National Institute for Health and Care Excellence

Draft for consultation

Venous thromboembolic diseases: diagnosis, management and thrombophilia testing

NICE guideline: Search strategies

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Draft for Publication

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Venous thromboembolic diseases: diagnosis, management and thrombophilia testing Searches DRAFT

Contents

1.1 D-Dimer Testing

A single systematic search was conducted for all of the questions within this evidence review on 1st May 2018 and re run on 4th April 2019. The following databases were searched Medline, Medline in Process, Medline e pub Ahead of print, Embase, (all via the Ovid platform), Cochrane Database of Systematic Reviews, CENTRAL and DARE (all via the Wiley platform). Date limits were applied to the date of the previous guideline for the deep vein thrombosis terms. Sensitive McMaster University Health Information Research Unit diagnosis and NICE inhouse RCT filters were attached were appropriate.

The Medline strategy is presented below. This was translated for other databases.

- 1 Venous Thrombosis/
- 2 (phlegmasia adj2 dolens).tw.
- 3 (thrombo* adj2 (vein* or venous)).tw.
- 4 (venous adj stasis).tw.
- 5 dvt.tw.
- 6 or/1-5
- 7 Venous Thromboembolism/ or Embolism, paradoxical/
- 8 vte.tw.
- 9 exp pulmonary embolism/
- 10 ((pulmonary or lung) adj4 (embol* or thromboembo* or microembol*)).tw.
- 11 (pulmonary adj infarction).tw.
- 12 or/7-11
- 13 Fibrin Fibrinogen Degradation Products/
- 14 ((fibrin* or fibrogen) adj4 (product* or fragment* or label*)).tw.
- 15 fdp.tw.
- 16 ("d dimer*" or "d-dimer*").tw.
- 17 ((wells or Geneva or clinical) adj score*).tw.
- 18 or/13-17

19 (201108* or 201109* or 201110* or 201111* or 201112* or 2012* or 2013* or 2014* or 2015* or 2016* or 2017* or 2018*).ed.

- 20 6 and 18 and 19
- 21 12 and 18
- 22 20 or 21
- 23 (sensitiv: or diagnos:).mp. or di.fs.
- 24 Randomized Controlled Trial.pt.
- 25 Controlled Clinical Trial.pt

- 26 Clinical Trial.pt.
- 27 exp Clinical Trials as Topic/
- 28 Placebos/
- 29 Random Allocation/
- 30 Double-Blind Method/
- 31 Single-Blind Method/
- 32 Cross-Over Studies/
- 33 ((random\$ or control\$ or clinical\$) adj3 (trial\$ or stud\$)).tw.
- 34 (random\$ adj3 allocat\$).tw.
- 35 placebo\$.tw.
- 36 ((singl\$ or doubl\$ or trebl\$ or tripl\$) adj (blind\$ or mask\$)).tw.
- 37 (crossover\$ or (cross adj over\$)).tw.
- 38 or/24-37
- 39 animals/ not humans/
- 40 38 not 39
- 41 23 or 40
- 42 22 and 41
- 43 animals/ not humans/
- 44 42 not 43
- 45 limit 44 to english language

Searches to identify economic evidence were run on 3rd May 2018 in Medline, Medline in Process, Econlit and Embase (all va the Ovid platform), NHS EED and the Health Technology Database (via the Wiley platform. NICE inhouse economic evaluation and Quality of Life filters were attached to lines 1 to 22 of the core strategy (lines 1 to 22 of the Medline version shown above) in the Medline and Embase databases. A single search for economic evidence covering all questions was re run on 9th April 2019. The Medline version of the filters is displayed below.

Economic evaluations

- 1 Economics/
- 2 exp "Costs and Cost Analysis"/
- 3 Economics, Dental/
- 4 exp Economics, Hospital/
- 5 exp Economics, Medical/
- 6 Economics, Nursing/
- 7 Economics, Pharmaceutical/

- 8 Budgets/
- 9 exp Models, Economic/
- 10 Markov Chains/
- 11 Monte Carlo Method/
- 12 Decision Trees/
- 13 econom\$.tw.
- 14 cba.tw.
- 15 cea.tw.
- 16 cua.tw.
- 17 markov\$.tw.
- 18 (monte adj carlo).tw.
- 19 (decision adj3 (tree\$ or analys\$)).tw.
- 20 (cost or costs or costing\$ or costly or costed).tw.
- 21 (price\$ or pricing\$).tw.
- 22 budget\$.tw.
- 23 expenditure\$.tw.
- 24 (value adj3 (money or monetary)).tw.
- 25 (pharmacoeconomic\$ or (pharmaco adj economic\$)).tw.
- 26 or/1-25

- 1 "Quality of Life"/
- 2 quality of life.tw.
- 3 "Value of Life"/
- 4 Quality-Adjusted Life Years/
- 5 quality adjusted life.tw.
- 6 (qaly\$ or qald\$ or qale\$ or qtime\$).tw.
- 7 disability adjusted life.tw. daly\$.tw.
- 8 Health Status Indicators/ (22343)

9 (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 thirty six).tw.

10 (sf6 or sf 6 or short form 6 or shortform 6 or sf six or sfsix or shortform six or short form six).tw.

11 (sf12 or sf 12 or short form 12 or shortform 12 or sf twelve or sftwelve or shortform twelve).tw.

12 (sf16 or sf 16 or short form 16 or shortform 16 or sf sixteen or sfsixteen or shortform sixteen or short form sixteen).tw.

13 (sf20 or sf 20 or short form 20 or shortform 20 or sf twenty or sftwenty or shortform twenty).tw.

- 14 (euroqol or euro qol or eq5d or eq 5d).tw.
- 15 (qol or hql or hqol or hrqol).tw.
- 16 (hye or hyes).tw.
- 17 health\$ year\$ equivalent\$.tw.
- 18 utilit\$.tw.
- 19 (hui or hui1 or hui2 or hui3).tw.
- 20 disutili\$.tw.
- 21 rosser.tw.
- 22 quality of wellbeing.tw.
- 23 quality of well-being.tw.
- 24 qwb.tw.
- 25 willingness to pay.tw.
- standard gamble\$.tw.
- time trade off.tw.
- 28 time tradeoff.tw.
- tto.tw.
- 30 or/1-30

1.2 Use of the pulmonary embolism rule-out criteria for diagnosis of pulmonary embolism

Searches were run on 16th May 2018 in Medline, Medline in Process, Medline Epub Ahead of Print, Embase (all Ovid platform), Cochrane Database of Systematic Reviews, CENTRAL and DARE (all Wiley platform). The searches were re run on 4th April 2019.

