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or giv* up or discontinu* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz*)).ti,ab.	20084

14	(gradual* or withdraw* or substitut* or fading* or taper* or swap* or swop* or switch* or replace* or replacing*).ti,ab.	145232
15	((intention* or intend* or motivat* or impulsive* or spontaneous* or unplann* or unstructur* or unprompt* or unmotivat* or unwilling* or unable* or unintention* or unintend* or unsustain* or unsuccess* or attempt* or fail* or incomplet* or partial*) adj3 smoker*).ti,ab.	1120
16	or/8-15	223883
17	7 and 16	1225
18	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*)).ti,ab.	303
19	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).ti,ab.	86
20	or/17-19	1481
21	limit 20 to ("column/opinion" or editorial or letter)	44
22	20 not 21	1437
23	limit 22 to english language	1361
24	exp Randomized Controlled Trials/	616
25	Placebo/	5656
26	exp treatment/	1048937
27	(control* or random*).tw.	806437
28	(clinical* adj3 (trial* or stud*)).tw.	67164
29	placebo*.tw.	40680
30	((singl* or doubl* or trebl* or tripl*) adj (blind* or mask*)).tw.	26237
31	(crossover* or (cross adj over*)).tw.	10417
32	or/24-31	1688324
33	23 and 32	639
34	Meta Analysis/	4721
35	Systematic Review/	375
36	effectiveness*.tw.	161165
37	(search* or handsearch*).tw.	100880
38	(meta-analysis* or metaanaly* or metanaly* or (meta adj3 analy*)).tw.	38495

39	(review* or overview*).ti.	164437
40	(systematic* adj5 (review* or overview*)).tw.	35483
41	((quantitative* or qualitative*) adj5 (review* or overview*)).tw.	5641
42	((studies or trial*) adj2 (review* or overview*)).tw.	19181
43	(integrat* adj3 (research or review* or literature)).tw.	12462
44	(pool* adj2 (analy* or data)).tw.	3552
45	or/34-44	440345
46	23 and 45	153
47	33 or 46	701
48	limit 47 to up=20191101-20200722	94

PsycINFO is updated weekly but the update codes give the specific day. The previous rerun search was done Nov Week 1 2019 on 13 Nov so I ran ReRun2 with a start date from the beginning of that week.

28.5 Web searching

28.5.1 Search engines

Search engine																															
Name	Health Services/Technology Assessment Texts (HSTAT)																														
URL	https://www.ncbi.nlm.nih.gov/books/NBK16710																														
Date searched	22/07/2020																														
Search terms	<table border="1"> <tbody> <tr> <td>#1</td> <td>Search ((ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS))</td> <td>1015</td> </tr> <tr> <td>#2</td> <td>Search ((Electronic tobacco* or Electronic nicotin* or Electronic cigar* or Electronic cigs or Electronic vapor* or Electronic vapour*))</td> <td>813</td> </tr> <tr> <td>#3</td> <td>Search ((Dual tobacco* or dual nicotin* or dual cigar* or dual cigs))</td> <td>27</td> </tr> <tr> <td>#4</td> <td>Search Nicotine deliver*</td> <td>434</td> </tr> <tr> <td>#5</td> <td>Search ((polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*))</td> <td>960</td> </tr> <tr> <td>#6</td> <td>Search Electronic Nicotine Delivery Systems[MeSH Terms]</td> <td>90</td> </tr> <tr> <td>#7</td> <td>Search Vaping[MeSH Terms]</td> <td>90</td> </tr> <tr> <td>#8</td> <td>Search ((#1 or #2 or #3 or #4 or #5 or #6 or #7))</td> <td>2427</td> </tr> <tr> <td>#9</td> <td>Search hstatcollect[filter]</td> <td>37653</td> </tr> <tr> <td>#10</td> <td>Search ((#8 and #9))</td> <td>224</td> </tr> </tbody> </table>	#1	Search ((ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS))	1015	#2	Search ((Electronic tobacco* or Electronic nicotin* or Electronic cigar* or Electronic cigs or Electronic vapor* or Electronic vapour*))	813	#3	Search ((Dual tobacco* or dual nicotin* or dual cigar* or dual cigs))	27	#4	Search Nicotine deliver*	434	#5	Search ((polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*))	960	#6	Search Electronic Nicotine Delivery Systems[MeSH Terms]	90	#7	Search Vaping[MeSH Terms]	90	#8	Search ((#1 or #2 or #3 or #4 or #5 or #6 or #7))	2427	#9	Search hstatcollect[filter]	37653	#10	Search ((#8 and #9))	224
#1	Search ((ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS))	1015																													
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#5	Search ((polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*))	960																													
#6	Search Electronic Nicotine Delivery Systems[MeSH Terms]	90																													
#7	Search Vaping[MeSH Terms]	90																													
#8	Search ((#1 or #2 or #3 or #4 or #5 or #6 or #7))	2427																													
#9	Search hstatcollect[filter]	37653																													
#10	Search ((#8 and #9))	224																													
How the results were selected	Only selected documents if the title or abstract were directly relevant to the questions and had not been selected in the main search.																														
Results	None additional – most recent result was May 2018.																														

Search engine	
Name	NICE Evidence Search
URL	https://www.evidence.nhs.uk
Date searched	22/07/2020

Search terms	Searched for electronic cigarettes, e-cigs, ecigs, vape, vaping, electronic nicotine, "harm reduction", "tobacco reduction" and "smoking reduction".
How the results were selected	Only selected documents if the title or abstract were directly relevant to the questions. Did not include anything already in EPPI. Limited results to 1 Nov 2019 to 22 July 2020. Looked at public health, guidance and policy, medicines current awareness filters.
Results	None additional

28.5.2 Website browsing

Website	
Name	Action on Smoking and Health (ASH)
URL	http://ash.org.uk/home
Date searched	22/07/2020
Search terms (including any specific sections browsed)	<p>Browsed fact sheets, briefings, reports and submissions.</p> <p>Browsed https://ash.org.uk/category/information-and-resources/product-regulation/harm-reduction/</p> <p>Did not think the 15 July 2020 press notice was relevant:</p> <p>A million people have stopped smoking since the COVID pandemic hit Britain https://ash.org.uk/media-and-news/press-releases-media-and-news/pandemicmillion/</p>
Results	None additional

Website	
Name	Local Government Association
URL	https://www.local.gov.uk
Date searched	22/07/2020
Search terms (including any specific sections browsed)	<p>Browsed the public health page https://www.local.gov.uk/topics/social-care-health-and-integration/public-health</p> <p>Did not think the 18 July 2020 press notice was relevant:</p> <p>LGA: Alfresco summer calls for smoke-free pavements https://www.local.gov.uk/lga-alfresco-summer-calls-smoke-free-pavements</p>
Results	None relevant

Website	
Name	National Centre for Smoking Cessation and Training
URL	http://www.ncsct.co.uk
Date searched	22/07/2020
Search terms (including any specific sections browsed)	Browsed research and research resources, training resources, briefings and commissioning resources.

specific sections browsed)	
Results	National Centre for Smoking Cessation and Training (2020) Remote consultations: Delivering behavioural support and supply of NRT https://www.ncsct.co.uk/usr/pub/Remote%20consultations.pdf

Website	
Name	NHS Digital
URL	https://digital.nhs.uk
Date searched	22/07/2020
Search terms (including any specific sections browsed)	Searched for tobacco, smoking and cigarettes. Only included annual publications and only included the most recent edition.
Results	None additional.

Website	
Name	Northern Ireland Assembly
URL	http://www.niassembly.gov.uk/
Date searched	22/07/2020
Search terms (including any specific sections browsed)	Searched publications for electronic cigarettes, e-cigs, ecigs, vape, vaping, vapouriser.
Results	None additional

Website	
Name	Public Health England
URL	https://www.gov.uk/government/organisations/public-health-england
Date searched	22/07/2020
Search terms (including any specific	Searched publications and announcements for electronic cigarettes, e-cigs, ecigs, vape, vaping, vapouriser.

sections browsed)	<p>Browsed the vaping section</p> <p>https://www.gov.uk/government/collections/e-cigarettes-and-vaping-policy-regulation-and-guidance</p> <p>Only included reports relevant to the particular questions we are doing.</p> <p>Did not include exporting and regulations on consumer products.</p>
Results	<p>Vaping in England: evidence update March 2020</p> <p>https://www.gov.uk/government/publications/vaping-in-england-evidence-update-march-2020</p>

Website	
Name	Royal College of Paediatrics and Child Health
URL	https://www.rcpch.ac.uk/
Date searched	22/07/2020
Search terms (including any specific sections browsed)	<p>Browsed resources and key topics.</p> <p>Did not think Smoking in young People 2020 was relevant:</p> <p>https://stateofchildhealth.rcpch.ac.uk/evidence/health-behaviours/smoking-young-people/</p>
Results	None relevant

Website	
Name	Royal College of Physicians
URL	https://www.rcplondon.ac.uk
Date searched	22/07/2020
Search terms (including any specific sections browsed)	<p>Searched for tobacco, smoking, vaping.</p> <p>Browsed policies from</p> <p>https://www.rcplondon.ac.uk/projects/rcp-policy-public-health</p>
Results	None additional

Website	
Name	Scottish Government

URL	https://www.gov.scot
Date searched	22/07/2020
Search terms (including any specific sections browsed)	Browsed the health and social care section. Browsed the smoking page https://www.gov.scot/policies/smoking/
Results	None additional

Website	
Name	Smokefree NHS
URL	https://www.nhs.uk/smokefree
Date searched	22/07/2020
Search terms (including any specific sections browsed)	Browsed https://www.nhs.uk/smokefree/help-and-advice/e-cigarettes
Results	None additional

Website	
Name	Smoking Toolkit Study
URL	http://www.smokinginengland.info
Date searched	22/07/2020
Search terms (including any specific sections browsed)	Browsed latest stats, reports, key publications and STS documents. Did not include anything from Key Publications section as they were published elsewhere as journal articles and so they should have come up in the database searches.
Results	Smoking Toolkit Study (2020) Trends in electronic cigarette use in England updated 3 July 2020 [PowerPoint slides] http://www.smokinginengland.info/latest-statistics/

Website	
Name	Treat Tobacco
URL	http://www.treatobacco.net/en/index.php

Date searched	22/07/2020
Search terms (including any specific sections browsed)	Browsed http://www.treatobacco.net/en/page_492.php but it had not been updated since 2014. Did not include any journal article as they should have already been retrieved.
Results	None

Website	
Name	UK Centre for Tobacco and Alcohol Studies
URL	http://ukctas.net/index.html
Date searched	22/07/2020
Search terms (including any specific sections browsed)	Browsed all sections of the website, including the Policy, Research and Reports sections. Did not include anything seen before i.e. the PHE reports.
Results	None additional

Website	
Name	University of Bath Tobacco Control Research Group
URL	https://researchportal.bath.ac.uk/en/organisations/uk-centre-for-tobacco-control-studies
Date searched	22/07/2020
Search terms (including any specific sections browsed)	Browsed research outputs from 2020. Also browsed http://www.bath.ac.uk/health/research/tobacco-control/
Results	None

Website	
Name	University of Stirling Centre for Tobacco Control Research
URL	https://www.stir.ac.uk/about/faculties-and-services/health-sciences-sport/research/research-groups/centre-for-tobacco-control-research/publications
Date searched	22/07/2020

Search terms (including any specific sections browsed)	No action – browsed publication list but the most recent was from 2017.
Results	None additional

Website	
Name	Welsh Government
URL	https://gov.wales/?lang=en
Date searched	22/07/2020
Search terms (including any specific sections browsed)	Searched for electronic cigarettes, e-cigs, ecigs, vape, vaping. Browsed the health and social care section for reports https://gov.wales/smoking
Results	None additional

Website	
Name	World Health Organization Europe
URL	http://www.euro.who.int/en/health-topics/disease-prevention/tobacco
Date searched	22/07/2020
Search terms (including any specific sections browsed)	Browsed the list of publications http://www.euro.who.int/en/health-topics/disease-prevention/tobacco/publications/a-z-list-of-all-publications2 Searched the overall publications list for smoking, cigarettes, tobacco and nicotine http://www.euro.who.int/en/publications/search/a-z-list-of-all-publications
Results	electronic nicotine and non-nicotine delivery systems a brief https://www.euro.who.int/__data/assets/pdf_file/0009/443673/Electronic-nicotine-and-non-nicotine-delivery-systems-brief-eng.pdf

29 Search for RQ6.1 (Cost effectiveness)

<p>Topic: Tobacco Portfolio</p> <p>Question details:</p> <p>Cost Effectiveness elements of:</p> <p>6.1a. What are the most effective and cost effective means of smoking cessation (including e-cigarettes)?</p> <p>6.1b. Are e-cigarettes effective and cost effective for smoking harm reduction?</p>
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29.1 Table of results

Search source	Date searched	Database Platform	Database segment or version
Campbell	02/10/2019	https://campbellcollaboration.org/better-evidence.html	02/10/2019 – with 173 reviews
EconLit	02/10/2019	Ovid	Econlit 1886 to September 19, 2019
Embase	02/10/2019	Ovid	Embase 1974 to 2019 October 01
HTA	02/10/2019	CRD https://www.crd.york.ac.uk/CRDWeb/	Legacy – last updated 31 March 2018
MEDLINE	02/10/2019	Ovid	Ovid MEDLINE(R) ALL 1946 to October 01, 2019
NHS EED	02/10/2019	CRD https://www.crd.york.ac.uk/CRDWeb/	Legacy – last updated 31 March 2015
Includes from previous NICE guidance	02/10/2019	Browsed original reviews	-

Type	Search source	No. of records retrieved	Total Results	De-duplicated
Database	Campbell	0	4508	3575
	EconLit	61		
	Embase	3039		
	HTA	50		
	MEDLINE	1225		
	NHS EED	99		
Includes from previous NICE guidance	PH1 = 12 PH10 = 7 PH45 = 2 PH48 = 1 NG92 = 3 TA123 = 0 TA39 = 9	34		

29.2 Database strategy outline

(Ecigs OR NRT OR Varenicline OR Bupropion OR Polytobacco)

AND CE Filter

AND Limits

29.3 Database strategies

29.3.1 Source: Campbell Library

<https://www.campbellcollaboration.org/better-evidence.html>

Just searched for single words – once in the keywords, and once in the title field. Used the words below. No truncation or nesting available on the website but used variations of each word (e.g. plurals).

nicotine

ecig

e-cig

e-voke

ENNDS

juul

vape

vaping

varenicline

chamfix

bupropion

zyban

polytobacco

multitobacco

No hits from any of these searches.

29.3.2 Source: EconLitDatabase(s): **Econlit** 1886 to September 19, 2019

Search Strategy:

#	Searches	Results
1	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).ti,ab.	29
2	(electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).ti,ab.	14
3	((tobacco* or nicotin* or cigar* or cigs) adj3 (vapor* or vapour* or device* or inhalator* or inhaler*)).ti,ab.	1
4	(nicotin* and (ENDS or ANDS)).ti,ab.	0
5	(nicotin* adj3 deliver* system*).ti,ab.	1
6	or/1-5	35
7	(nrt or nicorette* or niquitin* or nicotinell* or nicassist*).ti,ab.	9
8	(nicotin* adj3 (replacement* or substitute* or gum* or inhaled* or inhaler* or inhalant* or inhalator* or spray* or lozenge* or tablet* or transdermal* or patch* or vaccin* or device* or gel* or pastil* or deliver* or sublingual* or therap* or treatment* or nasal* or microtab* or polacrilex* or product or products*)).ti,ab.	31
9	or/7-8	32
10	(varenicline* or champix* or chantix*).ti,ab.	4
11	(bupropion* or zyban* or amfebutamone* or quomen* or wellbutrin* or zyntabac*).ti,ab.	4
12	10 or 11	5
13	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*)).ti,ab.	0
14	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).ti,ab.	0
15	or/13-14	0
16	6 or 9 or 12 or 15	61

29.3.3 Source: Embase

Database(s): **Embase** 1974 to 2019 October 01

Search Strategy:

#	Searches	Results
1	electronic cigarette/	5254
2	vaping/	1086
3	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).ti,ab.	4536
4	(electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).ti,ab.	3288
5	((tobacco* or nicotin* or cigar* or cigs) adj3 (vapor* or vapour* or device* or inhalator* or inhaler*)).ti,ab.	1137
6	(nicotin* and (ENDS or ANDS)).ti,ab.	443
7	(nicotin* adj3 deliver* system*).ti,ab.	537
8	or/1-7	7054
9	nicotine replacement therapy/	4966
10	nicotine gum/	2886
11	nicotine lozenge/	273
12	nicotine patch/	2063
13	nicotine vaccine/	300
14	(nrt or nicorette* or niquitin* or nicotinell* or nicassist*).ti,ab.	2679
15	(nicotin* adj3 (replacement* or substitute* or gum* or inhaled* or inhaler* or inhalant* or inhalator* or spray* or lozenge* or tablet* or transdermal* or patch* or vaccin* or device* or gel* or pastil* or deliver* or sublingual* or therap* or treatment* or nasal* or microtab* or polacrilex* or product or products*)).ti,ab.	13116
16	or/9-15	17654
17	Varenicline/	4278
18	(varenicline* or champix* or chantix*).ti,ab.	2606

19	Bupropion/	17483
20	Amfebutamone/	17933
21	(bupropion* or zyban* or amfebutamone* or quomen* or wellbutrin* or zyantabac*).ti,ab.	6061
22	or/17-21	20795
23	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*)).ti,ab.	512
24	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).ti,ab.	104
25	or/23-24	578
26	health-economics/ or exp economic-evaluation/ or exp health-care-cost/ or pharmacoeconomics/ or Monte Carlo Method/ or Decision Tree/	564561
27	(Economic* or cost or costs or costly or costing or costed or price or prices or pricing or pharmacoeconomic* or pharmaco economic* or budget*).ti,ab.	996399
28	((monte adj carlo) or markov or (decision adj2 (tree* or analys*))).ti,ab.	84152
29	(value adj2 (money or monetary)).ti,ab.	3097
30	Quality of Life/ or Quality Adjusted Life Year/ or Quality of Life Index/ or Short Form 36/ or Health Status/	573536
31	(quality of life or quality adjusted life or qaly* or qald* or qale* or qtime* or quality of wellbeing or quality of well-being or willingness to pay or standard gamble* or time trade off* or time tradeoff*).ti,ab.	418588
32	(disability adjusted life or daly).ti,ab.	4321
33	Health* year* equivalent*.ti,ab.	41
34	(sf36 or sf 36 or short form 36 or shortform 36 or sf thirtysix or sf thirty six or shortform thirtysix or shortform thirty six or short form thirtysix or short form thirty six or sf6 or sf 6 or short form 6 or shortform 6 or sf six or sfsix or shortform six or short form six or sf12 or sf 12 or short form 12 or shortform 12 or sf twelve or sftwelve or shortform twelve or short form twelve or sf16 or sf 16 or short form 16 or shortform 16 or sf	67009

	sixteen or sfsixteen or shortform sixteen or short form sixteen or sf20 or sf 20 or short form 20 or shortform 20 or sf twenty or sftwenty or shortform twenty or short form twenty or euroqol or euro qol or eq5d or eq 5d).ti,ab.	
35	or/26-34	1862917
36	((energy or oxygen) adj cost*) or (metabolic adj cost*) or ((energy or oxygen) adj expenditure*).ti,ab.	37139
37	35 not 36	1853536
38	8 and 37	524
39	16 and 37	1874
40	22 and 37	2920
41	25 and 37	53
42	or/38-41	4348
43	exp animal/ or exp animal-experiment/ or nonhuman/	26552893
44	(rat or rats or mouse or mice or hamster or hamsters or animal or animals or dog or dogs or cat or cats or bovine or sheep).ti,ab,sh.	5570742
45	exp human/ or human-experiment/	20229065
46	43 or 44	26694320
47	46 not (46 and 45)	6466131
48	42 not 47	4300
49	(letter or editorial).pt.	1723394
50	48 not 49	4111
51	(conference abstract or conference paper or conference proceeding or "conference review").pt.	4362571
52	50 not 51	3545
53	limit 52 to medline	357
54	52 not 53	3188

55	limit 54 to english language	3039
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29.3.4 Source: HTA<https://www.crd.york.ac.uk/CRDWeb/>

Search	Hits	
1	MeSH DESCRIPTOR Electronic Cigarettes	1
2	MeSH DESCRIPTOR Vaping	0
3	((ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS))	6
4	((electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)))	7
5	((((tobacco* or nicotin* or cigar* or cigs) adj3 (vapor* or vapour* or device* or inhalator* or inhaler*)))	15
6	((nicotin* and (ENDS or ANDS)))	1
7	((nicotin* adj3 deliver* system*))	2
8	#1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7	24
9	MeSH DESCRIPTOR Tobacco Use Cessation Products	25
10	((nrt or nicotine* or niquitin* or nicotinell* or nicassist*))	82
11	((nicotin* adj3 (replacement* or substitute* or gum* or inhaled* or inhaler* or inhalant* or inhalator* or spray* or lozenge* or tablet* or transdermal* or patch* or vaccin* or device* or gel* or pastil* or deliver* or sublingual* or therap* or treatment* or nasal* or microtab* or polacrillex* or product or products*)))	227
12	#9 OR #10 OR #11	247
13	MeSH DESCRIPTOR Varenicline	35
14	((varenicline* or champix* or chantix*))	72
15	MeSH DESCRIPTOR Bupropion	74
16	((bupropion* or zyban* or amfebutamone* or quomen* or wellbutrin* or zyntabac*))	188
17	#13 OR #14 OR #15 OR #16	212
18	((((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi)))	5

19	((polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*))	0
20	#18 OR #19	5
21	#8 OR #12 OR #17 OR #20	362
22	(#8 OR #12 OR #17 OR #20) IN HTA	50

CRD does not have MeSH 2019 and so the following terms are missing:

Nicotine Chewing Gum
Smoking cessation agents/

CRD does not have MeSH 2019 and so the following terms are still listed under previous versions:

Electronic Nicotine Delivery Systems/ - this is missing but it's under the old term electronic cigarettes

"tobacco use cessation devices"/ - this term is under the old name of "tobacco use cessation products" (which also covers the old term of electronic cigarettes).

Line 18 was simplified for this interface.

The numbers were small so it was run on all fields instead of having to run each free-text line twice for titles and abstracts.

29.3.5 Source: MEDLINEDatabase(s): **Ovid MEDLINE(R) ALL** 1946 to October 01, 2019

Search Strategy:

#	Searches	Results
1	Electronic Nicotine Delivery Systems/	2649
2	Vaping/	442
3	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).ti,ab.	3787
4	(electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).ti,ab.	2725
5	((tobacco* or nicotin* or cigar* or cigs) adj3 (vapor* or vapour* or device* or inhalator* or inhaler*)).ti,ab.	877
6	(nicotin* and (ENDS or ANDS)).ti,ab.	383
7	(nicotin* adj3 deliver* system*).ti,ab.	450
8	or/1-7	5547
9	Nicotine Chewing Gum/	15
10	"tobacco use cessation devices"/	1654
11	Smoking cessation agents/	75
12	(nrt or nicorette* or niquitin* or nicotinell* or nicassist*).ti,ab.	2015
13	(nicotin* adj3 (replacement* or substitute* or gum* or inhaled* or inhaler* or inhalant* or inhalator* or spray* or lozenge* or tablet* or transdermal* or patch* or vaccin* or device* or gel* or pastil* or deliver* or sublingual* or therap* or treatment* or nasal* or microtab* or polacrilex* or product or products*)).ti,ab.	10557
14	or/9-13	11979
15	Varenicline/	1211
16	(varenicline* or champix* or chantix*).ti,ab.	1652
17	Bupropion/	2955
18	(bupropion* or zyban* or amfebutamone* or quomen* or wellbutrin* or zyantabac*).ti,ab.	4181

19	or/15-18	5950
20	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*)).ti,ab.	472
21	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).ti,ab.	117
22	or/20-21	549
23	Economics/ or exp "Costs and Cost Analysis"/ or Economics, Dental/ or exp Economics, Hospital/ or exp Economics, Medical/ or Economics, Nursing/ or Economics, Pharmaceutical/ or Budgets/ or exp Models, Economic/ or Markov Chains/ or Monte Carlo Method/ or Decision Trees/	334822
24	(Economic* or cost or costs or costly or costing or costed or price or prices or pricing or pharmacoeconomic* or pharmaco economic* or budget*).ti,ab.	761659
25	((monte adj carlo) or markov or (decision adj2 (tree* or analys*))).ti,ab.	74594
26	(value adj2 (money or monetary)).ti,ab.	2239
27	Quality of Life/ or Health Status Indicators/ or Quality-Adjusted Life Years/ or Value of Life/	213291
28	(quality of life or quality adjusted life or qaly* or qald* or qale* or qtime* or quality of wellbeing or quality of well-being or willingness to pay or standard gamble* or time trade off* or time tradeoff*).ti,ab.	261464
29	(disability adjusted life or daly).ti,ab.	3393
30	health* year* equivalent*.ti,ab.	40
31	(sf36 or sf 36 or short form 36 or shortform 36 or sf thirtysix or sf thirty six or shortform thirtysix or shortform thirty six or short form thirtysix or short form thirty six).ti,ab.	24357
32	(sf6 or sf 6 or short form 6 or shortform 6 or sf six or sfsix or shortform six or short form six).ti,ab.	2029
33	(sf12 or sf 12 or short form 12 or shortform 12 or sf twelve or sftwelve or shortform twelve or short form twelve).ti,ab.	5399

34	(sf16 or sf 16 or short form 16 or shortform 16 or sf sixteen or sfsixteen or shortform sixteen or short form sixteen).ti,ab.	33
35	(sf20 or sf 20 or short form 20 or shortform 20 or sf twenty or sftwenty or shortform twenty or short form twenty).ti,ab.	395
36	(euroqol or euro qol or eq5d or eq 5d).ti,ab.	9923
37	or/23-36	1270592
38	((energy or oxygen) adj cost*) or (metabolic adj cost*) or ((energy or oxygen) adj expenditure*).ti,ab.	30087
39	37 not 38	1262283
40	8 and 39	317
41	14 and 39	807
42	19 and 39	523
43	22 and 39	35
44	or/40-43	1345
45	Animals/ not (Animals/ and Humans/)	4588200
46	44 not 45	1318
47	limit 46 to (letter or historical article or comment or editorial or news or case reports)	36
48	46 not 47	1282
49	limit 48 to english language	1225

29.3.6 Source: NHS EED<https://www.crd.york.ac.uk/CRDWeb/>

Search	Hits	
1	MeSH DESCRIPTOR Electronic Cigarettes	1
2	MeSH DESCRIPTOR Vaping	0
3	((ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS))	6
4	((electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)))	7
5	((((tobacco* or nicotin* or cigar* or cigs) adj3 (vapor* or vapour* or device* or inhalator* or inhaler*)))	15
6	((nicotin* and (ENDS or ANDS)))	1
7	((nicotin* adj3 deliver* system*))	2
8	#1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7	24
9	MeSH DESCRIPTOR Tobacco Use Cessation Products	25
10	((nrt or nicotine* or niquitin* or nicotinell* or nicassist*))	82
11	((nicotin* adj3 (replacement* or substitute* or gum* or inhaled* or inhaler* or inhalant* or inhalator* or spray* or lozenge* or tablet* or transdermal* or patch* or vaccin* or device* or gel* or pastil* or deliver* or sublingual* or therap* or treatment* or nasal* or microtab* or polacrillex* or product or products*)))	227
12	#9 OR #10 OR #11	247
13	MeSH DESCRIPTOR Varenicline	35
14	((varenicline* or champix* or chantix*))	72
15	MeSH DESCRIPTOR Bupropion	74
16	((bupropion* or zyban* or amfebutamone* or quomen* or wellbutrin* or zyntabac*))	188
17	#13 OR #14 OR #15 OR #16	212
18	((((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi)))	5

19	((polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*))	0
20	#18 OR #19	5
21	#8 OR #12 OR #17 OR #20	362
22	(#8 OR #12 OR #17 OR #20) IN NHSEED	99

CRD does not have MeSH 2019 and so the following terms are missing:

Nicotine Chewing Gum
Smoking cessation agents/

CRD does not have MeSH 2019 and so the following terms are still listed under previous versions:

Electronic Nicotine Delivery Systems/ - this is missing but it's under the old term electronic cigarettes

"tobacco use cessation devices"/ - this term is under the old name of "tobacco use cessation products" (which also covers the old term of electronic cigarettes).

Line 18 was simplified for this interface.

The numbers were small so it was run on all fields instead of having to run each free-text line twice for titles and abstracts.

There is the command "English:lp" but it did not seem to be working reliably e.g. it would have excluded the following article [The long-term cost-effectiveness of varenicline \(12-week standard course and 12 + 12-week extended course\) vs. other smoking cessation strategies in Canada](#)

29.4 Includes from previous NICE guidance

Cost effectiveness studies were identified from the evidence reviews for:

- PH1
- PH10
- PH45
- PH48
- NG92
- TA123
- TA39

29.4.1 PH1

Centre for Health Economics (2005) Rapid Review of the cost-effectiveness of brief interventions for smoking cessation

K:\2-Published Guidelines\PH1 smoking cessation\Health economics\ce_nice_111105cg3 (2).doc

Authors:	Akehurst, R. L. and J. Piercy (Reference No 08)
Title:	Cost-effectiveness of the use of transdermal Nicorette patches relative to GP counselling and nicotine gum in the prevention of smoking-related diseases
Journal:	British Journal of Medical Economics Vol. 7(1): 122.
Year:	1994 1995067230

Authors:	Cornuz, J., C. Pinget, et al. (Reference No 34)
Title:	Cost-effectiveness analysis of the first-line therapies for nicotine dependence.
Journal:	European Journal of Clinical Pharmacology 59(3): 201-206.
Year:	2003 12759795

Authors:	Cromwell, J., W. J. Bartosch, et al. (Reference No 37)
Title:	Cost-effectiveness of the clinical practice recommendations in the AHCPR guideline for smoking cessation. Agency for Health Care Policy and Research
Journal:	JAMA, 278(21): 1759-1766.
Year:	1997 9388153

Authors:	Feenstra et al (Reference No 140)
Title:	Cost-effectiveness of Face to Face Smoking Cessation Interventions
Journal:	Value in Health, 8:3, pp178-190

Year:	2005 15877590
Authors:	Fiscella, K. and P. Franks (Reference No 47)
Title:	Cost-effectiveness of the transdermal nicotine patch as an adjunct to physicians' smoking cessation counseling.
Journal:	JAMA: Journal of the American Medical Association Apr 24; 275(16): 1247-1251.
Year:	1996 8601956
Authors:	Gilbert et al (Reference No 140)
Title:	The cost effectiveness of pharmacological smoking cessation therapies in developing countries: a case study in the Seychelles
Journal:	Tobacco Control
Year:	2004 15175539
Authors:	Hughes, J. R., W. C. Wadland, et al. (Reference No 61)
Title:	Effect of cost on the self-administration and efficacy of nicotine gum: A preliminary study
Journal:	Preventive Medicine Vol. 20(4): 496.
Year:	1991 1908080
Authors:	Murphy, J. M., M. C. Mahoney, et al. (Reference No 83)
Title:	A randomized trial to promote pharmacotherapy use and smoking cessation in a Medicaid population (United States)
Journal:	Cancer Causes & Control Vol. 16(4): 382.
Year:	2005 15953979
Authors:	Oster, G., D. M. Huse, et al. (Reference No 85)
Title:	Cost effectiveness of nicotine gum as an adjunct to physician's advice against cigarette smoking
Journal:	JAMA, 256: 1315-1318.
Year:	1986 3091857
Authors:	Parrott, S., C. Godfrey, et al. (Reference No 86)
Title:	Guidance for commissioners on the cost effectiveness of smoking cessation interventions

Journal:	Thorax, 53 Suppl 5 Pt 2: S1-38.
Year:	1998 10226676

Authors:	Stapleton et al (Reference No 138)
Title:	Prescription of transdermal nicotine patches for smoking cessation in general practice : evaluation of cost-effectiveness
Journal:	Lancet
Year:	1999 10421303

Authors:	Wasley, M.A. et al (Reference No 124)
Title:	The Cost-Effectiveness of the Nicotine Patch for Smoking Cessation
Journal:	Preventative Medicine, 26, pp264-270
Year:	1997 9085397

Number = 12

Search strategy for MEDLINE

Database(s): **Ovid MEDLINE(R) ALL** 1946 to October 01, 2019

Search Strategy:

#	Searches	Results
1	("12759795" or "9388153" or "15877590" or "8601956" or "15175539" or "1908080" or "15953979" or "3091857" or "10226676" or "10421303" or "9085397").ui.	11

Search strategy for Embase

Database(s): **Embase** 1974 to 2019 October 01

Search Strategy:

#	Searches	Results
1	"1995067230".eu.	1

29.4.2 PH10

NIHR (2008) 'Cut down to quit' with nicotine replacement therapies in smoking cessation: a systematic review of effectiveness and economic analysis

K:\2-Published Guidelines\PH10 Smoking cessation\Evidence\Final versions for web

p35 The search for economic studies of CDTQ with NRT yielded, after electronic removal of duplicates, 321 citations. None satisfied the inclusion criteria; the most common reasons for exclusion of studies were that they did not consider CDTQ or did not specify that the population in receipt of the intervention were smokers unwilling or unable to quit in the short term. 18093448

YHEC (2007) Cost-Effectiveness of Interventions for Smoking Cessation
K:\2-Published Guidelines\PH10 Smoking cessation\Evidence\Final versions for web\Cost-Effectiveness Model - Aug 07.doc

Parrott S, Godfrey C, Raw M, West R, McNeill A. Guidance for commissioners on the cost effectiveness of smoking cessation interventions. Health Educational Authority. *Thorax*. 1998; 53 Suppl 5 Pt 2 1-38. 10226676

Godfrey C, Parrott S, Coleman T, Pound E. The cost-effectiveness of the English smoking treatment services: evidence from practice. *Addiction*. 2005; **100** (Suppl 2): 70-83. 15844290

Javitz HS, Swan GE, Zbikowski SM, Curry SJ, McAfee TA, Decker D, Patterson R, Jack LM. Return on investment of different combinations of bupropion SR dose and behavioral treatment for smoking cessation in a health care setting: An employer's perspective. *Value in Health*. 2004; **7** (5): 535-543. 15367249

McGhan WF Dix Smith M. Pharmacoeconomic analysis of smoking-cessation interventions. *Am J Health-Syst Pharm*. 1996; **53** 45-52 8719289

Cornuz J, Gilbert A, Pinget C, McDonald P, Slama K, Salto E, Paccaud F. Cost-effectiveness of pharmacotherapies for nicotine dependence in primary care settings: a multinational comparison. *Tobacco Control*. 2006; **15** (3): 152-9 16728744

Song F, Raftery J, Aveyard P, Hyde C, Barton P, Woolacott N. Cost-effectiveness of pharmacological interventions for smoking cessation: a literature review and a decision analytic analysis. *Medical Decision Making*. 2002; **22** (Supplement): S26-S37-12369228

Number = 7

Search strategy for MEDLINE

Database(s): **Ovid MEDLINE(R) ALL** 1946 to October 01, 2019

Search Strategy:

#	Searches	Results
1	("18093448" or "10226676" or "15844290" or "15367249" or "8719289" or "16728744" or "12369228").ui.	7

29.4.3 PH45

MAPI (2012) A rapid review of economic evidence on tobacco harm reduction strategies

K:\2-Published Guidelines\PH45 Tobacco Harm

Reduction\Evidence\Reviews\Review 5 Economics review and model

Marks, D.F., Sykes, C.M. 2002. Randomized controlled trial of cognitive behavioural therapy for smokers living in a deprived are of London: Outcome at one-year follow-up. *Psychology, Health and Medicine*, 7, (1) 17-24 2002068355

Wang D, Connock M, Barton P, Fry-Smith A, Aveyard P, Moore D. 'Cut down to quit' with nicotine replacement therapies in smoking cessation: a systematic review of effectiveness and economic analysis. HEALTH TECHNOL ASSESS 2008;12:iii-iv, ix.

