

Appendix Document 1: Final Search Strategies

PICO 1: The Diagnostic Accuracy of Serum Ferritin in Iron Deficiency Anemia

Search date: April 6, 2019

Databases searched: Ovid MEDLINE: Epub Ahead of Print, In-Process & Other Non-Indexed Citations, Ovid MEDLINE® Daily and Ovid MEDLINE® 1946-Present, Embase Classic+Embase 1947 to 2019 April 05; Wiley Cochrane Library

Ovid MEDLINE(R), Embase

#	Searches	Results
1	exp Anemia, Iron-Deficiency/ use ppez	9223
2	exp Anemia, Hypochromic/ use ppez	18373
3	exp iron deficiency anemia/ use emczd	27068
4	((anemia* or anaemia*) adj2 (iron adj2 deficien*)).ti,ab,kf,kw.	25876
5	or/1-4	52160
6	exp Ferritins/	62192
7	exp ferritin blood level/ use emczd	16766
8	(isoferritin* or ferritin*).ti,ab,kw,kf.	67168
9	or/6-8	84353
10	5 and 9	10734
11	limit 10 to english language	9555
12	limit 11 to yr="1990 -Current"	8797
13	animals/ not (humans/ and animals/)	5885698
14	12 not 13	8706
15	meta-analysis/ or systematic review/ or meta-analysis as topic/ or "meta analysis (topic)"/ or "systematic review (topic)"/ or exp technology assessment, biomedical/	525755
16	Meta Analysis.pt.	99231
17	(meta analy* or metaanaly* or health technolog* assess*).ti,ab,kf,kw.	348728

18	(meta-analy* or metaanaly* or systematic review* or biomedical technology assessment* or bio-medical technology assessment*).mp,hw. (((systematic* or methodologic*) adj3 (review* or overview*)) or pooled analysis or published studies or published literature or hand search* or	673038
19	handsearch* or medline or pub med or pubmed or embase or cochrane or cinahl or data syntheses* or data extraction* or HTA or HTAs or (technolog* adj (assessment* or overview* or appraisal*))).ti,ab,kf,kw.	696373
20	(cochrane or (health adj2 technology assessment) or evidence report).jw.	43352
21	or/15-20	946009
22	14 and 21	276
23	remove duplicates from 22	215

Wiley Cochrane Library

#1	MeSH descriptor: [Anemia, Iron-Deficiency] explode all trees	1116
#2	MeSH descriptor: [Anemia, Hypochromic] explode all trees	1348
#3	((anemia* or anaemia*) NEAR/2 (iron NEAR/2 deficien*)):ti,ab	1455
#4	#1 OR #2 OR #3	2230
#5	MeSH descriptor: [Ferritins] explode all trees	967
#6	(isoferritin* or ferritin*):ti,ab	3330
#7	#5 OR #6	3492
#8	#4 and #7 with Cochrane Library publication date Between Jan 1990 and Apr 2019, in Cochrane Reviews	6

PICO 2: The Prevalence of Malignant Lesions in Patients with Iron Deficiency Anemia

Search date: April 9, 2019

Databases searched: Ovid MEDLINE: Epub Ahead of Print, In-Process & Other Non-Indexed Citations, Ovid MEDLINE® Daily and Ovid MEDLINE® 1946-Present, Embase Classic+Embase 1947 to 2019 April 08 ; Wiley Cochrane Library.

Ovid MEDLINE(R), Embase

#	Searches	Results
1	exp Anemia, Iron-Deficiency/ use ppez	9226
2	exp Anemia, Hypochromic/ use ppez	18376
3	exp iron deficiency anemia/ use emczd	27071
4	((anemia* or anaemia*) adj2 (iron adj2 deficien*)):ti,ab,kf,kw.	25881
5	or/1-4	52167

6	exp Gastrointestinal Neoplasms/ use ppez	357012
7	exp esophagus cancer/ use emczd or exp intestine cancer/ use emczd or exp stomach cancer/ use emczd	437815
8	((Gastrointestinal or esophag* or oesophag* or stomach or gastric or bowel* or intestin* or colorectal or colon) adj2 (cancer* or malignan* or neoplasm* or tumour* or tumor* or carcinoma*)):ti,kf,kw.	457043
9	or/6-8	889923
10	5 and 9	2223
11	limit 10 to english language	1948
12	limit 11 to yr="1990 -Current"	1787
13	animals/ not (humans/ and animals/)	5886111
14	12 not 13	1784
15	limit 14 to (case reports or comment or editorial or letter or note) [Limit not valid in Ovid MEDLINE(R),Ovid MEDLINE(R) Daily Update,Ovid MEDLINE(R) In-Process,Ovid MEDLINE(R) Publisher,Embase; records were retained]	383
16	Case Report/	4402125
17	14 not (15 or 16)	1037
18	remove duplicates from 17	878

