

## **APPENDIX 9:**

### **SEARCH STRATEGIES FOR THE IDENTIFICATION OF CLINICAL STUDIES**

The search strategies should be referred to in conjunction with information set out in Chapter 3, Section 3.5. Each search was constructed using the groups of terms as set out in the table below. The full set of terms for each search in MEDLINE are documented below.

## Summary of systematic search strategies

Chapter 4: experience of care				
Review area	Search type	Search construction (applicable to each review area)	Study design	Databases/date range
Experience of care	Update (Taylor <i>et al.</i> , 2009)	[(Self-harm terms) AND (Experience of care terms) AND (Qualitative/survey lit terms)]	Qualitative studies, quantitative studies [survey literature]	CINAHL, EMBASE, HMIC, IBSS, MEDLINE, PsycBOOKS, PsycEXTRA, PsycINFO [1 January 2006 up to 25 January 2011]
		*[(Self-harm terms) AND (SR filter)]	Systematic reviews	CINAHL, EMBASE, MEDLINE, PsycINFO, CDSR, DARE [1 January 2006 up to 25 January 2011]
* Generic search for systematic reviews conducted for evidence relating to all clinical questions.				
Chapter 5: training				
Review area	Search type	Search construction (applicable to each review area)	Study design	Databases/date range
Staff training	New	[(Self-harm terms) AND (Staff training terms) AND (RCT filter)]	RCTs	CINAHL, EMBASE, MEDLINE, PsycINFO, CENTRAL [inception of databases up to 25 January 2011]
		*[(Self-harm terms) AND (SR filter)]	Systematic reviews	CINAHL, EMBASE, MEDLINE, PsycINFO, CDSR, DARE [1 January 1995 up to 25 January 2011]
* Generic search for systematic reviews conducted for evidence relating to all clinical questions.				

Chapter 6: psychosocial assessment				
Review area	Search type	Search construction (applicable to each review area)	Study design	Databases/date range
Risk and protective factors	New	[(Self-harm terms) AND (Risk and protective factor terms) AND (Observational filter)]	Observational studies	CINAHL, EMBASE, MEDLINE, PsycINFO [inception of databases up to 25 January 2011]
		*[(Self-harm terms) AND (SR filter)]	Systematic reviews	CDSR, CINAHL, DARE, EMBASE, MEDLINE, PsycINFO [1 January 1995 up to 25 January 2011]
Risk assessment, needs assessment and psychosocial assessment	New	[(Self-harm terms) AND (Risk assessment, needs assessment, psychosocial assessment terms) AND (Observational filter)]	Observational studies	CINAHL, EMBASE, MEDLINE, PsycINFO [inception of databases up to 25 January 2011]
		*[(Self-harm terms) AND (SR filter)]	Systematic reviews	CINAHL, EMBASE, MEDLINE, PsycINFO, CDSR, DARE [1 January 1995 up to 25 January 2011]

*\* Generic search for systematic reviews conducted for evidence relating to all clinical questions.*

Chapter 7: psychological and psychosocial interventions				
Review area	Search type	Search construction (applicable to each review area)	Study design	Databases/date range
Self-management and/or harm reduction strategies	New	[(Self-harm terms) and (Self management and/or harm reduction strategy terms)]	Pieced [most relevant terms, all studies; less relevant terms, randomised controlled trials and observational studies]	CINAHL, EMBASE, MEDLINE, PsycINFO [inception of databases up to 25 January 2011]
		*[(Self-harm terms) AND (SR filter)]	Systematic reviews	CINAHL, EMBASE, MEDLINE, PsycINFO, CDSR, DARE [1 January 1995 up to 25 January 2011]
Psychological and psychosocial interventions	Update, generic (Hawton <i>et al.</i> , 2011)	[(Self-harm terms) and (RCT filter)]	Randomised controlled trials	CENTRAL, CINAHL, EMBASE, MEDLINE, PsycINFO [ 1 January 2010 up to 25 January 2011]
		*[(Self-harm terms) AND (SR filter)]	Systematic reviews	CDSR, CINAHL, DARE, EMBASE, MEDLINE, PsycINFO [1 January 1995 up to 25 January 2011]

\* Generic search for systematic reviews conducted for evidence relating to all clinical questions.

Chapter 8: pharmacological interventions				
Review area	Search type	Search construction (applicable to each review area)	Study design	Databases /date range
Pharmacological interventions	Update, generic(Hawton <i>et al.</i> , 2011)	[(Self harm terms) AND (RCT filter)]	Randomised controlled trials	CENTRAL, CINAHL, EMBASE, MEDLINE, PsycINFO [1 January 2010 up to 25 January 2011]
		*[(Self-harm terms) AND (SR filter)]	Systematic reviews	CDSR, CINAHL, DARE, EMBASE, MEDLINE, PsycINFO [1 January 1995 up to 25 January 2011]
Safer prescribing	New	[(Self harm terms) AND (Safer prescribing terms) AND (OS filter)]	Observational studies	Embase; MEDLINE; CINAHL; PsycINFO. [inception of databases up to 25 January 2011]
		*[(Self-harm terms) AND (SR filter)]	Systematic reviews	CINAHL, EMBASE, MEDLINE, PsycINFO, CDSR, DARE [1 January 1995 up to 25 January 2011]
* Generic search for systematic reviews conducted for evidence relating to all clinical questions				

## Population search terms

### *a) Self-harm – population search terms*

MEDLINE – Ovid SP interface

1. overdose/ or self-injurious behavior/ or self mutilation/ or suicidal ideation/ or suicide/ or suicide, attempted/
2. (autoaggress\$ or auto aggress\$ or automutilat\$ or auto mutilat\$ or cutt\$ or overdose\$ or (self adj2 cut\$) or selfdestruct\$ or self destruct\$ or selfharm\$ or self harm\$ or selfimmolat\$ or self immolat\$ or selfinflict\$ or self inflict\$ or selfinjur\$ or self injur\$ or selfmutilat\$ or self mutilat\$ or selfpoison\$ or self poison\$ or suicid\$).ti,ab.
3. or/1-2

## Question-specific search strategies

### *a) Experience of care [search update]*

*i) For people who self-harm, what are their experiences of having self-harmed, of access to services and of treatment?*

*ii) For families and carers of people who self-harm, what are their experiences of caring for people with self-harm and what support is available for families and carers?*

*iii) For healthcare professionals who work with people who self-harm, what are their experiences of working with people who self-harm and what training needs are specified by this group?*