Number = 2

Search strategy for MEDLINE

Database(s): **Ovid MEDLINE(R) ALL** 1946 to October 01, 2019
 Search Strategy:

#	Searches	Results
1	"18093448".ui.	1

Search strategy for Embase

Database(s): **Embase** 1974 to 2019 October 01
 Search Strategy:

#	Searches	Results
1	"2002068355".eu.	1

29.4.4 PH48

Matrix (2012) Smoking cessation in secondary care: cost-effectiveness review
 K:\2-Published Guidelines\PH48 Smoking cessation\Evidence\Reviews\Health Economics\NICESC2C Cost-effectiveness review draft final report pslo.doc

Bolin, K., Wilson, K., Benhaddi, H., de Nigris, E., Marbaix, S., Mork, A.-C., & Aubin, H.-J. (2009). Cost-effectiveness of varenicline compared with nicotine patches for smoking cessation--results from four European countries. *European Journal of Public Health, 19*(6), 650–654. 19491286

Number = 1

Search strategy for MEDLINE

Database(s): **Ovid MEDLINE(R) ALL** 1946 to October 01, 2019
 Search Strategy:

#	Searches	Results
1	"19491286".ui.	1

29.4.5 NG92

YHEC (2018) Smoking Cessation Interventions and Services
<https://www.nice.org.uk/guidance/ng92/evidence/economic-modelling-report-pdf-4790596573>

Annemans L, Marbaix S, Nackaerts K, Bartsch P. Cost-effectiveness of retreatment with varenicline after failure with or relapse after initial treatment for smoking cessation. *Prev Med Rep.* 2015;2:189-95. 26844072

Athanasakis K, Igoumenidis M, Karampli E, Vitsou E, Sykara G, Kyriopoulos J. Cost effectiveness of varenicline versus bupropion, nicotine-replacement therapy, and unaided cessation in Greece. *Clin Ther.* 2012;34(8):1803-14. 22818870

Bauld L, Boyd KA, Briggs AH, Chesterman J, Ferguson J, Judge K, et al. One-year outcomes and a cost-effectiveness analysis for smokers accessing group-based and pharmacy-led cessation services. *Nicotine Tob Res.* 2011;13(2):135-45. 21196451

Number = 3

Search strategy for MEDLINE

Database(s): **Ovid MEDLINE(R) ALL** 1946 to October 01, 2019
 Search Strategy:

#	Searches	Results
1	("26844072" or "22818870" or "21196451").ui.	3

29.4.6 TA123

Pfizer (2007) Varenicline. Single Technology Appraisal Submission
 H:\Appraisals\0 - Behav\TA123 - Smoking cessation - varenicline
 STA\Submissions\Manufacturers

p78 No studies involving a cost-effectiveness analysis of, or involving, varenicline were retrieved.

Number = 0

29.4.7 TA39

CRD (2001) A rapid and systematic review of the clinical and cost effectiveness of bupropion and nicotine replacement therapy (NRT) for smoking cessation

H:\Appraisals\0 - Behav\TA39 - Smoking cessation - bupropion and nicotine replacement therapy\Assessment Report\Assessment Report - Final Version (as issued to Cmmttee) 10 10 01.doc

Akehurst R, Piercy J. Cost-effectiveness of the use of Nicorette nasal spray to assist quitting smoking among heavy smokers. *Br J Med Econ* 1994;7(li):155-184. 25065893

Akehurst RL, Piercy J. Cost-effectiveness of the use of transdermal Nicorette patches relative to gP counselling and nicotine gum in the prevention of smoking related diseases. *British Journal of Medical Economics* 1994;7:115-122. 25065886

Crealey gE, McElnay JC, Maguire TA, O'Neill C. Costs and effects associated with a community pharmacy-based smoking-cessation programme. *Pharmacoeconomics* 1998;14(3):323-333. 10186470

Orme ME, Hogue SL, Kennedy LM, Paine AC, godfrey C. Development of the health and economic consequences of smoking interactive model. *Tob. Control* 2001;10:55-61. 11226362

Parry O, Kenicer M, Haw S, Richmonds R, Isles C. A 56-year-old arteriopath who is unable to stop smoking. *Coronary Health Care* 1998;2(4):215-20.

Cromwell J, Bartosch WJ, Fiore MC, Hasselblad V, Baker T. Cost-effectiveness of the clinical practice recommendations in the AHCPR guideline for smoking cessation. *Journal of the American Medical Association* 1997;278(21):1759-1766. 9388153

Halpern MT, Khan ZM, Young TL, Battista C. Economic model of sustained-release bupropion hydrochloride in health plan and work site smoking-cessation programs. *Am. J. Health-Syst. Pharm.* 2000;57(15):1421-1429. 10938982

Nielsen K, Fiore MC. Cost-benefit analysis of sustained-release bupropion, nicotine patch, or both for smoking cessation. *Preventive Medicine* 2000;30:209-216. 10684744

Curry SJ, grothaus LC, McAfee T, Pabiniak C. Use and cost effectiveness of smoking-cessation services under four insurance plans in a health maintenance organization. *The New England Journal of Medicine* 1998;339(10):673-679. 9725926

Number = 9

Search strategy for MEDLINE

Database(s): **Ovid MEDLINE(R) ALL** 1946 to October 02, 2019

Search Strategy:

#	Searches	Results
1	("10186470" or "11226362" or "9388153" or "10938982" or "10684744" or "9725926").ui.	6

Search strategy for Embase

Database(s): **Embase** 1974 to 2019 October 02

Search Strategy:

#	Searches	Results
1	("25065893" or "25065886").an.	2

9th item (Parry) added manually.

29.5 Search narrative

The effectiveness search for RQ6.1a was completed by Bristol University. Bristol's search strategy was available but it could not be readily adapted to this review. The effectiveness search for RQ6.1b was done by NICE but it could not be used in this CE review as it only covered e-cigs for harm reduction.

The review team said that this CE search should cover all of the interventions listed in the protocol/NMA. It was felt that the search could be kept simple by just listing the relevant interventions (with the filter). It would have been more precise to include terms for smoking cessation and harm reduction but it was decided not to use this option. Adding the smoking terms would have required some double counting of MeSH terms e.g. "smoking cessation devices" could be in both the NRT and the cessation set. Searching without the terms for cessation and harm reduction did not see a significant rise in volume e.g. from the prevention literature. The structure of the strategy would have been more complicated e.g. making sure varenicline was combined with cessation but not harm reduction terms.

The NMA also contained nodes for usual care, no treatment and placebo. A version of the search was tested with these specified in the strategy and this gave 5340 results in MEDLINE, instead of the 1220 results from the final version. The Bristol strategy had not specified these factors and they must have been retrieved as comparators to the named interventions. The current search would find e.g. NRT vs placebo, NRT vs usual care and NRT vs no treatment but it would not find placebo vs usual care or no treatment when that was not compared to anything else.

The final search was in the format and it was chosen for being simple and comprehensive:

(Ecigs OR NRT OR Varenicline OR Bupropion OR Polytobacco) AND CE Filter AND Limits

The most precise option was rejected for being more complicated to translate to the other sources:

((Ecigs OR NRT OR Varenicline OR Bupropion) AND Smoking Cessation) OR ((Ecigs OR NRT) AND Harm Reduction) OR Polytobacco) AND CE Filter AND Limits

A more sensitive search was rejected for the large volume of MEDLINE results it retrieved:

((Ecigs OR NRT OR Varenicline OR Bupropion OR Placebo OR No treatment OR Usual care) AND Smoking Cessation) OR ((Ecigs OR NRT OR Placebo OR No treatment OR Usual care) AND Harm Reduction) OR Polytobacco) AND CE Filter AND Limits

No date limit was applied. An English language limit was applied where available. This was to be consistent with the strategy for RQ6.1b. Bristol had applied a range of different date limits according to the intervention in question.

The term Amfebutamone is used instead of Bupropion in Embase and so the Emtree term and free-text term were added. The brand names for varenicline and bupropion these products were also added. These names were not in the earlier reviews and so

this strategy is more sensitive for these drugs than our other strategies. This would need to be updated when we rerun the other searches.

The intervention Cystine (Tabex) was included in some of the Bristol searches but it has not been included here as the protocol specifies that interventions unlicensed in the UK are out of scope.

The CE filter was the standard filter used by NICE (which already had the terms for excluding animal studies attached).

Note that HTA and NHS EED are not currently being updated:

- From 31 March 2018, the HTA database remains available, but CRD are no longer adding new records to it.
- Bibliographic records were published on NHS EED until 31st March 2015. Searches of MEDLINE, Embase, CINAHL, PsycINFO and PubMed were continued until the end of the 2014.

A shorter version was run in the CRD databases as some of the MeSH terms were not available through the CRD interface, as listed above.

No web searching was done for RQ6.1a or RQ6.1b and so there were no previous results to resift for the cost effectiveness review.

The process guide says to extract the relevant included publications from previous NICE guidance.

PH1 – stop smoking – superseded by NG92 but include

PH5 – workplace – not being updated - exclude

PH10 – stop smoking – superseded by NG92 but include

PH14 – prevention - exclude

PH23 – prevention – exclude

PH26 – pregnancy – exclude out of scope

PH39 – smokeless – exclude out of scope

PH45 – harm reduction - include

PH48 – secondary care - include

NG92 - include

TA123 – varenicline – include

TA39 – bupropion – superseded by PH10 but include

The included publications were manually identified in the report using the titles to judge if they were relevant interventions for this review. The bibliographic details were then added to EndNote using the MEDLINE or Embase records. They were marked as Previous Includes in the Name of Database field in EndNote.

30 Search for RQ7.1 (Effectiveness)

Done by Cochrane, not by NICE. Available separately.

31 Search for RQ7.1 (Cost effectiveness)

<p>Topic: Tobacco Portfolio</p> <p>Question details:</p> <p>Cost Effectiveness elements of:</p> <p>Which interventions are effective and cost effective for preventing a relapse in people who have recently quit smoking?</p>

31.1 Table of results

Search source	Date searched	Database Platform	Database segment or version
Campbell	17/09/2019	https://campbellcollaboration.org/library.html	19/09/2019
EconLit	17/09/2019	Ovid	Econlit 1886 to September 12, 2019
Embase	17/09/2019	Ovid	Embase 1974 to 2019 September 13
HTA	17/09/2019	CRD https://www.crd.york.ac.uk/CRDWeb/	Legacy – last updated 31 March 2018
MEDLINE	17/09/2019	Ovid	Ovid MEDLINE(R) ALL 1946 to September 13, 2019
NHS EED	17/09/2019	CRD https://www.crd.york.ac.uk/CRDWeb/	Legacy – last updated 31 March 2015
Websites	18/09/2019	New search conducted	-
Includes from PH10 and PH26	12/09/2019	Browsed original search results	-

Type	Search source	No. of records retrieved	Total Results	De-duplicated
Database	Campbell	0	3133	2439
	EconLit	19		
	Embase	1933		
	HTA	11		
	MEDLINE	1102		
	NHS EED	64		
Other source	Websites	0		
	Includes from PH10 and PH26	4		

31.2 Database strategy outline

(smoking cessation OR varenicline OR bupropion OR vaping OR NRT) AND

(relapse prevention OR treatment failure OR patient compliance)

AND CE filter

AND Limits

31.3 Database strategies

31.3.1 Source: Campbell Library

Just searched for single words – once in the keywords, and once in the title field. Used the words below. No truncation or nesting available on the website but used variations of each word (e.g. plurals).

smoking	bupropion
smoker	zyban
antismoking	varenicline
anti smoking	chamfix
anti-smoking	nicorette
exsmoker	niquitin
ex-smoker	nicotinell
"ex smoker"	nicassist
tobacco	waterpipe
nicotine	water pipe
cigar	dokha
cigarette	hooka
cigs	shisha
ecig	sheesha
e-cig	
e-voke	
juul	
vape	
vaping	
ENNDS	
bidi	
beedi	
kretek	
hand roll	
handroll	
rollies	

relapse

relapsing

recurrence

maintenance

secondary prevention

Only had one hit from all of those searches (conducted on 17 September 2019) but did not add it to the results as it is from LMIC.

Effectiveness of interventions for tobacco control in low- and middle-income countries: an evidence and gap map
<https://www.campbellcollaboration.org/library/intervention-effectiveness-tobacco-control-in-low-and-middle-income-countries.html>

31.3.2 Source: EconLitDatabase(s): **Econlit** 1886 to September 12, 2019

Search Strategy:

#	Searches	Results
1	((quit or quits or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or cut or cuts or cutting or abstain* or abstinen* or giv* up or discontinu*) adj3 (smoker* or smoking* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies or waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas)).ti,ab.	285
2	(antismok* or anti smok* or anti-smok* or exsmoker* or ex-smoker* or "ex smoker*").ti,ab.	131
3	(bupropion* or zyban* or amfebutamone* or varenicline* or champix*).ti,ab.	5
4	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).ti,ab.	29
5	(electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).ti,ab.	14
6	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*)).ti,ab.	0
7	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).ti,ab.	0
8	(nrt or nicotine* or niquitin* or nicotinell* or nicassist*).ti,ab.	9
9	(nicotin* adj3 (replacement* or substitut* or gum* or inhaled* or inhaler* or inhalant* or inhalator* or spray* or lozenge* or tablet* or transdermal* or patch* or vaccin* or device* or gel* or pastil* or deliver* or sublingual* or therap* or treatment* or nasal* or microtab* or polacrilex* or product or products*)).ti,ab.	33
10	or/1-9	427
11	((relapse* or relapsing* or recur*) adj3 (treatment* or intervention* or program* or maintain* or maintenance* or sustain* or unsustain* or prolong* or prevent* or minimis* or minimiz* or minimal* or partial* or limit* or reduc* or decreas* or extend* or extension* or avert* or avoid* or rate* or measur* or frequenc* or risk* or behavior* or smoker* or patient*)).ti,ab.	440

12	((quit or quits or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or cut or cuts or cutting or abstain* or abstinen* or giv* up) adj3 (maintain* or maintenance* or sustain* or prolong* or unsustain* or extend* or extension* or continuation* or continue* or continuing* or relapse* or relapsing* or recur*)).ti,ab.	112
13	((treatment* or intervention* or program* or patient* or smoker*) adj3 (fail* or unsuccess* or unsustain* or discontinu* or dropout* or "drop out*" or "drop-out*" or avert* or avoid* or maintain* or maintenance* or sustain* or prolong* or adher* or comply* or compliance* or complies* or continuation* or continue* or continuing* or extend* or extension* or incomplet* or partial*)).ti,ab.	2573
14	(second* adj2 prev*).ti,ab.	161
15	or/11-14	3263
16	10 and 15	19

31.3.3 Source: EmbaseDatabase(s): **Embase** 1974 to 2019 September 13

Search Strategy:

#	Searches	Results
1	smoking cessation/	56623
2	smoking cessation program/	3222
3	nicotine replacement therapy/	4947
4	nicotine gum/	2883
5	nicotine lozenge/	272
6	nicotine patch/	2054
7	nicotine vaccine/	299
8	Varenicline/	4267
9	Bupropion/ or Amfebutamone/	17897
10	electronic cigarette/	5165
11	vaping/	1044
12	((quit or quits or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or cut or cuts or cutting or abstain* or abstin* or giv* up or discontinu*) adj3 (smoker* or smoking* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies or waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas)).ti,ab.	47948
13	(antismok* or anti smok* or anti-smok* or exsmoker* or ex-smoker* or "ex smoker*").ti,ab.	9820
14	(bupropion* or zyban* or amfebutamone* or varenicline* or champix*).ti,ab.	7770
15	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).ti,ab.	4437
16	(electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).ti,ab.	3237
17	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*)).ti,ab.	500

18	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).ti,ab.	104
19	(nrt or nicorette* or niquitin* or nicotinell* or nicassist*).ti,ab.	2665
20	(nicotin* adj3 (replacement* or substitut* or gum* or inhaled* or inhaler* or inhalant* or inhalator* or spray* or lozenge* or tablet* or transdermal* or patch* or vaccin* or device* or gel* or pastil* or deliver* or sublingual* or therap* or treatment* or nasal* or microtab* or polacrilex* or product or products*).ti,ab.	13154
21	or/1-20	103145
22	treatment failure/	115443
23	recurrent disease/	171651
24	relapse/	142858
25	secondary prevention/	26975
26	patient compliance/	128579
27	medication compliance/	28419
28	((relapse* or relapsing* or recur*) adj3 (treatment* or intervention* or program* or maintain* or maintenance* or sustain* or unsustain* or prolong* or prevent* or minimis* or minimiz* or minimal* or partial* or limit* or reduc* or decreas* or extend* or extension* or avert* or avoid* or rate* or measur* or frequenc* or risk* or behavior* or smoker* or patient*).ti,ab.	416495
29	((quit or quits or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or cut or cuts or cutting or abstain* or abstin* or giv* up) adj3 (maintain* or maintenance* or sustain* or prolong* or unsustain* or extend* or extension* or continuation* or continue* or continuing* or relapse* or relapsing* or recur*).ti,ab.	11755
30	((treatment* or intervention* or program* or patient* or smoker*) adj3 (fail* or unsuccess* or unsustain* or discontinu* or dropout* or "drop out*" or "drop-out*" or avert* or avoid* or maintain* or maintenance* or sustain* or prolong* or adher* or comply* or compliance* or complies* or continuation* or continue* or continuing* or extend* or extension* or incomplet* or partial*).ti,ab.	698968

31	(second* adj2 prev*).ti,ab.	40045
32	or/22-31	1449375
33	21 and 32	15299
34	health-economics/ or exp economic-evaluation/ or exp health-care-cost/ or pharmacoeconomics/ or Monte Carlo Method/ or Decision Tree/	562881
35	(Economic* or cost or costs or costly or costing or costed or price or prices or pricing or pharmacoeconomic* or pharmaco economic* or budget*).ti,ab.	991340
36	((monte adj carlo) or markov or (decision adj2 (tree* or analys*))).ti,ab.	83737
37	(value adj2 (money or monetary)).ti,ab.	3083
38	Quality of Life/ or Quality Adjusted Life Year/ or Quality of Life Index/ or Short Form 36/ or Health Status/	570761
39	(quality of life or quality adjusted life or qaly* or qald* or qale* or qtime* or quality of wellbeing or quality of well-being or willingness to pay or standard gamble* or time trade off* or time tradeoff*).ti,ab.	416109
40	(disability adjusted life or daly).ti,ab.	4285
41	Health* year* equivalent*.ti,ab.	41
42	(sf36 or sf 36 or short form 36 or shortform 36 or sf thirtysix or sf thirty six or shortform thirtysix or shortform thirty six or short form thirtysix or short form thirty six or sf6 or sf 6 or short form 6 or shortform 6 or sf six or sfsix or shortform six or short form six or sf12 or sf 12 or short form 12 or shortform 12 or sf twelve or sftwelve or shortform twelve or short form twelve or sf16 or sf 16 or short form 16 or shortform 16 or sf sixteen or sfsixteen or shortform sixteen or short form sixteen or sf20 or sf 20 or short form 20 or shortform 20 or sf twenty or sftwenty or shortform twenty or short form twenty or euroqol or euro qol or eq5d or eq 5d).ti,ab.	66603
43	or/34-42	1854291
44	((energy or oxygen) adj cost*) or (metabolic adj cost*) or ((energy or oxygen) adj expenditure*).ti,ab.	36956
45	43 not 44	1844965

46	exp animal/ or exp animal-experiment/ or nonhuman/	26469663
47	(rat or rats or mouse or mice or hamster or hamsters or animal or animals or dog or dogs or cat or cats or bovine or sheep).ti,ab,sh.	5557444
48	exp human/ or human-experiment/	20162435
49	46 or 47	26610820
50	49 not (49 and 48)	6449261
51	45 not 50	1724551
52	33 and 51	2824
53	(letter or editorial).pt.	1719223
54	52 not 53	2748
55	(conference abstract or conference paper or conference proceeding or "conference review").pt.	4336055
56	54 not 55	2234
57	limit 56 to medline	301
58	56 not 57	1933

31.3.4 Source: HTA<https://www.crd.york.ac.uk/CRDWeb/>

1	MeSH DESCRIPTOR Tobacco Use Cessation	13
2	MeSH DESCRIPTOR Smoking Cessation	475
3	MeSH DESCRIPTOR Tobacco Use Cessation Products EXPLODE ALL TREES	25
4	MeSH DESCRIPTOR Varenicline	35
5	MeSH DESCRIPTOR Bupropion	74
6	MeSH DESCRIPTOR Vaping	0
7	((quit or quits or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or cut or cuts or cutting or abstain* or abstinen* or giv* up or discontinu*) adj3 (smoker* or smoking* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies or waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas)))	353
8	((antismok* or anti smok* or anti-smok* or exsmoker* or ex-smoker* or "ex smoker*"))	40
9	((bupropion* or zyban* or amfebutamone* or varenicline* or champix*))	212
10	((ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS))	6
11	((electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*))	7
12	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi))	5
13	((polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*))	0
14	((nrt or nicorette* or niquitin* or nicotinell* or nicassist*))	82
15	((nicotin* adj3 (replacement* or substitut* or gum* or inhaled* or inhaler* or inhalant* or inhalator* or spray* or lozenge* or tablet* or transdermal* or patch* or vaccin* or device* or gel* or pastil* or deliver* or sublingual* or therap* or treatment* or nasal* or microtab* or polacrilex* or product or products*))	227
16	#1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 OR #9 OR #10 OR #11 OR #12 OR #13 OR #14 OR #15	718
17	MeSH DESCRIPTOR Treatment Failure	290

18	MeSH DESCRIPTOR Recurrence	1134
19	MeSH DESCRIPTOR Secondary Prevention	441
20	MeSH DESCRIPTOR Patient Compliance EXPLODE ALL TREES	797
21	((relapse* or relapsing* or recur*) adj3 (treatment* or intervention* or program* or maintain* or maintenance* or sustain* or unsustain* or prolong* or prevent* or minimis* or minimiz* or minimal* or partial* or limit* or reduc* or decreas* or extend* or extension* or avert* or avoid* or rate* or measur* or frequenc* or risk* or behavio* or smoker* or patient*))	2138
22	((quit or quits or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or cut or cuts or cutting or abstain* or abstinen* or giv* up) adj3 (maintain* or maintenance* or sustain* or prolong* or unsustain* or extend* or extension* or continuation* or continue* or continuing* or relapse* or relapsing* or recur*))	72
23	((treatment* or intervention* or program* or patient* or smoker*) adj3 (fail* or unsuccess* or unsustain* or discontinu* or dropout* or "drop out*" or "drop-out*" or avert* or avoid* or maintain* or maintenance* or sustain* or prolong* or adher* or comply* or compliance* or complies* or continuation* or continue* or continuing* or extend* or extension* or incomplet* or partial*))	5295
24	((second* adj2 prev*))	1622
25	#17 OR #18 OR #19 OR #20 OR #21 OR #22 OR #23 OR #24	8913
26	#16 AND #25	162
27	(#16 AND #25) IN HTA	11

CRD does not have MeSH 2019 and so the following terms are missing

Smoking cessation agents/

Smokers/

Ex-smokers/

Electronic Nicotine Delivery Systems/

"Treatment Adherence and Compliance"/

exp "tobacco use cessation devices"/ - this term is under the old name of cessation products (which also covers the old term of electronic cigarettes).

Line 12 was simplified for this interface.

The numbers were small so it was run on all fields instead of having to run each free-text line twice for titles and abstracts.

31.3.5 Source: MEDLINEDatabase(s): **Ovid MEDLINE(R) ALL** 1946 to September 13, 2019

Search Strategy:

#	Searches	Results
1	"tobacco use cessation"/	1097
2	"smoking cessation"/	27188
3	Smoking cessation agents/	67
4	exp "tobacco use cessation devices"/	1645
5	Smokers/	1046
6	Ex-smokers/	25
7	Varenicline/	1206
8	Bupropion/	2947
9	Electronic Nicotine Delivery Systems/	2618
10	vaping/	420
11	((quit or quits or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or cut or cuts or cutting or abstain* or abstinen* or giv* up or discontinu*) adj3 (smoker* or smoking* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies or waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas)).ti,ab.	36494
12	(antismok* or anti smok* or anti-smok* or exsmoker* or ex-smoker* or "ex smoker*").ti,ab.	6111
13	(bupropion* or zyban* or amfebutamone* or varenicline* or champix*).ti,ab.	5262
14	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).ti,ab.	3718
15	(electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).ti,ab.	2688
16	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*)).ti,ab.	460

17	(polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*).ti,ab.	109
18	(nrt or nicorette* or niquitin* or nicotinell* or nicassist*).ti,ab.	2004
19	(nicotin* adj3 (replacement* or substitut* or gum* or inhaled* or inhaler* or inhalant* or inhalator* or spray* or lozenge* or tablet* or transdermal* or patch* or vaccin* or device* or gel* or pastil* or deliver* or sublingual* or therap* or treatment* or nasal* or microtab* or polacrilex* or product or products*).ti,ab.	10575
20	or/1-19	61869
21	Treatment Failure/	33684
22	recurrence/	177757
23	secondary prevention/	19382
24	"Treatment Adherence and Compliance"/	295
25	exp patient compliance/	72782
26	((relapse* or relapsing* or recur*) adj3 (treatment* or intervention* or program* or maintain* or maintenance* or sustain* or unsustain* or prolong* or prevent* or minimis* or minimiz* or minimal* or partial* or limit* or reduc* or decreas* or extend* or extension* or avert* or avoid* or rate* or measur* or frequenc* or risk* or behavio* or smoker* or patient*).ti,ab.	260394
27	((quit or quits or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or cut or cuts or cutting or abstain* or abstinen* or giv* up) adj3 (maintain* or maintenance* or sustain* or prolong* or unsustain* or extend* or extension* or continuation* or continue* or continuing* or relapse* or relapsing* or recur*).ti,ab.	8126
28	((treatment* or intervention* or program* or patient* or smoker*) adj3 (fail* or unsuccess* or unsustain* or discontinu* or dropout* or "drop out*" or "drop-out*" or avert* or avoid* or maintain* or maintenance* or sustain* or prolong* or adher* or comply* or compliance* or complies* or continuation* or continue* or continuing* or extend* or extension* or incomplet* or partial*).ti,ab.	438579
29	(second* adj2 prev*).ti,ab.	26041

30	or/21-29	893600
31	20 and 30	8259
32	Economics/ or exp "Costs and Cost Analysis"/ or Economics, Dental/ or exp Economics, Hospital/ or exp Economics, Medical/ or Economics, Nursing/ or Economics, Pharmaceutical/ or Budgets/ or exp Models, Economic/ or Markov Chains/ or Monte Carlo Method/ or Decision Trees/	333954
33	(Economic* or cost or costs or costly or costing or costed or price or prices or pricing or pharmacoeconomic* or pharmaco economic* or budget*).ti,ab.	758384
34	((monte adj carlo) or markov or (decision adj2 (tree* or analys*))).ti,ab.	74377
35	(value adj2 (money or monetary)).ti,ab.	2230
36	Quality of Life/ or Health Status Indicators/ or Quality-Adjusted Life Years/ or Value of Life/	212226
37	(quality of life or quality adjusted life or qaly* or qald* or qale* or qtime* or quality of wellbeing or quality of well-being or willingness to pay or standard gamble* or time trade off* or time tradeoff*).ti,ab.	260168
38	(disability adjusted life or daly).ti,ab.	3359
39	health* year* equivalent*.ti,ab.	40
40	(sf36 or sf 36 or short form 36 or shortform 36 or sf thirtysix or sf thirty six or shortform thirtysix or shortform thirty six or short form thirtysix or short form thirty six).ti,ab.	24282
41	(sf6 or sf 6 or short form 6 or shortform 6 or sf six or sfsix or shortform six or short form six).ti,ab.	2021
42	(sf12 or sf 12 or short form 12 or shortform 12 or sf twelve or sftwelve or shortform twelve or short form twelve).ti,ab.	5369
43	(sf16 or sf 16 or short form 16 or shortform 16 or sf sixteen or sfsixteen or shortform sixteen or short form sixteen).ti,ab.	33
44	(sf20 or sf 20 or short form 20 or shortform 20 or sf twenty or sftwenty or shortform twenty or short form twenty).ti,ab.	395
45	(euroqol or euro qol or eq5d or eq 5d).ti,ab.	9855

46	or/32-45	1265539
47	((energy or oxygen) adj cost*) or (metabolic adj cost*) or ((energy or oxygen) adj expenditure*).ti,ab.	30006
48	46 not 47	1257253
49	31 and 48	1115
50	Animals/ not (Animals/ and Humans/)	4582359
51	49 not 50	1115
52	limit 51 to (letter or historical article or comment or editorial or news or case reports)	13
53	51 not 52	1102

31.3.6 Source: NHS EED<https://www.crd.york.ac.uk/CRDWeb/>

1	MeSH DESCRIPTOR Tobacco Use Cessation	13
2	MeSH DESCRIPTOR Smoking Cessation	475
3	MeSH DESCRIPTOR Tobacco Use Cessation Products EXPLODE ALL TREES	25
4	MeSH DESCRIPTOR Varenicline	35
5	MeSH DESCRIPTOR Bupropion	74
6	MeSH DESCRIPTOR Vaping	0
7	((quit or quits or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or cut or cuts or cutting or abstain* or abstin* or giv* up or discontinu*) adj3 (smoker* or smoking* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or hand roll* or handroll* or rollies or waterpipe* or water pipe* or dokha or dokhas or hookah or hookahs or hooka or hookas or shisha or shishas or sheesha or sheeshas))	353
8	((antismok* or anti smok* or anti-smok* or exsmoker* or ex-smoker* or "ex smoker*"))	40
9	((bupropion* or zyban* or amfebutamone* or varenicline* or champix*))	212
10	((ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS))	6
11	((electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*))	7
12	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi))	5
13	((polytobacco* or poly tobacco* or poly-tobacco* or multitobacco* or multi tobacco* or multi-tobacco*))	0
14	((nrt or nicorette* or niquitin* or nicotinell* or nicassist*))	82
15	((nicotin* adj3 (replacement* or substitut* or gum* or inhaled* or inhaler* or inhalant* or inhalator* or spray* or lozenge* or tablet* or transdermal* or patch* or vaccin* or device* or gel* or pastil* or deliver* or sublingual* or therap* or treatment* or nasal* or microtab* or polacrilex* or product or products*))	227
16	#1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 OR #9 OR #10 OR #11 OR #12 OR #13 OR #14 OR #15	718
17	MeSH DESCRIPTOR Treatment Failure	290

18	MeSH DESCRIPTOR Recurrence	1134
19	MeSH DESCRIPTOR Secondary Prevention	441
20	MeSH DESCRIPTOR Patient Compliance EXPLODE ALL TREES	797
21	((relapse* or relapsing* or recur*) adj3 (treatment* or intervention* or program* or maintain* or maintenance* or sustain* or unsustain* or prolong* or prevent* or minimis* or minimiz* or minimal* or partial* or limit* or reduc* or decreas* or extend* or extension* or avert* or avoid* or rate* or measur* or frequenc* or risk* or behavio* or smoker* or patient*))	2138
22	((quit or quits or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or cut or cuts or cutting or abstain* or abstinen* or giv* up) adj3 (maintain* or maintenance* or sustain* or prolong* or unsustain* or extend* or extension* or continuation* or continue* or continuing* or relapse* or relapsing* or recur*))	72
23	((treatment* or intervention* or program* or patient* or smoker*) adj3 (fail* or unsuccess* or unsustain* or discontinu* or dropout* or "drop out*" or "drop-out*" or avert* or avoid* or maintain* or maintenance* or sustain* or prolong* or adher* or comply* or compliance* or complies* or continuation* or continue* or continuing* or extend* or extension* or incomplet* or partial*))	5295
24	((second* adj2 prev*))	1622
25	#17 OR #18 OR #19 OR #20 OR #21 OR #22 OR #23 OR #24	8913
26	#16 AND #25	162
27	(#16 AND #25) IN NHSEED	64

CRD does not have MeSH 2019 and so the following terms are missing

Smoking cessation agents/

Smokers/

Ex-smokers/

Electronic Nicotine Delivery Systems/

"Treatment Adherence and Compliance"/

exp "tobacco use cessation devices"/ - this term is under the old name of cessation products (which also covers the old term of electronic cigarettes).

