**Supplementary Data 1** – Searching strategy

**EMBASE Database**

1. ‘direct oral anticoagulant' /exp OR ‘direct oral anticoagulant'
2. ‘DOACS’/exp OR ‘DOACS’
3. ‘NOACS’/exp OR ‘NOACS’
4. ‘novel anticoagulant'’/exp OR ‘novel anticoagulant'’
5. ‘apixaban /exp OR ‘apixaban
6. ‘rivaroxaban’/exp OR ‘rivaroxaban’
7. ‘dabigatran /exp OR ‘dabigatran
8. ‘edoxaban’/exp OR ‘edoxaban’
9. ‘gastrointestinal’/exp OR ‘gastrointestinal’
10. / gastric’/exp OR ‘gastric’
11. ‘stomach’/exp OR ‘stomach’
12. ‘colon’/exp RO ‘colon’
13. ‘intestinal’/exp OR ‘intestinal'’
14. ‘rectal’/exp OR ‘rectal’
15. ‘hepatobiliary’/exp OR ‘hepatobiliary’
16. ‘pancreatic’/exp OR ‘pancreatic’
17. ‘cancer’/exp OR ‘cancer’
18. ‘malignancy’/exp OR ‘malignancy’
19. #1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8
20. #9 OR #10 OR #11 OR #12 OR #13 OR #14 OR #15 OR #16
21. #17 OR #18
22. #19 AND #20 AND #21

**Ovid MEDLINE Database**

1. direct oral anticoagulant.mp
2. DOACS.mp.
3. NOACS.mp.
4. novel anticoagulant.mp.
5. apixaban.mp.
6. rivaroxaban.mp.
7. dabigratan.mp.
8. edoxaban.mp.
9. gastrointestinal.mp.
10. gastric.mp.
11. stomach.mp.
12. colon.mp.
13. intestinal.mp.
14. rectal.mp.
15. hepatobiliary.mp.
16. pancreatic.mp.
17. cancer.mp.
18. malignancy.mp.
19. 1 or 2 or 3 or 4 or 5 or 6 or 7 or 8
20. 9 or 10 or 11 or 12 or 13 or 14 or 15 or 16
21. 17 or 18
22. 19 and 20 and 21