MEDLINE – Ovid SP interface

1. anthropology, cultural/ or ethnology/ or focus groups/ or life change events/ or nursing methodology research/ or observation/ or qualitative research/
2. (constant comp\$ or ((content or discourse) adj analysis) or emic or ethnograph\$ or ethnnon\$ or etic or focus group\$ or grounded theory or group interview\$ or inside\$ perspective\$ or ((live or lived) adj experience) or ((narrative or thematic) adj analysis) or participant obser\$ or phenomolog\$ or (qualitative adj (approach or analysis or method\$ or research or stud\$)) or semi-structured or social constructi\$).ti,ab.
3. ((client\$ or consumer\$ or inpatient\$ or patient or user) adj experience\$).ti,ab.
4. or/1-3
5. exp \*health surveys/ or \*health care surveys/
6. (survey\$ or question\$).ti,ab.
7. or/5-6
8. \*attitude to health/ or \*attitude/ or exp patient attitude/
9. (experien\$ or attitude\$).ti,ab.
10. or/8-9

11. 4 or (7 and 10)

**b) Staff training**

MEDLINE – Ovid SP interface

*Does the provision of staff training (knowledge, skills-based) improve outcomes (for example, staff attitudes, user satisfaction, user engagement with services)?*

1. educational, premedical/ or exp education, professional/ or faculty/ or faculty, medical/ or faculty, nursing/ or exp inservice training/ or exp professional competence/ or exp schools, health occupations/
2. accreditation/ or certification/ or competency based education/ or credentialing/ or exp curriculum/ or education/ or knowledge/ or learning/ or mentors/ or teaching/ or ed.fs.
3. (competen\$ or course\$1 or cpd\$1 or curricul\$ or educat\$ or information or instruct\$ or knowledge or learn\$ or module\$ or posttrain\$ or pretrain\$ or ((clinical or professional) adj2 (develop\$ or improv\$ or practice)) or skill\$ or teach\$ or train\$ or workshop\$ or work shop\$).ti,ab.
4. “attitude of health personnel” / or exp health personnel/ or exp professional role/ or specialization/ or exp medicine/ or exp nursing/ or exp pharmacy/ or exp psychology/ or exp physicians/ or exp psychiatry/
5. (analyst\$ or clinician\$ or consultant\$1 or counsel?or\$ or cpe or doctor\$ or employee or gp\$1 or health visitor\$ or medical expert\$ or nurs\$ or personnel or pharmacist\$ or physician\$ or practitioner\$ or professional\$ or psychiatrist\$ or psychoanalyst\$ or psychologist\$ or psychotherapist\$ or specialist\$ or staff\$ or therapist\$ or worker\$1).ti,ab.
6. (or/2-3 and or/4-5)
7. exp health personnel/ed
8. or/1,6,7

**c) Risk and protective factors**

MEDLINE – Ovid SP interface

*What are the risk and protective factors (internal and external) amongst people who self-harm that predict outcomes?*

1. risk factors/
2. (risk\$ adj2 relative).ti,ab.
3. ((predict\$ or protect\$ or risk\$) adj2 (associat\$ or attribute\$ or correlate\$ or determinant\$ or factor\$ or variable\$)).ti,ab.
4. or/1-3
5. ((predict\$ or risk\$) adj2 (ongoing or recur\$ or re cur\$ or reattempt\$ or re attempt\$ or recur\$ or repeat\$ or repetit\$)).ti,ab.
6. prospective repetit\$.ti,ab.

7. ((associat\$ or attribute\$ or correlate\$ or determinant\$ or factor\$ or variable\$) adj8 (ongoing or recur\$ or re cur\$ or reattempt\$ or re attempt\$ or recur\$ or repeat\$ or repetit\$) adj8 (autoaggress\$ or aggress\$ or automutilat\$ or cutt\$ or destruct\$ or dsh or episode\$ or harm\$ or immolat\$ or inflict\$ or injur\$ or mutilat\$ or overdose\$ or (self adj2 cut\$) or poison\$ or selfdestruct\$ or selfharm\$ or selfimmolat\$ or selfinflict\$ or selfinjur\$ or selfmutilat\$ or selfpoison\$ or sh or suicid\$)).ti,ab.
8. or/5-7
9. resilience, psychological/
10. (buffer\$ or cope\$ or recovery or resilien\$).ti,ab.
11. or/9-10
12. or/4,8,11

**d) Risk assessment, needs assessment and psychosocial assessment**

MEDLINE – Ovid SP interface

*For people who self-harm, does formal risk assessment, needs assessment and psychosocial assessment improve outcomes?*

1. (checklist/ or geriatric assessment/ or interview/ or interview, psychological/ or mass screening/ or nursing assessment/ or "outcome and process assessment (health care)"/ or "outcome assessment (health care)"/ or exp personality assessment/ or exp psychiatric status rating scales/ or exp psychological tests/ or questionnaires/)
2. (form\$1 or checklist\$ or check list\$ or index\$ or indices or interview\$ or instrument\$ or inventor\$ or item\$1 or measure\$ or psychometric\$ or psychometric\$ or question\$ or scale\$ or score\$ or scoring or self report\$ or subscale\$ or test\$ or tool\$).ti,ab.
3. 1 or 2
4. "predictive value of tests"/ or recurrence/ or risk\$.hw.
5. (predict\$ or ongoing or recur\$ or re cur\$ or reattempt\$ or re attempt\$ or recur\$ or repeat\$ or repetit\$ or risk\$).ti,ab.
6. 4 or 5
7. area under curve/ or exp sensitivity and specificity/
8. ((area under adj2 curve) or auc or (diagnostic adj2 odds ratio\$) or ((false or true) adj negative) or ((false or true) adj positive) or (likelihood adj3 ratio\$) or ((pretest or pre test or posttest or post test) adj2 probabilit\$) or (predict\$ adj3 value\$) or receiver operating characteristic or (roc adj2 (analy\$ or curv\$ or plot\$)) or sensitiv\$ or specificit\$).tw.
9. 7 or 8
10. and/3,6,9
11. needs assessment/ or risk assessment/
12. ((client\$ or clinical\$ or consumer\$ or need\$ or patient\$ or psychiatric or psychological or psychosocial or psycho social or risk or service user\$ or therapeutic) adj2 (assess\$ or evaluat\$)).ti,ab.