Line 12 was simplified for this interface.

The numbers were small so it was run on all fields instead of having to run each free-text line twice for titles and abstracts.

31.4 Includes from PH10 and PH26

Cost effectiveness studies were identified from the evidence reviews for PH10 and PH26:

PH10

YHEC report on the model

Stapleton J. Cigarette Smoking Prevalence, Cessation and Relapse. *Statistical Methods in Medical Research*. 1998; **7** 187-203.

Mass Media

Brandon TH, Meade CD, Herzog TA, Chirikos TN, Webb MS, Cantor AB. Efficacy and cost-effectiveness of a minimal intervention to prevent smoking relapse: dismantling the effects of amount of content versus contact. *Journal of Consulting and Clinical Psychology*. 2004; **72** (5): 797-808

NHS Services

Severson HH, Andrews JA, Lichtenstein E, Wall M, Akers L. Reducing maternal smoking and relapse: long-term evaluation of a pediatric intervention. *Preventive Medicine*. 1997; 120-130.

Non-NHS Services

No included publications in the review

Workplace

None identified

PH26

Ruger, J. P., Weinstein, M. C., Hammond, S. K., Kearney, M. H. & Emmons, K. M. (2008) Cost-effectiveness of motivational interviewing for smoking cessation and relapse prevention among low-income pregnant women: a randomized controlled trial. *Value in Health*, **11**, 191-198.

PH48

Also checked the CE review for PH48

One of the included papers has relapse in the title but this is the Ruger 2008 paper from PH26.

It also mentions 2 systematic reviews that were used for citation searching, rather than being included papers. These were already in EndNote.

Coleman T et al. Relapse prevention in UK Stop Smoking Services: current practice, systematic reviews of effectiveness and cost-effectiveness analysis. *Health Technol Assess*. 2010 Oct;14(49):1-152, iii-iv.

Ruger JP, Emmons KM. Economic evaluations of smoking cessation and relapse prevention programs for pregnant women: a systematic review. *Value Health*. 2008 Mar-Apr;11(2):180-90

There are also 2 papers listed under 'excluded on full text' but these were already in EndNote.

MEDLINE strategy for downloading the 4 papers

Database(s): **Ovid MEDLINE(R)** 1946 to September 11, 2019

Search Strategy:

#	Searches	Results
---	----------	---------

1	("17854434" or "9654641" or "15482038" or "9010907").ui.	4
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31.5 Websites

31.5.1 Web searching

Search engine	
Name	Health Services/Technology Assessment Texts (HSTAT)
URL	https://www.ncbi.nlm.nih.gov/books/NBK16710
Date searched	19 September 2019
Search terms	<p>Books Advanced Search Builder https://www.ncbi.nlm.nih.gov/books</p> <p>1 Search smoking cessation[MeSH Terms] 824 2 Search "tobacco use cessation"[MeSH Terms] 348 3 Search Smoking cessation agents[MeSH Terms]824 4 Search tobacco use cessation devices[MeSH Terms] 0 5 Search Smokers[MeSH Terms] 0 6 Search Ex-smokers[MeSH Terms] 0 7 Search Varenicline[MeSH Terms] 1 8 Search Bupropion[MeSH Terms] 1 9 Search Electronic Nicotine Delivery Systems[MeSH Terms] 90 10 Search vaping[MeSH Terms] 90 11 Search (#1 or #2 or #3 or #4 or #5 or #6 or #7 or #8 or #9 or #10) 1160 12 Search Treatment Failure[MeSH Terms] 41 13 Search recurrence[MeSH Terms] 94 14 Search secondary prevention[MeSH Terms] 1516 15 Search ("Treatment Adherence[MeSH Terms] AND Compliance"[MeSH Terms]) 0 16 Search patient compliance[MeSH Terms] 441 17 Search (#12 or #13 or #14 or #15 or #16) 2092 18 Search (#11 and #17) 0 19 Search (smoker*[Title] OR smoking*[Title] OR tobacco*[Title] OR cigar*[Title] OR cigs[Title] OR bidi[Title] OR bidis[Title] OR beedi[Title] OR beedis[Title] OR kretek*[Title] OR hand roll*[Title] OR handroll*[Title] OR rollies[Title] OR waterpipe*[Title] OR water pipe*[Title] OR dokha[Title] OR dokhas[Title] OR hookah[Title] OR hookahs[Title] OR hooka[Title] OR hookas[Title] OR shisha[Title] OR shishas[Title] OR sheesha[Title] OR sheeshas[Title]) 2604 20 Search (antismok*[Title] OR anti smok*[Title] OR anti-smok*[Title] OR exsmoker*[Title] OR ex-smoker*[Title] OR "ex smoker"[Title]) 6 21 Search (bupropion*[Title] OR zyban*[Title] OR amfebutamone*[Title] OR varenicline*[Title] OR champix*[Title]) 51 22 Search (ecig*[Title] OR e-cig*[Title] OR e-voke*[Title] OR juul*[Title] OR vape*[Title] OR vaping*[Title] OR ENNDS[Title]) 130 23 Search (#21 or #22 or #23 or #24) 2645 24 Search (relapse*[Title] OR relapsing*[Title] OR recur*[Title]) 1754 25 Search (((quit[Title] OR quits[Title] OR quitting*[Title] OR stop[Title] OR stops*[Title] OR stopping*[Title] OR stopped*[Title] OR stoppage*[Title] OR cease[Title] OR ceases*[Title] OR ceasing*[Title] OR cessation*[Title] OR cut[Title] OR cuts[Title] OR cutting[Title] OR abstain*[Title] OR abstin*[Title] OR giv* up[Title] AND (maintain*[Title] OR maintenance*[Title] OR sustain*[Title] OR prolong*[Title] OR unsustain*[Title] OR extend*[Title] OR</p>

	<p>extension*[Title] OR continuation*[Title] OR continue*[Title] OR continuing*[Title]) 494</p> <p>26 Search (((treatment*[Title] OR intervention*[Title] OR program*[Title] OR patient*[Title] OR smoker*[Title] AND (fail*[Title] OR unsuccess*[Title] OR unsustain*[Title] OR discontinu*[Title] OR dropout*[Title] OR "drop out"*[Title] OR "drop-out"*[Title] OR avert*[Title] OR avoid*[Title] OR maintain*[Title] OR maintenance*[Title] OR sustain*[Title] OR prolong*[Title] OR adher*[Title] OR comply*[Title] OR compliance*[Title] OR complies*[Title] OR continuation*[Title] OR continue*[Title] OR continuing*[Title] OR extend*[Title] OR extension*[Title] OR incomplet*[Title] OR partial*[Title]))[Title]) 197</p> <p>27 Search (secondary[Title] AND prevention[Title]) 233</p> <p>28 Search (#24 or #25 or #26 or #27) 2623</p> <p>29 Search (#23 and #28) 20</p> <p>30 Search (#18 or #30) 20</p>
How the results were selected	Only selected documents if the title or abstract were directly relevant to the questions. Only one of the results was relevant and this was already in EndNote (Blyth 2015 for NIHR HTA).
Results	None unique that were not already in EndNote.

Search engine	
Name	NICE Evidence Search
URL	https://www.evidence.nhs.uk
Date searched	18 September 2019
Search terms	<p>“relapse prevention” smoking</p> <p>“relapse prevention” smoker</p> <p>“relapse prevention” tobacco</p> <p>“relapse prevention” cigarette</p> <p>“relapse prevention” vaping</p> <p>“preventing relapse” smoking</p> <p>“preventing relapse” smoker</p> <p>“preventing relapse” tobacco</p> <p>“preventing relapse” cigarette</p> <p>“preventing relapse” vaping</p> <p>relapsing smoking</p> <p>relapsing smoker</p> <p>relapsing tobacco</p>

	<p>relapsing cigarette</p> <p>relapsing vaping</p>
How the results were selected	<p>Only selected documents if the title or abstract were directly relevant to the questions. For each question, sorted by relevance and then reviewed all of the first 100 results. Then applied the filter for Economic Evaluations and reviewed on screen all of the results. Checked the results against EndNote so as not to add manually any duplicates.</p>
Results	<p>None unique that were not already in EndNote.</p>

31.5.2 Web browsing

Website	
Name	Action on Smoking and Health (ASH)
URL	http://ash.org.uk/home
Date searched	18 September 2019
Search terms (including any specific sections browsed)	Browsed briefings, reports, fact sheets, information. Also searched for “preventing relapse”, “relapse prevention”
Results	None specific to this question.

Website	
Name	Local Government Association
URL	https://www.local.gov.uk
Date searched	18 September 2019
Search terms (including any specific sections browsed)	Social care, health and integration https://www.local.gov.uk/publications?topic[2495]=2495 Case studies https://www.local.gov.uk/case-studies Searched for tobacco, smoking, cigarettes, smoker, relapse, relapsing.
Results	None specific to this question.

Website	
Name	National Centre for Smoking Cessation and Training
URL	http://www.ncsct.co.uk
Date searched	18 September 2019
Search terms (including any specific sections browsed)	Browsed sections on briefings, clinical tools, research resources.
Results	None specific to this question.

Website	
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Name	Northern Ireland Assembly
URL	http://www.niassembly.gov.uk/
Date searched	18 September 2019
Search terms (including any specific sections browsed)	Searched for tobacco, smoking, cigarettes, smoker, relapse, relapsing.
Results	None specific to this question.

Website	
Name	Public Health England
URL	https://www.gov.uk/government/organisations/public-health-england
Date searched	18 September 2019
Search terms (including any specific sections browsed)	Searched for tobacco, smoking, cigarettes, smoker, relapse, relapsing. https://www.gov.uk/government/organisations/latest?organisations%5B%5D=public-health-england Searched announcements for the same terms. https://www.gov.uk/government/announcements?departments%5B%5D=public-health-england
Results	None specific to this question.

Website	
Name	Royal College of Nursing
URL	https://www.rcn.org.uk
Date searched	18 September 2019
Search terms (including any specific sections browsed)	Searched main website and Publications for tobacco, smoking, cigarettes, smoker, relapse, relapsing Browsed the smoking page at https://www.rcn.org.uk/clinical-topics/public-health/smoking-cessation
Results	None specific to this question.

Website	
Name	Royal College of Physicians
URL	https://www.rcplondon.ac.uk
Date searched	18 September 2019
Search terms (including any specific sections browsed)	Browsed the public health section https://www.rcplondon.ac.uk/projects/rcp-policy-public-health And also the tags smoking and tobacco https://www.rcplondon.ac.uk/search/topic/smoking-and-tobacco
Results	None specific to this question.

Website	
Name	Scottish Government
URL	https://www.gov.scot
Date searched	18 September 2019
Search terms (including any specific sections browsed)	Searched for tobacco, smoking, cigarettes, smoker, relapse, relapsing in Publications. https://beta.gov.scot/publications Browsed the smoking pages https://www.gov.scot/Topics/Health/Services/Smoking https://www.gov.scot/policies/smoking/ Also used https://www.scotpho.org.uk/behaviour/tobacco-use/key-points/
Results	None specific to this question.

Website	
Name	UK Centre for Tobacco and Alcohol Studies
URL	http://ukctas.net/index.html
Date searched	18 September 2019
Search terms (including any specific)	Browsed What we do – policy, research, dissemination, health economics.

sections browsed)	
Results	None specific to this question.

Website	
Name	University of Bath Tobacco Control Research Group
URL	http://www.bath.ac.uk/health/research/tobacco-control/
Date searched	18 September 2019
Search terms (including any specific sections browsed)	Searched research outputs for relapse and relapsing.
Results	None specific to this question.

Website	
Name	University of Stirling Centre for Tobacco Control Research
URL	https://www.stir.ac.uk/about/faculties-and-services/health-sciences-sport/research/research-groups/centre-for-tobacco-control-research/publications
Date searched	18 September 2019
Search terms (including any specific sections browsed)	Browsed publications and projects – books, chapters and monographs.
Results	None specific to this question.

Website	
Name	Welsh Government
URL	https://gov.wales/?lang=en
Date searched	18 September 2019
Search terms (including any specific sections browsed)	Searched for tobacco, smoking, cigarettes, smoker, relapse, relapsing. Browsed Health and Social Services topic https://gov.wales/health-social-care

	Browsed smoking https://gov.wales/smoking
Results	None specific to this question.

Website	
Name	World Health Organization Europe
URL	http://www.euro.who.int/en/health-topics/disease-prevention/tobacco
Date searched	18 September 2019
Search terms (including any specific sections browsed)	Browsed the tobacco publications and evidence briefs. Searched for relapsed, relapsing.
Results	None specific to this question.

31.6 Search narrative

There was no effectiveness search that could be adopted for this CE question. NICE has not previously addressed relapse prevention directly (although it was covered as part of cessation in PH10, PH26 and PH48). The effectiveness search for this review was done by Cochrane and they have searched within the Tobacco Group registry rather than creating a search strategy.

The most recent edition of the Cochrane review (Livingstone-Banks J et al., 2019) has 5 included studies reported in 6 papers at low risk of bias. We identified 1 CE paper from PH26 and 3 from PH10. There were no additional unique papers from PH48. These papers were all used to test the subject parts of the search. The 4 CE papers were then used additionally to test the whole search strategy. All of the test papers were found by the relevant portions of the MEDLINE strategy.

The first set was focussed on smoking cessation and so the terms used in earlier reviews for smoking and harm reduction were removed. The Cochrane review itself is indexed with secondary prevention and so this was added to the search. The behavioural interventions mentioned in the protocol (such as group or online support) would need to be combined with terms for smoking or, tobacco to make them relevant. These terms were already included with terms for cessation and so it was not necessary to list the behavioural interventions as well. The term Amfebutamone is used instead of Bupropion in Embase and so the Emtree term and free-text term were added, which will need to be replicated across the updates for all reviews.

No English language limit was applied to be consistent with the Cochrane review. No date limit was applied to be consistent with the Cochrane review. We agreed to check with the effectiveness team if any non-English or pre-1998 papers were identified as includable in this CE review.

The CE filter was the standard filter used by NICE (which already had the terms for excluding animal studies attached).

Note that HTA and NHS EED are not currently being updated:

- From 31 March 2018, the HTA database remains available, but CRD are no longer adding new records to it.
- Bibliographic records were published on NHS EED until 31st March 2015. Searches of MEDLINE, Embase, CINAHL, PsycINFO and PubMed were continued until the end of the 2014.

A shorter version was run in the CRD databases as some of the MeSH terms were not available through the CRD interface, as listed above.

No website searches had been completed previously as Cochrane have done the effectiveness review. The websites were browsed or searched for this CE review. Results from websites were not added if they were already in EndNote as there was no value in manually adding duplicate records.

32 Search for RQ8.1 (Effectiveness)

<p>Topic: Tobacco Portfolio</p> <p>Question details:</p> <p>8.1a In those with mental health conditions, what is the effectiveness and cost effectiveness of tailored smoking cessation interventions?</p> <p>8.1b In those with mental health conditions, what is the effectiveness and cost effectiveness of tailored smoking harm reduction interventions?</p>

32.1 Table of database results

Database name	Date searched	Database Platform	Database segment or version
Applied Social Science Index and Abstracts (ASSIA)	07/08/20	ProQuest	1987 - current
British Nursing Index (BNI)	07/08/20	ProQuest	1994 - current
Cochrane Central Register of Controlled Trials (CENTRAL)	07/08/20	Wiley	Cochrane Central Register of Controlled Trials Issue 8 of 12, August 2020
Cochrane Database of Systematic Reviews (CDSR)	07/08/20	Wiley	Cochrane Database of Systematic Reviews Issue 8 of 12, August 2020
Cumulative Index to Nursing and Allied Literature (CINAHL)	07/08/20	EBSCOhost	1981-current
Embase	07/08/20	Ovid	Embase 1974 to 2020 August 06
Emcare	07/08/20	Ovid	Ovid Emcare 1995 to 2020 Week 31
Health Management Information Consortium (HMIC)	07/08/20	Ovid	HMIC Health Management Information Consortium 1979 to May 2020

MEDLINE ALL	07/08/20	Ovid	Ovid MEDLINE(R) ALL 1946 to August 06, 2020
PsycINFO	07/08/20	Ovid	APA PsycInfo 1806 to July Week 4 2020
Social Policy and Practice (SPP)	07/08/20	Ovid	Social Policy and Practice 202004

32.2 Full table of results

Search source	No. of records retrieved	Results	Total results	De-duplicated
Applied Social Science Index and Abstracts (ASSIA)	383	10737	11585	5363
British Nursing Index (BNI)	140			
Cochrane Central Register of Controlled Trials (CENTRAL)	1198			
Cochrane Database of Systematic Reviews (CDSR)	35			
Cumulative Index to Nursing and Allied Literature (CINAHL)	1246			
Embase	2296			
Emcare	1372			
Health Management Information Consortium (HMIC)	285			
MEDLINE ALL	1540			
PsycINFO	2079			
Social Policy and Practice (SPP)	163			
Reference harvesting	455			
Scoping searches	30			
Forward citation searching	334			
Websites	28			
Added after main search (CAB alerts)	1			

32.3 Database strategy outline

The principal search strategy was developed in MEDLINE and has the following structure:

(smoking cessation OR smoking reduction OR varenicline OR bupropion OR vaping OR NRT)

AND

(Mental Health Services OR Mental Illness OR Named Mental Disorders)

AND (RCTs OR SRs)

AND Limits

32.4 Database strategies

32.4.1 Database name: Applied Social Science Index and Abstracts (ASSIA)

Set#	Searched for	Results
S1	subject("Smoking cessation")	2857
S2	MAINSUBJECT.EXACT("Transdermal nicotine") OR MAINSUBJECT.EXACT("Nicotine patches") OR MAINSUBJECT.EXACT("Nicotine gum") OR MAINSUBJECT.EXACT("Nicotine replacement therapy")	378
S3	TI(antismok* or or exsmoker* or "ex smoker*" or "controlled smoking*" or ecig* or "e-cig*" or "e-voke*" or juul* or vape* or vaping* or ENNDS or polytobacco* or "poly tobacco*" or multitobacco* or "multi tobacco*" or nrt or nicotine* or niquitin* or nicotinell* or nicassist*)	329
S4	TI((quit* or stop* or cease* or cessation* or cut* or abstain* or abstinen* or discontinu* or prequit* or "pre quit*" or "cut* down*" or stopstart* or "stop start*" or "cold turkey*" or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz* or gradual* or withdraw* or substitut* or fading* or taper* or swap* or swop* or switch* or replace* or replacing*) AND (nicotin* or smok* or tobacco* or cigar* or cigs))	3531
S5	TI((bupropion* or zyban* or amfebutamone* or quomen* or wellbutrin* or zyantabac* or varenicline* or champix* or chantix*) AND (nicotin* or smok* or tobacco* or cigar* or cigs))	113
S6	TI(nicotin* AND (replacement* or substitut* or gum* or inhaled* or inhaler* or inhalant* or inhalator* or spray* or lozenge* or tablet* or transdermal* or patch* or vaccin* or device* or gel* or pastil* or deliver* or sublingual* or therap* or treatment* or nasal* or microtab* or polacrilex* or product or products*))	398
S7	S1 OR S2 OR S3 OR S4 OR S5 OR S6	5264
S8	subject("Mental disorders")	26914
S9	MAINSUBJECT.EXACT.EXPLODE("Psychiatric disorders")	87080
S10	subject("Mental health services")	13868
S11	TI(amnesi* or psychosis* or psychotic* or schizo* or agoraphobi* or anorexi* or bulimia* or bulimic* or pica or depress* or delirium* or dementia* or Alzheimer* or adhd or addh or ocd or paranoia* or autis* or asperger* or astheni* or neurastheni* or neurosis* or sociopath* or psychopath* or psychoses* or cyclothymi* or dysthymi* or "severe stress*" or "acute stress*" or PTSD* or	90497

	suicidal* or suicide* or parasuicid* or hypomani* or hysteria* or hallucinosis* or postencephaliti* or "post encephaliti*" or postconcussion* or "post concussion*" or "folie a deux*" or anankasti* or catatoni* or fugue* or oligophreni* or dyslexi* or hypochondriasis* or psychiatr* or trichotillomani* or psychastheni* or mania* or alexia* or automutilat* or alexithymi* or psychotrauma* or "psycho trauma*" or apraxi* or dyspraxi*)	
S12	s8 or s9 or s10 or s11	15813 9
S13	s7 and s12	397
S14	(s7 and s12) AND pd(19980101-20201231)	383
S15	(s7 and s12) AND (la.exact("ENG") AND pd(19980101-20201231))	383

32.4.2 Database name: British Nursing Index (BNI)

Set#	Searched for	Results
S1	MAINSUBJECT.EXACT("Smoking cessation")	1721
S2	MAINSUBJECT.EXACT("Electronic cigarettes")	423
S3	TI(antismok* or or exsmoker* or "ex smoker*" or "controlled smoking*" or ecig* or "e-cig*" or "e-voke*" or juul* or vape* or vaping* or ENNDS or polytobacco* or "poly tobacco*" or multitobacco* or "multi tobacco*" or nrt or nicorette* or niquitin* or nicotinell* or nicassist*)	189
S4	TI((quit* or stop* or cease* or cessation* or cut* or abstain* or abstinen* or discontinu* or prequit* or "pre quit*" or "cut* down*" or stopstart* or "stop start*" or "cold turkey*" or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz* or gradual* or withdraw* or substitut* or fading* or taper* or swap* or swop* or switch* or replace* or replacing*) AND (nicotin* or smok* or tobacco* or cigar* or cigs))	2133
S5	TI((bupropion* or zyban* or amfebutamone* or quomen* or wellbutrin* or zyantabac* or varenicline* or champix* or chantix*) AND (nicotin* or smok* or tobacco* or cigar* or cigs))	41
S6	TI(nicotin* AND (replacement* or substitut* or gum* or inhaled* or inhaler* or inhalant* or inhalator* or spray* or lozenge* or tablet* or transdermal* or patch* or vaccin* or device* or gel* or pastil* or deliver* or sublingual* or therap* or treatment* or nasal* or microtab* or polacrilex* or product or products*))	201
S7	S1 OR S2 OR S3 OR S4 OR S5 OR S6	3634
S8	subject("Psychiatric Patients")	2787
S9	subject("Mental disorders")	1717 6
S10	TI(amnesi* or psychosis* or psychotic* or schizo* or agoraphobi* or anorexi* or bulimia* or bulimic* or pica or depress* or delirium* or dementia* or Alzheimer* or adhd or addh or ocd or paranoia* or autis* or asperger* or astheni* or neurastheni* or neurosis* or sociopath* or psychopath* or psychoses* or cyclothymi* or dysthymi* or "severe stress*" or "acute stress*" or PTSD* or suicidal* or suicide* or parasuicid* or hypomani* or hysteria* or hallucinosis* or postencephaliti* or "post encephaliti*" or postconcussion* or "post concussion*" or "folie a deux*" or anankasti* or catatoni* or fugue* or oligophreni* or dyslexi* or hypochondriasis* or psychiatr* or trichotillomani* or psychastheni* or mania* or alexia* or automutilat* or alexithymi* or psychotrauma* or "psycho trauma*" or apraxi* or dyspraxi*)	3334 3

S11	S8 OR S9 OR S10	4796 0
S12	S7 AND S11	141
S13	(S7 AND S11) AND pd(19980101-20201231)	140
S14	((S7 AND S11) AND pd(19980101-20201231)) AND la.exact("ENG")	140

32.4.3 Database name: Cochrane Central Register of Controlled Trials (CENTRAL)

- #1 [mh ^"tobacco use cessation"] 98
- #2 [mh ^"smoking cessation"] 3977
- #3 [mh ^"Smoking cessation agents"] 35
- #4 [mh "tobacco use cessation devices"] 496
- #5 [mh ^"smoking reduction"] 13
- #6 [mh ^"Smokers"] 195
- #7 [mh ^"Ex-smokers"] 2
- #8 [mh ^"Electronic Nicotine Delivery Systems"] 110
- #9 [mh ^"vaping"] 36
- #10 ((quit or quits or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or cut or cuts or cutting or abstain* or abstinen* or (giv* NEXT up) or discontinu*) near/3 (nicotin* or smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or (hand NEXT roll*) or handroll* or rollies or (roll NEXT up*) or rollup* or waterpipe* or (water NEXT pipe*) or dokha* or hooka* or shisha* or sheesha* or sheeka*)):ti,ab 11001
- #11 ((prequit* or (pre NEXT quit*) or (cut* NEXT down*) or stopstart* or (stop* NEXT start*) or (cold NEXT turkey*) or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz* or gradual* or withdraw* or substitut* or fading* or taper* or swap* or swop* or switch* or replace* or replacing*) near/3 (nicotin* or smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or (hand NEXT roll*) or handroll* or rollies or (roll NEXT up*) or rollup* or waterpipe* or (water NEXT pipe*) or dokha* or hooka* or shisha* or sheesha* or sheeka*)):ti,ab 5779
- #12 ((harm* or risk*) near/1 (cut or cuts* or cutting* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz* or less* or lower* or small*) near/3 (nicotin* or smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or (hand NEXT roll*) or handroll* or rollies or (roll NEXT up*) or rollup* or waterpipe* or (water NEXT pipe*) or dokha* or hooka* or shisha* or sheesha* or sheeka*)):ti,ab 179
- #13 (antismok* or (anti NEXT smok*) or exsmoker* or (ex NEXT smoker*) or (controlled NEXT smoking*)):ti,ab 1127
- #14 (ecig* or e-cig* or "e-voke" or juul* or vape* or vaping* or ENNDS):ti,ab 566
- #15 (electronic* near/3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)):ti,ab 382
- #16 ((tobacco* or nicotin* or cigar* or cigs) near/3 (dual* or multiple* or multi) near/3 ("use" or uses or user* or usage* or using*)):ti,ab 45
- #17 (nicotin* and (ENDS or ANDS)):ti,ab 63
- #18 ((tobacco* or nicotin* or cigar* or cigs) near/3 (vapor* or vapour* or device* or inhalator* or inhaler*)):ti,ab 242
- #19 (nicotin* near/3 (deliver* NEXT system*)):ti,ab 74

- #20 (polytobacco* or (poly NEXT tobacco*) or multitobacco* or (multi NEXT tobacco*)):ti,ab 3
- #21 (nrt or nicotine* or niquitin* or nicotinell* or nicassist*):ti,ab 971
- #22 (nicotin* near/3 (replacement* or substitut* or gum* or inhaled* or inhaler* or inhalant* or inhalator* or spray* or lozenge* or tablet* or transdermal* or patch* or vaccin* or device* or gel* or pastil* or deliver* or sublingual* or therap* or treatment* or nasal* or microtab* or polacrilex* or product or products)):ti,ab 3956
- #23 {or #1-#22} 15208
- #24 [mh ^"Varenicline"] 521
- #25 [mh ^"Bupropion"] 814
- #26 #24 or #25 1267
- #27 [mh ^"tobacco use disorder"] 1665
- #28 [mh "Tobacco Smoking"] 161
- #29 #27 or #28 1810
- #30 #26 and #29 292
- #31 ((bupropion* or zyban* or amfebutamone* or quomen* or wellbutrin* or zyntabac* or varenicline* or champix* or chantix*) near/3 (smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or (hand NEXT roll*) or handroll* or rollies or (roll NEXT up*) or rollup* or waterpipe* or (water NEXT pipe*) or dokha* or hooka* or shisha* or sheesha* or sheeka*)):ti,ab 666
- #32 #23 or #30 or #31 15258
- #33 [mh ^"Mental Health Services"] 637
- #34 [mh ^"Community Mental Health Services"] 719
- #35 [mh ^"Community Mental Health Centers"] 116
- #36 [mh ^"Emergency Services, Psychiatric"]49
- #37 [mh ^"Social Work, Psychiatric"] 36
- #38 [mh ^"Psychiatric Department, Hospital"]99
- #39 [mh ^"Hospitals, Psychiatric"] 241
- #40 [mh ^"Psychiatric Nursing"] 187
- #41 [mh ^"Mental Health"] 1456
- #42 [mh ^"mental health recovery"] 7
- #43 [mh ^"Mentally Ill Persons"] 49
- #44 [mh ^"Mental Disorders"] 3651
- #45 [mh "Anxiety Disorders"]6771
- #46 [mh "Bipolar and Related Disorders"] 2659
- #47 [mh "Dissociative Disorders"] 135
- #48 [mh "Feeding and Eating Disorders"] 1580
- #49 [mh "Mood Disorders"] 12729
- #50 [mh "Neurotic Disorders"] 299
- #51 [mh "Personality Disorders"] 1355

- #52 [mh "Neurocognitive Disorders"] 10851
- #53 [mh "Schizophrenia Spectrum and Other Psychotic Disorders"] 9057
- #54 [mh ^"Schizophrenic Psychology"] 2075
- #55 [mh "Somatoform Disorders"] 691
- #56 [mh "Trauma and Stressor Related Disorders"] 2922
- #57 [mh "Attention Deficit and Disruptive Behavior Disorders"] 3064
- #58 [mh ^"Neurodevelopmental Disorders"] 117
- #59 [mh ^"Motor Skills Disorders"] 179
- #60 [mh "Autism Spectrum Disorder"] 1425
- #61 [mh "Stress, Psychological"] 5992
- #62 [mh ^"Depression"] 11987
- #63 [mh "Self-Injurious Behavior"] 1390
- #64 [mh ^"Disruptive, Impulse Control, and Conduct Disorders"] 111
- #65 [mh ^"Trichotillomania"] 73
- #66 [mh ^"Catatonia"] 18
- #67 [mh "Memory Disorders"] 1163
- #68 [mh "Confusion"] 874
- #69 [mh ^"Affective Symptoms"] 448
- #70 [mh "Dyslexia, Acquired"] 10
- #71 [mh "Psychomotor Disorders"] 1085
- #72 ((mental* or psychological*) near/2 (disturb* or distress* or stress* or disorder* or syndrome* or ill* or health or healthcare* or (health NEXT care*) or emergency* or inpatient* or "in patient*" or "in patients" or nursing* or hospital* or "secure unit" or "secure units" or service* or intervention* or patient* or condition* or specialist* or department* or (social NEXT work*) or (social NEXT care*) or service* or organisation* or organization* or disease* or recover*)):ti,ab 33335
- #73 ((mental* or psychological* or emotional* or affective*) near/2 (unstable* or instabilit* or labil* or symptom*)):ti,ab 3752
- #74 ((anxiety* or bipolar* or dissociat* or feeding* or eating* or mood* or neurotic* or personality* or neurocognitive* or psychotic* or somatoform* or somatisat* or somatizat* or neurodevelopmental* or (neuro NEXT developmental*) or trauma* or stress* or panic* or phobic* or phobia* or identity* or (binge NEXT eat*) or binging* or (food NEXT addiction*) or rumination* or appetite* or depressive* or affective* or cyclothymic* or dysthymic* or cognition* or cognitive* or huntington* or consciousness* or (attention NEXT deficit*) or hyperactiv* or overactive* or (over NEXT active*) or hyperkinetic* or conduct* or paranoid* or dysmorphi* or conversion* or behavior* or behaviour* or (post NEXT traumatic*) or posttraumatic* or rett* or delusion* or trance* or possessi* or obsessi* or compulsion* or compulsive* or adjustment* or (pervasive NEXT development*) or depersonali* or dereali* or disintegrativ* or hallucinati* or (motor NEXT skill*) or factitious* or munchausen* or (passive

NEXT aggressive*) or impulse* or impulsive* or disrupt* or distress* or Diogenes* or psychomotor* or memory* or confusion*) near/3 (disorder* or syndrome*)):ti,ab 46020

#75 (amnesi* or psychosis* or psychotic* or schizo* or agoraphobi* or anorexi* or bulimia* or bulimic* or pica or depress* or delirium* or dementia* or Alzheimer* or adhd or addh or ocd or paranoia* or autis* or asperger* or astheni* or neurastheni* or neurosis* or sociopath* or psychopath* or psychoses* or cyclothymi* or dysthymi* or (severe NEXT stress*) or (acute NEXT stress*) or PTSD* or suicidal* or suicide* or parasuicid* or hypomani* or hysteria* or hallucinosis* or postencephaliti* or (post NEXT encephaliti*) or postconcussion* or (post NEXT concussion*) or (folie NEAR/2 deux*) or anankasti* or catatoni* or fugue* or oligophreni* or dyslexi* or hypochondriasis* or psychiatr* or trichotillomani* or psychastheni* or mania* or alexia* or automutilat* or alexithymi* or psychotrauma* or (psycho NEXT trauma*) or apraxi* or dyspraxi*):ti,ab 138726