The Medline strategy is presented below. This was translated for the other databases.

- 1 exp pulmonary embolism/
- 2 ((pulmonary or lung) adj4 (embol* or thromboembo* or microembol*)).tw.
- 3 (pulmonary adj infarction).tw
- 4 or/1-3
- 5 (perc or "pulmonary embolism rule-out criteria" or "pulmonary embolism rule out criteria" or "pe rule-out criteria" or "pe rule out criteria").tw.
- 6 "clinical decision".tw
- 7 ((clinical or decision) adj2 (tool* or criteria or rule*)).tw.
- 8 or/5-7
- 9 4 and 8 (439)
- 10 animals/ not humans/
- 11 9 not 10
- 12 limit 11 to english language

Searches to identify economic evidence were run on 18th May 2018 in in Medline, Medline in Process, Econlit and Embase (all va the Ovid platform), NHS EED and the Health Technology Database (via the Wiley platform. NICE inhouse economic evaluation and Quality of Life filters were attached to the Medline and Embase strategies of the above search. A single search to identify economic evidence across all questions was re run on 9th April 2019. The Medline versions of the filters is displayed below.

Economic evaluations

- 1 Economics/
- 2 exp "Costs and Cost Analysis"/
- 3 Economics, Dental/
- 4 exp Economics, Hospital/
- 5 exp Economics, Medical/
- 6 Economics, Nursing/
- 7 Economics, Pharmaceutical/
- 8 Budgets/
- 9 exp Models, Economic/
- 10 Markov Chains/

- 11 Monte Carlo Method/
- 12 Decision Trees/
- 13 econom\$.tw.
- 14 cba.tw.
- 15 cea.tw.
- 16 cua.tw.
- 17 markov\$.tw.
- 18 (monte adj carlo).tw.
- 19 (decision adj3 (tree\$ or analys\$)).tw.
- 20 (cost or costs or costing\$ or costly or costed).tw.
- 21 (price\$ or pricing\$).tw.
- 22 budget\$.tw.
- 23 expenditure\$.tw.
- 24 (value adj3 (money or monetary)).tw.
- 25 (pharmacoeconomic\$ or (pharmaco adj economic\$)).tw.
- 26 or/1-25

- 1 "Quality of Life"/
- 2 quality of life.tw.
- 3 "Value of Life"/
- 4 Quality-Adjusted Life Years/
- 5 quality adjusted life.tw.
- 6 (qaly\$ or qald\$ or qale\$ or qtime\$).tw.
- 7 disability adjusted life.tw.
- 8 daly\$.tw.
- 9 Health Status Indicators/ (22343)
- 10 (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).tw.
- 11 (sf6 or sf 6 or short form 6 or shortform 6 or sf six or sfsix or shortform six or short form six).tw.
- 12 (sf12 or sf 12 or short form 12 or shortform 12 or sf twelve or sftwelve or shortform twelve).tw.
- 13 (sf16 or sf 16 or short form 16 or shortform 16 or sf sixteen or sfsixteen or shortform sixteen).tw.

14 (sf20 or sf 20 or short form 20 or shortform 20 or sf twenty or sftwenty or shortform twenty).tw.

- 15 (euroqol or euro qol or eq5d or eq 5d).tw.
- 16 (qol or hql or hqol or hrqol).tw.
- 17 (hye or hyes).tw. h
- 18 ealth\$ year\$ equivalent\$.tw.
- 19 utilit\$.tw. (hui or hui1 or hui2 or hui3).tw.
- 20 disutili\$.tw.
- 21 rosser.tw. quality of wellbeing.tw.
- 22 quality of well-being.tw.
- 23 qwb.tw.
- 24 willingness to pay.tw.
- 25 standard gamble\$.tw.
- time trade off.tw.
- 27 time tradeoff.tw.
- 28 tto.tw.

1.3 Pharmacological treatments for suspected and confirmed venous thromboembolism

Searches were run on 14th June 2018 in Medline, Medline in Process, Medline epub ahead of Print and Embase (all Wiley platform), the Cochrane Database of Systematic Reviews, CENTRAL and DARE (Wiley platform).and re run on 4th April 2019.The Medline strategy is presented below. Certain terms were date limited to post publication of the previous guideline. The NICE inhouse RCT filter has been used. The MHRA website was searched for drug safety alerts on 18th June 2018 and 18th April 2019.

- 1 Venous Thrombosis/
- 2 (phlegmasia adj2 dolens).tw.
- 3 (thrombo* adj2 (vein* or venous)).tw.
- 4 (venous adj stasis).tw.
- 5 (dvt or vte).tw.
- 6 Venous Thromboembolism/ or Embolism, paradoxical/
- 7 exp pulmonary embolism/
- 8 ((pulmonary or lung) adj4 (embol* or thromboembo* or microembol*)).tw.
- 9 (pulmonary adj infarction).tw
- 10 or/1-9
- 11 exp Antithrombins/
- 12 (antithrombin* or "factor x* inhibitor*" or " thrombin inhibitor*").tw.
- 13 (noac* or doac* or tsoac* or odi* or soda*).tw.

14 ((novel or non-vitamin k or direct or target-specific) adj2 (anticoagula* or anti coagula*)).tw.

15 (edoxaban or lixiana or roteas or savaysa or apixaban or eliqu?s or bms* or rivaroxaban or bay* or xarelto or dabigatran or bibr* or pradax* or rendix).tw.

- 16 or/11-15
- 17 anticoagulants/
- 18 (anticoagula* or anti coagula*).tw.
- 19 exp Heparin/
- 20 (heparin* or lmwh or ufh or ldh).tw.
- 21 (bemiparin or entervit or hepadren or hibor or ivor* or phivor or zibor).tw.
- 22 dalteparin/
- 23 (dalteparin or fragmin* or "kabi 2165" or k2165 or k 2165 or "low liquemin").tw.
- 24 enoxaparin/
- 25 (enoxaparin or clexan* or inhixa or klexane or lovenox or neoparin* or thorinane).tw.