13. (((assess\$ or predict\$ or risk\$) adj2 (form\$1 or checklist\$ or check list\$ or index\$ or indices or interview\$ or instrument\$ or inventor\$ or item\$1 or measure\$ or psychometric\$ or question\$ or scale\$ or score\$ or scoring or self report\$ or subscale\$ or test\$ or tool\$)) or (comprehensive adj (assessment\$ or evaluation\$))).ti,ab.
14. (adult suicidal ideation questionnaire or asiq or (beck depression inventory or bdi) or (beck hopelessness scale or bhs) or ((beck scale adj2 suicide ideation) or bsi) or ((brief reasons adj2 living inventory) or brfl) or (brief symptom inventory or bsi) or ((college student reasons adj2 living inventory) or csrli or csr li) or ((edinburgh risk adj2 repetition scale) or errs) or (firestone assessment adj2 self-destructive thoughts) or ((global clinical assessment) or gca) or ((hamilton depression rating scale) or hdrs) or ((hamilton rating scale adj2 depression) or hamd or ham d or hrsd or hrs d) or ((intersept scale adj2 suicidal thinking) or isst) or lethality scale\$ or (life satisfaction scale or ls scale) or lifetime parasuicide count or ((linehan reasons adj2 living inventory) or lrfl) or ((manchester self harm rule) or mshr) or ((modified scale adj2 suicide ideation) or mssi) or (parasuicide history interview or phi) or ((quiz adj2 depression adj2 suicide adj2 later life) or qdsll) or (reasons adj2 living inventory) or ((reasons adj2 living scale adj2 older adult questionnaire) or rfloa or rfl oa) or ((reasons adj2 living scale adj2 younger adult questionnaire) or rflya or rfl ya) or risk rescue rating or ((scale adj2 suicide ideation) or ssi) or (self-inflicted injury severity form or siisf or sii sf) or (self-monitoring suicide ideation scale or smsis of sms is) or (suicidal behaviors interview or sbi) or (suicidal ideation questionnaire or siq) or (suicidal ideation screening questionnaire or sisq or sis q) or (suicidal intent scale or sis) or ((suicide assessment scale) or suas) or (suicide behaviors questionnaire or sbq) or (suicide intervention response inventory or siri) or (suicide opinion questionnaire or soq) or (suicide potential rating scale or suicide lethality scale or spls or spl s) or (suicide probability scale or sps) or (suicide status form or ssf) or ((symptom driven diagnostic system adj2 primary care) or sddspc or sdds pc) or ((positive adj2 negative suicide ideation inventory) or pansi)).ti,ab.
15. or/11-14
16. or/10,15

*e) Self-management and/or harm minimisation*

MEDLINE – Ovid SP interface

*For people who self-harm, does the provision of self-management and/or harm minimisation strategies, compared with no treatment or treatment as usual, improve outcomes?*

1. self care/
2. ((self adj (care or instruct\$ or manag\$ or monitor\$ or regulat\$ or reinforc\$ or re inforc\$)) or selfcare or selfinstruct\$ or selfmanag\$ or selfmonitor\$ or

- selfregulat\$ or (minimal adj (contact or guidance)) or (mutual adj (help or aid or support\$))).ti,ab.
3. harm reduction/ or risk management/ or risk reduction behavior/
  4. ((autoaggress\$ or auto aggress\$ or automutilat\$ or mutilat\$ or cutt\$ or overdose\$ or (self adj2 cut\$) or selfdestruct\$ or destruct\$ or selfharm\$ or harm\$ or selfimmolat\$ or immolat\$ or selfinflict\$ or inflict\$ or selfinjur\$ or injur\$ or selfmutilat\$ or mutilat\$ or selfpoison\$ or poison\$ or suicid\$) adj2 (minimi\$ or reduc\$)).ti,ab.
  5. ((autoaggress\$ or auto aggress\$ or automutilat\$ or mutilat\$ or cutt\$ or overdose\$ or (self adj2 cut\$) or selfdestruct\$ or destruct\$ or selfharm\$ or harm\$ or selfimmolat\$ or immolat\$ or selfinflict\$ or inflict\$ or selfinjur\$ or injur\$ or selfmutilat\$ or mutilat\$ or selfpoison\$ or poison\$ or suicid\$) adj4 (((decreas\$ or diminish\$ or fall\$ or fell or less\$ or limit\$ or low or lower\$) adj2 risk\$) or minimi\$ or reduc\$) adj8 (approach\$ or communicat\$ or counsel\$ or educat\$ or instruct\$ or interven\$ or learn\$ or manag\$ or module\$ or network\$ or program\$ or psychoanaly\$ or psychotherap\$ or rehab\$ or skill\$ or strateg\$ or support\$ or taught or teach\$ or technique\$ or therap\$ or train\$ or treat\$ or workshop\$ or work shop\$)).ti,ab.
  6. ((advice\$ or advis\$ or deal\$ or instruct\$ or educat\$ or learn\$ or taught or teach\$) adj8 (injur\$ or scar\$ or wound\$)).ti,ab.
  7. (((advice\$ or instruct\$ or educat\$ or learn\$ or taught\$ or teach\$) adj3 risk\$) or ((advice\$ or advis\$ or discuss\$ or educat\$ or learn\$ or taught\$ or teach\$) adj8 risk\$ adj8 (autoaggress\$ or auto aggress\$ or automutilat\$ or mutilat\$ or cutt\$ or overdose\$ or (self adj2 cut\$) or selfdestruct\$ or destruct\$ or selfharm\$ or harm\$ or selfimmolat\$ or immolat\$ or selfinflict\$ or inflict\$ or selfinjur\$ or injur\$ or selfmutilat\$ or mutilat\$ or selfpoison\$ or poison\$ or suicid\$))).ti,ab.
  8. hotlines.sh.
  9. (call in or calline\$ or call line\$ or help line\$ or helpline\$ or hotline\$ or hot line\$ or phone in or phonein or (caller\$1 adj3 (interven\$ or program\$ or therap\$ or treat\$)) or (talk\$ adj2 friend\$) or ((phone\$ or telephone\$) adj2 support\$)).ti,ab.
  10. relaxation/ or relaxation therapy/
  11. (relaxation or ((autogen\$ or relax\$) adj5 (apply or applied or approach\$ or assist\$ or coach\$ or educat\$ or help\$ or imagery or instruct\$ or interven\$ or learn\$ or manag\$ or modif\$ or program\$ or seminar\$ or strateg\$ or support\$ or teach\$ or technique\$ or therap\$ or train\$ or treat\$ or workshop\$ or work shop\$)) or relaxed state or ((breath\$ or movement or respirat\$ or relax\$) adj2 (exercis\$ or interven\$ or physiotherap\$ or technique\$ or therap\$ or train\$)) or ((control?ed or deep) adj breathing)).ti,ab.
  12. ((replacement\$ or substitut\$) adj3 (approach\$ or educat\$ or instruct\$ or interven\$ or learn\$ or manag\$ or network\$ or program\$ or promot\$ or rehab\$ or strateg\$ or taught or teach\$ or technique\$ or therap\$ or train\$ or treat\$ or workshop\$ or work shop\$)).ti,ab.
  13. (gigg1\$ or humo?r or laugh or laughter).ti,ab.
  14. ((positive\$ adj2 (emotion\$ or therap\$ or think\$ or psycho\$)) or (emotion\$ adj2 (cope or coping or psychotherap\$ or therap\$))).ti,ab.