#76 (self* near/2 (harm* or injur* or mutilat*)):ti,ab 1132

#77 {or #33-#76} 180904

#78 #32 and #77 2231

#79 #32 and #77 in Trials 2196

#80 #32 and #77 with Publication Year from 1998 to 2020, in Trials 2097

#81 conference:pt 164535

#82 #80 not #81 1923

#83 (clinicaltrials or trialsearch):so 330303

#84 #82 not #83 1198

32.4.4 Database name: Cochrane Database of Systematic Reviews (CDSR)

- #1 [mh ^"tobacco use cessation"] 98
- #2 [mh ^"smoking cessation"] 3977
- #3 [mh ^"Smoking cessation agents"] 35
- #4 [mh "tobacco use cessation devices"] 496
- #5 [mh ^"smoking reduction"] 13
- #6 [mh ^"Smokers"] 195
- #7 [mh ^"Ex-smokers"] 2
- #8 [mh ^"Electronic Nicotine Delivery Systems"] 110
- #9 [mh ^"vaping"] 36
- #10 ((quit or quits or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or cut or cuts or cutting or abstain* or abstinen* or (giv* NEXT up) or discontinu*) near/3 (nicotin* or smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or (hand NEXT roll*) or handroll* or rollies or (roll NEXT up*) or rollup* or waterpipe* or (water NEXT pipe*) or dokha* or hooka* or shisha* or sheesha* or sheeka*)):ti,ab 11001
- #11 ((prequit* or (pre NEXT quit*) or (cut* NEXT down*) or stopstart* or (stop* NEXT start*) or (cold NEXT turkey*) or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz* or gradual* or withdraw* or substitut* or fading* or taper* or swap* or swop* or switch* or replace* or replacing*) near/3 (nicotin* or smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or (hand NEXT roll*) or handroll* or rollies or (roll NEXT up*) or rollup* or waterpipe* or (water NEXT pipe*) or dokha* or hooka* or shisha* or sheesha* or sheeka*)):ti,ab 5778
- #12 ((harm* or risk*) near/1 (cut or cuts* or cutting* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz* or less* or lower* or small*) near/3 (nicotin* or smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or (hand NEXT roll*) or handroll* or rollies or (roll NEXT up*) or rollup* or waterpipe* or (water NEXT pipe*) or dokha* or hooka* or shisha* or sheesha* or sheeka*)):ti,ab 179
- #13 (antismok* or (anti NEXT smok*) or exsmoker* or (ex NEXT smoker*) or (controlled NEXT smoking*)):ti,ab 1127
- #14 (ecig* or e-cig* or "e-voke" or juul* or vape* or vaping* or ENNDS):ti,ab 565
- #15 (electronic* near/3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)):ti,ab 382
- #16 ((tobacco* or nicotin* or cigar* or cigs) near/3 (dual* or multiple* or multi) near/3 ("use" or uses or user* or usage* or using*)):ti,ab 45
- #17 (nicotin* and (ENDS or ANDS)):ti,ab 63
- #18 ((tobacco* or nicotin* or cigar* or cigs) near/3 (vapor* or vapour* or device* or inhalator* or inhaler*)):ti,ab 242
- #19 (nicotin* near/3 (deliver* NEXT system*)):ti,ab 74

- #20 (polytobacco* or (poly NEXT tobacco*) or multitobacco* or (multi NEXT tobacco*)):ti,ab 3
- #21 (nrt or nicotine* or niquitin* or nicotinell* or nicassist*):ti,ab 970
- #22 (nicotin* near/3 (replacement* or substitut* or gum* or inhaled* or inhaler* or inhalant* or inhalator* or spray* or lozenge* or tablet* or transdermal* or patch* or vaccin* or device* or gel* or pastil* or deliver* or sublingual* or therap* or treatment* or nasal* or microtab* or polacrilex* or product or products)):ti,ab 3955
- #23 {or #1-#22} 15207
- #24 [mh ^"Varenicline"] 521
- #25 [mh ^"Bupropion"] 814
- #26 #24 or #25 1267
- #27 [mh ^"tobacco use disorder"] 1665
- #28 [mh "Tobacco Smoking"] 161
- #29 #27 or #28 1810
- #30 #26 and #29 292
- #31 ((bupropion* or zyban* or amfebutamone* or quomen* or wellbutrin* or zyntabac* or varenicline* or champix* or chantix*) near/3 (smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or (hand NEXT roll*) or handroll* or rollies or (roll NEXT up*) or rollup* or waterpipe* or (water NEXT pipe*) or dokha* or hooka* or shisha* or sheesha* or sheeka*)):ti,ab 666
- #32 #23 or #30 or #31 15257
- #33 [mh ^"Mental Health Services"] 637
- #34 [mh ^"Community Mental Health Services"] 719
- #35 [mh ^"Community Mental Health Centers"] 116
- #36 [mh ^"Emergency Services, Psychiatric"]49
- #37 [mh ^"Social Work, Psychiatric"] 36
- #38 [mh ^"Psychiatric Department, Hospital"]99
- #39 [mh ^"Hospitals, Psychiatric"] 241
- #40 [mh ^"Psychiatric Nursing"] 187
- #41 [mh ^"Mental Health"] 1456
- #42 [mh ^"mental health recovery"] 7
- #43 [mh ^"Mentally Ill Persons"] 49
- #44 [mh ^"Mental Disorders"] 3651
- #45 [mh "Anxiety Disorders"]6771
- #46 [mh "Bipolar and Related Disorders"] 2659
- #47 [mh "Dissociative Disorders"] 135
- #48 [mh "Feeding and Eating Disorders"] 1580
- #49 [mh "Mood Disorders"] 12729
- #50 [mh "Neurotic Disorders"] 299
- #51 [mh "Personality Disorders"] 1355

- #52 [mh "Neurocognitive Disorders"] 10851
- #53 [mh "Schizophrenia Spectrum and Other Psychotic Disorders"] 9057
- #54 [mh ^"Schizophrenic Psychology"] 2075
- #55 [mh "Somatoform Disorders"] 691
- #56 [mh "Trauma and Stressor Related Disorders"] 2922
- #57 [mh "Attention Deficit and Disruptive Behavior Disorders"] 3064
- #58 [mh ^"Neurodevelopmental Disorders"] 117
- #59 [mh ^"Motor Skills Disorders"] 179
- #60 [mh "Autism Spectrum Disorder"] 1425
- #61 [mh "Stress, Psychological"] 5992
- #62 [mh ^"Depression"] 11987
- #63 [mh "Self-Injurious Behavior"] 1390
- #64 [mh ^"Disruptive, Impulse Control, and Conduct Disorders"] 111
- #65 [mh ^"Trichotillomania"] 73
- #66 [mh ^"Catatonia"] 18
- #67 [mh "Memory Disorders"] 1163
- #68 [mh "Confusion"] 874
- #69 [mh ^"Affective Symptoms"] 448
- #70 [mh "Dyslexia, Acquired"] 10
- #71 [mh "Psychomotor Disorders"] 1085
- #72 ((mental* or psychological*) near/2 (disturb* or distress* or stress* or disorder* or syndrome* or ill* or health or healthcare* or (health NEXT care*) or emergency* or inpatient* or "in patient*" or "in patients" or nursing* or hospital* or "secure unit" or "secure units" or service* or intervention* or patient* or condition* or specialist* or department* or (social NEXT work*) or (social NEXT care*) or service* or organisation* or organization* or disease* or recover*)):ti,ab 33335
- #73 ((mental* or psychological* or emotional* or affective*) near/2 (unstable* or instabilit* or labil* or symptom*)):ti,ab 3752
- #74 ((anxiety* or bipolar* or dissociat* or feeding* or eating* or mood* or neurotic* or personality* or neurocognitive* or psychotic* or somatoform* or somatisat* or somatizat* or neurodevelopmental* or (neuro NEXT developmental*) or trauma* or stress* or panic* or phobic* or phobia* or identity* or (binge NEXT eat*) or binging* or (food NEXT addiction*) or rumination* or appetite* or depressive* or affective* or cyclothymic* or dysthymic* or cognition* or cognitive* or huntington* or consciousness* or (attention NEXT deficit*) or hyperactiv* or overactive* or (over NEXT active*) or hyperkinetic* or conduct* or paranoid* or dysmorphi* or conversion* or behavior* or behaviour* or (post NEXT traumatic*) or posttraumatic* or rett* or delusion* or trance* or possessi* or obsessi* or compulsion* or compulsive* or adjustment* or (pervasive NEXT development*) or depersonali* or dereali* or disintegrativ* or hallucinati* or (motor NEXT skill*) or factitious* or munchausen* or (passive

NEXT aggressive*) or impulse* or impulsive* or disrupt* or distress* or Diogenes* or psychomotor* or memory* or confusion*) near/3 (disorder* or syndrome*)):ti,ab 46020

#75 (amnesi* or psychosis* or psychotic* or schizo* or agoraphobi* or anorexi* or bulimia* or bulimic* or pica or depress* or delirium* or dementia* or Alzheimer* or adhd or addh or ocd or paranoia* or autis* or asperger* or astheni* or neurastheni* or neurosis* or sociopath* or psychopath* or psychoses* or cyclothymi* or dysthymi* or (severe NEXT stress*) or (acute NEXT stress*) or PTSD* or suicidal* or suicide* or parasuicid* or hypomani* or hysteria* or hallucinosis* or postencephaliti* or (post NEXT encephaliti*) or postconcussion* or (post NEXT concussion*) or (folie NEAR/2 deux*) or anankasti* or catatoni* or fugue* or oligophreni* or dyslexi* or hypochondriasis* or psychiatr* or trichotillomani* or psychastheni* or mania* or alexia* or automutilat* or alexithymi* or psychotrauma* or (psycho NEXT trauma*) or apraxi* or dyspraxi*):ti,ab 138726

#76 (self* near/2 (harm* or injur* or mutilat*)):ti,ab 1132

#77 {or #33-#76} 180904

#78 #32 and #77 2231

#79 #32 and #77 with Cochrane Library publication date Between Jan 1998 and Aug 2020, in Cochrane Reviews, Cochrane Protocols35

Cochrane Reviews
30

Cochrane Protocols
5

32.4.5 Database name: Cumulative Index to Nursing and Allied Literature (CINAHL)

S1	MH "Tobacco Use Cessation Products") OR (MH "Electronic Cigarettes") OR (MH "Nicotine Patch") OR (MH "Smoking Cessation Programs") OR (MH "Smoking Cessation") OR (MH "Vaping") OR (MH "Ex-Smokers")	24,448
S2	TI((quit or quits or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or cut or cuts or cutting or abstain* or abstin* or "giv* up" or discontinu*) N3 (nicotin* or smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or "hand roll*" or handroll* or rollies or "roll up*" or rollup* or waterpipe* or "water pipe*" or dokha* or hooka* or shisha* or sheesha* or sheeka*))	10,336
S3	AB((quit or quits or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or cut or cuts or cutting or abstain* or abstin* or "giv* up" or discontinu*) N3 (nicotin* or smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or "hand roll*" or handroll* or rollies or "roll up*" or rollup* or waterpipe* or "water pipe*" or dokha* or hooka* or shisha* or sheesha* or sheeka*))	16,787
S4	TI((prequit* or "pre quit*" or "cut* down*" or stopstart* or "stop start*" or "cold turkey*" or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz* or gradual* or withdraw* or substitut* or fading* or taper* or swap* or swop* or switch* or replace* or replacing*) N3 (nicotin* or smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or "hand roll*" or handroll* or rollies or "roll up*" or rollup* or waterpipe* or "water pipe*" or dokha* or hooka* or shisha* or sheesha* or sheeka*))	2,429
S5	AB((prequit* or "pre quit*" or "cut* down*" or stopstart* or "stop start*" or "cold turkey*" or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz* or gradual* or withdraw* or substitut* or fading* or taper* or swap* or swop* or switch* or replace* or replacing*) N3 (nicotin* or smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or "hand roll*" or handroll* or rollies or "roll up*" or rollup* or waterpipe* or "water pipe*" or dokha* or hooka* or shisha* or sheesha* or sheeka*))	10,901
S6	TI((harm* or risk*) N1 (cut or cuts* or cutting* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz* or less* or lower* or small*) N3 (nicotin* or smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or "hand roll*" or handroll* or rollies or "roll up*" or rollup* or waterpipe* or "water pipe*" or dokha* or hooka* or shisha* or sheesha* or sheeka*))	240
S7	AB((harm* or risk*) N1 (cut or cuts* or cutting* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz*	1,159

	or less* or lower* or small*) N3 (nicotin* or smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or "hand roll*" or handroll* or rollies or "roll up*" or rollup* or waterpipe* or "water pipe*" or dokha* or hooka* or shisha* or sheesha* or sheeka*))	
S8	TI(antismok* or "anti smok*" or exsmoker* or "ex smoker*" or "controlled smoking**")	518
S9	AB(antismok* or "anti smok*" or exsmoker* or "ex smoker*" or "controlled smoking**")	1,787
S10	TI(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS)	2,388
S11	AB(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS)	2,691
S12	TI(electronic* N3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*))	1,278
S13	AB(electronic* N3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*))	1,813
S14	TI((tobacco* or nicotin* or cigar* or cigs) N3 (vapor* or vapour* or device* or inhalator* or inhaler*))	131
S15	AB((tobacco* or nicotin* or cigar* or cigs) N3 (vapor* or vapour* or device* or inhalator* or inhaler*))	442
S16	TI(nicotin* and (ENDS or ANDS))	25
S17	AB(nicotin* and (ENDS or ANDS))	702
S18	TI(nicotin* N3 deliver* system*)	135
S19	AB(nicotin* N3 deliver* system*)	295
S20	TI((tobacco* or nicotin* or cigar* or cigs) N3 (dual* or multiple* or multi) N3 ("use" or uses or user* or usage* or using*))	127
S21	AB((tobacco* or nicotin* or cigar* or cigs) N3 (dual* or multiple* or multi) N3 ("use" or uses or user* or usage* or using*))	385
S22	TI(polytobacco* or "poly tobacco*" or multitobacco* or "multi tobacco**")	44
S23	AB(polytobacco* or "poly tobacco*" or multitobacco* or "multi tobacco**")	77
S24	TI(nrt or nicorette* or niquitin* or nicotinell* or nicassist*)	93
S25	AB(nrt or nicorette* or niquitin* or nicotinell* or nicassist*)	879
S26	TI(nicotin* N3 (replacement* or substitut* or gum* or inhaled* or inhaler* or inhalant* or inhalator* or spray* or lozenge* or tablet* or transdermal* or patch* or vaccin* or device* or gel* or	1,450

	pastil* or deliver* or sublingual* or therap* or treatment* or nasal* or microtab* or polacrilex* or product or products))	
S27	AB(nicotin* N3 (replacement* or substitut* or gum* or inhaled* or inhaler* or inhalant* or inhalator* or spray* or lozenge* or tablet* or transdermal* or patch* or vaccin* or device* or gel* or pastil* or deliver* or sublingual* or therap* or treatment* or nasal* or microtab* or polacrilex* or product or products))	3,426
S28	((((MH "Varenicline") OR (MH "Bupropion")) AND (MH "Smoking"))	455
S29	TI((bupropion* or zyban* or amfebutamone* or quomen* or wellbutrin* or zyantabac* or varenicline* or champix* or chantix*) N3 (smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or "hand roll*" or handroll* or rollies or "roll up*" or rollup* or waterpipe* or "water pipe*" or dokha* or hooka* or shisha* or sheesha* or sheeka*))	318
S30	AB((bupropion* or zyban* or amfebutamone* or quomen* or wellbutrin* or zyantabac* or varenicline* or champix* or chantix*) N3 (smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or "hand roll*" or handroll* or rollies or "roll up*" or rollup* or waterpipe* or "water pipe*" or dokha* or hooka* or shisha* or sheesha* or sheeka*))	432
S31	S1 OR S2 OR S3 OR S4 OR S5 OR S6 OR S7 OR S8 OR S9 OR S10 OR S11 OR S12 OR S13 OR S14 OR S15 OR S16 OR S17 OR S18 OR S19 OR S20 OR S21 OR S22 OR S23 OR S24 OR S25 OR S26 OR S27 OR S28 OR S29 OR S30	40,683
S32	(MH "Mental Health Services") OR (MH "Community Mental Health Services+") OR (MH "Emergency Services, Psychiatric") OR (MH "Social Work, Psychiatric") OR (MH "Community Mental Health Nursing") OR (MH "Hospitals, Psychiatric") OR (MH "Psychiatric Nursing") OR (MH "Mental Health Organizations") OR (MH "Mental Health") OR (MH "Psychiatric Patients+") OR (MH "Dementia Patients")	107,924
S33	(MH "Mental Disorders") OR (MH "Adjustment Disorders+") OR (MH "Mental Disorders, Chronic") OR (MH "Attention Deficit Hyperactivity Disorder") OR (MH "Motor Skills Disorders") OR (MH "Neurotic Disorders+") OR (MH "Organic Mental Disorders") OR (MH "Organic Mental Disorders, Psychotic+") OR (MH "Personality Disorders+") OR (MH "Psychotic Disorders+") OR (MH "Psychiatric Emergencies") OR (MH "Psychological Trauma+") OR (MH "Eating Disorders+") OR (MH "Psychological Trauma") OR (MH "Asperger Syndrome") OR (MH "Autistic Disorder") OR (MH "Rett Syndrome") OR (MH "Injuries, Self-Inflicted") OR (MH "Suicide+") OR (MH "Affective Symptoms") OR (MH "Depression") OR (MH "Emotional Lability") OR (MH "Catatonia") OR (MH "Amnesia") OR (MH "Delirium") OR (MH "Dementia") OR (MH "Alzheimer's Disease") OR (MH "Psychomotor Disorders") OR (MH "Apraxia+") OR (MH "Stress") OR (MH "Stress, Psychological") OR (MH "Memory Disorders+") OR (MH "Dyslexia, Pure	457,585

	(Acquired)") OR (MH "Confusion") OR (MH "Disruptive behavior")	
S34	TI((mental* or psychological*) N2 (disturb* or distress* or stress* or disorder* or syndrome* or ill* or health or healthcare* or "health care*" or emergency* or inpatient* or "in patient*" or nursing* or hospital* or "secure unit*" or service* or intervention* or patient* or condition* or specialist* or department* or "social work*" or "social care*" or service* or organisation* or organization* or disease* or recover*))	66,433
S35	AB((mental* or psychological*) N2 (disturb* or distress* or stress* or disorder* or syndrome* or ill* or health or healthcare* or "health care*" or emergency* or inpatient* or "in patient*" or nursing* or hospital* or "secure unit*" or service* or intervention* or patient* or condition* or specialist* or department* or "social work*" or "social care*" or service* or organisation* or organization* or disease* or recover*))	134,431
S36	TI((mental* or psychological* or emotional* or affective*) N2 (unstable* or instabilit* or labil* or symptom*))	1,909
S37	AB((mental* or psychological* or emotional* or affective*) N2 (unstable* or instabilit* or labil* or symptom*))	10,891
S38	TI((anxiety* or bipolar* or dissociat* or feeding* or eating* or mood* or neurotic* or personality* or neurocognitive* or psychotic* or somatoform* or somatisat* or somatizat* or neurodevelopmental* or "neuro developmental*" or trauma* or stress* or panic* or phobic* or phobia* or identity* or "binge eat*" or binging* or "food addiction*" or rumination* or appetite* or depressive* or affective* or cyclothymic* or dysthymic* or cognition* or cognitive* or huntington* or consciousness* or "attention deficit*" or hyperactiv* or overactive* or "over active*" or hyperkinetic* or conduct* or paranoid* or dysmorphi* or conversion* or behavior* or behaviour* or "post traumatic*" or posttraumatic* or rett* or delusion* or trance* or possessi* or obsessi* or compulsion* or compulsive* or adjustment* or "pervasive development*" or depersonali* or dereali* or disintegrativ* or hallucinati* or "motor skill*" or factitious* or munchausen* or "passive aggressive*" or impulse* or impulsive* or disrupt* or distress* or Diogenes* or psychomotor* or memory* or confusion*) N3 (disorder* or syndrome*))	51,353
S39	AB((anxiety* or bipolar* or dissociat* or feeding* or eating* or mood* or neurotic* or personality* or neurocognitive* or psychotic* or somatoform* or somatisat* or somatizat* or neurodevelopmental* or "neuro developmental*" or trauma* or stress* or panic* or phobic* or phobia* or identity* or "binge eat*" or binging* or "food addiction*" or rumination* or appetite* or depressive* or affective* or cyclothymic* or dysthymic* or cognition* or cognitive* or huntington* or consciousness* or "attention deficit*" or hyperactiv* or overactive* or "over active*" or hyperkinetic* or conduct* or paranoid* or dysmorphi* or conversion* or behavior* or behaviour* or "post traumatic*" or	88,431

	posttraumatic* or rett* or delusion* or trance* or possessi* or obsessi* or compulsion* or compulsive* or adjustment* or "pervasive development*" or depersonali* or dereali* or disintegrativ* or hallucinati* or "motor skill*" or factitious* or munchausen* or "passive aggressive*" or impulse* or impulsive* or disrupt* or distress* or Diogenes* or psychomotor* or memory* or confusion*) N3 (disorder* or syndrome*))	
S40	TI(amnesi* or psychosis* or psychotic* or schizo* or agoraphobi* or anorexi* or bulimia* or bulimic* or pica or depress* or delirium* or dementia* or Alzheimer* or adhd or addh or ocd or paranoia* or autis* or asperger* or astheni* or neurastheni* or neurosis* or sociopath* or psychopath* or psychoses* or cyclothymi* or dysthymi* or "severe stress*" or "acute stress*" or PTSD* or suicidal* or suicide* or parasuicid* or hypomani* or hysteria* or hallucinosis* or postencephaliti* or "post encephaliti*" or postconcussion* or "post concussion*" or "folie a deux*" or anankasti* or catatoni* or fugue* or oligophreni* or dyslexi* or hypochondriasis* or psychiatr* or trichotillomani* or psychastheni* or mania* or alexia* or automutilat* or alexithymi* or psychotrauma* or "psycho trauma*" or apraxi* or dyspraxi*)	236,02 2
S41	AB(amnesi* or psychosis* or psychotic* or schizo* or agoraphobi* or anorexi* or bulimia* or bulimic* or pica or depress* or delirium* or dementia* or Alzheimer* or adhd or addh or ocd or paranoia* or autis* or asperger* or astheni* or neurastheni* or neurosis* or sociopath* or psychopath* or psychoses* or cyclothymi* or dysthymi* or "severe stress*" or "acute stress*" or PTSD* or suicidal* or suicide* or parasuicid* or hypomani* or hysteria* or hallucinosis* or postencephaliti* or "post encephaliti*" or postconcussion* or "post concussion*" or "folie a deux*" or anankasti* or catatoni* or fugue* or oligophreni* or dyslexi* or hypochondriasis* or psychiatr* or trichotillomani* or psychastheni* or mania* or alexia* or automutilat* or alexithymi* or psychotrauma* or "psycho trauma*" or apraxi* or dyspraxi*)	301,45 2
S42	S32 OR S33 OR S34 OR S35 OR S36 OR S37 OR S38 OR S39 OR S40 OR S41	697,69 4
S43	S31 AND S42	4,705
S44	((MH "animals+") OR (MH "animal studies") OR TI(animal model*))	211,92 9
S45	(MH "human")	2,223,0 68
S46	S44 NOT S45	184,42 5
S47	S43 NOT S46	4,647

S48	TI(randomised OR randomized or trial)	139,613
S49	AB(random*)	313,176
S50	PT(randomized controlled trial)	120,869
S51	AB(control W5 group)	111,458
S52	(MH "randomized controlled trials") OR (MH "double-blind studies") OR (MH "single-blind studies") OR (MH "random assignment") OR (MH "pretest-posttest design") OR (MH "cluster sample") OR (MH "placebos") OR (MH "crossover design") OR (MH "comparative studies")	501,288
S53	MH("sample size") AND AB(assigned OR allocated OR control)	4,049
S54	S48 OR S49 OR S50 OR S51 OR S52 OR S53	773,795
S55	S47 AND S54	1,050
S56	TI(MEDLINE or pubmed or systematic review or intervention*)	155,077
S57	AB(MEDLINE or pubmed or systematic review)	106,522
S58	(MH "Systematic Review") OR (MH "Meta Analysis")	109,375
S59	S56 OR S57 OR S58	255,063
S60	S47 AND S59	412
S61	S55 OR S60	1,277
S62	S55 OR S60 Limiters - English Language	1,264
S63	S55 OR S60 Limiters - Published Date: 19980101-20201231; English Language	1,246

32.4.6 Database name: EmbaseDatabase(s): **Embase** 1974 to 2020 August 06

Search Strategy:

#	Searches	Results
1	smoking cessation/	59221
2	smoking cessation agent/	24
3	smoking cessation program/	3356
4	smoking reduction/	202
5	ex-smoker/	2250
6	nicotine replacement therapy/	5180
7	nicotine gum/	2930
8	nicotine lozenge/	295
9	nicotine patch/	2126
10	nicotine vaccine/	302
11	electronic cigarette/	6535
12	vaping/	2031
13	((quit or quits or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or cut or cuts or cutting or abstain* or abstinen* or "giv* up" or discontinu*) adj3 (nicotin* or smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or "hand roll*" or handroll* or rollies or "roll up*" or rollup* or waterpipe* or "water pipe*" or dokha* or hooka* or shisha* or sheesha* or sheeka*)).ti,ab.	51532
14	((prequit* or "pre quit*" or "cut* down*" or stopstart* or "stop start*" or "cold turkey*" or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz* or gradual* or withdraw* or substitut* or fading* or taper* or swap* or swop* or switch* or replace* or replacing*) adj3 (nicotin* or smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or "hand roll*" or handroll* or rollies or "roll up*" or rollup* or waterpipe* or "water pipe*" or dokha* or hooka* or shisha* or sheesha* or sheeka*)).ti,ab.	37729

15	((harm* or risk*) adj1 (cut or cuts* or cutting* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz* or less* or lower* or small*) adj3 (nicotin* or smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or "hand roll*" or handroll* or rollies or "roll up*" or rollup* or waterpipe* or "water pipe*" or dokha* or hooka* or shisha* or sheesha* or sheeka*)).ti,ab.	1837
16	(antismok* or "anti smok*" or exsmoker* or "ex smoker*" or "controlled smoking*").ti,ab.	10513
17	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).ti,ab.	6134
18	(electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).ti,ab.	4122
19	((tobacco* or nicotin* or cigar* or cigs) adj3 (vapor* or vapour* or device* or inhalator* or inhaler*)).ti,ab.	1316
20	(nicotin* and (ENDS or ANDS)).ti,ab.	570
21	(nicotin* adj3 deliver* system*).ti,ab.	703
22	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*)).ti,ab.	620
23	(polytobacco* or "poly tobacco*" or multitobacco* or "multi tobacco*").ti,ab.	133
24	(nrt or nicorette* or niquitin* or nicotinell* or nicassist*).ti,ab.	2874
25	(nicotin* adj3 (replacement* or substitut* or gum* or inhaled* or inhaler* or inhalant* or inhalator* or spray* or lozenge* or tablet* or transdermal* or patch* or vaccin* or device* or gel* or pastil* or deliver* or sublingual* or therap* or treatment* or nasal* or microtab* or polacrilex* or product or products)).ti,ab.	13989
26	or/1-25	115883
27	Varenicline/	4440
28	amfebutamone/	18325
29	27 or 28	20661
30	"tobacco use"/	10517
31	tobacco consumption/	2688

32	tobacco dependence/	20842
33	exp smoking/	387723
34	bidi smoking/	138
35	exp pipe smoking/	434
36	or/30-35	407018
37	29 and 36	4856
38	((bupropion* or zyban* or amfebutamone* or quomen* or wellbutrin* or zyntabac* or varenicline* or champix* or chantix*) adj3 (smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or "hand roll*" or handroll* or rollies or "roll up*" or rollup* or waterpipe* or "water pipe*" or dokha* or hooka* or shisha* or sheesha* or sheeka*)).ti,ab.	1236
39	26 or 37 or 38	116456
40	exp mental health care/	129048
41	mental health center/	5112
42	community mental health center/	2986
43	psychiatric emergency service/	204
44	psychiatric department/	7554
45	mental health/	138542
46	mental health organization/	327
47	mental health recovery/	335
48	mental patient/	26187
49	mental disease/	219690
50	exp anxiety disorder/	242559
51	exp bipolar disorder/	63484
52	exp dissociative disorder/	8742

53	exp eating disorder/	51547
54	exp mood disorder/	518198
55	exp neurosis/	52908
56	exp personality disorder/	59077
57	"disorders of higher cerebral function"/	1517
58	delirium/	26957
59	exp memory disorder/	76943
60	exp cognitive defect/	492195
61	exp alexia/	1355
62	exp schizophrenia spectrum disorder/	182794
63	exp somatoform disorder/	25639
64	attention deficit disorder/	61379
65	exp psychomotor disorder/	74896
66	exp autism/	70267
67	mental stress/	82056
68	automutilation/	18021
69	exp suicidal behavior/	101968
70	impulse control disorder/	3633
71	Trichotillomania/	2265
72	adjustment disorder/	3809
73	alexithymia/	3718
74	exp psychosis/	278198
75	psychotrauma/	8785

76	exp confusion/	30405
77	mental instability/	5313
78	((mental* or psychological*) adj2 (disturb* or distress* or stress* or disorder* or syndrome* or ill* or health or healthcare* or "health care*" or emergency* or inpatient* or "in patient*" or nursing* or hospital* or "secure unit*" or service* or intervention* or patient* or condition* or specialist* or department* or "social work*" or "social care*" or service* or organisation* or organization* or disease* or recover*)).ti,ab.	335292
79	((mental* or psychological* or emotional* or affective*) adj2 (unstable* or instabilit* or labil* or symptom*)).ti,ab.	30195
80	((anxiety* or bipolar* or dissociat* or feeding* or eating* or mood* or neurotic* or personality* or neurocognitive* or psychotic* or somatoform* or somatisat* or somatizat* or neurodevelopmental* or "neuro developmental*" or trauma* or stress* or panic* or phobic* or phobia* or identity* or "binge eat*" or binging* or "food addiction*" or rumination* or appetite* or depressive* or affective* or cyclothymic* or dysthymic* or cognition* or cognitive* or huntington* or consciousness* or "attention deficit*" or hyperactiv* or overactive* or "over active*" or hyperkinetic* or conduct* or paranoid* or dysmorphi* or conversion* or behavior* or behaviour* or "post traumatic*" or posttraumatic* or rett* or delusion* or trance* or possessi* or obsessi* or compulsion* or compulsive* or adjustment* or "pervasive development*" or depersonali* or dereali* or disintegrativ* or hallucinati* or "motor skill*" or factitious* or munchausen* or "passive aggressive*" or impulse* or impulsive* or disrupt* or distress* or Diogenes* or psychomotor* or memory*) adj3 (disorder* or syndrome*)).ti,ab.	446783
81	(amnesi* or psychosis* or psychotic* or schizo* or agoraphobi* or anorexi* or bulimia* or bulimic* or pica or depress* or delirium* or dementia* or Alzheimer* or adhd or addh or ocd or paranoia* or autis* or asperger* or astheni* or neurastheni* or neurosis* or sociopath* or psychopath* or psychoses* or cyclothymi* or dysthymi* or "severe stress*" or "acute stress*" or PTSD* or suicidal* or suicide* or parasuicid* or hypomani* or hysteria* or hallucinosis* or postencephaliti* or "post encephaliti*" or postconcussion* or "post concussion*" or "folie a deux*" or anankasti* or catatoni* or fugue* or oligophreni* or dyslexi* or hypochondriasis* or psychiatr* or trichotillomani* or psychastheni* or mania* or alexia* or automutilat* or alexithymi* or psychotrauma* or "psycho trauma*" or apraxi* or dyspraxi*).ti,ab.	1575137
82	(self* adj2 (harm* or injur* or mutilat*)).ti,ab.	16642

83	or/40-82	2512965
84	39 and 83	14195
85	nonhuman/ not (human/ and nonhuman/)	4668645
86	84 not 85	13393
87	(letter or editorial).pt.	1792459
88	86 not 87	12644
89	(conference abstract or conference paper or conference proceeding or "conference review").pt.	4614500
90	88 not 89	10214
91	limit 90 to medline	1723
92	90 not 91	8491
93	limit 92 to english language	8080
94	limit 93 to yr="1998 -Current"	7503
95	random:.tw.	1561935
96	placebo:.mp.	457518
97	double-blind:.tw.	211518
98	or/95-97	1817445
99	94 and 98	1891
100	(MEDLINE or pubmed).tw.	263811
101	exp systematic review/ or systematic review.tw.	306740
102	meta-analysis/	192942
103	Intervention*.ti.	201481
104	or/100-103	666098
105	94 and 104	730

106	99 or 105	2296
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32.4.7 Database name: EmcareDatabase(s): **Ovid Emcare** 1995 to 2020 Week 31

Search Strategy:

#	Searches	Results
1	smoking cessation/	25638
2	smoking cessation agent/	13
3	smoking cessation program/	2314
4	smoking reduction/	117
5	ex-smoker/	508
6	nicotine replacement therapy/	3018
7	nicotine gum/	1055
8	nicotine lozenge/	176
9	nicotine patch/	1356
10	nicotine vaccine/	79
11	electronic cigarette/	2441
12	vaping/	925
13	((quit or quits or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or cut or cuts or cutting or abstain* or abstinen* or "giv* up" or discontinu*) adj3 (nicotin* or smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or "hand roll*" or handroll* or rollies or "roll up*" or rollup* or waterpipe* or "water pipe*" or dokha* or hooka* or shisha* or sheesha* or sheeka*)).ti,ab.	21212
14	((prequit* or "pre quit*" or "cut* down*" or stopstart* or "stop start*" or "cold turkey*" or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz* or gradual* or withdraw* or substitut* or fading* or taper* or swap* or swop* or switch* or replace* or replacing*) adj3 (nicotin* or smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or "hand roll*" or handroll* or rollies or "roll up*" or rollup* or waterpipe* or "water pipe*" or dokha* or hooka* or shisha* or sheesha* or sheeka*)).ti,ab.	12702

15	((harm* or risk*) adj1 (cut or cuts* or cutting* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz* or less* or lower* or small*) adj3 (nicotin* or smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or "hand roll*" or handroll* or rollies or "roll up*" or rollup* or waterpipe* or "water pipe*" or dokha* or hooka* or shisha* or sheesha* or sheeka*)).ti,ab.	887
16	(antismok* or "anti smok*" or exsmoker* or "ex smoker*" or "controlled smoking*").ti,ab.	2559
17	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).ti,ab.	2976
18	(electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).ti,ab.	1942
19	((tobacco* or nicotin* or cigar* or cigs) adj3 (vapor* or vapour* or device* or inhalator* or inhaler*)).ti,ab.	473
20	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*)).ti,ab.	400
21	(nicotin* and (ENDS or ANDS)).ti,ab.	226
22	(nicotin* adj3 deliver* system*).ti,ab.	320
23	(polytobacco* or "poly tobacco*" or multitobacco* or "multi tobacco*").ti,ab.	106
24	(nrt or nicorette* or niquitin* or nicotinell* or nicassist*).ti,ab.	1064
25	(nicotin* adj3 (replacement* or substitut* or gum* or inhaled* or inhaler* or inhalant* or inhalator* or spray* or lozenge* or tablet* or transdermal* or patch* or vaccin* or device* or gel* or pastil* or deliver* or sublingual* or therap* or treatment* or nasal* or microtab* or polacrilex* or product or products)).ti,ab.	4434
26	or/1-25	41833
27	Varenicline/	1589
28	amfebutamone/	6095
29	27 or 28	6824
30	"tobacco use"/	4797
31	tobacco consumption/	1161

32	tobacco dependence/	8505
33	exp smoking/	118477
34	bidi smoking/	61
35	exp pipe smoking/	164
36	or/30-35	125783
37	29 and 36	2006
38	((bupropion* or zyban* or amfebutamone* or quomen* or wellbutrin* or zyntabac* or varenicline* or champix* or chantix*) adj3 (smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or "hand roll*" or handroll* or rollies or "roll up*" or rollup* or waterpipe* or "water pipe*" or dokha* or hooka* or shisha* or sheesha* or sheeka*)).ti,ab.	454
39	26 or 37 or 38	42022
40	exp mental health care/	55554
41	mental health center/	1839
42	community mental health center/	956
43	psychiatric emergency service/	72
44	psychiatric department/	2641
45	mental health/	90356
46	mental health organization/	335
47	mental health recovery/	215
48	mental patient/	9215
49	mental disease/	80089
50	exp anxiety disorder/	106133
51	exp bipolar disorder/	17122
52	exp dissociative disorder/	3533

53	exp eating disorder/	21854
54	exp mood disorder/	149145
55	exp neurosis/	15520
56	exp personality disorder/	20655
57	"disorders of higher cerebral function"/	564
58	delirium/	10894
59	exp memory disorder/	20299
60	exp cognitive defect/	140562
61	exp alexia/	363
62	exp schizophrenia spectrum disorder/	39865
63	exp somatoform disorder/	7660
64	attention deficit disorder/	20683
65	exp psychomotor disorder/	18366
66	exp autism/	28455
67	mental stress/	17781
68	automutilation/	7574
69	exp suicidal behavior/	39840
70	impulse control disorder/	986
71	Trichotillomania/	658
72	adjustment disorder/	1402
73	alexithymia/	1558
74	exp psychosis/	66411
75	psychotrauma/	3874

76	exp confusion/	8072
77	mental instability/	1978
78	((mental* or psychological*) adj2 (disturb* or distress* or stress* or disorder* or syndrome* or ill* or health or healthcare* or "health care*" or emergency* or inpatient* or "in patient*" or nursing* or hospital* or "secure unit*" or service* or intervention* or patient* or condition* or specialist* or department* or "social work*" or "social care*" or service* or organisation* or organization* or disease* or recover*).ti,ab.	155915
79	((mental* or psychological* or emotional* or affective*) adj2 (unstable* or instabilit* or labil* or symptom*).ti,ab.	12286
80	((anxiety* or bipolar* or dissociat* or feeding* or eating* or mood* or neurotic* or personality* or neurocognitive* or psychotic* or somatoform* or somatisat* or somatizat* or neurodevelopmental* or "neuro developmental*" or trauma* or stress* or panic* or phobic* or phobia* or identity* or "binge eat*" or binging* or "food addiction*" or rumination* or appetite* or depressive* or affective* or cyclothymic* or dysthymic* or cognition* or cognitive* or huntington* or consciousness* or "attention deficit*" or hyperactiv* or overactive* or "over active*" or hyperkinetic* or conduct* or paranoid* or dysmorphi* or conversion* or behavior* or behaviour* or "post traumatic*" or posttraumatic* or rett* or delusion* or trance* or possessi* or obsessi* or compulsion* or compulsive* or adjustment* or "pervasive development*" or depersonali* or dereali* or disintegrativ* or hallucinati* or "motor skill*" or factitious* or munchausen* or "passive aggressive*" or impulse* or impulsive* or disrupt* or distress* or Diogenes* or psychomotor* or memory*) adj3 (disorder* or syndrome*).ti,ab.	132006
81	(amnesi* or psychosis* or psychotic* or schizo* or agoraphobi* or anorexi* or bulimia* or bulimic* or pica or depress* or delirium* or dementia* or Alzheimer* or adhd or addh or ocd or paranoia* or autis* or asperger* or astheni* or neurastheni* or neurosis* or sociopath* or psychopath* or psychoses* or cyclothymi* or dysthymi* or "severe stress*" or "acute stress*" or PTSD* or suicidal* or suicide* or parasuicid* or hypomani* or hysteria* or hallucinosis* or postencephaliti* or "post encephaliti*" or postconcussion* or "post concussion*" or "folie a deux*" or anankasti* or catatoni* or fugue* or oligophreni* or dyslexi* or hypochondriasis* or psychiatr* or trichotillomani* or psychastheni* or mania* or alexia* or automutilat* or alexithymi* or psychotrauma* or "psycho trauma*" or apraxi* or dyspraxi*).ti,ab.	437609
82	(self* adj2 (harm* or injur* or mutilat*).ti,ab.	7507

83	or/40-82	746639
84	39 and 83	5594
85	nonhuman/ not (human/ and nonhuman/)	414025
86	84 not 85	5512
87	(letter or editorial).pt.	605128
88	86 not 87	5148
89	(conference abstract or conference paper or conference proceeding or "conference review").pt.	162959
90	88 not 89	5081
91	limit 90 to english language	4945
92	limit 91 to yr="1998 -Current"	4812
93	random:.tw.	455844
94	placebo:.mp.	114063
95	double-blind:.tw.	49932
96	or/93-95	513393
97	92 and 96	1095
98	(MEDLINE or pubmed).tw.	99681
99	exp systematic review/ or systematic review.tw.	129071
100	meta-analysis/	62888
101	intervention*.ti.	90663
102	or/98-101	264835
103	92 and 102	488
104	97 or 103	1372

32.4.8 Database name: Health Management Information Consortium (HMIC)

Database(s): **HMIC Health Management Information Consortium** 1979 to May 2020

Search Strategy:

#	Searches	Results
1	((quit or quits or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or cut or cuts or cutting or abstain* or abstinen* or "giv* up" or discontinu*) adj3 (nicotin* or smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or "hand roll*" or handroll* or rollies or "roll up*" or rollup* or waterpipe* or "water pipe*" or dokha* or hooka* or shisha* or sheesha* or sheeka*)).ti,ab.	1982
2	((quit or quits or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or cut or cuts or cutting or abstain* or abstinen* or "giv* up" or discontinu*) and (nicotin* or smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or "hand roll*" or handroll* or rollies or "roll up*" or rollup* or waterpipe* or "water pipe*" or dokha* or hooka* or shisha* or sheesha* or sheeka*)).hw.	1893
3	((prequit* or "pre quit*" or "cut* down*" or stopstart* or "stop start*" or "cold turkey*" or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz* or gradual* or withdraw* or substitut* or fading* or taper* or swap* or swop* or switch* or replace* or replacing*) adj3 (nicotin* or smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or "hand roll*" or handroll* or rollies or "roll up*" or rollup* or waterpipe* or "water pipe*" or dokha* or hooka* or shisha* or sheesha* or sheeka*)).ti,ab.	1112
4	((prequit* or "pre quit*" or "cut* down*" or stopstart* or "stop start*" or "cold turkey*" or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz* or gradual* or withdraw* or substitut* or fading* or taper* or swap* or swop* or switch* or replace* or replacing*) and (nicotin* or smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or "hand roll*" or handroll* or rollies or "roll up*" or rollup* or waterpipe* or "water pipe*" or dokha* or hooka* or shisha* or sheesha* or sheeka*)).hw.	218
5	((harm* or risk*) adj1 (cut or cuts* or cutting* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz* or less* or lower* or small*) adj3 (nicotin* or smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or "hand roll*" or	61

	handroll* or rollies or "roll up*" or rollup* or waterpipe* or "water pipe*" or dokha* or hooka* or shisha* or sheesha* or sheeka*).ti,ab.	
6	((harm* or risk*) and (cut or cuts* or cutting* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz* or less* or lower* or small*) and (nicotin* or smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or "hand roll*" or handroll* or rollies or "roll up*" or rollup* or waterpipe* or "water pipe*" or dokha* or hooka* or shisha* or sheesha* or sheeka*).hw.	27
7	(antismok* or "anti smok*" or exsmoker* or "ex smoker*" or "controlled smoking").ti,ab,hw.	468
8	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).ti,ab,hw.	84
9	(electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*).ti,ab.	56
10	(electronic* and (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*).hw.	0
11	((tobacco* or nicotin* or cigar* or cigs) adj3 (vapor* or vapour* or device* or inhalator* or inhaler*).ti,ab.	21
12	((tobacco* or nicotin* or cigar* or cigs) and (vapor* or vapour* or device* or inhalator* or inhaler*).hw.	1
13	(nicotin* and (ENDS or ANDS)).ti,ab.	4
14	(nicotin* and (ENDS or ANDS)).hw.	0
15	(nicotin* adj3 deliver* system*).ti,ab.	8
16	(nicotin* and deliver* system*).hw.	0
17	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*).ti,ab.	8
18	((tobacco* or nicotin* or cigar* or cigs) and (dual* or multiple* or multi) and ("use" or uses or user* or usage* or using*).hw.	0
19	(polytobacco* or "poly tobacco*" or multitobacco* or "multi tobacco*).ti,ab,hw.	0
20	(nrt or nicorette* or niquitin* or nicotinell* or nicassist*).ti,ab,hw.	123
21	(nicotin* adj3 (replacement* or substitut* or gum* or inhaled* or inhaler* or inhalant* or inhalator* or spray* or lozenge* or tablet* or transdermal* or patch* or vaccin* or	328

	device* or gel* or pastil* or deliver* or sublingual* or therap* or treatment* or nasal* or microtab* or polacrilex* or product or products)).ti,ab.	
22	(nicotin* and (replacement* or substitut* or gum* or inhaled* or inhaler* or inhalant* or inhalator* or spray* or lozenge* or tablet* or transdermal* or patch* or vaccin* or device* or gel* or pastil* or deliver* or sublingual* or therap* or treatment* or nasal* or microtab* or polacrilex* or product or products)).hw.	187
23	((bupropion* or zyban* or amfebutamone* or quomen* or wellbutrin* or zyntabac* or varenicline* or champix* or chantix*) adj3 (smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or "hand roll*" or handroll* or rollies or "roll up*" or rollup* or waterpipe* or "water pipe*" or dokha* or hooka* or shisha* or sheesha* or sheeka*)).ti,ab.	26
24	((bupropion* or zyban* or amfebutamone* or quomen* or wellbutrin* or zyntabac* or varenicline* or champix* or chantix*) and (smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or "hand roll*" or handroll* or rollies or "roll up*" or rollup* or waterpipe* or "water pipe*" or dokha* or hooka* or shisha* or sheesha* or sheeka*)).hw.	0
25	or/1-24	3410
26	((mental* or psychological*) adj2 (disturb* or distress* or stress* or disorder* or syndrome* or ill* or health or healthcare* or "health care*" or emergency* or inpatient* or "in patient*" or nursing* or hospital* or "secure unit*" or service* or intervention* or patient* or condition* or specialist* or department* or "social work*" or "social care*" or service* or organisation* or organization* or disease* or recover*)).ti,ab.	23509
27	((mental* or psychological*) and (disturb* or distress* or stress* or disorder* or syndrome* or ill* or health or healthcare* or "health care*" or emergency* or inpatient* or "in patient*" or nursing* or hospital* or "secure unit*" or service* or intervention* or patient* or condition* or specialist* or department* or "social work*" or "social care*" or service* or organisation* or organization* or disease* or recover*)).hw.	25678
28	((mental* or psychological* or emotional* or affective*) adj2 (unstable* or instabilit* or labil* or symptom*)).ti,ab.	347
29	((mental* or psychological* or emotional* or affective*) and (unstable* or instabilit* or labil* or symptom*)).hw.	400

30	<p>((anxiety* or bipolar* or dissociat* or feeding* or eating* or mood* or neurotic* or personality* or neurocognitive* or psychotic* or somatoform* or somatisat* or somatizat* or neurodevelopmental* or "neuro developmental*" or trauma* or stress* or panic* or phobic* or phobia* or identity* or "binge eat*" or binging* or "food addiction*" or rumination* or appetite* or depressive* or affective* or cyclothymic* or dysthymic* or cognition* or cognitive* or huntington* or consciousness* or "attention deficit*" or hyperactiv* or overactive* or "over active*" or hyperkinetic* or conduct* or paranoid* or dysmorphi* or conversion* or behavior* or behaviour* or "post traumatic*" or posttraumatic* or rett* or delusion* or trance* or possessi* or obsessi* or compulsion* or compulsive* or adjustment* or "pervasive development*" or depersonali* or dereali* or disintegrativ* or hallucinati* or "motor skill*" or factitious* or munchausen* or "passive aggressive*" or impulse* or impulsive* or disrupt* or distress* or Diogenes* or psychomotor* or memory* or confusion*) adj3 (disorder* or syndrome*)).ti,ab.</p>	2933
31	<p>((anxiety* or bipolar* or dissociat* or feeding* or eating* or mood* or neurotic* or personality* or neurocognitive* or psychotic* or somatoform* or somatisat* or somatizat* or neurodevelopmental* or "neuro developmental*" or trauma* or stress* or panic* or phobic* or phobia* or identity* or "binge eat*" or binging* or "food addiction*" or rumination* or appetite* or depressive* or affective* or cyclothymic* or dysthymic* or cognition* or cognitive* or huntington* or consciousness* or "attention deficit*" or hyperactiv* or overactive* or "over active*" or hyperkinetic* or conduct* or paranoid* or dysmorphi* or conversion* or behavior* or behaviour* or "post traumatic*" or posttraumatic* or rett* or delusion* or trance* or possessi* or obsessi* or compulsion* or compulsive* or adjustment* or "pervasive development*" or depersonali* or dereali* or disintegrativ* or hallucinati* or "motor skill*" or factitious* or munchausen* or "passive aggressive*" or impulse* or impulsive* or disrupt* or distress* or Diogenes* or psychomotor* or memory* or confusion*) and (disorder* or syndrome*)).hw.</p>	2290
32	<p>(amnesi* or psychosis* or psychotic* or schizo* or agoraphobi* or anorexi* or bulimia* or bulimic* or pica or depress* or delirium* or dementia* or Alzheimer* or adhd or addh or ocd or paranoia* or autis* or asperger* or astheni* or neurastheni* or neurosis* or sociopath* or psychopath* or psychoses* or cyclothymi* or dysthymi* or "severe stress*" or "acute stress*" or PTSD* or suicidal* or suicide* or parasuicid* or hypomani* or hysteria* or hallucinosis* or postencephaliti* or "post encephaliti*" or postconcussion* or "post concussion*" or "folie a deux*" or anankasti* or catatoni* or fugue* or oligophreni* or dyslexi* or hypochondriasis* or psychiatr* or trichotillomani* or psychastheni* or mania* or alexia* or automutilat* or alexithymi* or psychotrauma* or "psycho trauma*" or apraxi* or dyspraxi*).ti,ab,hw.</p>	21757

33	(self* adj2 (harm* or injur* or mutilat*)).ti,ab.	702
34	(self* and (harm* or injur* or mutilat*)).hw.	541
35	or/26-34	43593
36	25 and 35	296

The date limit was not working in HMIC, as it returned zero hits. The 296 results were downloaded in a RIS file, uploaded to EndNote, sorted on date, 11 papers from pre-1998 were removed and a new RIS file was exported for EPPI with the 285 remaining.

32.4.9 Database name: MEDLINE ALLDatabase(s): **Ovid MEDLINE(R) ALL** 1946 to August 06, 2020

Search Strategy:

#	Searches	Results
1	"tobacco use cessation"/	1167
2	"smoking cessation"/	28604
3	Smoking cessation agents/	158
4	exp "tobacco use cessation devices"/	1818
5	smoking reduction/	52
6	Smokers/	1874
7	Ex-smokers/	73
8	Electronic Nicotine Delivery Systems/	3449
9	vaping/	1035
10	((quit or quits or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or cut or cuts or cutting or abstain* or abstin* or "giv* up" or discontinu*) adj3 (nicotin* or smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or "hand roll*" or handroll* or rollies or "roll up*" or rollup* or waterpipe* or "water pipe*" or dokha* or hooka* or shisha* or sheesha* or sheeka*)).ti,ab.	39173
11	((prequit* or "pre quit*" or "cut* down*" or stopstart* or "stop start*" or "cold turkey*" or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz* or gradual* or withdraw* or substitut* or fading* or taper* or swap* or swop* or switch* or replace* or replacing*) adj3 (nicotin* or smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or "hand roll*" or handroll* or rollies or "roll up*" or rollup* or waterpipe* or "water pipe*" or dokha* or hooka* or shisha* or sheesha* or sheeka*)).ti,ab.	31185
12	((harm* or risk*) adj1 (cut or cuts* or cutting* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz* or less* or lower* or small*) adj3 (nicotin* or smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or "hand roll*" or handroll* or rollies or "roll up*" or rollup* or waterpipe* or "water pipe*" or dokha* or hooka* or shisha* or sheesha* or sheeka*)).ti,ab.	1537

13	(antismok* or "anti smok*" or exsmoker* or "ex smoker*" or "controlled smoking*").ti,ab.	6492
14	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).ti,ab.	5139
15	(electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).ti,ab.	3458
16	((tobacco* or nicotin* or cigar* or cigs) adj3 (vapor* or vapour* or device* or inhalator* or inhaler*)).ti,ab.	1007
17	(nicotin* and (ENDS or ANDS)).ti,ab.	496
18	(nicotin* adj3 deliver* system*).ti,ab.	609
19	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*)).ti,ab.	554
20	(polytobacco* or "poly tobacco*" or multitobacco* or "multi tobacco*").ti,ab.	137
21	(nrt or nicotine* or niquitin* or nicotinell* or nicassist*).ti,ab.	2174
22	(nicotin* adj3 (replacement* or substitut* or gum* or inhaled* or inhaler* or inhalant* or inhalator* or spray* or lozenge* or tablet* or transdermal* or patch* or vaccin* or device* or gel* or pastil* or deliver* or sublingual* or therap* or treatment* or nasal* or microtab* or polacrilex* or product or products)).ti,ab.	11304
23	or/1-22	80905
24	Varenicline/	1295
25	Bupropion/	3034
26	24 or 25	3969
27	"tobacco use disorder"/	11217
28	exp Tobacco Smoking/	3037
29	27 or 28	14033
30	26 and 29	641
31	((bupropion* or zyban* or amfebutamone* or quomen* or wellbutrin* or zyntabac* or varenicline* or champix* or chantix*) adj3 (smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or "hand roll*" or handroll* or rollies or "roll up*" or	871

	rollup* or waterpipe* or "water pipe*" or dokha* or hooka* or shisha* or sheesha* or sheeka*)),ti,ab.	
32	23 or 30 or 31	80939
33	Mental Health Services/	33884
34	Community Mental Health Services/	18536
35	Community Mental Health Centers/	2952
36	Emergency Services, Psychiatric/	2441
37	Social Work, Psychiatric/	2683
38	Psychiatric Department, Hospital/	6755
39	Hospitals, Psychiatric/	25213
40	Psychiatric Nursing/	17464
41	Mental Health/	38521
42	mental health recovery/	137
43	Mentally Ill Persons/	6160
44	Mental Disorders/	162600
45	exp Anxiety Disorders/	79359
46	exp "Bipolar and Related Disorders"/	40316
47	exp Dissociative Disorders/	4281
48	exp "Feeding and Eating Disorders"/	30651
49	exp Mood Disorders/	122096
50	exp Neurotic Disorders/	17977
51	exp Personality Disorders/	41314
52	exp Neurocognitive Disorders/	254287
53	exp "Schizophrenia Spectrum and Other Psychotic Disorders"/	147744

54	Schizophrenic Psychology/	33378
55	exp Somatoform Disorders/	19024
56	exp "Trauma and Stressor Related Disorders"/	40630
57	exp "Attention Deficit and Disruptive Behavior Disorders"/	32750
58	Neurodevelopmental Disorders/	2224
59	Motor Skills Disorders/	2890
60	exp Autism Spectrum Disorder/	30120
61	exp Stress, Psychological/	131360
62	Depression/	119264
63	exp Self-Injurious Behavior/	70830
64	"Disruptive, Impulse Control, and Conduct Disorders"/	2501
65	Trichotillomania/	973
66	Catatonia/	2483
67	exp Memory Disorders/	29538
68	exp Confusion/	14031
69	Affective Symptoms/	12975
70	exp Dyslexia, Acquired/	963
71	exp Psychomotor Disorders/	13522
72	((mental* or psychological*) adj2 (disturb* or distress* or stress* or disorder* or syndrome* or ill* or health or healthcare* or "health care*" or emergency* or inpatient* or "in patient*" or nursing* or hospital* or "secure unit*" or service* or intervention* or patient* or condition* or specialist* or department* or "social work*" or "social care*" or service* or organisation* or organization* or disease* or recover*)),ti,ab.	263867
73	((mental* or psychological* or emotional* or affective*) adj2 (unstable* or instabilit* or labil* or symptom*)),ti,ab.	21638

74	((anxiety* or bipolar* or dissociat* or feeding* or eating* or mood* or neurotic* or personality* or neurocognitive* or psychotic* or somatoform* or somatisat* or somatizat* or neurodevelopmental* or "neuro developmental*" or trauma* or stress* or panic* or phobic* or phobia* or identity* or "binge eat*" or binging* or "food addiction*" or rumination* or appetite* or depressive* or affective* or cyclothymic* or dysthymic* or cognition* or cognitive* or huntington* or consciousness* or "attention deficit*" or hyperactiv* or overactive* or "over active*" or hyperkinetic* or conduct* or paranoid* or dysmorphi* or conversion* or behavior* or behaviour* or "post traumatic*" or posttraumatic* or rett* or delusion* or trance* or possessi* or obsessi* or compulsion* or compulsive* or adjustment* or "pervasive development*" or depersonali* or dereali* or disintegrativ* or hallucinati* or "motor skill*" or factitious* or munchausen* or "passive aggressive*" or impulse* or impulsive* or disrupt* or distress* or Diogenes* or psychomotor* or memory* or confusion*) adj3 (disorder* or syndrome*).ti,ab.	326517
75	(amnesi* or psychosis* or psychotic* or schizo* or agoraphobi* or anorexi* or bulimia* or bulimic* or pica or depress* or delirium* or dementia* or Alzheimer* or adhd or addh or ocd or paranoia* or autis* or asperger* or astheni* or neurastheni* or neurosis* or sociopath* or psychopath* or psychoses* or cyclothymi* or dysthymi* or "severe stress*" or "acute stress*" or PTSD* or suicidal* or suicide* or parasuicid* or hypomani* or hysteria* or hallucinosis* or postencephaliti* or "post encephaliti*" or postconcussion* or "post concussion*" or "folie a deux*" or anankasti* or catatoni* or fugue* or oligophreni* or dyslexi* or hypochondriasis* or psychiat* or trichotillomani* or psychastheni* or mania* or alexia* or automutilat* or alexithymi* or psychotrauma* or "psycho trauma*" or apraxi* or dyspraxi*).ti,ab.	1207543
76	(self* adj2 (harm* or injur* or mutilat*).ti,ab.	13099
77	or/33-76	1831136
78	32 and 77	7814
79	Animals/ not (Animals/ and Humans/)	4690558
80	78 not 79	7223
81	limit 80 to (letter or historical article or comment or editorial or news or case reports)	514
82	80 not 81	6709
83	limit 82 to english language	6378

84	limit 83 to yr="1998 -Current"	5872
85	randomized controlled trial.pt.	510873
86	randomi?ed.mp.	889148
87	placebo.mp.	216829
88	or/85-87	948401
89	84 and 88	1260
90	(MEDLINE or pubmed).tw.	209385
91	systematic review.tw.	160063
92	systematic review.pt.	132436
93	meta-analysis.pt.	118058
94	intervention*.ti.	150338
95	or/90-94	467414
96	84 and 95	541
97	89 or 96	1540

32.4.10 Database name: PsycINFODatabase(s): **APA PsycInfo** 1806 to July Week 4 2020

Search Strategy:

#	Searches	Results
1	smoking cessation/	13245
2	electronic cigarettes/	1409
3	((quit or quits or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or cut or cuts or cutting or abstain* or abstin* or "giv* up" or discontinu*) adj3 (nicotin* or smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or "hand roll*" or handroll* or rollies or "roll up*" or rollup* or waterpipe* or "water pipe*" or dokha* or hooka* or shisha* or sheesha* or sheeka*)).ti,ab.	16763
4	((prequit* or "pre quit*" or "cut* down*" or stopstart* or "stop start*" or "cold turkey*" or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz* or gradual* or withdraw* or substitut* or fading* or taper* or swap* or swop* or switch* or replace* or replacing*) adj3 (nicotin* or smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or "hand roll*" or handroll* or rollies or "roll up*" or rollup* or waterpipe* or "water pipe*" or dokha* or hooka* or shisha* or sheesha* or sheeka*)).ti,ab.	11052
5	((harm* or risk*) adj1 (cut or cuts* or cutting* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz* or less* or lower* or small*) adj3 (nicotin* or smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or "hand roll*" or handroll* or rollies or "roll up*" or rollup* or waterpipe* or "water pipe*" or dokha* or hooka* or shisha* or sheesha* or sheeka*)).ti,ab.	633
6	(antismok* or "anti smok*" or exsmoker* or "ex smoker*" or "controlled smoking*").ti,ab.	1881
7	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).ti,ab.	1827
8	(electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).ti,ab.	1128
9	((tobacco* or nicotin* or cigar* or cigs) adj3 (vapor* or vapour* or device* or inhalator* or inhaler*)).ti,ab.	304
10	(nicotin* and (ENDS or ANDS)).ti,ab.	159
11	(nicotin* adj3 deliver* system*).ti,ab.	212

12	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*)).ti,ab.	312
13	(polytobacco* or "poly tobacco*" or multitobacco* or "multi tobacco*").ti,ab.	87
14	(nrt or nicotine* or niquitin* or nicotinell* or nicassist*).ti,ab.	896
15	(nicotin* adj3 (replacement* or substitut* or gum* or inhaled* or inhaler* or inhalant* or inhalator* or spray* or lozenge* or tablet* or transdermal* or patch* or vaccin* or device* or gel* or pastil* or deliver* or sublingual* or therap* or treatment* or nasal* or microtab* or polacrilex* or product or products)).ti,ab.	4772
16	((bupropion* or zyban* or amfebutamone* or quomen* or wellbutrin* or zyantabac* or varenicline* or champix* or chantix*) adj3 (smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or "hand roll*" or handroll* or rollies or "roll up*" or rollup* or waterpipe* or "water pipe*" or dokha* or hooka* or shisha* or sheesha* or sheeka*)).ti,ab.	456
17	or/1-16	27294
18	exp mental health services/	41861
19	community mental health centers/	2801
20	exp psychiatric hospitals/	9661
21	psychiatric nurses/	3381
22	Psychiatric Social Workers/	205
23	Psychiatric Hospital Staff/	1134
24	exp mental health programs/	10764
25	exp psychiatric hospital programs/	4656
26	exp Psychiatric Hospitalization/	10366
27	Psychiatric Clinics/	1609
28	mental health/	65961
29	psychiatric patients/	28664

30	mental disorders/	84691
31	exp anxiety disorders/	54098
32	exp bipolar disorder/	30597
33	exp dissociative disorders/	5281
34	exp eating disorders/	30979
35	exp affective disorders/	144059
36	exp neurosis/	7703
37	exp personality disorders/	27151
38	exp neurocognitive disorders/	90808
39	exp schizophrenia/	91008
40	exp somatoform disorders/	15334
41	exp "stress and trauma related disorders"/	34710
42	exp disruptive behavior disorders/	5864
43	Neurodevelopmental Disorders/	2546
44	exp autism spectrum disorders/	43966
45	rett syndrome/	885
46	psychological stress/	8908
47	exp self-injurious behavior/	6093
48	exp suicide/	34725
49	conduct disorder/	4384
50	exp impulse control disorders/	1125
51	trichotillomania/	925
52	catatonia/	1344

53	exp memory disorders/	10026
54	mental confusion/	984
55	exp alexia/	7169
56	Dyspraxia/	894
57	Psychomotor Development/	696
58	movement disorders/	3344
59	exp Apraxia/	1807
60	alexithymia/	2971
61	delirium/	3355
62	exp psychosis/	116775
63	exp chronic mental illness/	1887
64	emotional instability/	515
65	((mental* or psychological*) adj2 (disturb* or distress* or stress* or disorder* or syndrome* or ill* or health or healthcare* or "health care*" or emergency* or inpatient* or "in patient*" or nursing* or hospital* or "secure unit*" or service* or intervention* or patient* or condition* or specialist* or department* or "social work*" or "social care*" or service* or organisation* or organization* or disease* or recover*)).ti,ab.	308315
66	((mental* or psychological* or emotional* or affective*) adj2 (unstable* or instabilit* or labil* or symptom*)).ti,ab.	22038
67	((anxiety* or bipolar* or dissociat* or feeding* or eating* or mood* or neurotic* or personality* or neurocognitive* or psychotic* or somatoform* or somatisat* or somatizat* or neurodevelopmental* or "neuro developmental*" or trauma* or stress* or panic* or phobic* or phobia* or identity* or "binge eat*" or binging* or "food addiction*" or rumination* or appetite* or depressive* or affective* or cyclothymic* or dysthymic* or cognition* or cognitive* or huntington* or consciousness* or "attention deficit*" or hyperactiv* or overactive* or "over active*" or hyperkinetic* or conduct* or paranoid* or dysmorphi* or conversion* or behavior* or behaviour* or "post traumatic*" or posttraumatic* or rett* or delusion* or trance* or possessi* or obsessi* or compulsion* or compulsive* or adjustment* or "pervasive development*" or depersonali* or dereali*	292003

	or disintegrativ* or hallucinati* or "motor skill*" or factitious* or munchausen* or "passive aggressive*" or impulse* or impulsive* or disrupt* or distress* or Diogenes* or psychomotor* or memory* or confusion*) adj3 (disorder* or syndrome*).ti,ab.	
68	(amnesi* or psychosis* or psychotic* or schizo* or agoraphobi* or anorexi* or bulimia* or bulimic* or pica or depress* or delirium* or dementia* or Alzheimer* or adhd or addh or ocd or paranoia* or autis* or asperger* or astheni* or neurastheni* or neurosis* or sociopath* or psychopath* or psychoses* or cyclothymi* or dysthymi* or "severe stress*" or "acute stress*" or PTSD* or suicidal* or suicide* or parasuicid* or hypomani* or hysteria* or hallucinosis* or postencephaliti* or "post encephaliti*" or postconcussion* or "post concussion*" or "folie a deux*" or anankasti* or catatoni* or fugue* or oligophreni* or dyslexi* or hypochondriasis* or psychiatr* or trichotillomani* or psychastheni* or mania* or alexia* or automutilat* or alexithymi* or psychotrauma* or "psycho trauma*" or apraxi* or dyspraxi*).ti,ab.	904310
69	(self* adj2 (harm* or injur* or mutilat*).ti,ab.	13263
70	or/18-69	1204173
71	17 and 70	4994
72	limit 71 to ("column/opinion" or editorial or letter)	153
73	71 not 72	4841
74	limit 73 to english language	4603
75	limit 74 to yr="1998 -Current"	4189
76	exp Randomized Controlled Trials/	635
77	Placebo/	5670
78	(control* or random*).tw.	808419
79	(clinical* adj3 (trial* or stud*).tw.	67339
80	placebo*.tw.	40753
81	((singl* or doubl* or trebl* or tripl*) adj (blind* or mask*).tw.	26291
82	(crossover* or (cross adj over*).tw.	10440
83	or/76-82	864029