- 26 (tinzaparin or innohep or logiparin).tw.
- 27 nadroparin/
- 28 (nadroparin or fraxiparin* or seledie or seleparin* or tedegliparin or arixta).tw.
- 29 (monoparin or multiparin or calciparin*).tw.
- 30 (fondaparin* or quixidar or pentasacharide* or idraparinux).tw.
- 31 ("vitamin k" adj2 antagonist*).tw
- 32 exp 4-hydroxycoumarins/
- 33 (4 hydroxycoumarin* or 4-hydrxycoumarin*).tw.

34 (warfarin* or adoisine or aldocumar or antrombin* or athrombin* or befarin or carfin or circuvit or coumadan or coumadin* or coumafene or coumaphene or dagonal or farin or jantoven or kumatox or maforan or marevan or orfarin or panwarfarin or prothromadin or tintorane or uniwarfin or warfar or warfil or warnerin or sofarin).tw.

35 (acenocoumar* or acenokumarin or acitrom or ascumar or neo sintrom or neo-sintrom or neosintrom or neositron or nicoumalone or nicumalon or niffcoumar or nitrovarfarian or nitrowarfarin or sincoumar or sin?umar or sinthrom* or sintrom* or sintron or syncoumar or syncumar or syntrom or trombostop or zotil).tw.

36 Phenindione/

37 (phenindione or acluton or acoagine or arthrombon or athrombon or bindan or cronodione or dandilone or danilone or diadilan or dindevan or dineval or diophindane or emandione or eridione or eridone or fenhydren or fenilin or hedulin or hemolidione or indema or indon or phenidione or phenindion or phenyl indanedione or phenylin or phenylindandione or phenylindane dion or phenylindanedione or phenyllin or pindione or rectadione or thromasal or thrombantin or thrombasal or thrombosan or thrombusal or trompid).tw.

38 (Danaparoid or orgaran or Ziboror or antixarin or cy 222 or embolex or monoembolex or ardeparin or certoparin or parnaparin or reviparin or tedelparin or Dicoumarol or phenprocoumon or phepromaron or ethyl-biscoumacetate).tw.

- 39 or/17-38
- 40 10 and 16
- 41 10 and 39
- 42 limit 41 to ed=20110801-20180614
- 43 40 or 42
- 44 Randomized Controlled Trial.pt.
- 45 Controlled Clinical Trial.pt.
- 46 Clinical Trial.pt.
- 47 exp Clinical Trials as Topic/
- 48 Placebos/
- 49 Random Allocation/
- 50 Double-Blind Method/

- 51 Single-Blind Method/
- 52 Cross-Over Studies/
- 53 ((random\$ or control\$ or clinical\$) adj3 (trial\$ or stud\$)).tw.
- 54 (random\$ adj3 allocat\$).tw.
- 55 placebo\$.tw.
- 56 ((singl\$ or doubl\$ or trebl\$ or tripl\$) adj (blind\$ or mask\$)).tw.
- 57 (crossover\$ or (cross adj over\$)).tw.
- 58 or/44-57
- 59 animals/ not humans/
- 60 58 not 59
- 61 43 and 60
- 62 limit 61 to english language

Additional searches were run in the same databases on 15th January 2019 to include terms for Aspirin. The Medline version is presented below

- 1 Aspirin/
- 2 (aspirin or danamep or "acetylsalicyclic acid").tw.

Searches to identify economic evidence were run on 21st June 2018 and 18th January 2019 in Medline, Medline in Process, Econlit and Embase (all va the Ovid platform), NHS EED and the Health Technology Database (via the Wiley platform. NICE inhouse economic evaluation and Quality of Life filters were attached to the Medline and Embase strategies of lines 1-43 and 1-2 of the above searches. A single search to identify economic evidence across all questions was re run on 9th April 2019. The Medline version of the filters is displayed below

Economic evaluations

- 1 Economics/
- 2 exp "Costs and Cost Analysis"/
- 3 Economics, Dental/
- 4 exp Economics, Hospital/
- 5 exp Economics, Medical/
- 6 Economics, Nursing/
- 7 Economics, Pharmaceutical/
- 8 Budgets/
- 9 exp Models, Economic/
- 10 Markov Chains/
- 11 Monte Carlo Method/
- 12 Decision Trees/

- 13 econom\$.tw.
- 14 cba.tw.
- 15 cea.tw.
- 16 cua.tw.
- 17 markov\$.tw.
- 18 (monte adj carlo).tw.
- 19 (decision adj3 (tree\$ or analys\$)).tw.
- 20 (cost or costs or costing\$ or costly or costed).tw.
- 21 (price\$ or pricing\$).tw.
- 22 budget\$.tw.
- 23 expenditure\$.tw.
- 24 (value adj3 (money or monetary)).tw.
- 25 (pharmacoeconomic\$ or (pharmaco adj economic\$)).tw.
- 26 or/1-25

- 1 "Quality of Life"/
- 2 quality of life.tw.
- 3 "Value of Life"/
- 4 Quality-Adjusted Life Years/
- 5 quality adjusted life.tw.
- 6 (qaly\$ or qald\$ or qale\$ or qtime\$).tw.
- 7 disability adjusted life.tw.
- 8 daly\$.tw.
- 9 Health Status Indicators/ (22343)

10 (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 thirty six).tw.

11 (sf6 or sf 6 or short form 6 or shortform 6 or sf six or sfsix or shortform six or short form six).tw.

12 (sf12 or sf 12 or short form 12 or shortform 12 or sf twelve or sftwelve or shortform twelve or short form twelve).tw.

13 (sf16 or sf 16 or short form 16 or shortform 16 or sf sixteen or sfsixteen or shortform sixteen or short form sixteen).tw.

14 (sf20 or sf 20 or short form 20 or shortform 20 or sf twenty or sftwenty or shortform twenty).tw.

15 (euroqol or euro qol or eq5d or eq 5d).tw.

