

## Supplementary Material

### Search algorithm

Search Name: Colchicine Central and CAD 2021

Date Run: 25/03/2021 21:31:52

Comment:

ID	Search	Hits
#1	MeSH descriptor: [Colchicine] explode all trees	350
#2	colchicine	935
#3	"coronary artery disease"	18119
#4	MeSH descriptor: [Coronary Artery Disease] explode all trees	6541
#5	MeSH descriptor: [Non-ST Elevated Myocardial Infarction] explode all trees	86
#6	CAD	5304
#7	"Percutaneous coronary intervention"	10304
#8	PCI	8768
#9	MeSH descriptor: [Percutaneous Coronary Intervention] explode all trees	5580
#10	Acute Myocardial Infarction	15746
#11	"acute coronary syndrome"	6399
#12	MeSH descriptor: [Myocardial Infarction] explode all trees	11171
#13	"MI"	18743
#14	STEMI or NonSTEMI or NonSTEACS or ACS or angioplasty or CABG or PCI	25042
#15	MeSH descriptor: [ST Elevation Myocardial Infarction] explode all trees	491
#16	MeSH descriptor: [Angioplasty] explode all trees	4445
#17	MeSH descriptor: [Acute Coronary Syndrome] explode all trees	2038
#18	#3 or #4 or #5 or #6 or #7 or #8 or #9 or #10 or #11 or #12 or #13 or #14 or #15 or #16 or #17	66867
#19	Anti-inflammatory agents	14955
#20	MeSH descriptor: [Anti-Inflammatory Agents] explode all trees	13377
#21	#19 or #20 or #1 or #2	16903
#22	#18 #21	670
#23	#1 or #2	936
#24	#18 #23	119
#25	MeSH descriptor: [Randomized Controlled Trial] explode all trees	119
#26	"randomized controlled trial"	872979
#27	MeSH descriptor: [Cross-Over Studies] explode all trees	37480
#28	MeSH descriptor: [Clinical Trial] explode all trees	141
#29	"clinical trial"	656804
#30	rct	34756
#31	#25 or #26 or #27 or #28 or #29	1053420
#32	#24 #31	76

#33 human NOT animal 592929  
 #34 #32 #33 41

Database(s): **Ovid Embase** 1974 to 2021 January 15

Search Strategy:

#	Searches	Results
1	colchicine/ or Colchicine.af.	35355
2	"Myocardial Infarction".af. or heart infarction/	406785
3	"acute Myocardial Infarction".af.	86236
4	StEMI.af.	29480
5	"ST Elevation Myocardial Infarction".af. or ST segment elevation myocardial infarction/	45388
6	NSTEMI.af. or non ST segment elevation myocardial infarction/	17029
7	nonstemi.af.	53
8	ACS.af. or acute coronary syndrome/	92456
9	angioplasty/ or angioplasty.af.	99788
10	coronary artery bypass graft/ or CABG.af.	88609
11	PCI.af. or percutaneous coronary intervention/	104597
12	"coronary artery disease".af. or coronary artery disease/	243900
13	CAD.af.	93666
14	"Percutaneous coronary intervention".af.	88258
15	"coronary syndrome".af. or heart muscle ischemia/	159106
16	exp Clinical trial/	1562780
17	Randomized controlled trial/	641038
18	Randomization/	89738
19	Randomi?ed controlled trial\$.tw.	248226
20	RCT.tw.	40406
21	Randomly allocated.tw.	37534
22	Random allocation.tw.	2173
23	Allocated randomly.tw.	2637
24	(allocated adj2 random).tw.	911
25	Single blind\$.tw.	26307
26	Double blind\$.tw.	216841
27	((treble or triple) adj blind\$.tw.	1286

