

Supplementary File II: Literature Search Strategies

1. MEDLINE via PubMed

(((((aortic stenosis[MeSH Terms]) OR ((aort*[Text Word]) AND stenos*[Text Word]))) AND (((minimal*[Text Word]) OR Minimally Invasive Surgical Procedures[MeSH Terms])) AND (((Surg*[Text Word] OR Operat*[Text Word] OR Replace*[Text Word] OR Implant*[Text Word]))) OR Aortic Valve Stenosis/surgery*[MeSH Terms]) OR Aortic Valve Stenosis/surgery*)) AND (((Transcatheter Aortic Valve Replacement[MeSH Terms]) OR ((tavi[Text Word] OR ta-tavi[Text Word] OR tavr[Text Word] OR pavi[Text Word] OR pavr[Text Word]))) OR (((((((((((implant*[Text Word] OR insert*[Text Word] OR replace*)) AND valve*[Text Word]) AND aort*[Text Word]))) AND ((transcutan*[Text Word] OR transarterial*[Text Word] OR percutan*[Text Word] OR transcatheter*[Text Word] OR transkatheter*[Text Word] OR transapical*[Text Word] OR transfemor*[Text Word] OR transsubclav*[Text Word] OR transaort*[Text Word] OR trans- cutan*[Text Word] OR trans-arterial*[Text Word] OR trans-catheter*[Text Word] OR trans-katheter*[Text Word] OR trans-apical*[Text Word] OR trans-femor*[Text Word] OR transsubclav*[Text Word] OR trans-aort*[Text Word])))))) Filters: Publication date from 2002/01/01

2. Embase

- 1 exp clinical article/ (2283463)
- 2 exp controlled study/ (7251218)
- 3 exp major clinical study/ (3268487)
- 4 exp prospective study/ (569399)
- 5 exp cohort analysis/ (533602)
- 6 cohort.ti,ab. (858241)
- 7 compared.ti,ab. (4606972)
- 8 groups.ti,ab. (2721585)
- 9 'case control'.ti,ab. (156659)
- 10 multivariate.ti,ab. (473641)
- 11 1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10 (13292388)

12 ('crossover procedure':de or 'double-blind procedure':de or 'randomized controlled trial':de or 'singleblind procedure':de).mp. or (((random* or factorial* or crossover* or cross) adj over*) or placebo* or doubl* adjn blind* or singl* adjn blind* or assign* or allocat* or volunteer*).de,ti,ab. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword, floating subheading word, candidate term word] (1162557)

13 11 or 12 (13637171)

14 exp Transcatheter Aortic Valve Replacement/ (19756)

15 tavi.ti,ab. (9219)

16 ta-tavi.ti,ab. (190)

17 tavr.ti,ab. (5800)

18 pavi.ti,ab. (51)

19 pavr.ti,ab. (99)

20 14 or 15 or 16 or 17 or 18 or 19 (21586)

21 implant*.ti,ab. (508724)

22 insert*.ti,ab. (332115)

23 replace*.ti,ab. (477445)

24 21 or 22 or 23 (1236539)

25 valve*.ti,ab. (180183)

26 aort*.ti,ab. (343946)

27 25 and 26 (78101)

28 24 and 27 (47240)

29 20 or 28 (51334)

30 transcutan*.ti,ab. (17530)

31 transarterial*.ti,ab. (10475)

32 percutan*.ti,ab. (207285)

33 transcatheter*.ti,ab. (37952)

34 transkatheter*.ti,ab. (3)

- 35 transapical*.ti,ab. (3353)
- 36 transfemor*.ti,ab. (8644)
- 37 transsubclav*.ti,ab. (81)
- 38 transaort*.ti,ab. (2331)
- 39 trans- cutan*.ti,ab. (127)
- 40 trans-arterial*.ti,ab. (1006)
- 41 trans-catheter*.ti,ab. (1125)
- 42 trans-katheter*.ti,ab. (0)
- 43 trans-apical*.ti,ab. (271)
- 44 trans-femor*.ti,ab. (841)
- 45 trans-subclav*.ti,ab. (108)
- 46 trans-aort*.ti,ab. (409)
- 47 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
(272714)
- 48 exp Minimally Invasive Surgical Procedures/ (40013)
- 49 minimal*.ti,ab. (478272)
- 50 48 or 49 (490361)
- 51 Surg*.ti,ab. (2386161)
- 52 Operat*.ti,ab. (1341159)
- 53 Replace*.ti,ab. (477445)
- 54 Implant*.ti,ab. (508724)
- 55 51 or 52 or 53 or 54 (3854674)
- 56 Aortic valve stenosis.ti,ab. (4885)
- 57 surgery.ti,ab. (1479628)
- 58 56 and 57 (1193)
- 59 55 or 58 (3854674)
- 60 50 and 59 (168721)

61 exp aortic stenosis/ (8979)

62 exp aortic valve stenosis/ (2671)

63 aort*.ti,ab. (343946)

64 stenos*.ti,ab. (208478)

65 63 and 64 (45623)

66 61 or 62 or 65 (48421)

67 13 and 29 and 47 and 60 and 66 (374)

68 29 or 47 (302390)

69 13 and 60 and 66 and 68 (642)

70 limit 69 to yr="2002 -Current" (584)

3. Cochrane Central

#1 (((transcutan* or transarterial* or percutan* or transcatheter* or transkatheter* or transapical* or transfemor* or transsubclav* or transaort* or trans-cutan* or trans-arterial* or trans-catheter* or transkatheter* or trans-apical* or trans-femor* or trans-subclav* or trans-aort*) and aort* and valve* and (implant* or insert* or replace*)):ti,ab,kw (Word variations have been searched) 1002

#2 MeSH descriptor: [Transcatheter Aortic Valve Replacement] explode all trees 143

#3 ((tavi or ta-tavi or tavr or pavi or pavr)):ti,ab,kw (Word variations have been searched) 859

#4 #1 OR #2 OR #3 1083

#5 MeSH descriptor: [Minimally Invasive Surgical Procedures] explode all trees 27216

#6 minimal* 38392

#7 #5 OR #6 63188

#8 (Surg* OR Operat* OR Replace* OR Implant*):ti,ab,kw (Word variations have been searched) 311776

#9 MeSH descriptor: [Heart Valve Prosthesis Implantation] explode all trees 757

#10 MeSH descriptor: [Aortic Valve] explode all trees 452

#11 MeSH descriptor: [Aortic Valve Stenosis] explode all trees 867

#12 #9 AND (#10 OR #11) 411

#13 #7 AND (#8 OR #12) 28250

#14 MeSH descriptor: [Aortic Valve Stenosis] explode all trees 867

#15 (aort*):ti,ab,kw (Word variations have been searched) 12126

#16 (stenos*):ti,ab,kw (Word variations have been searched) 12755

#17 #15 AND #16 1947

#18 #14 OR #17 2151

#19 #4 AND #13 AND #18 43

The search strategies were adapted for Clinicaltrials.gov, The WHO trials registry and Web of Science.