- 16 (qol or hql or hqol or hrqol).tw.
- 17 (hye or hyes).tw.
- 18 health\$ year\$ equivalent\$.tw.
- 19 utilit\$.tw.
- 20 (hui or hui1 or hui2 or hui3).tw.
- 21 disutili\$.tw.
- 22 rosser.tw.
- 23 quality of wellbeing.tw.
- 24 quality of well-being.tw.
- 25 qwb.tw.
- 26 willingness to pay.tw.
- 27 standard gamble\$.tw.
- time trade off.tw.
- 29 time tradeoff.tw.
- 30 tto.tw.
- 31 or/ 1-30

1.4 Investigations for cancer in people with unprovoked venous thromboembolism

The Cochrane Vascular group updated the searches used for <u>"Effect of testing for cancer on cancer- and venous thromboembolism (VTE)-related mortality and morbidity in people with unprovoked VTE (review)</u>, (Robertson, 2017) on July 11th 2018 and 1st April 2019. The sources were the vascular group register, CENTRAL, clinicaltrials.gov, ICTRP search portal, Medline, Embase, CINAHL and AMED.

Strategies for the searching of the register and Medline are presented below.

Vascular Register search

#1 venous thromboembolism or vte AND INREGISTER AND 02/01/2017_TO_11/07/2018:CRSCREATED

#2 cancer or malignan* or tumour or tumor AND INREGISTER AND 02/01/2017_TO_11/07/2018:CRSCREATED

#3 screen* or test* AND INREGISTER AND 02/01/2017_TO_11/07/2018:CRSCREATED

#4 #1 AND #2 AND #3

Medline Strategy

- 1 THROMBOSIS/
- 2 THROMBOEMBOLISM/
- 3 Venous Thromboembolism/
- 4 exp Venous Thrombosis/

5 (thrombus* or thrombotic* or thrombolic* or thrombolic* or thromboemboli* or thrombos* or embol*).ti,ab.

6 exp Pulmonary Embolism/

7 (PE or DVT or VTE).ti,ab.

8 ((vein* or ven*) adj thromb*).ti,ab.

- 9 (blood adj3 clot*).ti,ab.
- 10 (pulmonary adj3 clot*).ti,ab.
- 11 (lung adj3 clot*).ti,ab.
- 12 or/1-11
- 13 exp NEOPLASMS/

14 malignan*.ti,ab.

15 neoplas*.ti,ab.

16 cancer*.ti,ab.

- 17 (carcinoma* or adenocarcinoma*).ti,ab.
- 18 (tumour* or tumor*).ti,ab.
- 19 Trousseau.ti,ab.
- 20 or/13-19
- 21 exp Mass Screening/
- 22 exp Early Diagnosis/
- 23 screen*.ti,ab.
- 24 diagnos*.ti,ab.
- 25 assess*.ti,ab.
- 26 investigat*.ti,ab.
- 27 test.ti,ab.
- 28 testing.ti,ab.
- 29 or/21-28
- 30 12 and 20 and 29
- 31 randomized controlled trial.pt.
- 32 controlled clinical trial.pt.
- 33 randomized.ab.
- 34 placebo.ab.
- 35 drug therapy.fs.
- 36 randomly.ab.
- 37 trial.ab.
- 38 groups.ab.
- 39 or/31-37
- 40 exp animals/ not humans.sh.
- 41 39 not 40
- 42 30 and 41
- 43 (2017* or 2018*).ed.
- 44 42 and 43
- 45 from 44 keep 1-549

Searches to identify economic evidence published since the previous guidline were run on 17th July 2018 in Medline, Medline in Process, Embase, Econlit, NHS EED and the Health Technology Assessment Database. A single search to identify economic evidence across all questions was re run on 9th April 2019. The Medline strategy is presented below.

- 1 Venous Thrombosis/
- 2 (phlegmasia adj2 dolens).tw.
- 3 (thrombo* adj2 (vein* or venous)).tw.
- 4 (venous adj stasis).tw.
- 5 dvt.tw.
- 6 Venous Thromboembolism/ or Embolism, paradoxical/
- 7 vte.tw.
- 8 exp pulmonary embolism/
- 9 ((pulmonary or lung) adj4 (embol* or thromboembo* or microembol*)).tw.
- 10 (pulmonary adj infarction).tw.
- 11 or/1-10
- 12 exp *neoplasms/di

13 ((cancer\$ or neoplasm\$ or malignan\$ or tumor\$ or tumour\$ or carcinoma\$ or adenocarcinoma\$) adj4 (screen\$ or test\$ or diagnos\$ or detect\$ or occult or search\$ or assess\$ or investigat\$ or scan* or exam*)).tw.

- 14 "Early Detection of Cancer"/
- 15 or/12-14
- 16 11 and 15
- 17 Economics/
- 18 exp "Costs and Cost Analysis"/
- 19 Economics, Dental/
- 20 exp Economics, Hospital/
- 21 exp Economics, Medical/
- 22 Economics, Nursing/
- 23 Economics, Pharmaceutical/
- 24 Budgets/
- 25 exp Models, Economic/
- 26 Markov Chains/
- 27 Monte Carlo Method/
- 28 Decision Trees/
- 29 econom\$.tw.
- 30 cba.tw.
- 31 cea.tw
- 32 cua.tw.

- 33 markov\$.tw.
- 34 (monte adj carlo).tw.
- 35 (decision adj3 (tree\$ or analys\$)).tw.
- 36 (cost or costs or costing\$ or costly or costed).tw.
- 37 (price\$ or pricing\$).tw.
- 38 budget\$.tw.
- 39 expenditure\$.tw.
- 40 (value adj3 (money or monetary)).tw.
- 41 (pharmacoeconomic\$ or (pharmaco adj economic\$)).tw.
- 42 or/17-41
- 43 "Quality of Life"/
- 44 quality of life.tw.
- 45 "Value of Life"/
- 46 Quality-Adjusted Life Years/
- 47 quality adjusted life.tw.
- 48 (qaly\$ or qald\$ or qale\$ or qtime\$).tw.
- 49 disability adjusted life.tw.
- 50 daly\$.tw.
- 51 Health Status Indicators/

52 (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).tw.

53 (sf6 or sf 6 or short form 6 or shortform 6 or sf six or sfsix or shortform six or short form six).tw.

54 (sf12 or sf 12 or short form 12 or shortform 12 or sf twelve or sftwelve or shortform twelve).tw.

55 (sf16 or sf 16 or short form 16 or shortform 16 or sf sixteen or sfsixteen or shortform sixteen or short form sixteen).tw.

56 (sf20 or sf 20 or short form 20 or shortform 20 or sf twenty or sftwenty or shortform twenty).tw.