15. (damag\$ adj2 limit\$).ti,ab.
16. (manag\$ risk\$ or (positive\$ adj2 risk\$ adj2 tak\$) or (relation\$ adj2 secur\$)).ti,ab.
17. (comforts or distractions or (((divert adj2 attention) or distract\$) adj5 (automutilat\$ or mutilat\$ or cutt\$ or overdose\$ or (self adj2 cut\$) or selfdestruct\$ or destruct\$ or selfharm\$ or harm\$ or selfimmolat\$ or immolat\$ or selfinflict\$ or inflict\$ or selfinjur\$ or injur\$ or selfmutilat\$ or mutilat\$ or selfpoison\$ or poison\$ or suicid\$))).ti,ab.
18. (ice or icecube\$ or marker pen\$ or pillow\$1 or pinch or pinching or ((elastic or rubber) adj band\$) or toothbrush\$ or tooth brush\$ or (tak\$ adj2 (bath\$ or shower\$)) or ((clean or sterile) adj2 (cutt\$ or instrument))).ti,ab.
19. (goal\$ adj2 set\$).ti,ab.
20. (diary or diaries).ti,ab.
21. therapeutic contract.ti,ab.
22. ((cope\$ or coping) adj3 (approach\$ or assist\$ or coach\$ or educat\$ or help\$ or imagery or instruct\$ or interven\$ or learn\$ or manag\$ or modif\$ or program\$ or seminar\$ or strateg\$ or support\$ or teach\$ or technique\$ or therap\$ or train\$ or treat\$ or workshop\$ or work shop\$)).ti,ab.
23. (risk\$ adj2 (minimi\$ or reduc\$)).ti,ab.
24. creativeness/ or exercise/ or exp recreation/
25. (active living or bicycling or (cycling not rapid cycling) or gardening or ((a?robic\$ or physical\$) adj (activit\$ or agil\$ or educat\$ or fitness\$)) or hobby or hobbies or kinesiotherap\$ or kinesitherap\$ or recreation\$ or running or sport\$ or swimming or tidying or walking or yoga).ti,ab.
26. community networks/ or friends/ or group processes/ or peer group/ or self help groups/
27. ((support\$ adj (based or cent\$ or focus?ed)) or (support\$ adj2 (approach\$ or educat\$ or friend\$ or family or instruct\$ or interven\$ or learn\$ or module\$ or network\$ or peer\$1 or program\$ or strateg\$ or technique\$ or therap\$ or train\$ or treat\$ or workshop\$ or work shop\$)) or ((community or emotion\$ or network\$ or organi?ation\$ or peer\$) adj2 support\$) or (network\$ adj2 (discuss\$ or exchang\$ or interact\$ or meeting\$))).ti,ab.
28. exp consumer health information/ or "patient education as topic"/
29. ((health adj2 (educat\$ or informat\$ or promot\$)) or ((adult\$ or client\$ or consumer\$ or inpatient\$ or outpatient\$ or participant\$ or patient\$ or people or user\$) adj4 (educat\$ or knowledge or information\$ or promot\$))).ti,ab.
30. or/1-5
31. or/6-29 [ANDed with RCT and OS filter]
32. or/30,31

**f) Psychological and psychosocial interventions [search update]**

*For people who self-harm, do psychological and psychosocial interventions (compared with no treatment or other interventions) improve outcomes? What are the associated adverse effects?*

[Generic search – self harm terms ANDed with RCT filter]

**g) Pharmacological interventions [search update]**

*For people who self-harm, do pharmacological interventions improve outcomes? What are the associated adverse effects?*

[Generic search – self harm terms ANDed with RCT filter]

**h) Safer prescribing**

MEDLINE – Ovid SP interface

*For people who self-harm, what are the key principles underlying safer prescribing?*

1. exp analgesics/ or exp salicylic acids/ or (ana?lges\$ or salicyl\$).ti,ab.
2. (acetylsalicylic acid or 2 acetoxybenzoate or acenterine or acesal or acetan or acetard or aceticyl or acetilum or acetonyl or acetophen or acetosal or acetosalicylic acid or acetosalin or acetosalum or acetyl salicylate or acetyl salicylic acid or acetylic salicylic acid or acetylin or acetylo or acetylon or acetylosalicylic acid or acetylsal or acetylsalicyclic acid or acetylsalicyl or acetylsalicylate or acetylsalicylate strontium or acetylsalicylic acid or acetylsalycic acid or acetylsalycylic acid or acetysal or acidulatum or acidum acetyl salicylicum or acidum acetylosalicylicum or acidum acetylsalicylicum or acylpyrin or acylpyrine or acytosal or adiro or alabukun or alasil or alka seltzer or alkaspirin or aloxiprimum or anopyrin or arthralgyl or asaflow or asaphen or aspergum or aspirgran or aspirin or aspirina or aspirine or aspirinine or aspisol or aspro or asrivo or asteric or astrix or bebesan or biprin or boxazin or breoprin or bufferin or cafenol or catalgine or catalgix or cemerit or cemirit or claradin or claragine or colfarit or colfarit or contrheuma or contrheuma retard or daga or darosal or depot aspirin or dispirin or dispril or dolean or easprin or ecotrin or egalgic or emocin or empirin or encaprin or endosprin or endosprin or entericin or enterosarine or enterospirine or entrophen or euthermine or extren or genasprin or godamed or gotosan or helicon or infatabs a or istopirin or istopyrine or ivepirine or juvepirine or kilios or kinderaspirin or magnecyl or measurin or mejoral or micristin or micristin or micropyrin or mikristin or miniasal or mycristin or nu seal or nuseals or ortho acetoxybenzoate or ortho acetoxybenzoic acid or ortho acetyloxybenzoate or ortho acetyloxybenzoic acid or ostoprin or pancemol or para acetylsalicylic acid or paracin or paynocil or pengo or polopirin or polopiryna or polopiryna or premaspin or primaspan or pyronoval or reumyl or rhodine or rhonal or salacetin or salacetogen or saletin or sargepirine or slow release aspirin or sodium acetylsalicylate or sodium bicarbonate acetyl salicylate or sodium bicarbonate acetylsalicylate or soldral or solprin or solpyron or solucetyl or solupsa or solupsan or super tru or tapal or temagin or treupahlin or treuphalin or turivital or verin or vitalink or xaxa or zorprin).ti,ab.