28	Placebo\$.tw.	320381
29	Prospective study/	656019
30	Single-Blind Method/ or Single blind procedure.mp. or Double-Blind Method/	195685
31	Cross-Over Studies/ or Crossover procedure.mp.	65868
32	Placebo.mp. or Placebo Effect/ or Clinical Trials as Topic/	540835
33	or/16-32	2552003
34	Case study/	75352
35	Case report.tw.	436559
36	Abstract report/ or letter/	1183379
37	or/34-36	1683847
38	33 not 37	2489544
39	"systematic review"/ or meta analysis/	380834
40	or/2-15	868341
41	1 and 38 and 40	294
42	42limit 41 to human	278
43	1 and 41	1193
44	limit 47 to (human and (clinical trial or randomized controlled trial or controlled clinical trial or multicenter study or phase 1 clinical trial or phase 2 clinical trial or phase 3 clinical trial or phase 4 clinical trial) and yr="2000 -Current")	131

Database(s): **Ovid MEDLINE(R) ALL** 1946 to January 15, 2021

Search Strategy:

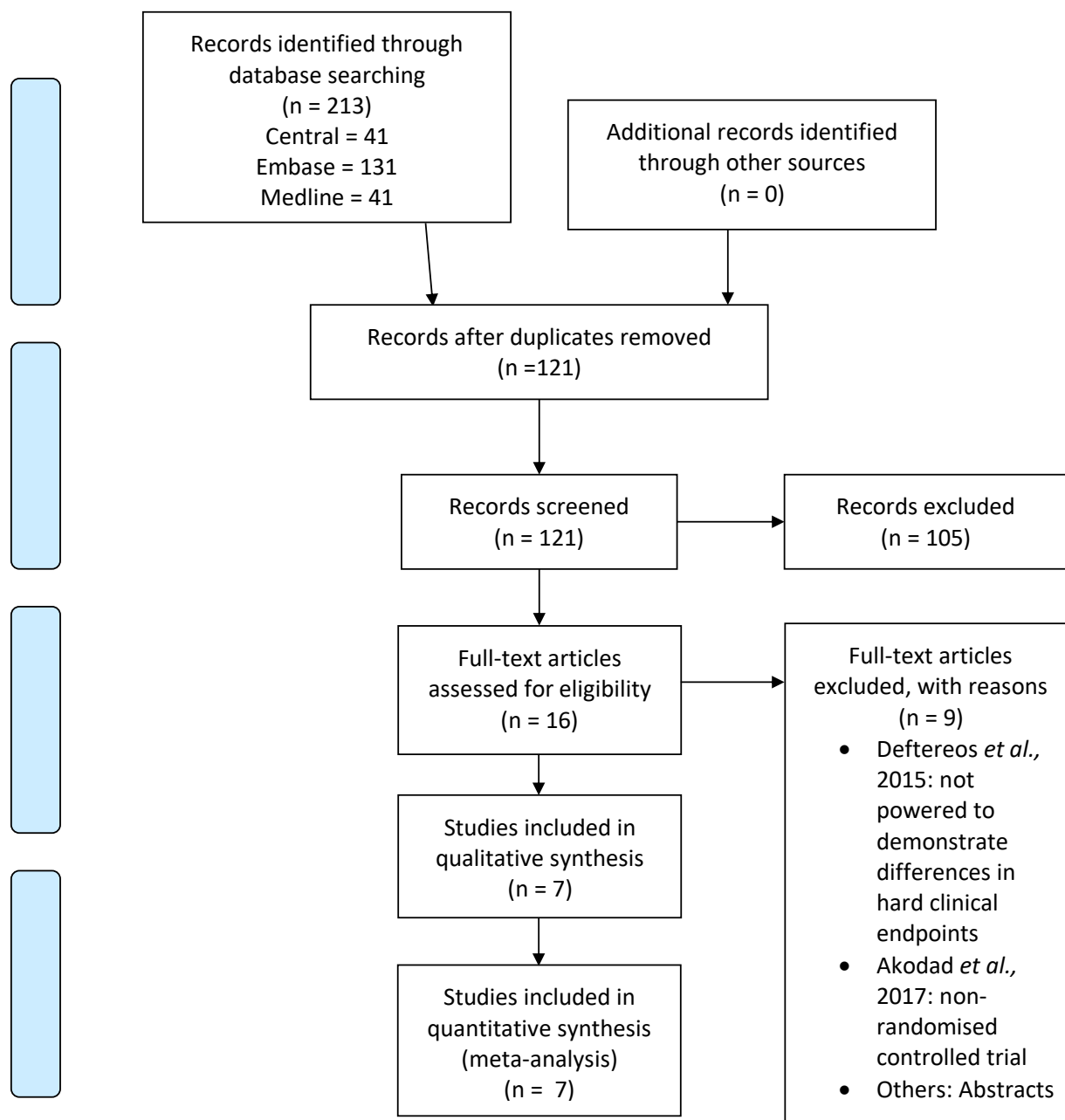
#	Searches	Results
1	colchicine/ or Colchicine.af.	20730
2	"Myocardial Infarction".af. or heart infarction/	251053
3	"acute Myocardial Infarction".af.	60212
4	StEMI.af.	11806
5	"ST Elevation Myocardial Infarction".af. or ST segment elevation myocardial infarction/	11974
6	NSTEMI.af. or non ST segment elevation myocardial infarction/	2611
7	nonstemi.af.	9
8	ACS.af. or acute coronary syndrome/	145471
9	angioplasty/ or angioplasty.af.	77674