- 57 (euroqol or euro qol or eq5d or eq 5d).tw.
- 58 (qol or hql or hqol or hrqol).tw.
- 59 (hye or hyes).tw.
- 60 health\$ year\$ equivalent\$.tw.
- 61 utilit\$.tw.
- 62 (hui or hui1 or hui2 or hui3).tw.

- 63 disutili\$.tw.
- 64 rosser.tw.
- 65 quality of wellbeing.tw.
- 66 quality of well-being.tw.
- 67 qwb.tw.
- 68 willingness to pay.tw.
- 69 standard gamble\$.tw.
- 70 time trade off.tw.
- 71 time tradeoff.tw.
- 72 tto.tw.
- 73 or/43-72
- 74 42 or 73
- 75 16 and 74

76 (201108* or 201109* or 20111* or 2012* or 2013* or 2014* or 2015* or 2016* or 2017* or 2018*).ed.

77 75 and 76 limit 77 to english language

1.5 Predicting VTE-recurrence and major bleeding

Searches were carried out in Medline, Medline in Process, Medline epub ahead of print, Embase, (all via the Ovid platform) DARE, CDSR and CENTRAL (via the Wiley platform) on 22nd and 23rd October 2018 and re run on 4th April 2019.

The Medline strategy is presented below,

- 1 Venous Thrombosis/
- 2 (phlegmasia adj2 dolens).tw.
- 3 (thrombo* adj2 (vein* or venous)).tw.
- 4 (venous adj stasis).tw.
- 5 (dvt or vte).tw.
- 6 Venous Thromboembolism/ or Embolism, paradoxical/
- 7 exp pulmonary embolism/
- 8 ((pulmonary or lung) adj4 (embol* or thromboembo* or microembol*)).tw.
- 9 (pulmonary adj infarction).tw.
- 10 or/1-9

11 ((risk* or predict* or decision*) adj2 (tool* or score* or model* or calculat* or rule* or algorithm*)).tw.

- 12 predictive value of tests/
- 13 algorithms/
- 14 decision support techniques/
- 15 risk assessment/mt
- 16 statistical models/
- 17 Decision Making, Computer Assisted/
- 18 Proportional Hazards models/
- 19 or/12-18
- 20 Recurrence/
- 21 (recur* or reoccur* or repeat* or reappear* or relapse* or return* or repetit*).tw.
- 22 anticoagulants/
- 23 (anticoagulant* or anti coagulant*).tw.
- 24 hemorrhage/
- 25 (hemorrhag* or haemorrhag* or bleed*).tw.
- 26 or/20-25
- 27 19 and 26

- 28 10 and (11 or 27)
- 29 (HAS-BLED or VTE-BLEED or DASH or HERDOO2 or Vienna).tw.
- 30 10 and (28 or 29)
- 31 animals/ not humans/
- 32 30 not 31
- 33 limit 32 to english language/

Searches to identify economic evidence were run on 30th October 2018 in Medline, Medline in Process, Embase, Econlit (Ovid platform) and NHS EED and the Health Technology Database (Wiley platform). Economic evaluation and Quality of Life filters were attached to the above strategy for Medline and Embase databases. A single search to identify economic evidence across all questions was re run on 9th April 2019. The Medline version of the filters is displayed below.

Economic evaluations

- 1 Economics/
- 2 exp "Costs and Cost Analysis"/
- 3 Economics, Dental/
- 4 exp Economics, Hospital/
- 5 exp Economics, Medical/
- 6 Economics, Nursing/
- 7 Economics, Pharmaceutical/
- 8 Budgets/
- 9 exp Models, Economic/
- 10 Markov Chains/
- 11 Monte Carlo Method/
- 12 Decision Trees/
- 13 econom\$.tw.
- 14 cba.tw.
- 15 cea.tw.
- 16 cua.tw.
- 17 markov\$.tw.
- 18 (monte adj carlo).tw.
- 19 (decision adj3 (tree\$ or analys\$)).tw.
- 20 (cost or costs or costing\$ or costly or costed).tw.
- 21 (price\$ or pricing\$).tw.
- 22 budget\$.tw.

- expenditure\$.tw.
- 24 (value adj3 (money or monetary)).tw.
- 25 (pharmacoeconomic\$ or (pharmaco adj economic\$)).tw.
- 26 or/1-25

- 1 "Quality of Life"/
- 2 quality of life.tw.
- 3 "Value of Life"/
- 4 Quality-Adjusted Life Years/
- 5 quality adjusted life.tw.
- 6 (qaly\$ or qald\$ or qale\$ or qtime\$).tw.
- 7 disability adjusted life.tw.
- 8 daly\$.tw.
- 9 Health Status Indicators/ (22343)
- 10 (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.
- 11 (sf6 or sf 6 or short form 6 or shortform 6 or sf six or sfsix or shortform six or short form six).tw.
- 12 (sf12 or sf 12 or short form 12 or shortform 12 or sf twelve or sftwelve or shortform twelve).tw.
- 13 (sf16 or sf 16 or short form 16 or shortform 16 or sf sixteen or sfsixteen or shortform sixteen).tw.
- 14 (sf20 or sf 20 or short form 20 or shortform 20 or sf twenty or sftwenty or shortform twenty).tw.
- 15 (euroqol or euro qol or eq5d or eq 5d).tw.
- 16 (qol or hql or hqol or hrqol).tw.
- 17 (hye or hyes).tw.
- 18 health\$ year\$ equivalent\$.tw.
- 19 utilit\$.tw.
- 20 (hui or hui1 or hui2 or hui3).tw.
- 21 disutili\$.tw.
- 22 rosser.tw.
- 23 quality of wellbeing.tw.
- 24 quality of well-being.tw.
- 25 qwb.tw.

- 26 willingness to pay.tw.
- 27 standard gamble\$.tw.
- 28 time trade off.tw.
- 29 time tradeoff.tw.
- 30 tto.tw.
- 31 or/1-30

1.6 Outpatient treatment of low risk PE

The clinical literature search for RCTs was undertaken by Cochrane, and is outlined in full in the <u>2019 review</u>. The approach comprises a search to populate the Vascular Trial Register and additional searches of Central, clinical.trialsgov, the IRCTP search portal, Medline, Embase, CINAHL and AMED. The MEDLINE search for this review is presented below.