Wiley Cochrane Library

ID	Search Hits	
#1	MeSH descriptor: [Anemia, Iron-Deficiency] explode all trees	1116
#2	MeSH descriptor: [Anemia, Hypochromic] explode all trees	1348
#3	((anemia* or anaemia*) NEAR/2 (iron NEAR/2 deficien*)):ti,ab	1455
#4	#1 OR #2 OR #3	2230
#5	MeSH descriptor: [Gastrointestinal Neoplasms] explode all trees	10996
#6	((Gastrointestinal or esophag* or oesophag* or stomach or gastric or bowel* or intestin* or colorectal or colon) near/2 (cancer* or malignan* or neoplasm* or tumour* or tumor* or carcinoma*)):ti,ab	23890
#7	#5 or #6	27141
#8	#4 AND #7 with Cochrane Library publication date Between Jan 1990 and Apr 2019, in Cochrane Reviews, Trials	44

PICO 3: The Prevalence of Celiac Disease in Patients with Iron Deficiency Anemia

Search date: April 19, 2019

Databases searched: Ovid MEDLINE: Epub Ahead of Print, In-Process & Other Non-Indexed Citations, Ovid MEDLINE® Daily and Ovid MEDLINE® 1946-Present, Embase Classic+Embase 1947 to 2019 April 18; Wiley Cochrane

Ovid MEDLINE(R), Embase

#	Searches	Results
1	exp Anemia, Iron-Deficiency/ use ppez	9252
2	exp Anemia, Hypochromic/ use ppez	18402
3	exp iron deficiency anemia/ use emczd	27147
4	((anemia* or anaemia*) adj2 (iron adj2 deficien*)).ti,ab,kf,kw.	25964
5	or/1-4	52283
6	exp Celiac Disease/	51810
7	((gluten adj2 enteropath*) or sprue or celiac or coeliac).ti,ab,kf,kw.	71437
8	6 or 7	81986
9	5 and 8	1964
10	limit 9 to english language	1735
11	limit 10 to yr="1990 -Current"	1614
12	animals/ not (humans/ and animals/)	5891631
13	11 not 12	1614
14	limit 13 to (case reports or comment or editorial or letter or note) [Limit not valid in Ovid MEDLINE(R),Ovid MEDLINE(R) Daily Update,Ovid MEDLINE(R) In-Process,Ovid MEDLINE(R) Publisher,Embase; records were retained]	283
15	Case Report/	4410809
16	13 not (14 or 15)	1058
17	remove duplicates from 16	826

Wiley Cochrane Library

ID	Search Hits	
#1	MeSH descriptor: [Anemia, Iron-Deficiency] explode all trees	1116
#2	MeSH descriptor: [Anemia, Hypochromic] explode all trees	1348
#3	((anemia* or anaemia*) NEAR/2 (iron NEAR/2 deficien*)):ti,ab	1455
#4	#1 OR #2 OR #3	2230
#5	MeSH descriptor: [Celiac Disease] explode all trees	303
#6	((gluten near/2 enteropath*) or sprue or celiac or coeliac):ti,ab	1016
#7	#5 or #6	1078
#8	#4 and #7	22

PICO 4: Treatment of H. Pylori in Patients with Iron Deficiency Anemia

Search date: March 30, 2019

Databases searched: Ovid MEDLINE: Epub Ahead of Print, In-Process & Other Non-Indexed Citations, Ovid MEDLINE® Daily and Ovid MEDLINE® 1946-Present, Embase Classic+Embase 1947 to 2019 April 05 ; Wiley Cochrane Library

Ovid MEDLINE(R), Embase

#	Searches	Results
1	exp Anemia, Iron-Deficiency/ use ppez	9223
2	exp Anemia, Hypochromic/ use ppez	18373
3	exp iron deficiency anemia/ use emczd	27068
4	((anemia* or anaemia*) adj2 (iron adj2 deficien*)).ti,ab,kf,kw.	25876
5	or/1-4	52160
6	exp Helicobacter pylori/	85487
7	exp Helicobacter Infections/	57635
8	exp Campylobacter/ use ppez	11583
9	(pylori adj2 (h or helicobacter)).ti,ab,kf,kw.	97288
10	or/6-9	124913
11	5 and 10	1208
12	limit 11 to english language	1067
13	animals/ not (humans/ and animals/)	5885698
14	12 not 13	1063
15	meta-analysis/ or systematic review/ or meta-analysis as topic/ or "meta analysis (topic)"/ or "systematic review (topic)"/ or exp technology assessment, biomedical/	525755
16	Meta Analysis.pt.	99231
17	(meta analy* or metaanaly* or health technolog* assess*).ti,ab,kf,kw.	348728
18	(meta-analy* or metaanaly* or systematic review* or biomedical technology assessment* or bio-medical technology assessment*).mp,hw. (((systematic* or methodologic*) adj3 (review* or overview*)) or pooled analysis or published studies or published literature or hand search* or	673038
19	handsearch* or medline or pub med or pubmed or embase or cochrane or cinahl or data synthes* or data extraction* or HTA or HTAs or (technolog* adj (assessment* or overview* or appraisal*)).ti,ab,kf,kw.	696373
20	(cochrane or (health adj2 technology assessment) or evidence report).jw.	43352