10	coronary artery bypass graft/ or CABG.af.	55898
11	PCI.af. or percutaneous coronary intervention/	39752
12	"coronary artery disease".af. or coronary artery disease/	127693
13	CAD.af.	44790
14	"Percutaneous coronary intervention".af.	41401
15	"coronary syndrome".af. or heart muscle ischemia/	30080
16	exp Clinical trial/	880171
17	Randomized controlled trial/	520899
18	Randomization/	104421
19	Randomi?ed controlled trial\$.tw.	191054
20	RCT.tw.	23382
21	Randomly allocated.tw.	30280
22	Random allocation.tw.	1726
23	Allocated randomly.tw.	2292
24	(allocated adj2 random).tw.	807
25	Single blind\$.tw.	19336
26	Double blind\$.tw.	155014
27	((treble or triple) adj blind\$.tw.	1013
28	Placebo\$.tw.	222069
29	Prospective study/	560529
30	Single-Blind Method/ or Single blind procedure.mp. or Double-Blind Method/	190507
31	Cross-Over Studies/ or Crossover procedure.mp.	49359
32	Placebo.mp. or Placebo Effect/ or Clinical Trials as Topic/	399723
33	or/16-32	1731022
34	Case study/	2150675
35	Case report.tw.	326634
36	Abstract report/ or letter/	1119091
37	or/34-36	3112038
38	33 not 37	1687380
39	"systematic review"/ or meta analysis/	208090
40	or/2-15	597838
41	1 and 38 and 40	60
42	41 not 39	55

43	1 and 40	285
44	limit 41 to humans	41



## PRISMA Flow Diagram



Supplementary Figure 1: PRISMA Flow Diagram

Reason for exclusion:

---

**Non-randomised controlled trials**

---

COLIN (Akodad *et al.*, 2017)<sup>1</sup>

---

---

**Not powered to demonstrate differences in hard clinical end points**

---

Deftereos *et al.*, 2015<sup>2</sup>

---

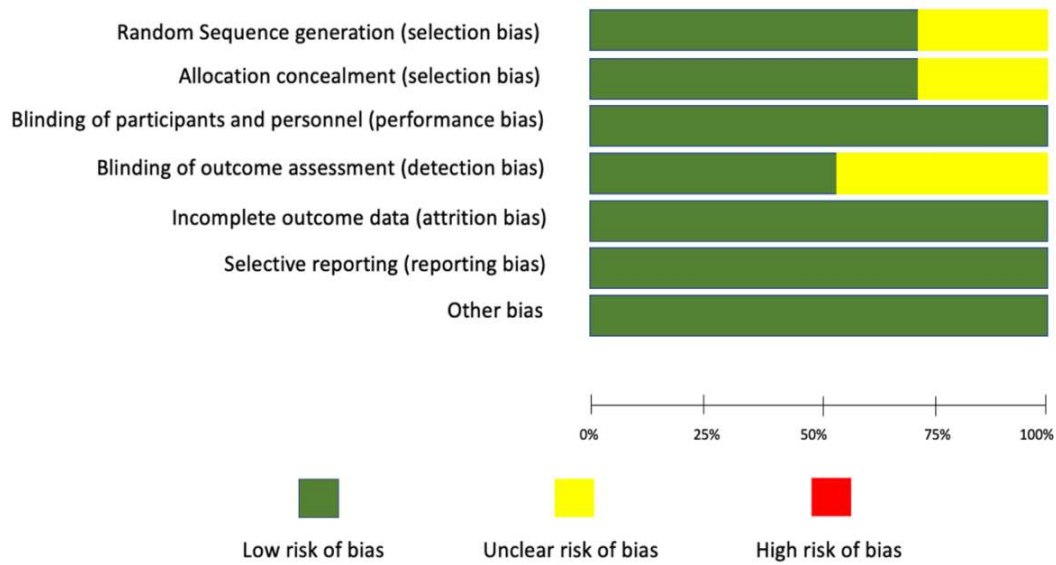
References

- 1) Akodad M, Lattuca B, Nagot N, Georgescu V, Buisson M, Cristol J *et al.* COLIN trial: Value of colchicine in the treatment of patients with acute myocardial infarction and inflammatory response. *Archives of Cardiovascular Diseases*. 2017;110(6-7):395-402.
- 2) Deftereos S, Giannopoulos G, Angelidis C, Alexopoulos N, Filippatos G, Papoutsidakis N *et al.* Anti-Inflammatory Treatment With Colchicine in Acute Myocardial Infarction. *Circulation*. 2015;132(15):1395-1403.

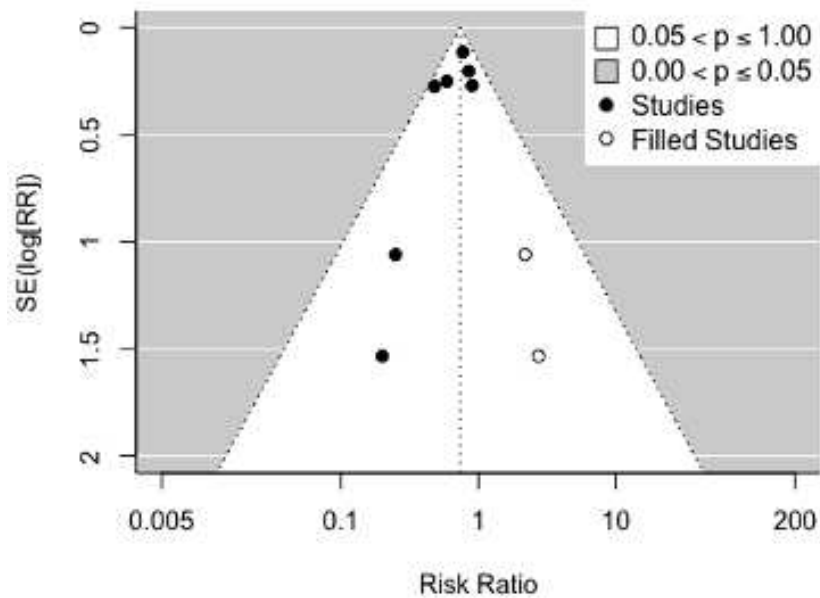
	Random Sequence Generation (Selection Bias)	Allocation Concealment (Selection Bias)	Blinding of Participants and Personnel (Performance Bias)	Blinding of Outcome Assessment (Detection Bias)	Incomplete Outcome (Attrition Bias)	Selective Reporting (Reporting Bias)	Other Biases
O'Keefe 1992	?	?	+	?	+	+	+
<u>Deftereoes 2013</u>	?	?	+	?	+	+	+
CISR 2019*	+	+	+	?	+	+	+
COLCOT 2019	+	+	+	+	+	+	+
LODOCO-MI 2019	+	+	+	+	+	+	+
COLCHICINE-PCI 2020	+	+	+	+	+	+	+
COPS 2020	+	+	+	+	+	+	+

Supplementary Figure 2: Summary of Cochrane Risk Assessment Tool





Supplementary Figure 3: Overview analysis of Cochrane Risk Assessment



Supplementary Figure 4: Trim-and-fill method to adjust for potential publication bias.