- 1 THROMBOSIS/
- 2 THROMBOEMBOLISM/
- 3 Venous Thromboembolism/
- 4 exp Venous Thrombosis/
- 5 (thrombus* or thrombotic* or thrombolic* or thromboemboli* or thrombos* or embol*).ti,ab.
- 6 exp Pulmonary Embolism/
- 7 (PE or DVT or VTE).ti,ab.
- 8 ((vein* or ven*) adj thromb*).ti,ab.
- 9 (blood adj3 clot*).ti,ab.
- 10 or/1-9
- 11 exp OUTPATIENTS/
- 12 exp Patient Care/
- 13 exp Ambulatory Care/
- 14 exp Home Nursing/
- 15 exp Outpatient Clinics, Hospital/
- 16 in-patient.ti,ab.
- 17 inpatient.ti,ab.
- 18 bed-ridden.ti,ab.
- 19 exp INPATIENTS/
- 20 Home Nursing/
- 21 Outpatient Clinics, Hospital/
- 22 in-patient.ti,ab.
- 23 Inpatient*.ti,ab.
- 24 bed-ridden.ti,ab.
- 25 out-patient.ti,ab.
- 26 outpatient.ti,ab.
- 27 ambulatory*.ti,ab.
- 28 domicil*.ti,ab.

Venous thromboembolic diseases: diagnosis, management and thrombophilia testing

29 or/11-28

- 30 randomized controlled trial.pt.
- 31 controlled clinical trial.pt.
- 32 randomized.ab.
- 33 placebo.ab.
- 34 drug therapy.fs.
- 35 randomly.ab.
- 36 trial.ab.
- 37 groups.ab.
- 38 or/30-37
- 39 (2017* or 2018*).ed.
- 40 10 and 29 and 38 and 39

This search was re run on 4th April 2019 using the NICE inhouse RCT filter.

An additional search was undertaken on 26th November 2018 to identify observational (non-RCT) studies in Medline, Medline in Process, Medline Epub Ahead of Print, Embase,(Ovid platform) Cochrane Database of Systematic Reviews (Wiley platform) and DARE (Centre for Reviews and Dissemination platform). This search was re run on 4th April 2019.The Medline strategy is presented below. The NICE inhouse observational studies filter was used.

- 1 exp Pulmonary Embolism/
- 2 ((pulmonary or lung) adj4 (embol* or thromboembo* or microembol*)).tw.
- 3 (pulmonary adj infarction).tw.
- 4 or/1-3
- 5 exp OUTPATIENTS/
- 6 exp INPATIENTS/
- 7 exp Ambulatory Care/
- 8 home care services/ or home care services, hospital-based/ or home health nursing/
- 9 exp HOSPITALIZATION/
- 10 exp Ambulatory Care Facilities/

11 ((in-patient* or inpatient*) adj4 (care* or treat* or service* or pathway* or protocol* or therap* or nurs* or support* or unit* or setting*)).tw.

12 hospitali*.tw.

13 (home* adj4 (care* or treat* or service* or pathway* or protocol* or therap* or nurs* or support* or unit* or setting*)).tw.

14 ((out-patient* or outpatient*) adj4 (care* or treat* or service* or clinic* or pathway* or protocol* or therap* or nurs* or support* or unit* or setting*)).tw

15 ambulatory.tw.

16 (domicil* adj4 (care* or treat* or service* or pathway* or protocol* or therap* or nurs* or support* or unit* or setting*)).tw.

17 (PESI or sPESI or "pulmonary embolism severity index" or HESTIA or "ESC criteria" or "european society of cardiology criteria" or GPS).tw.

- 18 (Risk adj1 (tool* or score* or stratify or stratification)).tw.
- 19 (Predict* adj1 (rule* or tool* or score*)).tw.
- 20 or/5-19
- 21 4 and 20
- 22 Observational Studies as Topic/
- 23 Observational Study/
- 24 Epidemiologic Studies/
- 25 exp Case-Control Studies/
- 26 exp Cohort Studies/
- 27 Cross-Sectional Studies/
- 28 Controlled Before-After Studies/
- 29 Historically Controlled Study/
- 30 Interrupted Time Series Analysis/
- 31 Comparative Study.pt.
- 32 case control\$.tw.
- 33 case series.tw.
- 34 (cohort adj (study or studies)).tw.
- 35 cohort analy\$.tw.
- 36 (follow up adj (study or studies)).tw.
- 37 (observational adj (study or studies)).tw.
- 38 longitudinal.tw.
- 39 prospective.tw.
- 40 retrospective.tw.
- 41 cross sectional.tw.
- 42 or/22-41
- 43 21 and 42
- 44 animal/ not human/
- 45 43 not 44
- 46 limit 45 to english language

Searches to identify economic evidence were run on 29th November 2018.in Medline , Medline In Process Embase and Econlit (Ovid platform) and NHS EED and the Health Technology Database (Centre for Reviews and Dissemination platform). NICE inhouse economic evaluation and quality of life filters were attached to lines 1 to 21 of the above strategy for searches in the Medline and Embase databases. A single search to identify economic evidence across all questions was re run on 9th April 2019. Medline versions of the filters are displayed below.

Economic evaluations

- 1 Economics/
- 2 exp "Costs and Cost Analysis"/
- 3 Economics, Dental/
- 4 exp Economics, Hospital/
- 5 exp Economics, Medical/
- 6 Economics, Nursing/
- 7 Economics, Pharmaceutical/
- 8 Budgets/
- 9 exp Models, Economic/
- 10 Markov Chains/
- 11 Monte Carlo Method/
- 12 Decision Trees/
- 13 econom\$.tw.
- 14 cba.tw.
- 15 cea.tw.
- 16 cua.tw.
- 17 markov\$.tw.
- 18 (monte adj carlo).tw.
- 19 (decision adj3 (tree\$ or analys\$)).tw.
- 20 (cost or costs or costing\$ or costly or costed).tw.
- 21 (price\$ or pricing\$).tw.
- 22 budget\$.tw.
- 23 expenditure\$.tw.
- 24 (value adj3 (money or monetary)).tw.
- 25 (pharmacoeconomic\$ or (pharmaco adj economic\$)).tw.
- 26 or/1-25

- 1 "Quality of Life"/
- 2 quality of life.tw.
- 3 "Value of Life"/
- 4 Quality-Adjusted Life Years/
- 5 quality adjusted life.tw.
- 6 (qaly\$ or qald\$ or qale\$ or qtime\$).tw.
- 7 disability adjusted life.tw.
- 8 daly\$.tw.
- 9 Health Status Indicators/ (22343)

10 (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 thirty six).tw.

