**Appendix 1: Search Strategy**

Database: Ovid MEDLINE(R) ALL <1946 to May 21, 2020>

Search Strategy:

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1 Colonic Polyps/ (8406)

2 ((colon\* or colorectal) and (polyp\* or adenoma\* or lesion\*)).mp. (73571)

3 1 or 2 (73571)

4 underwater.mp. (7071)

5 3 and 4 (58)

6 endoscopic mucosal resection/ (1621)

7 (endoscop\* adj5 (resect\* or dissect\*)).tw. (15004)

8 ((hot or cold) adj5 emr).tw. (15)

9 ((hot or cold) adj5 (snare or snares or polypectom\*)).tw. (270)

10 (resect\* or polypectom\*).tw. (351623)

11 6 or 7 or 8 or 9 or 10 (354220)

12 exp treatment outcome/ (1043132)

13 exp Postoperative Complications/ (542052)

14 Neoplasm Recurrence, Local/ (116712)

15 exp Recurrence/ (182445)

16 (outcome\* or recur\* or prognos\*).tw. (2556333)

17 (adverse or complicat\* or bleeding or hemorrhag\* or haemorrhag\*).tw. (1819757)

18 (perforat\* or pain\* or efficacy or safety).tw. (1800581)

19 12 or 13 or 14 or 15 or 16 or 17 or 18 (5654313)

20 5 and 11 and 19 (34)

21 limit 20 to english language (34)

Database: Embase <1974 to 2020 May 21>

Search Strategy:

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1 exp colon polyp/ (20052)

2 ((colon\* or colorectal) and (polyp\* or adenoma\* or lesion\*)).mp. (124141)

3 1 or 2 (125338)

4 underwater.mp. (7116)

5 3 and 4 (178)

6 endoscopic mucosal resection/ (6343)

7 (endoscop\* adj5 (resect\* or dissect\*)).tw. (27101)

8 ((hot or cold) adj5 emr).tw. (63)

9 ((hot or cold) adj5 (snare or snares or polypectom\*)).tw. (818)

10 (resect\* or polypectom\*).tw. (505081)

11 6 or 7 or 8 or 9 or 10 (510215)

12 exp treatment outcome/ (1639910)

13 exp postoperative complication/ (659878)

14 tumor recurrence/ or cancer recurrence/ (232141)

15 recurrent disease/ (176629)

16 (outcome\* or recur\* or prognos\*).tw. (3737120)

17 (adverse or complicat\* or bleeding or hemorrhag\* or haemorrhag\*).tw. (2609480)

18 (perforat\* or pain\* or efficacy or safety).tw. (2605030)

19 12 or 13 or 14 or 15 or 16 or 17 or 18 (7843415)

20 5 and 11 and 19 (121)

21 limit 20 to english language (119)

22 limit 21 to embase (42)

23 limit 21 to conference abstracts (76)

24 22 or 23 (118)

Cochrane CENTRAL

ID Search Hits

#1 [mh "colonic polyps"] 443

#2 (colon\* or colorectal) and (polyp\* or adenoma\* or lesion\*) 5983

#3 #1 and #2 443

#4 underwater 271

#5 #3 and #4 5

#6 [mh "endoscopic mucosal resection"] 72

#7 endoscop\* near/5 (resect\* or dissect\*) 1716

#8 (hot or cold) near/5 emr 20

#9 (hot or cold) near/5 (snare or snares or polypectom\*) 163

#10 resect\* or polypectom\* 27232

#11 #6 or #7 or #8 or #9 or #10 27703

#12 [mh "treatment outcome"] 135429

#13 [mh "postoperative complications"] 38856

#14 [mh "neoplasm recurrence, local"] 4049

#15 [mh recurrence] 11881

#16 outcome\* or recur\* or prognos\* 600785

#17 adverse or complicat\* or bleeding or hemorrhag\* or haemorrhag\* 440755

#18 perforat\* or pain\* or efficacy or safety 544853

#19 #12 or #13 or #14 or #15 or #16 or #17 or #18 1001260

#20 #5 and #11 and #19 in Trials 5

Web of Science Core Collection, 1965 to date

# 6

38

(#4 AND #3 AND #2)

AND

LANGUAGE:

(English)

Indexes=SCI-EXPANDED, CPCI-S, ESCI Timespan=1965-2020

# 5

38

#4

AND

#3

AND

#2

Indexes=SCI-EXPANDED, CPCI-S, ESCI Timespan=1965-2020

Edit

# 4

5,766,586

TOPIC:

 (outcome\* or recur\* or prognos\*)

OR

TOPIC:

 (adverse or complicat\* or bleeding or hemorrhag\* or haemorrhag\*)

OR

TOPIC:

 (perforat\* or pain\* or efficacy or safety)

Indexes=SCI-EXPANDED, CPCI-S, ESCI Timespan=1965-2020

Edit

# 3

334,405

TOPIC:

 (endoscop\* near/5 (resect\* or dissect\*) )

OR

TOPIC:

 ((hot or cold) near/5 emr)

OR

TOPIC:

 ((hot or cold) near/5 (snare or snares or polypectom\*) )

OR

TOPIC:

 (resect\* or polypectom\*)

Indexes=SCI-EXPANDED, CPCI-S, ESCI Timespan=1965-2020

Edit

# 2

86

TS=((colon\* or colorectal) and (polyp\* or adenoma\* or lesion\*) ) AND TS=(underwater)

Indexes=SCI-EXPANDED, CPCI-S, ESCI Timespan=1965-2020

Edit

# 1

75,364

TOPIC:

 ((colon\* or colorectal) and (polyp\* or adenoma\* or lesion\*) )

Scopus, 1823 to date

(TITLE-ABS-KEY ( ( ( colon\* OR colorectal ) AND ( polyp\* OR adenoma\* OR lesion\* ) ) ) ) AND ( TITLE-ABS-KEY ( underwater ) ) AND ( ( TITLE-ABS-KEY ( endoscop\* W/5 ( resect\* OR dissect\* ) ) OR TITLE-ABS-KEY ( ( hot OR cold ) W/5 ( emr OR snare OR snares OR polypectom\* ) ) OR TITLE-ABS-KEY ( resect\* OR polypectom\* ) ) ) AND ( ( TITLE-ABS-KEY ( outcome\* OR recur\* OR prognos\* ) OR TITLE-ABS-KEY ( adverse OR complicat\* OR bleeding OR hemorrhag\* OR haemorrhag\* ) OR TITLE-ABS-KEY ( perforat\* OR pain\* OR efficacy OR safety ) ) ) AND ( LIMIT-TO ( LANGUAGE , "English" ) )