3. alfentanil/or (alfentanil or alfenta or alfentanil or alfentanil hydrochloride or alfentanyl or alfentanyl or fanaxal or limifen or rapifen).ti,ab.
4. (almotriptan or almogran or almotriptan malate or axert).ti,ab.
5. (buprenorphin\$ or buprenex or buprex or finibron or lepetan or prefin or suboxone or subutex or temgesic or transtec).ti,ab.
6. caffeine/or caffeine\$.ti,ab.
7. cannabis/or (cannabis or cannabi or cannabis or ganja or ganjas or hemp or hemsps or marihuana or marihuanas or marijuana or marijuanas or opiate).ti,ab.
8. (cocodamol or acetaminophen plus codeine phosphate or empracet or hypertussin or lindilane or nedolon or panadeine or paracodal or percogesic with codeine or talvosilen or treuphadol plus).ti,ab.
9. (codeine phosphate or ardinex or codein phosphate or codeine or codeine phosphate or codicompren retard or colrex compound or galcodeine or isocodeine or kodein or n methyilmorphine or tricodein or tussispect).ti,ab.
10. (codydramol or codidramol).ti,ab.
11. cyclizine/or (cyclizine or collox or cyclizine or marazine or marezine or marzine or neo devomit or valoid).ti,ab.
12. dextromoramide/or (dextromoramide or d moramide or dextro moramide or dextromoramide or dextromoramine or dimorlin or d-moramide or jetrium or moramide or palfium or palfium or palphium or pyrrolamidol or pyrrolamidole or pyrroloamidol).ti,ab.
13. dextropropoxyphene/or (co proxamol or coproxamol or cosalgescic or d propoxyphene or darvon or dextropropoxyphene or diantalvic or distalgescic or d-propoxyphene or dystalgescic or paradex or propoxyphene).ti,ab.
14. (dihydrocodeine or cis dihydrocodeine or codhydrin or codhydrine or codicontin or cohydrin or dehacodin or dh codeine or didrate or dihydrin or dihydroneopine or drocode or hydrocodeine or hydrocodin or nadein or nadeine or napacodin or novicodin or paracodein or paracodin or paramol or parzone or rapacodin or remedacen or tiamon mono or trans dihydrocodeine).ti,ab.
15. (dipipanone or pipadone or piperidyl amidone).ti,ab.
16. eletriptan.ti,ab.
17. ergotamine/ or (ergate or ergomar or ergostat or ergotamine tartrate or ergotaminetartras or exmigra or femergin or gynergen or lingraine or medihaler ergotamine or relpax or virDEX or wigrettes).ti,ab.
18. fentanyl/or (fentanyl\$ or duragesic or duragesic or duogesic or fentamyl or fentanest or fentanil or fentora or fetnanyl or ionsys or leptanal or phentanyl or sublimaze or transfenta).ti,ab.
19. (frovatriptan allegro or frova or migard or miguard).ti,ab.
20. (heroin\$1 or acetomorphine or diacephine or diacetyl morphine or diacetylmorphine or diagesil or diamorf or diamorphine or diaphorin or morphacetin).ti,ab.
21. (hydromorphone or biomorphyl or cofalaudid or dihydromorphinone or dihydromorphone or dilaudid or dimorphone or hydromorphinone hydrochloride hydromorphon or hydromorphone or hymorphan or laudacon

- or laudaconum or novolaudon or palladon or palladone or palladone or semcox or sophidone).ti,ab.
22. isometheptene mucate.ti,ab.
  23. ketorolac\$.sh. or (droal or isometheptenemucate or isometheptine mucate or ketocol or ketorolac or midrin or taradyl or toradol or toratex).ti,ab.
  24. meptazinol/ or (meptazinol or meptazinol or meptid).ti,ab.
  25. exp methadone/ or (methadone\$ or adanon or adanon hydrochloride or algidon or algolysin or algoxale or althose or amidon or amidone or amidosan or anadon or biodone or butalgin or deamin or depidol or diaminon or dianone or dolafin or dolamid or dolesone or dolophine or dolophine hydrochloride or dorex or dorexol or fenadon or heptadon or heptanon or ketalgin or mecodin or mepecton or mephenon or metadol or metasedin or methaddict or methadose or methex or miadone or moheptan or phenadon\$1 or phymet or physepton or physeptone or pinadone or polamidon or polamivet or polamivit or sinalgin or symoron).ti,ab.
  26. methysergide/or (methysergide\$ or deseril or desernil sandoz or desril or dimethylergometrin or dimethylergometrine or dimethylergonovine or methisergid or methisergide or methyl sergide or methylmethylergonovine or methylsergide or methysergid or methysergide or sansert).ti,ab.
  27. exp morphine/ or morphinans/or (morphine or astramorph or avinza or depodur or depomorphine or dolcontin or duramorph or duramorple or kadian or kapanol or moraxen or morphia or morphinesulfate or moscontin or ms contin or mst continus or mst mundipharma or noceptin or oblioser or oramorph or roxanol or sevredol or skenan lp).ti,ab.
  28. exp naloxone/or (naloxone or maloxone or nalaxone or nalone or nalonee or narcan or narcanti or narcon or narvcam).ti,ab.
  29. (naratriptan or amerge or naramig).ti,ab.
  30. nefopam/ or (nefopam or acupan or ajan or fenazoxine or lenipan or nocipan).ti,ab.
  31. opiate alkaloids/or opium/ or (opiate\$ or opioid\$ or opium).ti,ab.
  32. (oxycodone or bionine or bionone or bolodorm or broncodal or bucodal or cafacodal or cardanon or codenon or dihydrohydroxydodeinone or dihydrone or dinarkon or endone or eubine or eucodal or eucodale or eudin or eukdin or eukodal or eumorphal or eurodamine or eutagen or hydrocodal or hydroxycodeinoma or hydroxycodeinon or ludonal or medicodal or narcobasina or narcobasine or narcosin or nargenol or narodal or nucodan or opton or ossicodone or oxanest or oxicone or oxiconum or oxikon or oxycodeinon or oxycodeinonhydrochloride or oxycodone or oxycodonhydrochlorid or oxycodyl or oxycone or oxycontin or oxygesic or oxykon or oxynorm or pancodine or pavinal or pronarcin or remoxy or roxicodone or roxicodone or sinthiodal or stupenal or tebodal or tekodin or thecodin or thecodin).ti,ab.
  33. acetaminophen/ or (paracetamol or acetaminophen or acamol or acephen or acetaco or acetamidophenol or acetaminophen or algotropryl or anacin 3 or anacin3 or apap or datril or hydroxyacetanilide or p-acetamidophenol or panadol or tylenol).ti,ab.