84	75 and 83	1738
85	Meta Analysis/	4737
86	Systematic Review/	387
87	effectiveness*.tw.	161601
88	(search* or handsearch* or medline or pubmed).tw.	105431
89	(meta-analysis* or metaanaly* or metanaly* or (meta adj3 analy*)).tw.	38697
90	(review* or overview* or intervention*).ti.	230151
91	(systematic* adj5 (review* or overview*)).tw.	35735
92	((quantitative* or qualitative*) adj5 (review* or overview*)).tw.	5678
93	((studies or trial*) adj2 (review* or overview*)).tw.	19233
94	(integrat* adj3 (research or review* or literature)).tw.	12504
95	(pool* adj2 (analy* or data)).tw.	3576
96	or/85-95	494712
97	75 and 96	682
98	84 or 97	2079

32.4.11 Database name: Social Policy and Practice (SPP)Database(s): **Social Policy and Practice** 202004

Search Strategy:

#	Searches	Results
1	((quit or quits or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or cut or cuts or cutting or abstain* or abstinen* or "giv* up" or discontinu*) adj3 (nicotin* or smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or "hand roll*" or handroll* or rollies or "roll up*" or rollup* or waterpipe* or "water pipe*" or dokha* or hooka* or shisha* or sheesha* or sheeka*)).ti,ab.	370
2	((quit or quits or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or cut or cuts or cutting or abstain* or abstinen* or "giv* up" or discontinu*) and (nicotin* or smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or "hand roll*" or handroll* or rollies or "roll up*" or rollup* or waterpipe* or "water pipe*" or dokha* or hooka* or shisha* or sheesha* or sheeka*)).hw.	27
3	((prequit* or "pre quit*" or "cut* down*" or stopstart* or "stop start*" or "cold turkey*" or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz* or gradual* or withdraw* or substitut* or fading* or taper* or swap* or swop* or switch* or replace* or replacing*) adj3 (nicotin* or smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or "hand roll*" or handroll* or rollies or "roll up*" or rollup* or waterpipe* or "water pipe*" or dokha* or hooka* or shisha* or sheesha* or sheeka*)).ti,ab.	205
4	((prequit* or "pre quit*" or "cut* down*" or stopstart* or "stop start*" or "cold turkey*" or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz* or gradual* or withdraw* or substitut* or fading* or taper* or swap* or swop* or switch* or replace* or replacing*) and (nicotin* or smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or "hand roll*" or handroll* or rollies or "roll up*" or rollup* or waterpipe* or "water pipe*" or dokha* or hooka* or shisha* or sheesha* or sheeka*)).hw.	64
5	((harm* or risk*) adj1 (cut or cuts* or cutting* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz* or less* or lower* or small*) adj3 (nicotin* or smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or "hand roll*" or handroll* or rollies or "roll up*" or rollup* or waterpipe* or "water pipe*" or dokha* or hooka* or shisha* or sheesha* or sheeka*)).ti,ab.	9

6	((harm* or risk*) and (cut or cuts* or cutting* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz* or less* or lower* or small*) and (nicotin* or smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or "hand roll*" or handroll* or rollies or "roll up*" or rollup* or waterpipe* or "water pipe*" or dokha* or hooka* or shisha* or sheesha* or sheeka*)).hw.	21
7	(antismok* or "anti smok*" or exsmoker* or "ex smoker*" or "controlled smoking*").ti,ab,hw.	45
8	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).ti,ab,hw.	11
9	(electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).ti,ab.	1
10	(electronic* and (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).hw.	1
11	((tobacco* or nicotin* or cigar* or cigs) adj3 (vapor* or vapour* or device* or inhalator* or inhaler*)).ti,ab.	0
12	((tobacco* or nicotin* or cigar* or cigs) and (vapor* or vapour* or device* or inhalator* or inhaler*)).hw.	0
13	(nicotin* and (ENDS or ANDS)).ti,ab.	0
14	(nicotin* and (ENDS or ANDS)).hw.	0
15	(nicotin* adj3 deliver* system*).ti,ab.	0
16	(nicotin* and deliver* system*).hw.	0
17	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*)).ti,ab.	0
18	((tobacco* or nicotin* or cigar* or cigs) and (dual* or multiple* or multi) and ("use" or uses or user* or usage* or using*)).hw.	0
19	(polytobacco* or "poly tobacco*" or multitobacco* or "multi tobacco*").ti,ab,hw.	0
20	(nrt or nicorette* or niquitin* or nicotinell* or nicassist*).ti,ab,hw.	12
21	(nicotin* adj3 (replacement* or substitut* or gum* or inhaled* or inhaler* or inhalant* or inhalator* or spray* or lozenge* or tablet* or transdermal* or patch* or vaccin* or device* or gel* or pastil* or deliver* or sublingual* or therap* or treatment* or nasal* or microtab* or polacrilex* or product or products)).ti,ab.	43

22	(nicotin* and (replacement* or substitut* or gum* or inhaled* or inhaler* or inhalant* or inhalator* or spray* or lozenge* or tablet* or transdermal* or patch* or vaccin* or device* or gel* or pastil* or deliver* or sublingual* or therap* or treatment* or nasal* or microtab* or polacrilex* or product or products)).hw.	6
23	((bupropion* or zyban* or amfebutamone* or quomen* or wellbutrin* or zyntabac* or varenicline* or champix* or chantix*) adj3 (smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or "hand roll*" or handroll* or rollies or "roll up*" or rollup* or waterpipe* or "water pipe*" or dokha* or hooka* or shisha* or sheesha* or sheeka*)).ti,ab.	2
24	((bupropion* or zyban* or amfebutamone* or quomen* or wellbutrin* or zyntabac* or varenicline* or champix* or chantix*) and (smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or "hand roll*" or handroll* or rollies or "roll up*" or rollup* or waterpipe* or "water pipe*" or dokha* or hooka* or shisha* or sheesha* or sheeka*)).hw.	2
25	or/1-24	595
26	((mental* or psychological*) adj2 (disturb* or distress* or stress* or disorder* or syndrome* or ill* or health or healthcare* or "health care*" or emergency* or inpatient* or "in patient*" or nursing* or hospital* or "secure unit*" or service* or intervention* or patient* or condition* or specialist* or department* or "social work*" or "social care*" or service* or organisation* or organization* or disease* or recover*)).ti,ab.	58859
27	((mental* or psychological*) and (disturb* or distress* or stress* or disorder* or syndrome* or ill* or health or healthcare* or "health care*" or emergency* or inpatient* or "in patient*" or nursing* or hospital* or "secure unit*" or service* or intervention* or patient* or condition* or specialist* or department* or "social work*" or "social care*" or service* or organisation* or organization* or disease* or recover*)).hw.	59799
28	((mental* or psychological* or emotional* or affective*) adj2 (unstable* or instabilit* or labil* or symptom*)).ti,ab.	1618
29	((mental* or psychological* or emotional* or affective*) and (unstable* or instabilit* or labil* or symptom*)).hw.	119
30	((anxiety* or bipolar* or dissociat* or feeding* or eating* or mood* or neurotic* or personality* or neurocognitive* or psychotic* or somatoform* or somatisat* or somatizat* or neurodevelopmental* or "neuro developmental*" or trauma* or stress* or panic* or phobic* or phobia* or identity* or "binge eat*" or binging* or "food addiction*"	10250

	or rumination* or appetite* or depressive* or affective* or cyclothymic* or dysthymic* or cognition* or cognitive* or huntington* or consciousness* or "attention deficit*" or hyperactiv* or overactive* or "over active*" or hyperkinetic* or conduct* or paranoid* or dysmorphi* or conversion* or behavior* or behaviour* or "post traumatic*" or posttraumatic* or rett* or delusion* or trance* or possessi* or obsessi* or compulsion* or compulsive* or adjustment* or "pervasive development*" or depersonali* or dereali* or disintegrativ* or hallucinati* or "motor skill*" or factitious* or munchausen* or "passive aggressive*" or impulse* or impulsive* or disrupt* or distress* or Diogenes* or psychomotor* or memory* or confusion*) adj3 (disorder* or syndrome*).ti,ab.	
31	((anxiety* or bipolar* or dissociat* or feeding* or eating* or mood* or neurotic* or personality* or neurocognitive* or psychotic* or somatoform* or somatisat* or somatizat* or neurodevelopmental* or "neuro developmental*" or trauma* or stress* or panic* or phobic* or phobia* or identity* or "binge eat*" or binging* or "food addiction*" or rumination* or appetite* or depressive* or affective* or cyclothymic* or dysthymic* or cognition* or cognitive* or huntington* or consciousness* or "attention deficit*" or hyperactiv* or overactive* or "over active*" or hyperkinetic* or conduct* or paranoid* or dysmorphi* or conversion* or behavior* or behaviour* or "post traumatic*" or posttraumatic* or rett* or delusion* or trance* or possessi* or obsessi* or compulsion* or compulsive* or adjustment* or "pervasive development*" or depersonali* or dereali* or disintegrativ* or hallucinati* or "motor skill*" or factitious* or munchausen* or "passive aggressive*" or impulse* or impulsive* or disrupt* or distress* or Diogenes* or psychomotor* or memory* or confusion*) and (disorder* or syndrome*).hw.	11437
32	(amnesi* or psychosis* or psychotic* or schizo* or agoraphobi* or anorexi* or bulimia* or bulimic* or pica or depress* or delirium* or dementia* or Alzheimer* or adhd or addh or ocd or paranoia* or autis* or asperger* or astheni* or neurastheni* or neurosis* or sociopath* or psychopath* or psychoses* or cyclothymi* or dysthymi* or "severe stress*" or "acute stress*" or PTSD* or suicidal* or suicide* or parasuicid* or hypomani* or hysteria* or hallucinosis* or postencephaliti* or "post encephaliti*" or postconcussion* or "post concussion*" or "folie a deux*" or anankasti* or catatoni* or fugue* or oligophreni* or dyslexi* or hypochondriasis* or psychiatr* or trichotillomani* or psychastheni* or mania* or alexia* or automutilat* or alexithymi* or psychotrauma* or "psycho trauma*" or apraxi* or dyspraxi*).ti,ab,hw.	76592
33	(self* adj2 (harm* or injur* or mutilat*).ti,ab.	2546
34	(self* and (harm* or injur* or mutilat*).hw.	2256
35	or/26-34	131071

36	25 and 35	170
37	limit 36 to yr="1998 -Current"	163

32.5 Supplementary search techniques

32.5.1 Scoping searches

The following papers were identified during the scoping searches for this topic and added to the results for the main search.

No. of results added	30												
How the results were selected	<p>Records obtained from Ovid MEDLINE ALL using these searches:</p> <p>Test papers (list 1)</p> <p>(24335478 or 27116918 or 17074945 or 30975539 or 26360283 or 26816385 or 20576123 or 23121356 or 28126031 or 23948001 or 24939916 or 23534846 or 20435957 or 27043328).ui</p> <p>Validation papers (list 2)</p> <p>(26457385 or 25006684 or 11694208 or 18303706 or 12079730 or 11058482 or 29986786 or 32467844 or 32678937 or 25814920 or 31784428 or 32388396 or 21376537 or 22697191).ui</p> <p>Database(s): Ovid MEDLINE(R) ALL 1946 to July 30, 2020 Search Strategy:</p> <table border="1"> <thead> <tr> <th>#</th> <th>Searches</th> <th>Results</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>("24335478" or "27116918" or "17074945" or "30975539" or "26360283" or "26816385" or "20576123" or "23121356" or "28126031" or "23948001" or "24939916" or "23534846" or "20435957" or "27043328").ui.</td> <td>14</td> </tr> <tr> <td>2</td> <td>(26457385 or 25006684 or 11694208 or 18303706 or 12079730 or 11058482 or 29986786 or 32467844 or 32678937 or 25814920 or 31784428 or 32388396 or 21376537 or 22697191).ui</td> <td>14</td> </tr> <tr> <td>3</td> <td>1 or 2</td> <td>28</td> </tr> </tbody> </table>	#	Searches	Results	1	("24335478" or "27116918" or "17074945" or "30975539" or "26360283" or "26816385" or "20576123" or "23121356" or "28126031" or "23948001" or "24939916" or "23534846" or "20435957" or "27043328").ui.	14	2	(26457385 or 25006684 or 11694208 or 18303706 or 12079730 or 11058482 or 29986786 or 32467844 or 32678937 or 25814920 or 31784428 or 32388396 or 21376537 or 22697191).ui	14	3	1 or 2	28
#	Searches	Results											
1	("24335478" or "27116918" or "17074945" or "30975539" or "26360283" or "26816385" or "20576123" or "23121356" or "28126031" or "23948001" or "24939916" or "23534846" or "20435957" or "27043328").ui.	14											
2	(26457385 or 25006684 or 11694208 or 18303706 or 12079730 or 11058482 or 29986786 or 32467844 or 32678937 or 25814920 or 31784428 or 32388396 or 21376537 or 22697191).ui	14											
3	1 or 2	28											

	List 3 obtained from CDSR after scanning the results while doing the actual search and downloaded directly from there.
List of results added	<p>List 1 – 14 test papers</p> <p>Ashton M et al. (2015) Evaluation of a community-based smoking cessation programme for people with severe mental illness, <i>Tobacco Control</i>, 24(3), 275–280.</p> <p>Anthenelli, R. M. et al. (2016) Neuropsychiatric safety and efficacy of varenicline, bupropion, and nicotine patch in smokers with and without psychiatric disorders (EAGLES): A double-blind, randomised, placebo-controlled clinical trial, <i>The Lancet</i>, 387(10037), 2507–2520.</p> <p>Baker, A. et al. (2006) A randomized controlled trial of a smoking cessation intervention among people with a psychotic disorder, <i>American Journal of Psychiatry</i>, 163(11), 1934–1942.</p> <p>Gilbody, S. et al. (2019) Smoking cessation for people with severe mental illness (SCIMITAR+): a pragmatic randomised controlled trial, <i>The Lancet Psychiatry</i>, 6(5), 379–390.</p> <p>Gilbody, S. et al. (2015) Bespoke smoking cessation for people with severe mental ill health (SCIMITAR): A pilot randomised controlled trial, <i>The Lancet Psychiatry</i>, 2(5), 395–402.</p> <p>Khanna, P. et al. (2016) Smoking cessation advice for people with serious mental illness, <i>Cochrane Database of Systematic Reviews</i>.</p> <p>McNally L and Ratschen E (2010) The delivery of stop smoking support to people with mental health conditions: A survey of NHS stop smoking services, <i>BMC Health Services Research</i>, 10.</p> <p>Parker C et al. (2012) Tailored tobacco dependence support for mental health patients: A model for inpatient and community services, <i>Addiction</i>, 107(SUPPL.2), 18–25.</p> <p>Peckham, E. et al. (2017) Smoking Cessation Intervention for Severe Mental Ill Health Trial (SCIMITAR+): Study protocol for a randomised controlled trial, <i>Trials</i>, 18(1), 44.</p>

	<p>Prochaska JJ. et al. (2014) Efficacy of initiating tobacco dependence treatment in inpatient psychiatry: A randomized controlled trial, <i>American Journal of Public Health</i>, 104(8), 1557–1565</p> <p>Stockings EAL et al. (2014) Impact of a Postdischarge Smoking Cessation Intervention for Smokers Admitted to an Inpatient Psychiatric Facility: A Randomized Controlled Trial, <i>Nicotine & Tobacco Research</i>, 16(11), 1417–1428.</p> <p>Szatkowski L and Mcneill A. (2013) The delivery of smoking cessation interventions to primary care patients with mental health problems', <i>Addiction</i>, 108(8), 1487–1494.</p> <p>Tsoi DTY et al. (2010) Efficacy and safety of bupropion for smoking cessation and reduction in schizophrenia: Systematic review and meta-analysis, <i>British Journal of Psychiatry</i>, 346–353.</p> <p>Wu, Q. et al. (2016) Varenicline for smoking cessation and reduction in people with severe mental illnesses: systematic review and meta-analysis, <i>Addiction</i>, 111(9), 1554–1567.</p> <p>List 2 – 14 validation papers</p> <p>Bennett ME et al. (2015) Smoking cessation in individuals with serious mental illness: a randomized controlled trial of two psychosocial interventions. <i>J Dual Diagn</i>, 11:161–73.</p> <p>Chengappa KN et al. (2014) Varenicline for smoking cessation in bipolar disorder: a randomized, double-blind, placebo-controlled study. <i>J Clin Psychiatry</i> 75: 765–72.</p> <p>Evins AE et al. (2001) A pilot trial of bupropion added to cognitive behavioral therapy for smoking cessation in schizophrenia. <i>Nicotine & Tobacco Research</i>, 3: 397–403.</p> <p>Gallagher SM et al. (2007) A comparison of smoking cessation treatments for persons with schizophrenia and other serious mental illnesses. <i>J Psychoactive Drugs</i>, 39: 487–97.</p> <p>George TP et al. (2002) A placebo controlled trial of bupropion for smoking cessation in schizophrenia. <i>Biol Psychiatry</i>, 52: 53–61.</p> <p>George TP et al. (2000) Nicotine transdermal patch and atypical antipsychotic medications for smoking cessation in schizophrenia. <i>Am J Psychiatry</i>, 157: 1835–42.</p>
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	<p>Hickling LM et al. (2019) A pre-post pilot study of electronic cigarettes to reduce smoking in people with severe mental illness. <i>Psychological Medicine</i>, 49(6): 1033-1040.</p> <p>Kagabo R. et al. (2020) Smoking cessation in inpatient psychiatry treatment facilities: a review. <i>Addictive Behaviors Reports</i>, 11: 100255.</p> <p>Lightfoot K et al. (2020) Effectiveness of psychological interventions for smoking cessation in adults with mental health problems: A systematic review, <i>British Journal of Health Psychology</i>, Online ahead of print.</p> <p>O'Brien B (2015) E-cigarettes versus NRT for smoking reduction or cessation in people with mental illness: secondary analysis of data from the ASCEND trial. <i>Tobacco Induced Diseases</i>, 13(1): 1-7.</p> <p>Pearsall R et al. (2019) Pharmacological and behavioural interventions to promote smoking cessation in adults with schizophrenia and bipolar disorders: a systematic review and meta-analysis of randomised trials. <i>BMJ Open</i>, 9: e027389.</p> <p>Peckham E et al. (2020) E-cigarette use and associated factors among smokers with severe mental illness. <i>Addictive Behaviors</i>, 108: 106456.</p> <p>Weiner E et al. (2011) Varenicline for smoking cessation in people with schizophrenia: a double blind randomized pilot study. <i>Schizophr Res</i>, 129: 94–5.</p> <p>Williams JM et al. (2012) A randomized, double-blind, placebo-controlled study evaluating the safety and efficacy of varenicline for smoking cessation in patients with schizophrenia or schizoaffective disorder. <i>J Clin Psychiatry</i>, 73: 654–60.</p> <p>List 3 from CDSR</p> <p>Tsoi DT et al. (2013) Interventions for smoking cessation and reduction in individuals with schizophrenia. <i>Cochrane Database of Systematic Reviews</i>.</p> <p>Van der Meer R et al. (2013) Smoking cessation interventions for smokers with current or past depression. <i>Cochrane Database of Systematic Reviews</i>.</p>
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32.5.2 Reference harvesting

How the base papers were identified	Identified the reviews from the scoping searches. Used the reviews for reference harvesting as they were relatively recent and should have captured the same papers of interest to this review.
Database and segment used	Web of Science Core Collection (1990-present) <ul style="list-style-type: none"> • Science Citation Index Expanded (1990-present) • Social Sciences Citation Index (1990-present) • Arts & Humanities Citation Index (1990-present) • Emerging Sources Citation Index (2015-present)
How results were managed	Only those references that could be accessed through the NICE subscription to WOS were added to the search results. Duplicates were removed from the marked list in WOS before downloading the results.
How the results were selected	219 items added to the marked list and 211 available in the Core Collection. 20 of those published before 1998 and excluded. 191 added to RIS. 297 items added to the marked list and 289 available in the Core Collection. 25 of those published before 1998 and excluded. 264 added to RIS.
Total no. of records downloaded	455
List of base papers used	<p>Gilbody, S. <i>et al.</i> (2019) Smoking cessation for people with severe mental illness (SCIMITAR+): a pragmatic randomised controlled trial, <i>The Lancet Psychiatry</i>, 6(5), pp. 379–390.</p> <p>Gilbody, S. <i>et al.</i> (2015) Bespoke smoking cessation for people with severe mental ill health (SCIMITAR): A pilot randomised controlled trial', <i>The Lancet Psychiatry</i>, 2(5), pp. 395–402.</p> <p>Khanna, P. <i>et al.</i> (2016) 'Smoking cessation advice for people with serious mental illness', <i>Cochrane Database of Systematic Reviews</i>.</p> <p>Pearsall R <i>et al.</i> (2019) Pharmacological and behavioural interventions to promote smoking cessation in adults with schizophrenia and bipolar disorders: a systematic review and meta-analysis of randomised trials. <i>BMJ Open</i>, 9: e027389.</p>

	<p>Peckham, E. et al. (2017) Smoking Cessation Intervention for Severe Mental Ill Health Trial (SCIMITAR+): Study protocol for a randomised controlled trial, <i>Trials</i>, 18(1), 44.</p> <p>Peckham E et al. (2020) E-cigarette use and associated factors among smokers with severe mental illness. <i>Addictive Behaviors</i>, 108: 106456.</p> <p>Tsoi DTY et al. (2010) 'Efficacy and safety of bupropion for smoking cessation and reduction in schizophrenia: Systematic review and meta-analysis', in <i>British Journal of Psychiatry</i>. Br J Psychiatry, pp. 346–353.</p> <p>Tsoi DT et al. (2013) Interventions for smoking cessation and reduction in individuals with schizophrenia. <i>Cochrane Database of Systematic Reviews</i>.</p> <p>Wu, Q. et al. (2016) 'Varenicline for smoking cessation and reduction in people with severe mental illnesses: systematic review and meta-analysis', <i>Addiction</i>, 111(9), pp. 1554–1567.</p> <p>Van der Meer R et al. (2013) Smoking cessation interventions for smokers with current or past depression. <i>Cochrane Database of Systematic Reviews</i>.</p>
Additional notes	<p>The search was done in 2 parts. 191 items from part 1 and 266 from part 2. Part 2 was done on 7 Aug 2020 and used Tsoi (2013) and Van der Meer (2013) as these were identified as key papers after the initial batch had been done. WoS included the 2010 and 2013 versions of Tsoi but only the 2013 version was used as it would have incorporated the included papers from the earlier version.</p>

32.5.3 Forward citation searching

How the base papers were identified	<p>Identified the reviews from the scoping searches and used the same ones as for reference harvesting. Any additional trials should cite previous evidence and so are likely to add these.</p> <p>The analysts identified SCIMITAR as a key trial and so added those papers known from scoping to the list to ensure comprehensive coverage..</p>
Database and segment used	<p>Web of Science Core Collection (1990-present)</p> <ul style="list-style-type: none"> • Science Citation Index Expanded (1990-present) • Social Sciences Citation Index (1990-present)

	<ul style="list-style-type: none"> • Arts & Humanities Citation Index (1990-present) • Emerging Sources Citation Index (2015-present)
How results were managed	<p>Only those references that could be accessed through the NICE subscription to WOS were added to the search results.</p> <p>Duplicates were removed from the marked list in WOS before downloading the results.</p>
How the results were selected	All added to the marked list for downloading. The analysis tab showed they were all in English.
Total no. of records downloaded	334
List of base papers used	<p>Gilbody, S. <i>et al.</i> (2019) Smoking cessation for people with severe mental illness (SCIMITAR+): a pragmatic randomised controlled trial, <i>The Lancet Psychiatry</i>, 6(5), pp. 379–390.</p> <p>Gilbody, S. <i>et al.</i> (2015) Bespoke smoking cessation for people with severe mental ill health (SCIMITAR): A pilot randomised controlled trial', <i>The Lancet Psychiatry</i>, 2(5), pp. 395–402.</p> <p>Khanna, P. <i>et al.</i> (2016) 'Smoking cessation advice for people with serious mental illness', <i>Cochrane Database of Systematic Reviews</i>.</p> <p>Pearsall R <i>et al.</i> (2019) Pharmacological and behavioural interventions to promote smoking cessation in adults with schizophrenia and bipolar disorders: a systematic review and meta-analysis of randomised trials. <i>BMJ Open</i>, 9: e027389.</p> <p>Peckham, E. <i>et al.</i> (2017) Smoking Cessation Intervention for Severe Mental Ill Health Trial (SCIMITAR+): Study protocol for a randomised controlled trial, <i>Trials</i>, 18(1), 44.</p> <p>Peckham E <i>et al.</i> (2020) E-cigarette use and associated factors among smokers with severe mental illness. <i>Addictive Behaviors</i>, 108: 106456.</p> <p>Tsoi DT <i>et al.</i> (2013) Interventions for smoking cessation and reduction in individuals with schizophrenia. <i>Cochrane Database of Systematic Reviews</i>.</p>

	<p>Wu, Q. <i>et al.</i> (2016) 'Varenicline for smoking cessation and reduction in people with severe mental illnesses: systematic review and meta-analysis', <i>Addiction</i>, 111(9), pp. 1554–1567.</p> <p>Van der Meer R <i>et al.</i> (2013) Smoking cessation interventions for smokers with current or past depression. <i>Cochrane Database of Systematic Reviews</i>.</p>
Additional notes	The search was done in 2 parts. 108 items from part 1 and 226 from part 2. Part 2 was done on 7 Aug 2020 and used Tsoi (2013) and Van der Meer (2013) as these were identified as key papers after the initial batch had been done. WoS included the 2010 and 2013 versions of Tsoi and the citations of both of these were included.

32.6 Web searching

32.6.1 Search engines

Search engine	
Name	Health Services/Technology Assessment Texts (HSTAT)
URL	https://www.ncbi.nlm.nih.gov/books/NBK16710
Date searched	10 August 2020
Search terms	<p>Search "tobacco use cessation"[MeSH Terms]</p> <p>Search "smoking cessation"[MeSH Terms]</p> <p>Search "Smoking cessation agents"[MeSH Terms]</p> <p>Search "tobacco use cessation devices"[MeSH Terms]</p> <p>Search smoking reduction[MeSH Terms]</p> <p>Search Smokers[MeSH Terms]</p> <p>Search Ex-smokers[MeSH Terms]</p> <p>Search Electronic Nicotine Delivery Systems[MeSH Terms]</p> <p>Search vaping[MeSH Terms]</p> <p>Search Varenicline[MeSH Terms]</p> <p>Search Bupropion[MeSH Terms]</p> <p>Search (#1 or #2 or #3 or #4 or #5 or #6 or #7 or #8 or #9 or #10 or #11)</p> <p>Search (mental* or psychological* or emotional* or affective* or amnesi* or psychosis* or psychotic* or schizo* or agoraphobi* or anorexi* or bulimia* or bulimic* or pica or depress* or delirium* or</p>

	<p>dementia* or Alzheimer* or adhd or addh or ocd or paranoia* or autis* or asperger* or astheni* or neurastheni* or neurosis* or sociopath* or psychopath* or psychoses* or cyclothymi* or dysthymi* or "severe stress*" or "acute stress*" or PTSD* or suicidal* or suicide* or parasuicid* or hypomani* or hysteria* or hallucinosis* or postencephaliti* or "post encephaliti*" or postconcussion* or "post concussion*" or "folie a deux*" or anankasti* or catatoni* or fugue* or oligophreni* or dyslexi* or hypochondriasis* or psychiatr* or trichotillomani* or psychastheni* or mania* or alexia* or automutilat* or alexithymi* or psychotrauma* or "psycho trauma*" or apraxi* or dyspraxi*)</p> <p>Search (#12 and #13)</p>
How the results were selected	Reviewed the 19 results for anything relating to mental illness.
Results	<p>Smoking Cessation: A Report of the Surgeon General</p> <p>https://www.ncbi.nlm.nih.gov/books/NBK555591/</p> <ul style="list-style-type: none"> - See Ch 6. Mental health integrated into this chapter and mentioned numerous times. <p>Smoking Cessation Interventions for Patients with Severe Mental Illnesses: A Review of Clinical Effectiveness and Guidelines. CADTH Rapid Response Report: Summary with Critical Appraisal https://www.ncbi.nlm.nih.gov/books/NBK525600/</p>
No. of results	2

Search engine	
Name	NICE Evidence Search
URL	https://www.evidence.nhs.uk
Date searched	10 August 2020
Search terms	<p>Search 1</p> <p>(nicotin* or smoking* or smoker* or tobacco* or cigarette* or ecig* or juul* or vape* or vaping*) and (mental* or psychological* or emotional* psychiatric)</p> <p>Search 2</p> <p>(nicotin* or smoking* or smoker* or tobacco* or cigarette* or ecig* or juul* or vape* or vaping*) – then reviewed by Source and checked ASH, Centre for Mental Health, Mental Health Foundation, Rethink Mental Illness, Mental Welfare Commission</p>

	for Scotland, Royal College of Psychiatrists, British Psychological Society, WHO.
How the results were selected	<p>Sorted by "Guidance and Policy" and then reviewed.</p> <p>Sorted by Area of Interest>Public health and reviewed.</p> <p>Sorted by relevance and reviewed first 100 results.</p> <p>Only included items specifically on smoking cessation for people with mental illness.</p> <p>Only included grey literature, journals should have been covered already.</p> <p>Downloaded results as RIS files and used NICE Evidence Search in the source field dropdown list.</p> <p>Did not look in general mental health strategies to see if there was a smoking cessation section.</p>
Results	<p>The prescribing of varenicline and vaping (electronic cigarettes) to patients with severe mental illness (PS05/18 December 2018)</p> <p>Royal College of Psychiatrists</p> <p>EPA guidance on tobacco dependence and strategies for smoking cessation in people with mental illness</p> <p>European Psychiatric Association</p> <p>Clearing the Air: Debating smoke-free policies in psychiatric units</p> <p>King's Fund</p> <p>A time to quit. Experiences of smoking cessation support among people with severe mental illness</p> <p>Centre for Mental Health</p> <p>Smoking and mental health</p> <p>Royal College of Physicians</p> <p>ASH factsheet : Smoking and Mental Health</p> <p>ASH</p> <p>The Mental Health and Smoking Action Report</p>

	<p>ASH</p> <p>Hiding in plain sight: treating tobacco dependency in the NHS Royal College of Physicians (RCP)</p> <p>Mental health, smoking and poverty in the UK. A report commissioned by Public Health England and Action on Smoking and Health</p> <p>ASH</p> <p>A Change in the Air: Results of a study of smokefree policy and practice in mental health trusts in England</p> <p>ASH</p> <p>Smokefree skills : community mental health</p> <p>ASH</p> <p>Progress towards smokefree mental health services</p> <p>ASH</p> <p>The Stolen Years – The Mental Health and Smoking Action report</p> <p>ASH</p> <p>ASH survey of people with mental health conditions: An analysis of the views of people with a mental health condition and staff working in mental health services</p> <p>ASH</p> <p>Pharmacy Guidance on Smoking and Mental Disorder Royal College of Psychiatrists</p>
No. of results	15

Search engine

Name	Tobacco Control Database for the WHO European Region
URL	http://data.euro.who.int/tobacco
Date searched	10 August 2020
Search terms	The database just returned an error message so browsed http://www.euro.who.int/en/health-topics/disease-prevention/tobacco http://www.euro.who.int/en/health-topics/disease-prevention/tobacco/publications/a-z-list-of-all-publications2
How the results were selected	Specific to mental illness.
Results	Tobacco use and mental health. Policy brief (2020) https://www.euro.who.int/en/health-topics/disease-prevention/tobacco/publications/2020/tobacco-use-and-mental-health.-policy-brief-2020
No. of results	1

32.6.2 Website browsing

Website	
Name	Action on Smoking and Health (ASH)
URL	http://ash.org.uk/home
Date searched	10 August 2020
Search terms (including any specific sections browsed)	Browsed reports, fact sheets and briefings. Mostly already seen in Evidence Search. Note membership of the Mental Health and Smoking Partnership https://smokefreeaction.org.uk/smokefree-nhs/smoking-and-mental-health/mhspresources/mhsp-reports/
Results	Supporting smokers to quit can help tackle surge in poor mental health https://ash.org.uk/media-and-news/press-releases-media-and-news/supporting-smokers-to-quit-can-help-tackle-surge-in-poor-mental-health/

Website	
Name	Centre for Mental Health
URL	https://www.centreformentalhealth.org.uk/
Date searched	10 August 2020
Search terms (including any specific sections browsed)	Tobacco, smoking
Results	None additional to "A time to quit" already found in Evidence Search

Website	
Name	Local Government Association
URL	https://www.local.gov.uk
Date searched	10 August 2020
Search terms (including any specific sections browsed)	Browsed health publications at https://www.local.gov.uk/publications?topic[2495]=2495

Results	None
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Website	
Name	Mind
URL	https://www.mind.org.uk
Date searched	10 August 2020
Search terms (including any specific sections browsed)	Tobacco, smoking, cigarettes, vaping
Results	None

Website	
Name	National Centre for Smoking Cessation and Training
URL	http://www.ncsct.co.uk
Date searched	10 August 2020
Search terms (including any specific sections browsed)	Browsed the briefings
Results	<p>Smoking cessation and smokefree policies: Good practice for mental health services https://www.ncsct.co.uk/publication_mental_health_briefing.php</p> <p>Smoking Cessation and Mental Health: A briefing for front-line staff https://www.ncsct.co.uk/publication_Smoking_cessation_and_Mental_Health_briefing.php</p>

