

Barrett's oesophagus

NICE guideline: search strategies

NICE guideline <number>

Search strategies

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Draft for Consultation

*This guideline was developed by
Guideline Development Team NGC*

Disclaimer

The recommendations in this guideline represent the view of NICE, arrived at after careful consideration of the evidence available. When exercising their judgement, professionals are expected to take this guideline fully into account, alongside the individual needs, preferences and values of their patients or service users. The recommendations in this guideline are not mandatory and the guideline does not override the responsibility of healthcare professionals to make decisions appropriate to the circumstances of the individual patient, in consultation with the patient and, where appropriate, their carer or guardian.

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Contents

| | |
|---------------------------------------------------------|------------------------------------------------------|
| Appendix A: Literature Search Strategies | 6 |
| A.1 1.1 Pharmacological interventions | 7 |
| A.1.1 Clinical search literature search strategy..... | 7 |
| A.1.2 Health Economics literature search strategy | 13 |
| A.2 2.1 2.3 Endoscopic surveillance | 19 |
| A.2.1 Clinical search literature search strategy..... | 19 |
| A.2.2 Health Economics literature search strategy | 25 |
| A.3 2.1b Endoscopic surveillance | 31 |
| A.3.1 Clinical search literature search strategy..... | 31 |
| A.3.2 Health Economics literature search strategy | 39 |
| A.4 2.2 Non endoscopic surveillance | 44 |
| A.4.1 Clinical search literature search strategy..... | 44 |
| A.4.2 Health Economics literature search strategy | 49 |
| A.5 2.2b Non endoscopic surveillance | 55 |
| A.5.1 Clinical search literature search strategy..... | 55 |
| A.5.2 Health Economics literature search strategy | 61 |
| A.6 3.1a Staging | 67 |
| A.6.1 Clinical search literature search strategy..... | 67 |
| A.6.2 Health Economics literature search strategy | 75 |
| A.7 3.1b Staging | 81 |
| A.7.1 Clinical search literature search strategy..... | 81 |
| A.7.2 Health Economics literature search strategy | 87 |
| A.8 4.1 4.2 Endoscopic therapies..... | 93 |
| A.8.1 Clinical search literature search strategy..... | 93 |
| A.8.2 Health Economics literature search strategy | 99 |
| A.9 5.1 Oesophagectomy | 105 |
| A.9.1 Clinical search literature search strategy..... | 105 |
| A.9.2 Health Economics literature search strategy | 110 |
| A.105.2 Non surgical | 116 |
| A.10.1 | Clinical search literature search strategy..... 116 |
| A.10.2 | Health Economics literature search strategy..... 124 |
| A.116.1 6.2 Anti-reflux..... | 130 |
| A.11.1 | Clinical search literature search strategy..... 130 |
| A.11.2 | Health Economics literature search strategy..... 133 |
| A.127.1 Follow up..... | 139 |

| | | |
|---------------------------|---------------------------------------------------|-----|
| A.12.1 | Clinical search literature search strategy | 139 |
| A.12.2 | Health Economics literature search strategy | 143 |
| A.137.2 Follow up..... | | 149 |
| A.13.1 | Clinical search literature search strategy | 149 |
| A.13.2 | Health Economics literature search strategy | 154 |
| A.148.1 Information | | 160 |
| A.14.1 | Clinical search literature search strategy | 160 |

Appendix A: Literature Search Strategies

A.1 1.1 Pharmacological interventions

This literature search strategy was used for the following review:

- For adults with Barrett's oesophagus, what is the clinical and cost effectiveness of pharmacological interventions (such as antacids, aspirin, H2 receptor antagonists, proton pump inhibitors) in reducing progression to dysplasia or cancer?

The literature searches for this review are detailed below and complied with the methodology outlined in Developing NICE guidelines: the manual. {NICE2014}

For more information, please see the Methodology review published as part of the accompanying documents for this guideline.

A.1.1 Clinical search literature search strategy

Searches were constructed using a PICO framework where population (P) terms were combined with Intervention (I) and in some cases Comparison (C) terms. Outcomes (O) are rarely used in search strategies as these concepts may not be indexed or described in the title or abstract and are therefore difficult to retrieve. Search filters were applied to the search where appropriate.

Table 1: Database parameters, filters and limits applied

| Database | Dates searched | Search filter used |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Medline (OVID) | 1946 – 26 April 2022 | Randomised controlled trials Systematic review studies Exclusions (animal studies, letters, comments, editorials, case studies/reports) English language |
| Embase (OVID) | 1974 – 26 April 2022 | Randomised controlled trials Systematic review studies Exclusions (animal studies, letters, comments, editorials, case studies/reports, conference abstracts) English language |
| The Cochrane Library (Wiley) | Cochrane Database of Systematic Reviews to Issue 4 of 12, April 2022 Cochrane Central Register of Controlled Trials to Issue 4 of 12, April 2022 | Exclusions (clinical trials, conference abstracts) |
| Epistemonikos (The Epistemonikos Foundation) | Inception to 26 April 2022 | Systematic review Exclusions (Cochrane reviews) |