11 (sf6 or sf 6 or short form 6 or shortform 6 or sf six or sfsix or shortform six or short form six).tw.

12 (sf12 or sf 12 or short form 12 or shortform 12 or sf twelve or sftwelve or shortform twelve or short form twelve).tw.

13 (sf16 or sf 16 or short form 16 or shortform 16 or sf sixteen or sfsixteen or shortform sixteen or short form sixteen).tw.

14 (sf20 or sf 20 or short form 20 or shortform 20 or sf twenty or sftwenty or shortform twenty).tw.

- 15 (euroqol or euro qol or eq5d or eq 5d).tw.
- 16 (qol or hql or hqol or hrqol).tw.
- 17 (hye or hyes).tw.
- 18 health\$ year\$ equivalent\$.tw.
- 19 utilit\$.tw.
- 20 (hui or hui1 or hui2 or hui3).tw.
- 21 disutili\$.tw.
- 22 rosser.tw.
- 23 quality of wellbeing.tw.
- 24 quality of well-being.tw.
- 25 qwb.tw.
- 26 willingness to pay.tw.
- 27 standard gamble\$.tw.
- 28 time trade off.tw.
- 29 time tradeoff.tw.

30 tto.tw.

31 or/1-30

1.7 Evidence reviews for the use of inferior vena caval filters in people with venous thromboembolism

A systematic search was conducted on 4th July 2019. The following databases were searched; Medline, Medline in Process, Medline epub ahead of Print, Embase (all via the Ovid platform), Cochrane Database of Systematic Reviews and the Cochrane Register of Controlled Trials (via the Wiley platform) and the Database of Abstracts of Reviews (via the Centre for Reviews and Dissemination platform). Date limits were applied to the date of the previous guideline for RCT and systematic review evidence. No date limits were applied for observational studies evidence. McMaster balanced RCT health-evidence.ca Systematic Review and NICE in house observational studies filters were used.

The Medline strategy is presented below. This was translated for other databases.

- 1 Venous Thrombosis/
- 2 (phlegmasia adj2 dolens).tw.
- 3 (thrombo* adj2 (vein* or venous)).tw.
- 4 (venous adj stasis).tw.
- 5 (dvt or vte).tw.
- 6 Venous Thromboembolism/ or Embolism, paradoxical/
- 7 exp pulmonary embolism/
- 8 ((pulmonary or lung) adj4 (embol* or thromboembo* or microembol*)).tw.
- 9 (pulmonary adj infarction).tw.
- 10 or/1-9
- 11 Vena Cava Filters/
- 12 vena cava, inferior/su or venae cavae/su
- 13 ((((ivc or vena) adj (cava or caval)) or umbrella) adj2 (filter or filters)).tw.

14 (ALN or Amplatz or Antheor or "Bird's Nest" or Celect or Crux or Denali or G2 or Greenfield or "Gunther Tulip" or LGM or "Mobin-Uddin" or Ninitol or OptEase or Prolyser or Tempofilter or TrapEase or "Vena Tech" or Venatech).tw.

- 15 or/11-14
- 16 10 and 15
- 17 randomized controlled trial.pt.
- 18 randomi?ed.mp.
- 19 placebo.mp.
- 20 or/17-19
- 21 (MEDLINE or pubmed).tw.
- 22 systematic review.tw.
- 23 systematic review.pt.

- 24 meta-analysis.pt.
- 25 intervention\$.ti.
- 26 or/21-25
- 27 20 or 26
- 28 16 and 27
- 29 limit 28 to ed=20110801-20190704
- 30 Observational Studies as Topic/
- 31 Observational Study/
- 32 Epidemiologic Studies/
- 33 exp Case-Control Studies/
- 34 exp Cohort Studies/
- 35 Cross-Sectional Studies/
- 36 Controlled Before-After Studies/
- 37 Historically Controlled Study/
- 38 Interrupted Time Series Analysis/
- 39 Comparative Study.pt.
- 40 case control\$.tw.
- 41 case series.tw.
- 42 (cohort adj (study or studies)).tw.
- 43 cohort analy\$.tw.
- 44 (follow up adj (study or studies)).tw.
- 45 (observational adj (study or studies)).tw.
- 46 longitudinal.tw.
- 47 prospective.tw.
- 48 retrospective.tw.
- 49 cross sectional.tw.
- 50 or/30-49
- 51 16 and 50
- 52 29 or 51
- 53 limit 52 to english language
- 54 animals/ not humans/
- 55 53 not 54

Searches to identify economic evidence were run on 9th July 2019 in Medline, Medline in Process, Econlit and Embase (all va the Ovid platform), NHS EED and the Health Technology Database (via the Centre for Reviews and Dissemination platform). NICE inhouse economic evaluation and Quality of Life filters were attached to lines 1 to 29 of the core strategy in the Medline and Embase databases. The Medline version of the filters is displayed below.

Economic evaluations

- 1 Economics/
- 2 exp "Costs and Cost Analysis"/
- 3 Economics, Dental/
- 4 exp Economics, Hospital/
- 5 exp Economics, Medical/
- 6 Economics, Nursing/
- 7 Economics, Pharmaceutical/
- 8 Budgets/
- 9 exp Models, Economic/
- 10 Markov Chains/
- 11 Monte Carlo Method/
- 12 Decision Trees/
- 13 econom\$.tw.
- 14 cba.tw.
- 15 cea.tw.
- 16 cua.tw.
- 17 markov\$.tw.
- 18 (monte adj carlo).tw.
- 19 (decision adj3 (tree\$ or analys\$)).tw.
- 20 (cost or costs or costing\$ or costly or costed).tw.
- 21 (price\$ or pricing\$).tw.
- 22 budget\$.tw.
- 23 expenditure\$.tw.
- 24 (value adj3 (money or monetary)).tw.
- 25 (pharmacoeconomic\$ or (pharmaco adj economic\$)).tw.
- 26 or/1-25

- 1 "Quality of Life"/
- 2 quality of life.tw.
- 3 "Value of Life"/
- 4 Quality-Adjusted Life Years/
- 5 quality adjusted life.tw.
- 6 (qaly\$ or qald\$ or qale\$ or qtime\$).tw.
- 7 disability adjusted life.tw.
- 8 daly\$.tw.
- 9 Health Status Indicators/ (22343)

10 (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 thirty six).tw.