Website	
Name	Northern Ireland Assembly
URL	http://www.niassembly.gov.uk/
Date searched	10 August 2020

Search terms (including any specific sections browsed)	Checked health committee reports and research papers http://www.niassembly.gov.uk/assembly-business/committees/2017-2022/health/reports/
Results	None

Website	
Name	Public Health England
URL	https://www.gov.uk/government/organisations/public-health-england
Date searched	10 August 2020
Search terms (including any specific sections browsed)	Browsed the vaping page https://www.gov.uk/government/collections/e-cigarettes-and-vaping-policy-regulation-and-guidance Browsed the smoking page https://www.gov.uk/health-and-social-care/smoking
Results	Using electronic cigarettes in NHS mental health organisations https://www.gov.uk/government/publications/e-cigarettes-use-by-patients-in-nhs-mental-health-organisations Public Health England (2020) Vaping in England: an evidence update including mental health and pregnancy, March 2020. A report commissioned by Public Health England <ul style="list-style-type: none"> • See Chapter 5: Systematic review of vaping among people with mental health conditions https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/869401/Vaping_in_England_evidence_update_March_2020.pdf 4 items added from Smoking cessation in secondary care: mental health settings https://www.gov.uk/government/publications/smoking-cessation-in-secondary-care-mental-health-settings <ul style="list-style-type: none"> - Working together to promote smoking cessation in children & young people - Smoking cessation in secure mental health settings – guidance for commissioners - Introducing self-assessment for NICE guidance PH48 in mental health settings - Smokefree mental health services in England Implementation document for providers of mental health services

Website	
Name	Royal College of Psychiatrists

URL	https://www.rcpsych.ac.uk/
Date searched	10 August 2020
Search terms (including any specific sections browsed)	Browsed the public health section. Searched for tobacco, vaping, smoking. Did not include anything already seen in Evidence Search.
Results	Primary Care Guidance on Smoking and Mental Disorders https://www.rcpsych.ac.uk/docs/default-source/improving-care/better-mh-policy/policy/primary-care-guidance-on-smoking-and-mental-disorders-2014-update.pdf?sfvrsn=5824ccd5_2

Website	
Name	Royal College of Physicians
URL	https://www.rcplondon.ac.uk
Date searched	11 August 2020
Search terms (including any specific sections browsed)	Browsed https://www.rcplondon.ac.uk/projects/outputs/what-rcp-thinks-about-tobacco
Results	None additional – already under Evidence Search

Website	
Name	Scottish Government
URL	https://www.gov.scot
Date searched	11 August 2020
Search terms (including any specific sections browsed)	Browsed https://www.gov.scot/policies/smoking/ Also searched publications for smoking, tobacco, vaping, mental health, mental illness, psychiatry https://www.gov.scot/publications/
Results	None

Website	
Name	Smokefree NHS
URL	https://www.nhs.uk/smokefree
Date searched	11 August 2020

Search terms (including any specific sections browsed)	Browsed – aimed at patients
Results	None

Website	
Name	Smoking Toolkit Study
URL	http://www.smokinginengland.info
Date searched	11 August 2020
Search terms (including any specific sections browsed)	Browsed reports, STS documents and key publications
Results	None

Website	
Name	Treat Tobacco
URL	http://www.treatobacco.net/en/index.php
Date searched	11 August 2020
Search terms (including any specific sections browsed)	<p>Site is not being maintained.</p> <p>Focussed on the special populations page.</p> <p>http://www.treatobacco.net/en/page_170.php</p> <p>The main papers being cited were Cochrane Reviews that had already been retrieved.</p> <p>http://www.treatobacco.net/en/page_617.php</p> <p>http://www.treatobacco.net/en/page_616.php</p> <p>http://www.treatobacco.net/en/page_615.php</p>
Results	None

Website	
Name	UK Centre for Tobacco and Alcohol Studies
URL	http://ukctas.net/index.html

	https://www.nottingham.ac.uk/research/groups/tobaccoandalcohol/index.aspx
Date searched	11 August 2020
Search terms (including any specific sections browsed)	Browsed the main page
Results	None

Website	
Name	University of Bath Tobacco Control Research Group
URL	https://researchportal.bath.ac.uk/en/organisations/uk-centre-for-tobacco-control-studies
Date searched	11 August 2020
Search terms (including any specific sections browsed)	Browsed the smoking cessation research outputs. Searched the smoking and tobacco sections for "mental" and "pschiatr".
Results	None

Website	
Name	University of Stirling Centre for Tobacco Control Research
URL	https://www.stir.ac.uk/about/faculties-and-services/health-sciences-sport/research/research-groups/centre-for-tobacco-control-research/publications
Date searched	11 August 2020
Search terms (including any specific sections browsed)	Did not browse the journal articles as these should have been retrieved in the search. Browsed the books, chapters and monographs section.
Results	None

Website	
Name	Welsh Government
URL	https://gov.wales/?lang=en

Date searched	11 August 2020
Search terms (including any specific sections browsed)	Searched publications for smoking, tobacco, vaping. Searched publications limited to reports for mental health, mental illness https://gov.wales/publications Browsed the smoking section https://gov.wales/smoking
Results	None

32.7 Added after main search

1 item was added on 25 August 2020 after being identified in the table of contents for the public health current awareness bulletin (CAB).

Siskind DJ et al. (1 Sept 2020) Pharmacological interventions for smoking cessation among people with schizophrenia spectrum disorders: a systematic review, meta-analysis, and network meta-analysis. *Lancet Psychiatry*, 7(9):762-774.

32.8 Search admin

32.8.1 EPPI-Reviewer and deduplication

The search results were managed in EPPI-Reviewer v5.

Duplicates were removed in EPPI-R5 using a two-step process. First, automated deduplication is performed using a high-value algorithm. Second, manual deduplication is used to assess 'low-probability' matches. All decisions made for the review can be accessed via the deduplication history.

32.8.2 Database translations

The principal search strategy was developed in MEDLINE (Ovid interface) and adapted, as appropriate, for use in the other sources listed in the protocol, taking into account their size, search functionality and subject coverage.

32.8.3 Quality assurance

The MEDLINE strategy below was quality assured (QA) by trained member of the IS team. All translated search strategies were peer reviewed to ensure their accuracy. Both procedures were adapted from the 2016 PRESS Checklist.

32.9 Search limits

The limit to remove animal studies was the standard NICE practice, which has been adapted from:

Dickersin, K., Scherer, R., & Lefebvre, C. (1994). Systematic Reviews: Identifying relevant studies for systematic reviews. *BMJ*, 309(6964), 1286.

English language limits were applied in adherence to standard NICE practice and the review protocol.

The reason for limiting the search to 1998 to current was to be consistent with the other reviews in this portfolio, as defined in the protocol for this question

Limits to exclude letters, editorials, news, conferences were applied in adherence to standard NICE practice and the review protocol. This is consistent with other reviews in this portfolio.

32.10 Search filters

The following filters were used, in line with standard NICE practice.

32.10.1.1 RCTs

The MEDLINE RCT filter was McMaster Therapy – Medline - “best balance of sensitivity and specificity” version. The standard NICE modifications were used: randomized.mp changed to randomi?ed.mp.

Haynes RB et al. (2005) Optimal search strategies for retrieving scientifically strong studies of treatment from Medline: analytical survey. *BMJ*, 330, 1179-1183.

The Embase (and Emcare) RCT filter was McMaster Therapy – Embase “best balance of sensitivity and specificity” version.

Wong SSL et al. (2006) Developing optimal search strategies for detecting clinically sound treatment studies in EMBASE. *Journal of the Medical Library Association*, 94(1), 41-47.

The PsycINFO filter was developed for the search for Ecigs NMA RQ6.1 in this portfolio. The Eady filter has a relatively low sensitivity (79%) and so additional terms were required. The additional terms were taken from the standard filters that were previously used in NICE public health guidelines. The precision of Eady's Maximizes sensitivity search was too low because it just uses exp Treatment/ which is not a study method or type of trial and so this was removed. The free text from Eady was included and so this filter is at least as sensitive as that version.

Eady AM et al. (2008) PsycINFO search strategies identified methodologically sound therapy studies and review articles for use by clinicians and researchers. *Journal of Clinical Epidemiology*, 61(1): 34-40.

The CINAHL filter was adapted from Glanville et al. (2019). All of the terms were used and in the same way, they were just rearranged slightly to make them quicker to enter e.g. the animals set was used first so that it could also be applied to the RCT set.

Glanville J et al. (2019) Development of a search filter to identify reports of controlled clinical trials within CINAHL Plus. *Health Information & Libraries Journal*, 36(1), 73-90.

No study filters were applied to ASSIA, BNI, HMIC or SPP as no validated filters exist and the results were relatively low to be screened with the resources available.

32.10.1.2 Systematic reviews

The MEDLINE SR filter was "Health-evidence.ca Systematic review search filter" from Lee et al. (2012). The standard NICE modifications were used: pubmed.tw added; systematic review.pt added from MeSH update 2019.

The Embase SR filter was "Health-evidence.ca Systematic review search filter" from Lee et al. (2012).. The standard NICE modifications were used: pubmed.tw added to line medline.tw.

The CINAHL filter was "Health-evidence.ca Systematic review search filter" from Lee et al. (2012). The standard NICE modifications were used: pubmed.tw added to line medline.tw. The filter was also converted from Ovid to the Ebsco interface.

Lee, E. et al. (2012) An optimal search filter for retrieving systematic reviews and meta-analyses. *BMC Medical Research Methodology*, 12(1), 51.

The PsycINFO filter was developed for the search for Ecigs NMA RQ6.1 in this portfolio. The Eady filter has a relatively low sensitivity (81%) and so additional terms were required. The additional terms were taken from the standard filters that were previously used in NICE public health guidelines. The free text from Eady was included and so this filter is at least as sensitive as that version.

Eady AM et al. (2008) PsycINFO search strategies identified methodologically sound therapy studies and review articles for use by clinicians and researchers. *Journal of Clinical Epidemiology*, 61(1): 34-40.

32.11 Search narrative

The search should essentially find a subset of the results retrieved for earlier review questions. Consistency with those earlier searches was prioritised in writing this strategy. The smoking, vaping and NRT terms were taken from earlier reviews and were repeated here for consistency. The MeSH terms were checked for any 2020 updates.

The search includes both cessation and reduction so terms from more than one earlier search had to be incorporated into this one.

Search testing showed that it was necessary to include some named conditions and it would not be sufficient to just use terms for mental health or mental illness. This was after using a test set in the Yale MeSH Analyzer to check whether the papers had been indexed with specific mental disorders. It would not be appropriate to explode the MeSH term Mental Disorders as this would include Substance-Related Disorders, which in turn covers Tobacco Use Disorder. The search is not restricted to the named conditions as it does include a number of terms for mental health in general. The conditions named in the search were taken from previous NICE searches in PH48.

PH48 Review 4: Effectiveness of Smoking cessation interventions in Mental health. The current search is based on the one for PH48 (in January 2011) but it had to be adapted to a different interface and it was also updated.

PH48 Review 4: Effectiveness of Smoking Cessation Interventions in Mental Health: Appendices - see MED on p35

The search overlaps with developmental, behavioural and cognitive disorders but these were retained in the strategy for consistency with PH48.

The numbers are relatively high because it was difficult to separate cessation for people with mental illness from papers about the mental health impacts of smoking cessation on people without a mental illness (e.g. impact on mood). It was not possible to limit numbers to "targeted interventions" because the comparators included "non-targeted" interventions.

The papers listed in the Scoping section above were used to test and validate the search. The MEDLINE search retrieves 28 of the 28 papers in lists 1 and 2 before the study filters are applied.

The search was designed with this overall structure:

(smoking cessation OR smoking reduction OR varenicline OR bupropion OR vaping OR NRT)

AND (Mental Health Services OR Mental Illness OR Named Mental Disorders)

AND (RCTs OR SRs)

AND Limits

Some of the searches have a more complicated structure (MEDLINE, Embase, CDSR and Central). This is because bupropion can be used as an anti-depressant and is used for treating some of the mental health conditions listed. Secondly, there is some research on whether varenicline can cause suicidal thoughts, which is also listed as a MH condition. The search was made more precise, using terms for

smoking that had not been used elsewhere in the strategy. This was not necessary in the databases that did not have subject headings for these drugs.

((smoking cessation OR smoking reduction OR vaping OR NRT) OR
((varenicline OR bupropion) AND (smoking or tobacco)))

AND (Mental Health Services OR Mental Illness OR Named Mental
Disorders)

AND (RCTs OR SRs)

AND Limits

The translations are adapted from MEDLINE and should cover the same conditions. There are discrepancies in the ways that the subject terms are exploded to account for the differences in the thesaurus.

HMIC and SPP used the same strategy. This was translated from MEDLINE using the heading word field and without looking in the thesaurus for individual terms. This is standard NICE practice in line with the research project submitted to Health Information & Libraries Journal.

CINAHL was translated efficiently. All of the terms were translated and checked in the thesaurus but they were not all placed on separate lines, as they are in the Ovid databases. This would have made the search too unwieldy, as the title and abstract fields already have to be separated on the Ebsco platform.

ASSIA and BNI were both searched on the ProQuest platform. This meant that the strategy could not be translated directly and it needed to be simplified to the key concepts. A small number of key subject terms were used. The title field was used without the abstract field. As the title field was being used, it was possible to swap the proximity operators for the AND operator. It was preferable to use this pragmatic approach to removing the databases completely.

The Emcare database was added to the protocol as it has coverage of mental health topics. It has not previously been used in the other reviews. The database is indexed with Emtree and so the strategy is just a re-run of Embase, making it a quick source to use.

The website results were all added to EPPI (some previous review have used a separate Word document).

33 Search for RQ8.1 (Cost effectiveness)

<p>Topic: Tobacco Portfolio</p> <p>Question details:</p> <p>Cost Effectiveness elements of:</p> <p>8.1a In those with mental health conditions, what is the effectiveness and cost effectiveness of tailored smoking cessation interventions?</p> <p>8.1b In those with mental health conditions, what is the effectiveness and cost effectiveness of tailored smoking harm reduction interventions?</p>

33.1 Table of results

Search source	Date searched	Database Platform	Database segment or version
Campbell	13/08/2020	https://campbellcollaboration.org/better-evidence.html	12/08/2020 with 189 records
EconLit	12/08/2020	Ovid	Econlit 1886 to August 06, 2020
Embase	12/08/2020	Ovid	Embase 1974 to 2020 August 11
HTA	12/08/2020	INAHTA https://database.inahata.org/	13/08/2020 with 16929 records
MEDLINE	12/08/2020	Ovid	Ovid MEDLINE(R) ALL 1946 to August 11, 2020
NHS EED	12/08/2020	CRD https://www.crd.york.ac.uk/CRDWeb/	Last updated 31st March 2015
Websites	10-11/08/2020	Browsed original search results	-
Includes from PH48	12/08/2020	Browsed published review	-

Type	Search source	No. of records retrieved	Total Results	De-duplicated
Database	Campbell	0	2130	1708
	EconLit	17		
	Embase	1346		
	HTA	7		
	MEDLINE	741		
	NHS EED	10		
Other source	Websites	8		
	Includes from PH48	1		

33.2 Database strategy outline

The principal search strategy was developed in MEDLINE and has the following structure:

(smoking cessation OR smoking reduction OR varenicline OR bupropion OR vaping OR NRT)

AND

(Mental Health Services OR Mental Illness OR Named Mental Disorders)

AND cost effectiveness filter

AND Limits

33.3 Database strategies

33.3.1 Source: Campbell Library

<https://campbellcollaboration.org/better-evidence.html>

Just searched for single words – once in the keywords, and once in the title field. Used the words below. No truncation or nesting available on the website but used variations of each word (e.g. plurals).

smoking

smoker

tobacco

nicotine

cigar

cigarette

ecig

juul

vape

vaping

bupropion

zyban

varenicline

champix

No results from those searches (conducted on 12 August 2020).

33.3.2 Source: EconLit

Database(s): **Econlit** 1886 to August 06, 2020

Search Strategy:

#	Searches	Results
1	((quit or quits or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or cut or cuts or cutting or abstain* or abstinen* or "giv* up" or discontinu*) adj3 (nicotin* or smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or "hand roll*" or handroll* or rollies or "roll up*" or rollup* or waterpipe* or "water pipe*" or dokha* or hooka* or shisha* or sheesha* or sheeka*)).ti,ab.	301
2	((prequit* or "pre quit*" or "cut* down*" or stopstart* or "stop start*" or "cold turkey*" or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz* or gradual* or withdraw* or substitut* or fading* or taper* or swap* or swop* or switch* or replace* or replacing*) adj3 (nicotin* or smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or "hand roll*" or handroll* or rollies or "roll up*" or rollup* or waterpipe* or "water pipe*" or dokha* or hooka* or shisha* or sheesha* or sheeka*)).ti,ab.	544
3	((harm* or risk*) adj1 (cut or cuts* or cutting* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz* or less* or lower* or small*) adj3 (nicotin* or smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or "hand roll*" or handroll* or rollies or "roll up*" or rollup* or waterpipe* or "water pipe*" or dokha* or hooka* or shisha* or sheesha* or sheeka*)).ti,ab.	18
4	(antismok* or "anti smok*" or exsmoker* or "ex smoker*" or "controlled smoking*").ti,ab.	138
5	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).ti,ab.	44
6	(electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).ti,ab.	17
7	((tobacco* or nicotin* or cigar* or cigs) adj3 (vapor* or vapour* or device* or inhalator* or inhaler*)).ti,ab.	5
8	(nicotin* and (ENDS or ANDS)).ti,ab.	1
9	(nicotin* adj3 deliver* system*).ti,ab.	2
10	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*)).ti,ab.	0
11	(polytobacco* or "poly tobacco*" or multitobacco* or "multi tobacco*").ti,ab.	0
12	(nrt or nicorette* or niquitin* or nicotinell* or nicassist*).ti,ab.	9

13	(nicotin* adj3 (replacement* or substitut* or gum* or inhaled* or inhaler* or inhalant* or inhalator* or spray* or lozenge* or tablet* or transdermal* or patch* or vaccin* or device* or gel* or pastil* or deliver* or sublingual* or therap* or treatment* or nasal* or microtab* or polacrilex* or product or products*)).ti,ab.	37
14	((bupropion* or zyban* or amfebutamone* or quomen* or wellbutrin* or zynabac* or varenicline* or champix* or chantix*) adj3 (smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or "hand roll*" or handroll* or rollies or "roll up*" or rollup* or waterpipe* or "water pipe*" or dokha* or hooka* or shisha* or sheesha* or sheeka*)).ti,ab.	0
15	or/1-14	863
16	((mental* or psychological*) adj2 (disturb* or distress* or stress* or disorder* or syndrome* or ill* or health or healthcare* or "health care*" or emergency* or inpatient* or "in patient*" or nursing* or hospital* or "secure unit*" or service* or intervention* or patient* or condition* or specialist* or department* or "social work*" or "social care*" or service* or organisation* or organization* or disease* or recover*)).ti,ab.	2557
17	((mental* or psychological* or emotional* or affective*) adj2 (unstable* or instabilit* or labil* or symptom*)).ti,ab.	43
18	((anxiety* or bipolar* or dissociat* or feeding* or eating* or mood* or neurotic* or personality* or neurocognitive* or psychotic* or somatoform* or somatisat* or somatizat* or neurodevelopmental* or "neuro developmental*" or trauma* or stress* or panic* or phobic* or phobia* or identity* or "binge eat*" or binging* or "food addiction*" or rumination* or appetite* or depressive* or affective* or cyclothymic* or dysthymic* or cognition* or cognitive* or huntington* or consciousness* or "attention deficit*" or hyperactiv* or overactive* or "over active*" or hyperkinetic* or conduct* or paranoid* or dysmorphi* or conversion* or behavior* or behaviour* or "post traumatic*" or posttraumatic* or rett* or delusion* or trance* or possessi* or obsessi* or compulsion* or compulsive* or adjustment* or "pervasive development*" or depersonali* or dereali* or disintegrativ* or hallucinati* or "motor skill*" or factitious* or munchausen* or "passive aggressive*" or impulse* or impulsive* or disrupt* or distress* or Diogenes* or psychomotor* or memory*) adj3 (disorder* or syndrome*)).ti,ab.	397
19	(amnesi* or psychosis* or psychotic* or schizo* or agoraphobi* or anorexi* or bulimia* or bulimic* or pica or depress* or delirium* or dementia* or Alzheimer* or adhd or addh or ocd or paranoia* or autis* or asperger* or astheni* or neurastheni* or neurosis* or sociopath* or psychopath* or psychoses* or cyclothymi* or dysthymi* or "severe stress*" or "acute stress*" or PTSD* or suicidal* or suicide* or parasuicid* or hypomani* or hysteria* or hallucinosis* or postencephaliti* or "post encephaliti*" or postconcussion* or "post concussion*" or "folie a deux*" or anankasti* or catatoni* or fugue* or oligophreni* or dyslexi* or hypochondriasis* or psychiatr* or trichotillomani*	8554

	or psychastheni* or mania* or alexia* or automutilat* or alexithymi* or psychotrauma* or "psycho trauma*" or apraxi* or dyspraxi*).ti,ab.	
20	(self* adj2 (harm* or injur* or mutilat*)).ti,ab.	44
21	or/16-20	10778
22	15 and 21	17
23	limit 22 to yr="1998 -Current"	17

33.3.3 Source: EmbaseDatabase(s): **Embase** 1974 to 2020 August 11

Search Strategy:

#	Searches	Results
1	smoking cessation/	59154
2	smoking cessation agent/	25
3	smoking cessation program/	3356
4	smoking reduction/	202
5	ex-smoker/	2277
6	nicotine replacement therapy/	5176
7	nicotine gum/	2928
8	nicotine lozenge/	296
9	nicotine patch/	2123
10	nicotine vaccine/	302
11	electronic cigarette/	6546
12	vaping/	2053
13	((quit or quits or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or cut or cuts or cutting or abstain* or abstinen* or "giv* up" or discontinu*) adj3 (nicotin* or smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or "hand roll*" or handroll* or rollies or "roll up*" or rollup* or waterpipe* or "water pipe*" or dokha* or hooka* or shisha* or sheesha* or sheeka*)).ti,ab.	51481
14	((prequit* or "pre quit*" or "cut* down*" or stopstart* or "stop start*" or "cold turkey*" or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz* or gradual* or withdraw* or substitut* or fading* or taper* or swap* or swop* or switch* or replace* or replacing*) adj3 (nicotin* or smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or "hand roll*" or handroll* or rollies or "roll up*" or rollup* or waterpipe* or "water pipe*" or dokha* or hooka* or shisha* or sheesha* or sheeka*)).ti,ab.	37686
15	((harm* or risk*) adj1 (cut or cuts* or cutting* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz* or less* or lower* or small*) adj3 (nicotin* or smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or "hand roll*" or handroll*	1834

	or rollies or "roll up*" or rollup* or waterpipe* or "water pipe*" or dokha* or hooka* or shisha* or sheesha* or sheeka*).ti,ab.	
16	(antismok* or "anti smok*" or exsmoker* or "ex smoker*" or "controlled smoking*).ti,ab.	10514
17	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).ti,ab.	6151
18	(electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*).ti,ab.	4132
19	((tobacco* or nicotin* or cigar* or cigs) adj3 (vapor* or vapour* or device* or inhalator* or inhaler*).ti,ab.	1316
20	(nicotin* and (ENDS or ANDS)).ti,ab.	573
21	(nicotin* adj3 deliver* system*).ti,ab.	707
22	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*).ti,ab.	620
23	(polytobacco* or "poly tobacco*" or multitobacco* or "multi tobacco").ti,ab.	132
24	(nrt or nicorette* or niqutin* or nicotinell* or nicassist*).ti,ab.	2874
25	(nicotin* adj3 (replacement* or substitut* or gum* or inhaled* or inhaler* or inhalant* or inhalator* or spray* or lozenge* or tablet* or transdermal* or patch* or vaccin* or device* or gel* or pastil* or deliver* or sublingual* or therap* or treatment* or nasal* or microtab* or polacrilex* or product or products*).ti,ab.	13987
26	or/1-25	115825
27	Varenicline/	4442
28	amfebutamone/	18309
29	27 or 28	20646
30	"tobacco use"/	10525
31	tobacco consumption/	2692
32	tobacco dependence/	20833
33	exp smoking/	387547
34	bidi smoking/	139
35	exp pipe smoking/	437

36	or/30-35	406841
37	29 and 36	4857
38	((bupropion* or zyban* or amfebutamone* or quomen* or wellbutrin* or zyntabac* or varenicline* or champix* or chantix*) adj3 (smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or "hand roll*" or handroll* or rollies or "roll up*" or rollup* or waterpipe* or "water pipe*" or dokha* or hooka* or shisha* or sheesha* or sheeka*)),ti,ab.	1234
39	26 or 37 or 38	116398
40	exp mental health care/	128978
41	mental health center/	5112
42	community mental health center/	2980
43	psychiatric emergency service/	206
44	psychiatric department/	7561
45	mental health/	138575
46	mental health organization/	329
47	mental health recovery/	336
48	mental patient/	26174
49	mental disease/	219634
50	exp anxiety disorder/	242573
51	exp bipolar disorder/	63478
52	exp dissociative disorder/	8735
53	exp eating disorder/	51539
54	exp mood disorder/	518172
55	exp neurosis/	52855
56	exp personality disorder/	59022
57	"disorders of higher cerebral function"/	1521

58	delirium/	26965
59	exp memory disorder/	76951
60	exp cognitive defect/	492311
61	exp alexia/	1356
62	exp schizophrenia spectrum disorder/	182683
63	exp somatoform disorder/	25630
64	attention deficit disorder/	61390
65	exp psychomotor disorder/	74883
66	exp autism/	70247
67	mental stress/	82024
68	automutilation/	18031
69	exp suicidal behavior/	101933
70	impulse control disorder/	3637
71	Trichotillomania/	2263
72	adjustment disorder/	3810
73	alexithymia/	3716
74	exp psychosis/	278090
75	psychotrauma/	8790
76	exp confusion/	30405
77	mental instability/	5311
78	((mental* or psychological*) adj2 (disturb* or distress* or stress* or disorder* or syndrome* or ill* or health or healthcare* or "health care*" or emergency* or inpatient* or "in patient*" or nursing* or hospital* or "secure unit*" or service* or intervention* or patient* or condition* or specialist* or department* or "social work*" or "social care*" or service* or organisation* or organization* or disease* or recover*)).ti,ab.	335203

79	((mental* or psychological* or emotional* or affective*) adj2 (unstable* or instabilit* or labil* or symptom*)).ti,ab.	30201
80	((anxiety* or bipolar* or dissociat* or feeding* or eating* or mood* or neurotic* or personality* or neurocognitive* or psychotic* or somatoform* or somatisat* or somatizat* or neurodevelopmental* or "neuro developmental*" or trauma* or stress* or panic* or phobic* or phobia* or identity* or "binge eat*" or binging* or "food addiction*" or rumination* or appetite* or depressive* or affective* or cyclothymic* or dysthymic* or cognition* or cognitive* or huntington* or consciousness* or "attention deficit*" or hyperactiv* or overactive* or "over active*" or hyperkinetic* or conduct* or paranoid* or dysmorphi* or conversion* or behavior* or behaviour* or "post traumatic*" or posttraumatic* or rett* or delusion* or trance* or possessi* or obsessi* or compulsion* or compulsive* or adjustment* or "pervasive development*" or depersonali* or dereali* or disintegrativ* or hallucinati* or "motor skill*" or factitious* or munchausen* or "passive aggressive*" or impulse* or impulsive* or disrupt* or distress* or Diogenes* or psychomotor* or memory*) adj3 (disorder* or syndrome*).ti,ab.	446748
81	(amnesi* or psychosis* or psychotic* or schizo* or agoraphobi* or anorexi* or bulimia* or bulimic* or pica or depress* or delirium* or dementia* or Alzheimer* or adhd or addh or ocd or paranoia* or autis* or asperger* or astheni* or neurastheni* or neurosis* or sociopath* or psychopath* or psychoses* or cyclothymi* or dysthymi* or "severe stress*" or "acute stress*" or PTSD* or suicidal* or suicide* or parasuicid* or hypomani* or hysteria* or hallucinosis* or postencephaliti* or "post encephaliti*" or postconcussion* or "post concussion*" or "folie a deux*" or anankasti* or catatoni* or fugue* or oligophreni* or dyslexi* or hypochondriasis* or psychiatr* or trichotillomani* or psychastheni* or mania* or alexia* or automutilat* or alexithymi* or psychotrauma* or "psycho trauma*" or apraxi* or dyspraxi*).ti,ab.	1574606
82	(self* adj2 (harm* or injur* or mutilat*).ti,ab.	16648
83	or/40-82	2512279
84	39 and 83	14194
85	nonhuman/ not (human/ and nonhuman/)	4656053
86	84 not 85	13394
87	(letter or editorial).pt.	1790915
88	86 not 87	12645
89	(conference abstract or conference paper or conference proceeding or "conference review").pt.	4616519
90	88 not 89	10215

91	limit 90 to medline	1724
92	90 not 91	8491
93	limit 92 to english language	8080
94	limit 93 to yr="1998 -Current"	7504
95	health-economics/ or exp economic-evaluation/ or exp health-care-cost/ or pharmacoconomics/ or Monte Carlo Method/ or Decision Tree/	586579
96	(Economic* or cost or costs or costly or costing or costed or price or prices or pricing or pharmaco-economic* or pharmaco economic* or budget*).ti,ab.	1071125
97	((monte adj carlo) or markov or (decision adj2 (tree* or analys*))).ti,ab.	91687
98	(value adj2 (money or monetary)).ti,ab.	3288
99	Quality of Life/ or Quality Adjusted Life Year/ or Quality of Life Index/ or Short Form 36/ or Health Status/	609571
100	(quality of life or quality adjusted life or qaly* or qald* or qale* or qtime* or quality of wellbeing or quality of well-being or willingness to pay or standard gamble* or time trade off* or time tradeoff*).ti,ab.	452345
101	(disability adjusted life or daly).ti,ab.	4798
102	Health* year* equivalent*.ti,ab.	41
103	(sf36 or sf 36 or short form 36 or shortform 36 or sf thirtysix or sf thirty six or shortform thirtysix or shortform thirty six or short form thirtysix or short form thirty six or sf6 or sf 6 or short form 6 or shortform 6 or sf six or sfsix or shortform six or short form six or sf12 or sf 12 or short form 12 or shortform 12 or sf twelve or sftwelve or shortform twelve or short form twelve or sf16 or sf 16 or short form 16 or shortform 16 or sf sixteen or sfsixteen or shortform sixteen or short form sixteen or sf20 or sf 20 or short form 20 or shortform 20 or sf twenty or sftwenty or shortform twenty or short form twenty or euroqol or euro qol or eq5d or eq 5d).ti,ab.	71353
104	or/95-103	1986684
105	((energy or oxygen) adj cost*) or (metabolic adj cost*) or ((energy or oxygen) adj expenditure*).ti,ab.	38684
106	104 not 105	1976849
107	94 and 106	1346

33.3.4 Source: HTA

70	Search Results [7 Hits] Language ✓English Customize ▾	7
69	#68 AND #24	9
68	#67 OR #66 OR #65 OR #64 OR #63 OR #62 OR #61 OR #60 OR #59 OR #58 OR #57 OR #56 OR #55 OR #54 OR #53 OR #52 OR #51 OR #50 OR #49 OR #48 OR #47 OR #46 OR #45 OR #44 OR #43 OR #42 OR #41 OR #40 OR #39 OR #38 OR #37 OR #36 OR #35 OR #34 OR #33 OR #32 OR #31 OR #30 OR #29 OR #28 OR #27 OR #26 OR #25	1308
67	(self* and (harm* or injur* or mutilat*)) [title]	4
66	(amnesi* or psychosis* or psychotic* or schizo* or agoraphobi* or anorexi* or bulimia* or bulimic* or pica or depress* or delirium* or dementia* or Alzheimer* or adhd or addh or ocd or paranoia* or autis* or asperger* or astheni* or neurastheni* or neurosis* or sociopath* or psychopath* or psychoses* or cyclothymi* or dysthymi* or "severe stress*" or "acute stress*" or PTSD* or suicidal* or suicide* or parasuicid* or hypomani* or hysteria* or hallucinosis* or postencephaliti* or "post encephaliti*" or postconcussion* or "post concussion*" or "folie a deux*" or anankasti* or catatoni* or fugue* or oligophreni* or dyslexi* or hypochondriasis* or psychiatr* or trichotillomani* or psychastheni* or mania* or alexia* or automutilat* or alexithymi* or psychotrauma* or "psycho trauma*" or apraxi* or dyspraxi*). [title]	813
65	(anxiety* or bipolar* or dissociat* or feeding* or eating* or mood* or neurotic* or personality* or neurocognitive* or psychotic* or somatoform* or somatisat* or somatizat* or neurodevelopmental* or "neuro developmental*" or trauma* or stress* or panic* or phobic* or phobia* or identity* or "binge eat*" or binging* or "food addiction*" or rumination* or appetite* or depressive* or affective* or cyclothymic* or dysthymic* or cognition* or cognitive* or huntington* or consciousness* or "attention deficit*" or hyperactiv* or overactive* or "over active*" or hyperkinetic* or conduct* or paranoid* or dysmorphi* or conversion* or behavior* or behaviour* or "post traumatic*" or posttraumatic* or rett* or delusion* or trance* or possessi* or obsessi* or compulsion* or compulsive* or adjustment* or "pervasive development*" or depersonali* or dereali* or disintegrativ* or hallucinati* or "motor skill*" or factitious* or munchausen* or "passive aggressive*" or impulse* or impulsive* or disrupt* or distress* or Diogenes* or psychomotor* or memory* or confusion*) [title]	562

