

Appendix 1: Search strategy of PubMed

1 "Colonoscopy"[Mesh] 36293
 2 (((((((Colonoscopies[Title/Abstract]) OR (Colonoscopic Surgical Procedures[Title/Abstract])) OR (Colonoscopic Surgical Procedure[Title/Abstract])) OR (Procedure, Colonoscopic Surgical[Title/Abstract])) OR (Procedures, Colonoscopic Surgical[Title/Abstract])) OR (Surgical Procedure, Colonoscopic[Title/Abstract])) OR (Colonoscopic Surgery[Title/Abstract])) OR (Colonoscopic Surgeries[Title/Abstract])) OR (Surgeries, Colonoscopic[Title/Abstract])) OR (Surgery, Colonoscopic[Title/Abstract])) OR (Surgical Procedures, Colonoscopic[Title/Abstract]) 8306
 3 #1 OR #2 38772
 4 "Artificial Intelligence"[Mesh] 206523
 5 (((((((((((Intelligence, Artificial[Title/Abstract]) OR (Computer Reasoning[Title/Abstract])) OR (Reasoning, Computer[Title/Abstract])) OR (AI (Artificial Intelligence[Title/Abstract])) OR (Machine Intelligence[Title/Abstract])) OR (Intelligence, Machine[Title/Abstract])) OR (Computational Intelligence[Title/Abstract])) OR (Intelligence, Computational[Title/Abstract])) OR (Computer Vision Systems[Title/Abstract])) OR (Computer Vision System[Title/Abstract])) OR (System, Computer Vision[Title/Abstract])) OR (Systems, Computer Vision[Title/Abstract])) OR (Vision System, Computer[Title/Abstract])) OR (Vision Systems, Computer[Title/Abstract])) OR (Knowledge Acquisition (Computer[Title/Abstract])) OR (Acquisition, Knowledge (Computer[Title/Abstract])) OR (Knowledge Representation (Computer[Title/Abstract])) OR (Knowledge Representations (Computer[Title/Abstract])) OR (Representation, Knowledge (Computer[Title/Abstract])) 50879
 6 #4 OR #5 242650
 7 (((((((randomized controlled trial[Publication Type]) OR (controlled clinical trial[Publication Type])) OR (pragmatic clinical trial[Publication Type])) OR (placebo[Title/Abstract])) OR (randomized[Title/Abstract])) OR (randomly[Title/Abstract])) OR (clinical trial[Publication Type])) OR (trial[Title/Abstract])) OR (groups[Title/Abstract]) 4203613
 8 #3 AND #6 AND #7 169

Appendix 2: Search strategy of Embase

#1. 'colonoscopy'/exp OR colonoscopy	119,768
#2. colonoscopies	12,717
#3. colonoscopic AND surgical AND procedures	283
#4. colonoscopic AND surgical AND procedure	438
#5. procedure, AND colonoscopic AND surgical	438
#6. procedures, AND colonoscopic AND surgical	283
#7. surgical AND procedure, AND colonoscopic	438
#8. colonoscopic AND surgery	3,835
#9. colonoscopic AND surgeries	35
#10. surgeries, AND colonoscopic	35
#11. surgery, AND colonoscopic	3,835
#12. surgical AND procedures, AND colonoscopic	283
#13. #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 OR #9 OR #10 OR #11 OR #12	16,191

#14. #1 OR #13	121,417
#15. artificial AND intelligence	125,406
#16. intelligence, AND artificial	125,406
#17. computer AND reasoning	4,207
#18. reasoning, AND computer	4,207
#19. ai AND artificial AND intelligence	32,193
#20. machine AND intelligence	48,558
#21. intelligence, AND machine	48,558
#22. computational AND intelligence	21,352
#23. intelligence, AND computational	21,352
#24. computer AND vision AND systems	6,633
#25. computer AND vision AND system	14,058
#26. system, AND computer AND vision	14,058
#27. systems, AND computer AND vision	6,633
#28. vision AND system, AND computer	14,058
#29. vision AND systems, AND computer	6,633
#30. knowledge AND acquisition AND computer	2,107
#31. acquisition, AND knowledge AND computer	2,107
#32. knowledge AND representation AND computer	3,425
#33. knowledge AND representations AND computer	1,217
#34. representation, AND knowledge AND computer	3,425
#35. #16 OR #17 OR #18 OR #19 OR #20 OR #21 OR #22 OR #23 OR #24 OR #25 OR #26 OR #27 OR #28 OR #29 OR #30 OR #31 OR #32 OR #33 OR #34	163,827
#36. #15 OR #35	163,827
#37. randomized AND controlled AND trial	1,209,781
#38. randomized	1,513,969
#39. placebo	553,669
#40. rct	66,544
#41. #37 OR #38 OR #39 OR #40	1,788,758
#42. #14 AND #36 AND #41	320

Appendix 3: Search strategy of Cochrane Central Register of Controlled

Trials (CENTRAL)

- #1 Colonoscopy 9347
- #2 Colonoscopies 1245
- #3 Colonoscopic Surgical Procedures 17
- #4 Colonoscopic Surgical Procedure 22
- #5 Procedure, Colonoscopic Surgical 22
- #6 Procedures, Colonoscopic Surgical 17
- #7 Surgical Procedure, Colonoscopic 22
- #8 Colonoscopic Surgery 161
- #9 Colonoscopic Surgeries 1
- #10 Surgeries, Colonoscopic 1

#11 Surgery, Colonoscopic 161
 #12 Surgical Procedures, Colonoscopic 17
 #13 #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 OR #9 OR #10 OR #11 OR #12 1390
 #14 #1 OR #13 9440
 #15 Artificial Intelligence 2510
 #16 Intelligence, Artificial 2510
 #17 Computer Reasoning 388
 #18 Reasoning, Computer 388
 #19 AI (Artificial Intelligence) 1097
 #20 Machine Intelligence 484
 #21 Intelligence, Machine 484
 #22 Computational Intelligence 138
 #23 Intelligence, Computational 138
 #24 Computer Vision Systems 326
 #25 Computer Vision System 764
 #26 System, Computer Vision 764
 #27 Systems, Computer Vision 326
 #28 Vision System, Computer 764
 #29 Vision Systems, Computer 326
 #30 Knowledge Acquisition (Computer) 466
 #31 Acquisition, Knowledge (Computer) 466
 #32 Knowledge Representation (Computer) 273
 #33 Knowledge Representations (Computer) 61
 #34 Representation, Knowledge (Computer) 273
 #35 #16 OR #17 OR #18 OR #19 OR #20 OR #21 OR #22 OR #23 OR #24 OR #25 OR #26 OR #27
 OR #28 OR #29 OR #30 OR #31 OR #32 OR #33 OR #34 4366
 #36 #15 OR #35 4366
 #37 randomized controlled trial 1120920
 #38 randomized 1299781
 #39 placebo 405009
 #40 RCT 51517
 #41 #37 OR #38 OR #39 OR #40 1411071
 #42 #14 AND #36 AND #41 249