34. pentazocine/or (pentazocine or dolapent or fortal or fortalgesic or fortral or fortraline or fortwin or lexic or liticon or peltazon or pentacozine or pentafen or pentagin or pentalgina or pentazocin or pentozocine or perutagin or seosegon or sosigon or talioin or talwin).ti,ab.
35. exp meperidine/ or (pethidine or algil or alodan or centralgin or centralgine or demerol or dispadol or dolanquifa or dolantal or dolantin or dolantine or dolargan or dolcontral or dolenal or dolestin or dolin or dolocontral or doloneurin or doloneurotrat or dolor or dolosa or dolosal or dolosan or dolsin or dolvanol or endolate or isonipeccain or isonipeccaine or l pethidine or lidol or lydol or mefedina or mepadin or meperiden or meperidin or meperidine or mephedine or mepiridine or mialgin or pantalgin or petadin or petantin or petantina or pethanol or pethedine or pethidin or pethidine or petidin or phetidine or piridosal or sauteralgyl or simesalgina or supposal or synlaudine).ti,ab.
36. (pizotifen or mosegor or sanmigran or sanomigran).ti,ab.
37. (rizatriptan or maxalt).ti,ab.
38. sumatriptan/ or (sumatriptan succinate or imigran or imiject or imitrex or sumadol or sumigrene).ti,ab.
39. (tolfenamic acid or clotam or clotan or rociclyne or tolfedine or tolfenamate).ti,ab.
40. tramadol/or (tramadol or adolonta or amadol or biodalgic or biokanol or contramal or dolzam or jutadol or kontram xl or melanate or mtwtramadol or nobligan or prontofort or ranitidin 1a pharma or takadol or theradol or tiral or topalgic or tradol or tradolpuren or tradonal or tralgiol or trama abz or trama dorsch or trama kd or tramabeta or tramadin or tramadoc or tramadoldolgit or tramadolhameln or tramadolium chloride or tramadolor or tramadolratiopharm or tramadorsch or tramadura or tramagetic or tramagit or tramake or tramal or tramex or tramundin or trasedal or trodon or trondon or ultram or xymel 50 or zamudol or zumalgic or zydol or zytram).ti,ab.
41. (zolmitriptan or ascotop or zomig or zomigon).ti,ab.
42. (zopiclone or amoban or imovance or imovane or ximovan or zimovane or zoplicon).ti,ab.
43. or/1-42
44. exp benzodiazepines/ or (benzo\$1 or benzodiazepin\$).ti,ab.
45. (alprazolam or alprox or apo alpraz or apoalpraz or aprazolam\$1 or cassadan\$1 or esparon\$1 or helex or kalma or novo alprazol\$1 or novoalprazol\$1 or nu alpraz or nualpraz or ralozam or solanax or tafil\$1 or frankimazin\$1 or valeans or xanax or xanor).ti,ab.
46. (bromazepam or anxyrex or bartul or bromalich or bromaz pharma or bromazanil\$1 or bromazep von ct or durazanil\$ or lectopam\$1 or lexamil\$1 or lexatin\$1 or lexaurin\$1 or lexilium or lexiomil\$1 or lexotan\$1 or lexotanil\$1 or lexotanil\$1 or normoc or sintrogel\$1).ti,ab.
47. (chlordiazepoxid\$1 or methaminodiazepoxid\$1 or elenium\$1 or librium\$1 or chlozepid\$1 or ansiacal\$1 or benzodiapin\$1 or cebrum\$1 or chlordiazepoxyd\$1 or chlorodiazepoxid\$1 or clopoxid\$1 or contol\$1 or decacil\$1 or defobin\$1 or disarim\$1 or dizepin\$1 or dopoxid\$1 or droxol\$1 or

- eden psych or elenium\$1 or elenum\$1 or equilbral\$1 or kalmocaps or labican\$1 or librelease or libritabs or librium or lipoxide or mesural\$1 or metaminodiazepoxid\$1 or methaminodiazepoxid\$1 or mildmen\$1 or mitran\$1 or multum\$1 or murcil\$1 or napoton\$1 or napoton\$1 or novosed\$1 or psichial\$1 or psicosan\$1 or psicoterin\$1 or radepur or reliberan\$1 or reposans or risolid or seren vita or servium or silibrin\$1 or sk lygen or sonimen\$1 or timosin\$1 or viansin\$1 or viopsicol\$1).ti,ab.
48. (clobazam or chlorepin\$1 or clobazepam or clorepin\$1 or frisium or noiafren\$1 or urbadan\$1 or urbanil\$1 or urbanyl).ti,ab.
49. (clonazepam or antelepsin\$1 or clonopin\$1 or iktorivil\$1 or klonazepam or klonopin\$1 or landsen\$1 or rivotril\$1).ti,ab.
50. (clorazepat\$1 or carboxylic acid or chlorazepat\$1 or chloroazepat\$1 or clorazepic acid or tranxen\$1 or tranxilium).ti,ab.
51. (delorazepam or briantum\$1 or chlordemethyldiazepam or chlordesmethyldiazepam or chloro n demethyldiazepam or chlorodemethyldiazepam or chlorodesmethyldiazepam or chloronordiazepam).ti,ab.
52. (diazepam or alupram or ansiolin\$1 or antenex or apaurin\$1 or apaurin\$1 or apozepam or assival\$1 or audium\$1 or bialzepam or bialzegan\$1 or calmpos\$1 or cercin\$1 or cersin\$1 or chlordiazeepam or dialar or diastat or diazelium or diazemuls or diazidem or ducen\$1 or duxen\$1 or eridan or eurosan\$1 or evacalm\$1 or fanstan\$1 or faustan\$1 or gewacalm\$1 or lamra or lembrol\$1 or lipodiazeepam or lorinon\$1 or methyldiazepinon\$1 or methyldiazepinon\$1 or morosan\$1 or neocalm\$1 or neurolytril\$1 or noan or novazam or paceum or plidan or psychopax or relanium or 1 rimapam or sedapam or seduxen\$1 or serendin\$1 or setonil\$1 or sibazon\$1 or sonacon\$1 or stesolid\$1 or stesolin\$1 or tanquo tablinen\$ or tensium or tranimul\$1 or tranquo puren or umbrium\$1 or valaxon\$1 or valclair or valiquid\$1 or valium or valpam or valreleas\$ or vatran\$1 or vival\$1 or vivol or zetran\$1).ti,ab.
53. (flunitrazepam or flurazepam or fluridrazepam or darken\$1 or fluni 1a pharma or flunibeta or flunimerck or fluninoc or flunipam or flunita or flunitrax or flunizep von ct or hypnodorm\$1 or hypnosedon\$1 or inervon\$1 or narcozep or parnox or rohipnol\$1 or rohypnol\$1 or roipnol\$1 or silece or valsera).ti,ab.
54. (flurazepam or benozil\$1 or dalmadorm\$1 or dalman\$1 or dalmate or dormodor\$1 or lunipax or staurodorm\$1 or dalman\$1 or dormodor\$1 or dalmadorm\$1).ti,ab.
55. (flutoprazepam or restas).ti,ab.
56. loprazolam.ti,ab.
57. (lorazepam or almazin\$1 or alzapam or apolorazepam or ativan or bonatranquan\$1 or donix or duralozam or durazolam or idalprem or kendol\$1 or laubeel or lorabenz or loranas\$1 or loranz\$1 or lorans or lorax or lorazep von ct or loridem\$1 or lorivan\$1 or mesmerin\$1 or novo lorazem\$1 or novolorazem\$1 or novo lorazem\$1 or nu loraz or nuloraz or orfidal or orifadal\$1 or pro dorm or quait or securit or sedicepan\$1 or sinestron\$1 or somagerol\$1 or tavor or temesta or tolid or wypax).ti,ab.