64	(mental* or psychological* or emotional* or affective*)[title]	161
63	"Psychomotor Disorders"[mhe]	4
62	"Dyslexia, Acquired"[mhe]	0
61	"Affective Symptoms"[mh]	1
60	"Confusion"[mhe]	2
59	"Memory Disorders"[mhe]	2
58	"Catatonia"[mh]	2
57	"Trichotillomania"[mh]	0
56	"Disruptive, Impulse Control, and Conduct Disorders"[mh]	2
55	"Self-Injurious Behavior"[mhe]	29
54	"Depression"[mh]	68
53	"Stress, Psychological"[mhe]	16
52	"Autism Spectrum Disorder"[mhe]	43
51	"Motor Skills Disorders"[mh]	4
50	"Neurodevelopmental Disorders"[mh]	0
49	"Attention Deficit and Disruptive Behavior Disorders"[mhe]	46
48	"Trauma and Stressor Related Disorders"[mhe]	28
47	"Somatoform Disorders"[mhe]	1
46	"Schizophrenic Psychology"[mh]	1
45	"Schizophrenia Spectrum and Other Psychotic Disorders"[mhe]	55
44	"Neurocognitive Disorders"[mhe]	102
43	"Personality Disorders"[mhe]	5
42	"Neurotic Disorders"[mhe]	0
41	"Mood Disorders"[mhe]	81
40	"Feeding and Eating Disorders"[mhe]	11
39	"Dissociative Disorders"[mhe]	0
38	"Bipolar and Related Disorders"[mhe]	22
37	"Anxiety Disorders"[mhe]	30
36	"Mental Disorders"[mh]	92
35	"Mentally Ill Persons"[mh]	5
34	"Mental Health Recovery"[mh]	0

33	"Mental Health"[mh]	81
32	"Psychiatric Nursing"[mh]	4
31	"Hospitals, Psychiatric"[mh]	4
30	"Psychiatric Department, Hospital"[mh]	2
29	"Social Work, Psychiatric"[mh]	0
28	"Emergency Services, Psychiatric"[mh]	2
27	"Community Mental Health Centers"[mh]	1
26	"Community Mental Health Services"[mh]	8
25	"Mental Health Services"[mh]	57
24	#23 OR #22 OR #15	93
23	((bupropion* or zyban* or amfebutamone* or quomen* or wellbutrin* or zyantabac* or varenicline* or champix* or chantix*) and (smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or "hand roll*" or handroll* or rollies or "roll up*" or rollup* or waterpipe* or "water pipe*" or dokha* or hooka* or shisha* or sheesha* or sheeka*)))[title]	13
22	#21 AND #18	0
21	#20 OR #19	1
20	"Tobacco Smoking"[mhe]	0
19	"Tobacco Use Disorder"[mh]	1
18	#17 OR #16	11
17	"Bupropion"[mh]	9
16	"Varenicline"[mh]	2
15	#14 OR #13 OR #12 OR #11 OR #10 OR #9 OR #8 OR #7 OR #6 OR #5 OR #4 OR #3 OR #2 OR #1	93
14	(nrt or nicorette* or niquitin* or nicotinell* or nicassist*)[title]	2
13	(polytobacco* or "poly tobacco*" or multitobacco* or "multi tobacco*") [title]	0
12	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS)[title]	4
11	(antismok* or "anti smok*" or exsmoker* or "ex smoker*" or "controlled smoking*") [title]	0
10	(nicotin* or smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or "hand roll*" or handroll* or rollies or "roll up*" or rollup* or waterpipe* or "water pipe*" or dokha* or hooka* or shisha* or sheesha* or sheeka*) [title]	87
9	"Vaping"[mh]	0

8	"Electronic Nicotine Delivery Systems"[mh]	0
7	"Ex-Smokers"[mh]	0
6	"Smokers"[mh]	0
5	"Smoking Reduction"[mh]	0
4	"Tobacco Use Cessation Devices"[mhe]	0
3	"Smoking Cessation Agents"[mh]	0
2	"Tobacco Use Cessation"[mh]	2
1	(smoking cessation)[mh]	63

33.3.5 Source: MEDLINEDatabase(s): **Ovid MEDLINE(R) ALL** 1946 to August 11, 2020

Search Strategy:

#	Searches	Results
1	"tobacco use cessation"/	1167
2	"smoking cessation"/	28616
3	Smoking cessation agents/	159
4	exp "tobacco use cessation devices"/	1820
5	smoking reduction/	52
6	Smokers/	1881
7	Ex-smokers/	73
8	Electronic Nicotine Delivery Systems/	3459
9	vaping/	1040
10	((quit or quits or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or cut or cuts or cutting or abstain* or abstinen* or "giv* up" or discontinu*) adj3 (nicotin* or smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or "hand roll*" or handroll* or rollies or "roll up*" or rollup* or waterpipe* or "water pipe*" or dokha* or hooka* or shisha* or sheesha* or sheeka*)).ti,ab.	39229
11	((prequit* or "pre quit*" or "cut* down*" or stopstart* or "stop start*" or "cold turkey*" or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz* or gradual* or withdraw* or substitut* or fading* or taper* or swap* or swop* or switch* or replace* or replacing*) adj3 (nicotin* or smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or "hand roll*" or handroll* or rollies or "roll up*" or rollup* or waterpipe* or "water pipe*" or dokha* or hooka* or shisha* or sheesha* or sheeka*)).ti,ab.	31231
12	((harm* or risk*) adj1 (cut or cuts* or cutting* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz* or less* or lower* or small*) adj3 (nicotin* or smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or "hand roll*" or handroll* or rollies or "roll up*" or rollup* or waterpipe* or "water pipe*" or dokha* or hooka* or shisha* or sheesha* or sheeka*)).ti,ab.	1545
13	(antismok* or "anti smok*" or exsmoker* or "ex smoker*" or "controlled smoking*").ti,ab.	6502

14	(ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS).ti,ab.	5181
15	(electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*)).ti,ab.	3482
16	((tobacco* or nicotin* or cigar* or cigs) adj3 (vapor* or vapour* or device* or inhalator* or inhaler*)).ti,ab.	1015
17	(nicotin* and (ENDS or ANDS)).ti,ab.	500
18	(nicotin* adj3 deliver* system*).ti,ab.	615
19	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*)).ti,ab.	554
20	(polytobacco* or "poly tobacco*" or multitobacco* or "multi tobacco*").ti,ab.	137
21	(nrt or nicorette* or niquitin* or nicotinell* or nicassist*).ti,ab.	2184
22	(nicotin* adj3 (replacement* or substitut* or gum* or inhaled* or inhaler* or inhalant* or inhalator* or spray* or lozenge* or tablet* or transdermal* or patch* or vaccin* or device* or gel* or pastil* or deliver* or sublingual* or therap* or treatment* or nasal* or microtab* or polacrilex* or product or products*)).ti,ab.	11323
23	or/1-22	81046
24	Varenicline/	1297
25	Bupropion/	3035
26	24 or 25	3972
27	"tobacco use disorder"/	11220
28	exp Tobacco Smoking/	3046
29	27 or 28	14043
30	26 and 29	642
31	((bupropion* or zyban* or amfebutamone* or quomen* or wellbutrin* or zyntabac* or varenicline* or champix* or chantix*) adj3 (smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or "hand roll*" or handroll* or rollies or "roll up*" or rollup* or waterpipe* or "water pipe*" or dokha* or hooka* or shisha* or sheesha* or sheeka*)).ti,ab.	872
32	23 or 30 or 31	81080

33	Mental Health Services/	33890
34	Community Mental Health Services/	18536
35	Community Mental Health Centers/	2952
36	Emergency Services, Psychiatric/	2442
37	Social Work, Psychiatric/	2683
38	Psychiatric Department, Hospital/	6755
39	Hospitals, Psychiatric/	25213
40	Psychiatric Nursing/	17464
41	Mental Health/	38559
42	mental health recovery/	137
43	Mentally Ill Persons/	6161
44	Mental Disorders/	162633
45	exp Anxiety Disorders/	79378
46	exp "Bipolar and Related Disorders"/	40325
47	exp Dissociative Disorders/	4281
48	exp "Feeding and Eating Disorders"/	30657
49	exp Mood Disorders/	122132
50	exp Neurotic Disorders/	17977
51	exp Personality Disorders/	41326
52	exp Neurocognitive Disorders/	254475
53	exp "Schizophrenia Spectrum and Other Psychotic Disorders"/	147772
54	Schizophrenic Psychology/	33383
55	exp Somatoform Disorders/	19030
56	exp "Trauma and Stressor Related Disorders"/	40643

57	exp "Attention Deficit and Disruptive Behavior Disorders"/	32764
58	Neurodevelopmental Disorders/	2228
59	Motor Skills Disorders/	2891
60	exp Autism Spectrum Disorder/	30146
61	exp Stress, Psychological/	131412
62	Depression/	119315
63	exp Self-Injurious Behavior/	70854
64	"Disruptive, Impulse Control, and Conduct Disorders"/	2501
65	Trichotillomania/	973
66	Catatonia/	2484
67	exp Memory Disorders/	29551
68	exp Confusion/	14033
69	Affective Symptoms/	12981
70	exp Dyslexia, Acquired/	963
71	exp Psychomotor Disorders/	13525
72	((mental* or psychological*) adj2 (disturb* or distress* or stress* or disorder* or syndrome* or ill* or health or healthcare* or "health care*" or emergency* or inpatient* or "in patient*" or nursing* or hospital* or "secure unit*" or service* or intervention* or patient* or condition* or specialist* or department* or "social work*" or "social care*" or service* or organisation* or organization* or disease* or recover*)).ti,ab.	264440
73	((mental* or psychological* or emotional* or affective*) adj2 (unstable* or instabilit* or labil* or symptom*)).ti,ab.	21701
74	((anxiety* or bipolar* or dissociat* or feeding* or eating* or mood* or neurotic* or personality* or neurocognitive* or psychotic* or somatoform* or somatisat* or somatizat* or neurodevelopmental* or "neuro developmental*" or trauma* or stress* or panic* or phobic* or phobia* or identity* or "binge eat*" or binging* or "food addiction*" or rumination* or appetite* or depressive* or affective* or cyclothymic* or dysthymic* or cognition* or cognitive* or huntington* or consciousness* or "attention deficit*" or hyperactiv* or overactive* or "over active*" or	327110

	hyperkinetic* or conduct* or paranoid* or dysmorphi* or conversion* or behavior* or behaviour* or "post traumatic*" or posttraumatic* or rett* or delusion* or trance* or possessi* or obsessi* or compulsion* or compulsive* or adjustment* or "pervasive development*" or depersonali* or dereali* or disintegrativ* or hallucinati* or "motor skill*" or factitious* or munchausen* or "passive aggressive*" or impulse* or impulsive* or disrupt* or distress* or Diogenes* or psychomotor* or memory* or confusion*) adj3 (disorder* or syndrome*).ti,ab.	
75	(amnesi* or psychosis* or psychotic* or schizo* or agoraphobi* or anorexi* or bulimia* or bulimic* or pica or depress* or delirium* or dementia* or Alzheimer* or adhd or addh or ocd or paranoia* or autis* or asperger* or astheni* or neurastheni* or neurosis* or sociopath* or psychopath* or psychoses* or cyclothymi* or dysthymi* or "severe stress*" or "acute stress*" or PTSD* or suicidal* or suicide* or parasuicid* or hypomani* or hysteria* or hallucinosis* or postencephaliti* or "post encephaliti*" or postconcussion* or "post concussion*" or "folie a deux*" or anankasti* or catatoni* or fugue* or oligophreni* or dyslexi* or hypochondriasis* or psychiatr* or trichotillomani* or psychastheni* or mania* or alexia* or automutilat* or alexithymi* or psychotrauma* or "psycho trauma*" or apraxi* or dyspraxi*).ti,ab.	1209280
76	(self* adj2 (harm* or injur* or mutilat*).ti,ab.	13126
77	or/33-76	1833458
78	32 and 77	7828
79	Animals/ not (Animals/ and Humans/)	4691456
80	78 not 79	7237
81	limit 80 to (letter or historical article or comment or editorial or news or case reports)	515
82	80 not 81	6722
83	limit 82 to english language	6391
84	limit 83 to yr="1998 -Current"	5885
85	Economics/ or exp "Costs and Cost Analysis"/ or Economics, Dental/ or exp Economics, Hospital/ or exp Economics, Medical/ or Economics, Nursing/ or Economics, Pharmaceutical/ or Budgets/ or exp Models, Economic/ or Markov Chains/ or Monte Carlo Method/ or Decision Trees/	346218
86	(Economic* or cost or costs or costly or costing or costed or price or prices or pricing or pharmacoeconomic* or pharmaco economic* or budget*).ti,ab.	820893
87	((monte adj carlo) or markov or (decision adj2 (tree* or analys*))).ti,ab.	80059

88	(value adj2 (money or monetary)).ti,ab.	2392
89	Quality of Life/ or Health Status Indicators/ or Quality-Adjusted Life Years/ or Value of Life/	227934
90	(quality of life or quality adjusted life or qaly* or qald* or qale* or qtime* or quality of wellbeing or quality of well-being or willingness to pay or standard gamble* or time trade off* or time tradeoff*).ti,ab.	284592
91	(disability adjusted life or daly).ti,ab.	3815
92	health* year* equivalent*.ti,ab.	40
93	(sf36 or sf 36 or short form 36 or shortform 36 or sf thirtysix or sf thirty six or shortform thirtysix or shortform thirty six or short form thirtysix or short form thirty six).ti,ab.	25777
94	(sf6 or sf 6 or short form 6 or shortform 6 or sf six or sfsix or shortform six or short form six).ti,ab.	2161
95	(sf12 or sf 12 or short form 12 or shortform 12 or sf twelve or sftwelve or shortform twelve or short form twelve).ti,ab.	5886
96	(sf16 or sf 16 or short form 16 or shortform 16 or sf sixteen or sfsixteen or shortform sixteen or short form sixteen).ti,ab.	35
97	(sf20 or sf 20 or short form 20 or shortform 20 or sf twenty or sftwenty or shortform twenty or short form twenty).ti,ab.	406
98	(euroqol or euro qol or eq5d or eq 5d).ti,ab.	11229
99	or/85-98	1360430
100	((energy or oxygen) adj cost*) or (metabolic adj cost*) or ((energy or oxygen) adj expenditure*).ti,ab.	31575
101	99 not 100	1351695
102	84 and 101	741

33.3.6 Source: NHS EED

1	MeSH DESCRIPTOR Tobacco Use Cessation	13
2	MeSH DESCRIPTOR Smoking Cessation	475
3	MeSH DESCRIPTOR Vaping	0
4	MeSH DESCRIPTOR Electronic Cigarettes	1
5	MeSH DESCRIPTOR Tobacco Use Cessation Products	25
6	((quit or quits or quitting* or stop or stops* or stopping* or stopped* or stoppage* or cease or ceases* or ceasing* or cessation* or cut or cuts or cutting or abstain* or abstinen* or "giv* up" or discontinu*) adj3 (nicotin* or smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or "hand roll*" or handroll* or rollies or "roll up*" or rollup* or waterpipe* or "water pipe*" or dokha* or hooka* or shisha* or sheesha* or sheeka*))	373
7	((prequit* or "pre quit*" or "cut* down*" or stopstart* or "stop start*" or "cold turkey*" or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz* or gradual* or withdraw* or substitut* or fading* or taper* or swap* or swop* or switch* or replace* or replacing*) adj3 (nicotin* or smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or "hand roll*" or handroll* or rollies or "roll up*" or rollup* or waterpipe* or "water pipe*" or dokha* or hooka* or shisha* or sheesha* or sheeka*))	192
8	((harm* or risk*) adj1 (cut or cuts* or cutting* or reduc* or declin* or limit* or decreas* or minimal* or minimis* or minimiz* or less* or lower* or small*) adj3 (nicotin* or smok* or tobacco* or cigar* or cigs or bidi or bidis or beedi or beedis or kretek* or "hand roll*" or handroll* or rollies or "roll up*" or rollup* or waterpipe* or "water pipe*" or dokha* or hooka* or shisha* or sheesha* or sheeka*))	9
9	((antismok* or "anti smok*" or exsmoker* or "ex smoker*" or "controlled smoking*"))	40
10	((ecig* or e-cig* or e-voke* or juul* or vape* or vaping* or ENNDS))	6
11	((electronic* adj3 (tobacco* or nicotin* or cigar* or cigs or vapor* or vapour*))	7
12	((tobacco* or nicotin* or cigar* or cigs) adj3 (vapor* or vapour* or device* or inhalator* or inhaler*))	15
13	((nicotin* and (ENDS or ANDS))	1
14	((nicotin* adj3 deliver* system*))	2
15	((tobacco* or nicotin* or cigar* or cigs) adj3 (dual* or multiple* or multi) adj3 ("use" or uses or user* or usage* or using*))	0
16	((polytobacco* or "poly tobacco*" or multitobacco* or "multi tobacco*"))	0
17	((nrt or nicorette* or niquitin* or nicotinell* or nicassist*))	82
18	((nicotin* adj3 (replacement* or substitut* or gum* or inhaled* or inhaler* or inhalant* or inhalator* or spray* or lozenge* or tablet* or transdermal*))	227

	or patch* or vaccin* or device* or gel* or pastil* or deliver* or sublingual* or therap* or treatment* or nasal* or microtab* or polacrilex* or product or products*))	
19	#1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 OR #9 OR #10 OR #11 OR #12 OR #13 OR #14 OR #15 OR #16 OR #17 OR #18	694
20	MeSH DESCRIPTOR Varenicline	35
21	MeSH DESCRIPTOR Bupropion	74
22	#20 OR #21	92
23	MeSH DESCRIPTOR Tobacco Use Disorder	80
24	MeSH DESCRIPTOR Smoking EXPLODE ALL TREES	360
25	#23 OR #24	411
26	#22 AND #25	48
27	#19 OR #26	694
28	MeSH DESCRIPTOR Mental Health Services	226
29	MeSH DESCRIPTOR Community Mental Health Services	119
30	MeSH DESCRIPTOR Community Mental Health Centers	16
31	MeSH DESCRIPTOR Emergency Services, Psychiatric	9
32	MeSH DESCRIPTOR Emergency Services, Psychiatric	9
33	MeSH DESCRIPTOR Psychiatric Department, Hospital	10
34	MeSH DESCRIPTOR Hospitals, Psychiatric	42
35	MeSH DESCRIPTOR Psychiatric Nursing	27
36	MeSH DESCRIPTOR Mental Health	158
37	MeSH DESCRIPTOR Mentally Ill Persons	16
38	MeSH DESCRIPTOR Mental Disorders	526
39	MeSH DESCRIPTOR Anxiety Disorders EXPLODE ALL TREES	380
40	MeSH DESCRIPTOR Bipolar and Related Disorders EXPLODE ALL TREES	190
41	MeSH DESCRIPTOR Dissociative Disorders EXPLODE ALL TREES	1
42	MeSH DESCRIPTOR Feeding and Eating Disorders EXPLODE ALL TREES	92
43	MeSH DESCRIPTOR Mood Disorders EXPLODE ALL TREES	1064
44	MeSH DESCRIPTOR Neurotic Disorders EXPLODE ALL TREES	2
45	MeSH DESCRIPTOR Personality Disorders EXPLODE ALL TREES	69
46	MeSH DESCRIPTOR Neurocognitive Disorders EXPLODE ALL TREES	931

47	MeSH DESCRIPTOR Schizophrenia Spectrum and Other Psychotic Disorders EXPLODE ALL TREES	647
48	MeSH DESCRIPTOR Schizophrenic Psychology EXPLODE ALL TREES	96
49	MeSH DESCRIPTOR Somatoform Disorders EXPLODE ALL TREES	46
50	MeSH DESCRIPTOR Trauma and Stressor Related Disorders EXPLODE ALL TREES	152
51	MeSH DESCRIPTOR Attention Deficit and Disruptive Behavior Disorders EXPLODE ALL TREES	215
52	MeSH DESCRIPTOR Neurodevelopmental Disorders	3
53	MeSH DESCRIPTOR Motor Skills Disorders	18
54	MeSH DESCRIPTOR Autism Spectrum Disorder EXPLODE ALL TREES	9
55	MeSH DESCRIPTOR Stress, Psychological EXPLODE ALL TREES	244
56	MeSH DESCRIPTOR Depression	639
57	MeSH DESCRIPTOR Self-Injurious Behavior EXPLODE ALL TREES	149
58	MeSH DESCRIPTOR Disruptive, Impulse Control, and Conduct Disorders	4
59	MeSH DESCRIPTOR Trichotillomania	2
60	MeSH DESCRIPTOR Catatonia	5
61	MeSH DESCRIPTOR Memory Disorders EXPLODE ALL TREES	40
62	MeSH DESCRIPTOR Confusion EXPLODE ALL TREES	77
63	MeSH DESCRIPTOR Affective Symptoms	13
64	MeSH DESCRIPTOR Dyslexia, Acquired EXPLODE ALL TREES	1
65	MeSH DESCRIPTOR Psychomotor Disorders EXPLODE ALL TREES	58
66	((((mental* or psychological*) adj2 (disturb* or distress* or stress* or disorder* or syndrome* or ill* or health or healthcare* or "health care*" or emergency* or inpatient* or "in patient*" or nursing* or hospital* or "secure unit*" or service* or intervention* or patient* or condition* or specialist* or department* or "social work*" or "social care*" or service* or organisation* or organization* or disease* or recover*))))	2652
67	((((mental* or psychological* or emotional* or affective*) adj2 (unstable* or instabilit* or labil* or symptom*))))	148
68	((((anxiety* or bipolar* or dissociat* or feeding* or eating* or mood* or neurotic* or personality* or neurocognitive* or psychotic* or somatoform* or somatisat* or somatizat* or neurodevelopmental* or "neuro developmental*" or trauma* or stress* or panic* or phobic* or phobia* or identity* or "binge eat*" or binging* or "food addiction*" or rumination* or appetite* or depressive* or affective* or cyclothymic* or dysthymic* or	3553

	cognition* or cognitive* or huntington* or consciousness* or "attention deficit*" or hyperactiv* or overactive* or "over active*" or hyperkinetic* or conduct* or paranoid* or dysmorphi* or conversion* or behavior* or behaviour* or "post traumatic*" or posttraumatic* or rett* or delusion* or trance* or possessi* or obsessi* or compulsion* or compulsive* or adjustment* or "pervasive development*" or depersonali* or dereali* or disintegrativ* or hallucinati* or "motor skill*" or factitious* or munchausen* or "passive aggressive*" or impulse* or impulsive* or disrupt* or distress* or Diogenes* or psychomotor* or memory* or confusion*) adj3 (disorder* or syndrome*))	
69	((amnesi* or psychosis* or psychotic* or schizo* or agoraphobi* or anorexi* or bulimia* or bulimic* or pica or depress* or delirium* or dementia* or Alzheimer* or adhd or addh or ocd or paranoia* or autis* or asperger* or astheni* or neurastheni* or neurosis* or sociopath* or psychopath* or psychoses* or cyclothymi* or dysthymi* or "severe stress*" or "acute stress*" or PTSD* or suicidal* or suicide* or parasuicid* or hypomani* or hysteria* or hallucinosis* or postencephaliti* or "post encephaliti*" or postconcussion* or "post concussion*" or "folie a deux*" or anankasti* or catatoni* or fugue* or oligophreni* or dyslexi* or hypochondriasis* or psychiatr* or trichotillomani* or psychastheni* or mania* or alexia* or automutilat* or alexithymi* or psychotrauma* or "psycho trauma*" or apraxi* or dyspraxi*))	6582
70	((self* adj2 (harm* or injur* or mutilat*)))	111
71	#28 OR #29 OR #30 OR #31 OR #32 OR #33 OR #34 OR #35 OR #36 OR #37 OR #38 OR #39 OR #40 OR #41 OR #42 OR #43 OR #44 OR #45 OR #46 OR #47 OR #48 OR #49 OR #50 OR #51 OR #52 OR #53 OR #54 OR #55 OR #56 OR #57 OR #58 OR #59 OR #60 OR #61 OR #62 OR #63 OR #64 OR #65 OR #66 OR #67 OR #68 OR #69 OR #70	8583
72	#27 AND #71	76
73	(#27 and #71) FROM 1998 TO 2020	71
74	(#27 and #71) IN NHSEED FROM 1998 TO 2020	10

33.4 Includes from PH48

Checked the included publications from PH48 using this cost effectiveness review:

Matrix Evidence (2012) Smoking cessation in secondary care: cost-effectiveness review.

The searches were done in March 2012. This identified one paper (see p.50):

Interventions for smoking cessation in mental health settings. One high quality study found a smoking cessation intervention for out-patients with depression in the US to be cost-effective.

Barnett et al. (2008) [++]

Barnett PG, Wong W, & Hall S, (2008). The cost-effectiveness of a smoking cessation program for out-patients in treatment for depression. *Addiction* (Abingdon, England), 103(5), 834–840. doi:10.1111/j.1360-0443.2008.02167.x

No further included publications were identified from checking the following reports:

MAPI Consultancy (2012) A rapid review of economic evidence on tobacco harm reduction strategies [Internal access only. Report for PH45]

Pfizer (2007) Varenicline. Single Technology Appraisal Submission [Report for TA123]

YHEC (2006) A Rapid Review of: The Cost-Effectiveness of National Health Services Treatments for Smoking Cessation in England [Internal access only. Report for PH10]

Note: no cost effectiveness review was undertaken for NG92 (Stop smoking interventions and services) as a bespoke model was developed.

33.5 Web searching

The web results from the searches for RQ8.1 Effectiveness (completed on 10 August 2020) were re-scanned on 12 August 2020 for any results potentially relevant to this review. For full details of the search strategies and sources see the search history document for RQ8.1.

Sources used
Health Services/Technology Assessment Texts (HSTAT) https://www.ncbi.nlm.nih.gov/books/NBK16710
NICE Evidence Search https://www.evidence.nhs.uk
Tobacco Control for the WHO European Region http://www.euro.who.int/en/health-topics/disease-prevention/tobacco/publications/a-z-list-of-all-publications2
Action on Smoking and Health (ASH) http://ash.org.uk/home
Centre for Mental Health https://www.centreformentalhealth.org.uk/
Local Government Association https://www.local.gov.uk
Mind https://www.mind.org.uk
National Centre for Smoking Cessation and Training http://www.ncsct.co.uk
Northern Ireland Assembly http://www.niassembly.gov.uk
Public Health England https://www.gov.uk/government/organisations/public-health-england
Royal College of Psychiatrists https://www.rcpsych.ac.uk/
Royal College of Physicians https://www.rcplondon.ac.uk
Scottish Government https://www.gov.scot

Smokefree NHS <https://www.nhs.uk/smokefree>

Smoking Toolkit Study <http://www.smokinginengland.info>

Treat Tobacco <http://www.treattobacco.net/en/index.php>

UK Centre for Tobacco and Alcohol Studies
<https://www.nottingham.ac.uk/research/groups/tobaccoandalcohol/index.aspx>

University of Bath Tobacco Control Research Group
<https://researchportal.bath.ac.uk/en/organisations/uk-centre-for-tobacco-control-studies>

University of Stirling Centre for Tobacco Control Research
<https://www.stir.ac.uk/about/faculties-and-services/health-sciences-sport/research/research-groups/centre-for-tobacco-control-research/publications>

Welsh Government <https://gov.wales/?lang=en>

Public Health England (2020) Vaping in England: an evidence update including mental health and pregnancy, March 2020. A report commissioned by Public Health England

- See Chapter 5: Systematic review of vaping among people with mental health conditions
- Checked this report and none of the included papers are cost effectiveness studies.

https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/869401/Vaping_in_England_evidence_update_March_2020.pdf

Results selected for this review

Smoking Cessation: A Report of the Surgeon General

<https://www.ncbi.nlm.nih.gov/books/NBK555591/>

- See Ch 5. The Benefits of Smoking Cessation on Overall Morbidity, Mortality, and Economic Costs.

Centre for Mental Health A time to quit. Experiences of smoking cessation support among people with severe mental illness

https://www.centreformentalhealth.org.uk/sites/default/files/2020-03/CentreforMH_HWBA_SmokingCessation_0.pdf

ASH factsheet: Smoking and Mental Health https://ash.org.uk/wp-content/uploads/2019/08/ASH-Factsheet_Mental-Health_v3-2019-27-August-1.pdf

ASH Stolen years. The Mental Health and Smoking Action Report

<https://ash.org.uk/information-and-resources/reports-submissions/reports/the-stolen-years/>

Royal College of Physicians (RCP) Hiding in plain sight: treating tobacco dependency in the NHS <https://www.rcplondon.ac.uk/projects/outputs/hiding-plain-sight-treating-tobacco-dependency-nhs>

ASH Mental health, smoking and poverty in the UK. A report commissioned by Public Health England and Action on Smoking and Health

Tobacco use and mental health. Policy brief (2020)

<https://www.euro.who.int/en/health-topics/disease-prevention/tobacco/publications/2020/tobacco-use-and-mental-health.-policy-brief-2020>

Smoking cessation in secure mental health settings – guidance for commissioners https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/432222/Smoking_Cessation_in_Secure_Mental_Health_Settings_-_guidance_for_commis....pdf

33.6 Search admin

33.6.1 EPPI-Reviewer and deduplication

The search results were managed in EPPI-Reviewer v5.

Duplicates were removed in EPPI-R5 using a two-step process. First, automated deduplication is performed using a high-value algorithm. Second, manual deduplication is used to assess 'low-probability' matches. All decisions made for the review can be accessed via the deduplication history.

33.6.2 Database translations

The principal search strategy was developed in MEDLINE (Ovid interface) and adapted, as appropriate, for use in the other sources listed in the protocol, taking into account their size, search functionality and subject coverage.

33.6.3 Quality assurance

The MEDLINE strategy below was quality assured (QA) by trained member of the IS team. All translated search strategies were peer reviewed to ensure their accuracy. Both procedures were adapted from the 2016 PRESS Checklist.

33.7 Search limits

The limit to remove animal studies was the standard NICE practice, which has been adapted from:

Dickersin, K., Scherer, R., & Lefebvre, C. (1994). Systematic Reviews: Identifying relevant studies for systematic reviews. *BMJ*, 309(6964), 1286.

The animals limit in Embase was retained from the RQ8.1 effectiveness search rather than using the terms attached to the cost effectiveness filter.

English language limits were applied in adherence to standard NICE practice and the review protocol.

The reason for limiting the search to 1998 to current was to be consistent with the other reviews in this portfolio, as defined in the protocol for this question

Limits to exclude letters, editorials, news, conferences were applied in adherence to standard NICE practice and the review protocol. This is consistent with other reviews in this portfolio.

33.8 Search filters

The standard NICE cost effectiveness filters used since 2012 were applied to be consistent with earlier reviews in this portfolio. These filters were originally based on the Centre for Reviews and Dissemination NHS EED filter (2009) cited in Glanville et al. (2009) and subsequently updated and modified for standard NICE practice.

Glanville J et al. (2009) Development and Testing of Search Filters to Identify Economic Evaluations in MEDLINE and EMBASE. Alberta: Canadian Agency for Drugs and Technologies in Health (CADTH)

33.9 Search narrative

The subject terms are based on the strategy used for effectiveness with the systematic review and RCT filters replaced with cost effectiveness filter.

Search testing for the effectiveness review showed that it was necessary to include some named conditions and it would not be sufficient to just use terms for mental health or mental illness. The conditions named in the search were taken from previous NICE searches in PH48.

PH48 Review 4: Effectiveness of Smoking cessation interventions in Mental health.

The search overlaps with developmental, behavioural and cognitive disorders but these were retained in the strategy for consistency with PH48.

The numbers are relatively high because it was difficult to separate cessation for people with mental illness from papers about the mental health impacts of smoking cessation on people without a mental illness (e.g. impact on mood). It was not possible to limit numbers to "targeted interventions" because the comparators included "non-targeted" interventions.

The search was designed with this overall structure:

(smoking cessation OR smoking reduction OR varenicline OR bupropion OR vaping OR NRT)

AND (Mental Health Services OR Mental Illness OR Named Mental Disorders)

AND (RCTs OR SRs)

AND Limits

Some of the searches have a more complicated structure because bupropion can be used as an anti-depressant and is used for treating some of the mental health conditions listed. Secondly, there is some research on whether varenicline can cause suicidal thoughts, which is also listed as in the conditions. The search was made more precise, using terms for smoking that had not been used elsewhere in the strategy. This was not necessary in the databases that did not have subject headings for these drugs.

((smoking cessation OR smoking reduction OR vaping OR NRT) OR ((varenicline OR bupropion) AND (smoking or tobacco)))

AND (Mental Health Services OR Mental Illness OR Named Mental Disorders)

AND (RCTs OR SRs)

AND Limits

The translations are adapted from MEDLINE and should cover the same conditions. There are discrepancies in the ways that the subject terms are exploded to account for the differences in the thesaurus.

The website results were all added to EPPI manually (some previous review have used a separate Word document).

NHS EED is not currently being updated. Bibliographic records were published on NHS EED until 31st March 2015. Searches of MEDLINE, Embase, CINAHL, PsycINFO and PubMed were continued until the end of the 2014. Some of the MeSH headings could not be used as they were not available in the CRD interface.

The INAHTA database was launched in summer 2020 and was used for the first time. The CRD interface was used for previous reviews in this portfolio. The strategy was checked in the CRD interface and the same seven results were returned. The title field was used without the abstract field as the proximity operator is not available in INAHTA and this meant the free text could be simplified to the key concepts.