21	(Randomized Controlled Trial or Pragmatic Clinical Trial).pt. or exp Randomized Controlled Trials as Topic/ or "Randomized Controlled Trial (topic)"/ or Randomized Controlled Trial/ or Randomization/ or Random Allocation/ or Double-Blind Method/ or Double Blind Procedure/ or Double-Blind Studies/ or Single-Blind Method/ or Single Blind Procedure/ or Single-Blind Studies/ or Placebos/ or Placebo/ or (random* or sham or placebo*).ti,ab,hw,kf,kw. or ((singl* or doubl*) adj (blind* or dumm* or mask*)).ti,ab,hw,kf,kw. or ((tripl* or trebl*) adj (blind* or dumm* or mask*)).ti,ab,hw,kf,kw.	3339146
22	or/15-21	3966314
23	14 and 22	157
24	remove duplicates from 23	124

Wiley Cochrane

#1	MeSH descriptor: [Anemia, Iron-Deficiency] explode all trees	1116
#2	MeSH descriptor: [Anemia, Hypochromic] explode all trees	1348
#3	((anemia* or anaemia*) NEAR/2 (iron NEAR/2 deficien*)):ti,ab	1455
#4	#1 OR #2 OR #3	2230
#5	MeSH descriptor: [Helicobacter Infections] explode all trees	2042
#6	MeSH descriptor: [Helicobacter pylori] explode all trees	1929
#7	(pylori NEAR/2 (h or helicobacter)):ti,ab	5241
#8	#5 or #6 or #7	5306
#9	#4 and #8	49

PICO 5: The Use of Video Capsule Endoscopy in Patients with Iron Deficiency Anemia

Search date: April 14, 2019

Databases searched: Ovid MEDLINE: Epub Ahead of Print, In-Process & Other Non-Indexed Citations, Ovid MEDLINE® Daily and Ovid MEDLINE® 1946-Present, Embase Classic+Embase 1947 to 2019 April 18; Wiley Cochrane

Ovid MEDLINE(R), Embase

#	Searches	Results
1	exp Anemia, Iron-Deficiency/ use ppez	9252
2	exp Anemia, Hypochromic/ use ppez	18402
3	exp iron deficiency anemia/ use emczd	27147
4	((anemia* or anaemia*) adj2 (iron adj2 deficien*)):ti,ab,kf,kw.	25964
5	or/1-4	52283

6	exp Capsule Endoscopy/	10963
7	exp Capsule Endoscopes/ use ppez	505
8	exp capsule endoscope/ use emczd	1333
9	((capsule* or videocapsule* or wireless) adj2 (endoscop* or enteroscop*)) or pillcam* or pill cam* or (capsule* adj2 (wireless or camera* or video or disposable* or ingestible* or m2a or olympus)) or videocapsule* or endo?capsule* or WCE or (given adj (imaging or diagnostic*)) or mirocam or capsocam or intromedic or omom).ti,ab,kf,kw.	13557
10	or/6-9	16096
11	5 and 10	1158
12	limit 11 to english language	1048
13	limit 12 to yr="2000 -Current"	1048
14	animals/ not (humans/ and animals/)	5891631
15	13 not 14	1048
16	limit 15 to (case reports or comment or editorial or letter or note) [Limit not valid in Ovid MEDLINE(R),Ovid MEDLINE(R) Daily Update,Ovid MEDLINE(R) In-Process,Ovid MEDLINE(R) Publisher,Embase; records were retained]	187
17	Case Report/	4410809
18	15 not (16 or 17)	632
19	remove duplicates from 18	525

Wiley Cochrane

#1	MeSH descriptor: [Anemia, Iron-Deficiency] explode all trees	1116
#2	MeSH descriptor: [Anemia, Hypochromic] explode all trees	1348
#3	((anemia* or anaemia*) NEAR/2 (iron NEAR/2 deficien*)):ti,ab	1455
#4	#1 OR #2 OR #3	2230
#5	MeSH descriptor: [Capsule Endoscopy] explode all trees	118
#6	MeSH descriptor: [Capsule Endoscopes] explode all trees	23
#7	((capsule* or videocapsule* or wireless) NEAR/2 (endoscop* or enteroscop*)) or pillcam* or pill cam* or (capsule* NEAR/2 (wireless or camera* or video or disposable* or ingestible* or m2a or olympus)) or videocapsule* or endo?capsule* or WCE or (given NEAR (imaging or diagnostic*)) or mirocam or capsocam or intromedic or omom):ti,ab	272
#8	#5 or #6 or #7	385
#9	#4 AND #8	7