58. (lormetazepam or loramet or (lorazepam adj2 methyl) or methyllorazepam or minians or minias or noctamid\$1 or pronoctan\$1).ti,ab.
59. (mexazolam or melex or sedoxil\$1).ti,ab.
60. (midazolam or dormicum or dormonid\$1 or hypnoval\$1 or hypnovel\$1 or hypnoyvel\$1 or versed).ti,ab.
61. (nitrazepam or alodorm or atempol\$1 or benzalin\$1 or dormalon\$1 or dormo puren or dumolid or eatan or eunoctin\$1 or hypnotex or imadorm or imeson\$1 or insomin\$1 or mogadan\$1 or mogadon\$1 or nelbon\$1 or nirven\$1 or nitra zepam or nitrados or nitravet or nitrazadon\$1 or nitrazep or nitrodiazepam or novanox or pacisyn or radedorm\$1 or remnos or restorem\$1 or sedamon\$1 or serenade or somnased\$1 or somnibel\$1 n or somnit\$1).ti,ab.
62. (oxazepam or abboxapam or adumbran\$1 or alopam or anxiolit\$1 or azutranquil\$1 or durazepam or expidet\$1 or hilog or isodin\$1 or linbial\$1 or noctazepam or oxapuren\$1 or oxepam or praxiten\$1 or serax or serenid\$1 or serepax or seresta or serpax or sigacalm\$1 or sobril\$1 or tazepam\$1 or uskan).ti,ab.
63. (prazepam or centrax or demetrin\$1 or lysanxia or mono demetrin\$1 or monodemetrin\$1 or reapam or sedapran\$1 or verstran).ti,ab.
64. (temazepam or apo temazepam or dasuen or euhypnos or hydroxydiazepam or levanxol\$1 or methyloxazepam or nocturne\$1 or norkotral tema or normison\$1 or normitab or nortem or oxydiazepam or planum or pronervon t or remestan\$1 or restoril\$1 or signopam or temaz\$1 or temazep von ct or temazepax or temtabs or tenox or texapam).ti,ab.
65. or/44-64
66. exp antidepressive agents, tricyclic/ or (tca\$1 or tricyclic\$).ti,ab.
67. (amitriptyl\$1 or amitryptil\$1 or amitryptin\$1 or amitryptilin\$1 or amytriptil\$1 or amytriptyl\$1 or amytryptil\$1 or adepress or adepril\$1 or ambivalon\$1 or amineurin\$1 or amitid\$1 or amitril\$1 or amitrip or amitrol\$1 or anapsique or antitriptylin\$1 or apoamitriptylin\$1 or damilen\$1 or damylen\$1 or domical\$1 or elatrol\$1 or elavil\$1 or endep or enovil\$1 or etafon\$1 or etafron\$1 or euplit\$1 or lantron\$1 or laroxal\$1 or laroxyl\$1 or lentizol\$1 or novoprotect or proheptadien\$1 or redomex or sarboten retard 75 or saroten\$1 or sarotex or stelminal\$1 or sylvemid\$1 or syneudon\$1 or teperin\$1 or terepin\$1 or triptafen\$1 or triptanol\$1 or triptizol\$1 or triptyl or triptylin\$1 or tryptanol\$1 or tryptin\$1 or tryptizol\$1).ti,ab.
68. (chlomipramin\$1 or chlorimipramin\$1 or chloroimipramin\$1 or clomipramin\$1 or anafranil\$1 or anafranilin\$1 or anafranil or domipramin\$1 or hydiphen\$1 or monochlor imipramin\$1 or monochlorimipramin\$1 or monochloroimipramin\$1).ti,ab.
69. (dothiepin\$1 or dosulepin\$1 or altapin\$1 or depresym\$1 or dopress or dothep or idom or prothiaden\$1 or prothiadien\$1 or prothiadin\$1 or protiaden\$1 or thaden).ti,ab.
70. (doxepin\$1 or adapin\$1 or apodoxepin\$1 or aponal\$1 or co dox or curatin\$1 or deptran\$1 or desidox or doneurin\$1 or doxepia or espadox or mareen or prudoxin\$1 or quitaxon\$1 or silenor or sinepin or sinequan\$1 or sinquan\$1 or xepin\$1 or zonalon\$1).ti,ab.