11 (sf6 or sf 6 or short form 6 or shortform 6 or sf six or sfsix or shortform six or short form six).tw.

12 (sf12 or sf 12 or short form 12 or shortform 12 or sf twelve or sftwelve or shortform twelve or short form twelve).tw.

13 (sf16 or sf 16 or short form 16 or shortform 16 or sf sixteen or sfsixteen or shortform sixteen or short form sixteen).tw.

14 (sf20 or sf 20 or short form 20 or shortform 20 or sf twenty or sftwenty or shortform twenty).tw.

- 15 (euroqol or euro qol or eq5d or eq 5d).tw.
- 16 (qol or hql or hqol or hrqol).tw.
- 17 (hye or hyes).tw.
- 18 health\$ year\$ equivalent\$.tw.
- 19 utilit\$.tw.
- 20 (hui or hui1 or hui2 or hui3).tw.
- 21 disutili\$.tw.
- 22 rosser.tw.
- 23 quality of wellbeing.tw.
- 24 quality of well-being.tw.
- 25 qwb.tw.
- 26 willingness to pay.tw.
- 27 standard gamble\$.tw.
- 28 time trade off.tw.
- 29 time tradeoff.tw.

30 tto.tw.

31 or/1-30

1.8 Predicting VTE-recurrence and major bleeding

Searches were carried out in Medline, Medline in Process, Medline epub ahead of print, Embase, (all via the Ovid platform) DARE, CDSR and CENTRAL (via the Wiley platform) on 22nd and 23rd October 2018 and re run on 4th April 2019.

The Medline strategy is presented below,

- 1 Venous Thrombosis/
- 2 (phlegmasia adj2 dolens).tw.
- 3 (thrombo* adj2 (vein* or venous)).tw.
- 4 (venous adj stasis).tw.
- 5 (dvt or vte).tw.
- 6 Venous Thromboembolism/ or Embolism, paradoxical/
- 7 exp pulmonary embolism/
- 8 ((pulmonary or lung) adj4 (embol* or thromboembo* or microembol*)).tw.
- 9 (pulmonary adj infarction).tw.
- 10 or/1-9

11 ((risk* or predict* or decision*) adj2 (tool* or score* or model* or calculat* or rule* or algorithm*)).tw.

- 12 predictive value of tests/
- 13 algorithms/
- 14 decision support techniques/
- 15 risk assessment/mt
- 16 statistical models/
- 17 Decision Making, Computer Assisted/
- 18 Proportional Hazards models/
- 19 or/12-18
- 20 Recurrence/
- 21 (recur* or reoccur* or repeat* or reappear* or relapse* or return* or repetit*).tw.
- 22 anticoagulants/
- 23 (anticoagulant* or anti coagulant*).tw.
- 24 hemorrhage/
- 25 (hemorrhag* or haemorrhag* or bleed*).tw.
- 26 or/20-25

- 27 19 and 26
- 28 10 and (11 or 27)
- 29 (HAS-BLED or VTE-BLEED or DASH or HERDOO2 or Vienna).tw.
- 30 10 and (28 or 29)
- 31 animals/ not humans/
- 32 30 not 31
- 33 limit 32 to english language/

Searches to identify economic evidence were run on 30th October 2018 in Medline, Medline in Process, Embase, Econlit (Ovid platform) and NHS EED and the Health Technology Database (Wiley platform). Economic evaluation and Quality of Life filters were attached to the above strategy for Medline and Embase databases. A single search to identify economic evidence across all questions was re run on 9th April 2019. The Medline version of the filters is displayed below.

Economic evaluations

- 1 Economics/
- 2 exp "Costs and Cost Analysis"/
- 3 Economics, Dental/
- 4 exp Economics, Hospital/
- 5 exp Economics, Medical/
- 6 Economics, Nursing/
- 7 Economics, Pharmaceutical/
- 8 Budgets/
- 9 exp Models, Economic/
- 10 Markov Chains/
- 11 Monte Carlo Method/
- 12 Decision Trees/
- 13 econom\$.tw.
- 14 cba.tw.
- 15 cea.tw.
- 16 cua.tw.
- 17 markov\$.tw.
- 18 (monte adj carlo).tw.
- 19 (decision adj3 (tree\$ or analys\$)).tw.

- 20 (cost or costs or costing\$ or costly or costed).tw.
- 21 (price\$ or pricing\$).tw.
- 22 budget\$.tw.
- 23 expenditure\$.tw.
- 24 (value adj3 (money or monetary)).tw.
- 25 (pharmacoeconomic\$ or (pharmaco adj economic\$)).tw.
- 26 or/1-25

- 1 "Quality of Life"/
- 2 quality of life.tw.
- 3 "Value of Life"/
- 4 Quality-Adjusted Life Years/
- 5 quality adjusted life.tw.
- 6 (qaly\$ or qald\$ or qale\$ or qtime\$).tw.
- 7 disability adjusted life.tw.
- 8 daly\$.tw.
- 9 Health Status Indicators/ (22343)
- 10 (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).tw.
- 11 (sf6 or sf 6 or short form 6 or shortform 6 or sf six or sfsix or shortform six or short form six).tw.
- 12 (sf12 or sf 12 or short form 12 or shortform 12 or sf twelve or sftwelve or shortform twelve).tw.
- 13 (sf16 or sf 16 or short form 16 or shortform 16 or sf sixteen or sfsixteen or shortform sixteen).tw.
- 14 (sf20 or sf 20 or short form 20 or shortform 20 or sf twenty or sftwenty or shortform twenty).tw.
- 15 (euroqol or euro qol or eq5d or eq 5d).tw.
- 16 (qol or hql or hqol or hrqol).tw.
- 17 (hye or hyes).tw.
- 18 health\$ year\$ equivalent\$.tw.
- 19 utilit\$.tw.
- 20 (hui or hui1 or hui2 or hui3).tw.

- 21 disutili\$.tw.
- 22 rosser.tw.
- 23 quality of wellbeing.tw.
- 24 quality of well-being.tw.
- 25 qwb.tw.
- 26 willingness to pay.tw.
- 27 standard gamble\$.tw.
- 28 time trade off.tw.
- 29 time tradeoff.tw.
- 30 tto.tw.
- 31 or/1-30