71. (imipramin\$1 or antideprin\$1 or berkomin\$1 or chrytemin\$1 or deprimin or deprinol\$1 or depsonil or dynaprin or eupramin or ia pram or imavate or imidobenzyl\$1 or imidol\$1 or imipramid\$1 or imipramil or imiprex or imiprin\$1 or imizin\$1 or irmin or janimin\$1 or melipramin\$1 or norchlorimipramin\$1 or norpramin\$1 or novopramin\$1 or presamin\$1 or pryleguan\$1 or psychoforin\$1 or psychoforin\$1 or servipramin\$1 or sk pramin\$1 or surplix or tofranil\$1 or trofanil\$1).ti,ab.
72. (lofepramin\$1 or lopramin\$1 or amplit\$1 or deftan\$1 or feprapax or gamanil\$1 or gamonil\$1 or lomont or lopramin\$1 or tymelyt).ti,ab.
73. (mianserin\$1 or athymil\$1 or bolvidon\$1 or investig or lantanon\$1 or lanthanon\$1 or lerivon\$1 or miaxan\$1 or norval or serelan\$1 or tetramid\$1 or tolvin\$1 or tolvon\$1).ti,ab.
74. (nortriptylin\$1 or acetexa or allegron\$1 or altilev or atilev or avantyl or aventyl or desitriptylin\$1 or desmethylamitriptylin\$1 or martimil\$1 or noramitriptylin\$1 or norfenazin\$1 or noritren\$1 or norpress or nortrilen\$1 or nortryptilin\$1 or nortriptylin\$1 or pamelor or paxtibi or propylamin\$1 or psychostyl or sens?val).ti,ab.
75. opipramol/or (opipramol\$1 or dinsidon\$1 or ensidon\$1 or eusidon\$1 or insidon\$1 or nisidan\$1 or oprimol or pramolan\$1).ti,ab.
76. (trazodon\$1 or beneficat or deprax or desirel or desyrel\$1 or molipaxin\$1 or pesyrel\$1 or rpragazon\$1 or pragmarel\$1 or pragmazon\$1 or thombran\$1 or thrombin\$1 or thrombran\$1 or tombran\$1 or trasodon\$1 or trazolan\$1 or trazorel or trazon\$1 or trialodine or trittico).ti,ab.
77. (trimepramin\$1 or trimeprimin\$1 or trimepropimin\$1 or trimidura or trimineurin\$1 maleate or trimipramin\$1 or trimoprimin\$1 or eldoral\$1 or herphonal\$1 or trimineurin\$1 or novo tripramin\$1 or novotripramin\$1 or nutrimipramin\$1 or rhotrimin\$1 or stangyl or surmontil\$1 or apo trimip or apotrimip or herphonal\$1 or stangyl or surmontil\$1).ti,ab.
78. exp serotonin uptake inhibitors/ or (((serotonin or 5 ht or 5 hydroxytryptamine) adj (uptake or reuptake or re uptake) adj inhibit\$) or ssri\$).ti,ab.
79. (citalopram or celexa or cipramil\$1 or cytalopram or elopram or escitalopram or lexapro or nitalapram or sepram or seropram).ti,ab.
80. (escitalopram or cipralex or lexapro or seroplex).ti,ab.
81. (fluoxetin\$1 or fluctin\$1 or flunirin\$1 or fluoxifar or prosac or prozac or prozamin or sarafem or symbyax).ti,ab.
82. (fluvoxamin\$1 or depromel\$1 or desiflu or dumirox or faverin\$1 or fevarin\$1 or floxyfral\$1 or fluoxamin\$1 or fluroxamin\$1 or fluvoxadura or luvox).ti,ab.
83. (nefazadon\$1 or dutonin or nefadar or reseril\$1 or serzon\$1).ti,ab.
84. (paroxetin\$1 or aropax or deroxat or motivan\$1 or paxil or pexeva or seroxat or tagonis).ti,ab.
85. (sertralin\$1 or altrulin\$1 or aremis or besitran\$1 or gladem or lustral\$1 or naphthylamin\$1 or sealdin\$1 or serad or serlain\$1 or tresleen or zoloft).ti,ab.
86. or/66-85
87. or/1-86
88. (ae or ct or po or to).fs.

89. exp abnormalities, drug induced/ or exp adverse drug reaction reporting systems/ or exp death/ or exp drug hypersensitivity/ or exp drug-induced liver injury / or drug interactions/ or exp intraoperative complications/ or drug monitoring/ or exp drug tolerance/ or overdose/ or exp poisoning/ or exp postoperative complications/ or exp product surveillance, postmarketing/ or respiration depression/ or risk/ or risk assessment/ or risk factors/ or exp toxemia/
90. (causa\$ or ((adverse or negativ\$ or side or undesir\$ or unwanted) adj2 (effect\$ or event\$ or outcome\$ or reaction\$)) or death\$ or discontinuation effect\$ or (caution\$ or complication\$ or contraindicat\$ or contra indicat\$ or harm\$ or hazard\$ or interaction\$1 or intolerab\$ or lethal\$ or noxious\$ or overdos\$ or safety or safe or tolerab\$ or toxic\$ or warning\$) or (treatment emergent or adrs)).ti,ab.
91. or/88-90
92. 87 and 91

## Search filters

*a) Systematic review search filter – adapted from a filter designed by the Health Information Research Unit of McMaster University, Ontario, Canada.*

MEDLINE – Ovid SP interface

1. meta-analysis/or meta-analysis as topic/
2. meta-analysis.pt.
3. ((evidence or quantitative\$ or systematic\$) adj2 (overview or review)).ti,ab.
4. (((bibliographic or electronic) adj database\$) or bids or cochrane or embase or index medicus or isi citation or medline or psyclit or psychlit or pubmed or scisearch or science citation or (web adj2 science)).ti,ab. and review.pt.
5. (metaanal\$ or meta anal\$ or metasynthes\$ or meta synthes\$).ti,ab.
6. ((pool\$ or combined or combining) adj2 (data or trials or studies or results)).ti,ab.
7. or/1-6

*b) RCT search filter – adapted from a filter designed by the Health Information Research Unit of McMaster University, Ontario, Canada.*

MEDLINE – Ovid SP interface

1. exp clinical trial/ or cross over studies/ or double blind method/ or random allocation/ or randomized controlled trials as topic/ or single blind method/
2. (clinical adj2 trial\$).ti,ab.
3. (crossover or cross over).ti,ab.
4. (((single\$ or doubl\$ or trebl\$ or tripl\$) adj2 blind\$) or mask\$ or dummy or singleblind\$ or doubleblind\$ or trebleblind\$ or tripleblind\$).ti,ab.
5. (placebo\$ or random\$).mp.

6. (clinical trial\$ or controlled clinical trial\$ or random\$).pt.
7. animals/ not (humans/ or human\$.tw.)
8. (or/1-6) not 7

*c) Observational study filter - developed in-house.*

MEDLINE - Ovid SP interface

1. case-control studies/
2. cohort studies/
3. cross-sectional studies/
4. epidemiologic studies/
5. follow-up studies/
6. longitudinal studies/
7. prospective studies/
8. retrospective studies/
9. (cohort\$1 or cross section\$ or crosssection\$ or followup\$ or follow up\$ or followed or longitudinal\$ or prospective\$ or retrospective\$).ti,ab.
10. (case adj2 (control\$ or series)).ti,ab.
11. or/1-10

*Search terms for case control studies excluded from filter (where required) as specified in the review protocols.*