Medline (Ovid) search terms

| | |
|----|------------------------|
| 1. | exp Barrett esophagus/ |
|----|------------------------|

| | |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2. | barrett*.ti,ab. |
| 3. | (speciali* adj3 (epithel* or oesophag* or esophag* or mucos*)).ti,ab. |
| 4. | (column* adj3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*)).ti,ab. |
| 5. | (intestin* adj2 metaplas*).ti,ab. |
| 6. | or/1-5 |
| 7. | Precancerous conditions/ |
| 8. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*).ti,ab. |
| 9. | 7 or 8 |
| 10. | exp Esophagus/ |
| 11. | Esophageal Mucosa/ |
| 12. | (oesophag* or esophag* or intramucosal* or intra-mucosal*).ti,ab. |
| 13. | or/10-12 |
| 14. | 9 and 13 |
| 15. | exp Esophageal Neoplasms/ |
| 16. | 6 or 14 or 15 |
| 17. | letter/ |
| 18. | editorial/ |
| 19. | news/ |
| 20. | exp historical article/ |
| 21. | Anecdotes as Topic/ |
| 22. | comment/ |
| 23. | case report/ |
| 24. | (letter or comment*).ti. |
| 25. | or/17-24 |
| 26. | randomized controlled trial/ or random*.ti,ab. |
| 27. | 25 not 26 |
| 28. | animals/ not humans/ |
| 29. | exp Animals, Laboratory/ |
| 30. | exp Animal Experimentation/ |
| 31. | exp Models, Animal/ |
| 32. | exp Rodentia/ |
| 33. | (rat or rats or mouse or mice or rodent*).ti. |
| 34. | or/27-33 |
| 35. | 16 not 34 |
| 36. | limit 35 to English language |
| 37. | Chemoprevention/ |
| 38. | (chemoprophylaxis or chemoprevent* or chemo-prevent* or chemopre-vent*).ti,ab,kf. |
| 39. | (pharma* adj2 (agent* or intervention* or therap* or manag*)).ti,ab,kf. |
| 40. | exp Anti-Inflammatory Agents, Non-Steroidal/ |
| 41. | ((cox or cox2 or cox ii) adj2 inhibitor*).ti,ab,kf. |
| 42. | (cyclooxygenase adj2 inhibitor*).ti,ab,kf. |
| 43. | (aspirin or acetylsalicylic acid or acetaminophen or ibuprofen or paracetamol or naproxen or sulindac or diflunisal or indomethacin or piroxicam or diclofenac or meloxicam or celecoxib or rofecoxib or ketoprofen or etodolac or nabumetone or oxaprozin or flurbiprofen).ti,ab,kf. |

| | |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| 44. | ((non steroid* or nonsteroid* or analgesic*) adj2 (anti inflammator* or antiinflammator*)).ti,ab,kf. |
| 45. | NSAID*.ti,ab,kf. |
| 46. | exp Histamine H2 Antagonists/ |
| 47. | (burimamide or cimetidine or ranitidine or metiamide or nizatidine or famotidine).ti,ab,kf. |
| 48. | ((histamine-2 or H2) adj3 (block* or antagonist*)).ti,ab,kf. |
| 49. | exp Hydroxymethylglutaryl-CoA Reductase Inhibitors/ |
| 50. | (atorvastatin* or fluvastatin* or lovastatin* or meglutol* or pravastatin* or rosuvastatin* or simvastatin*).ti,ab,kf. |
| 51. | ((hmg or hydroxymethylglutaryl) adj4 inhibitor*).ti,ab,kf. |
| 52. | statin*.ti,ab,kf. |
| 53. | (cholesterol lower* adj2 (agent* or drug* or medicine* or pharma*)).ti,ab,kf. |
| 54. | exp Proton Pump Inhibitors/ |
| 55. | (dexlansoprazole or omeprazole or lansoprazole or esomeprazole or pantoprazole or rabeprazole).ti,ab,kf. |
| 56. | proton pump inhibitor*.ti,ab,kf. |
| 57. | PPI*.ti,ab,kf. |
| 58. | exp Antacids/ |
| 59. | antacid*.ti,ab,kf. |
| 60. | (alkalinizing adj2 (agent* or drug* or medicine* or pharma*)).ti,ab,kf. |
| 61. | (acid* adj (sup?ress* or reduc* or lower* or neutrali* or inhibit*)).ti,ab,kf. |
| 62. | or/37-61 |
| 63. | 36 and 62 |
| 64. | Meta-Analysis/ |
| 65. | Meta-Analysis as Topic/ |
| 66. | (meta analy* or metanaly* or metaanaly* or meta regression).ti,ab. |
| 67. | ((systematic* or evidence*) adj3 (review* or overview*)).ti,ab. |
| 68. | (reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab. |
| 69. | (search strategy or search criteria or systematic search or study selection or data extraction).ab. |
| 70. | (search* adj4 literature).ab. |
| 71. | (medline or pubmed or cochrane or embase or psychlit or psyclit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab. |
| 72. | cochrane.jw. |
| 73. | ((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab. |
| 74. | or/64-73 |
| 75. | randomized controlled trial.pt. |
| 76. | controlled clinical trial.pt. |
| 77. | randomi#ed.ab. |
| 78. | placebo.ab. |
| 79. | randomly.ab. |
| 80. | clinical trials as topic.sh. |
| 81. | trial.ti. |
| 82. | or/75-81 |
| 83. | 63 and (74 or 82) |

Embase (Ovid) search terms

| | |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | exp Barrett esophagus/ |
| 2. | barrett*.ti,ab. |
| 3. | (speciali* adj3 (epithel* or oesophag* or esophag* or mucos*)).ti,ab. |
| 4. | (column* adj3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*)).ti,ab. |
| 5. | (intestin* adj2 metaplas*).ti,ab. |
| 6. | or/1-5 |
| 7. | Precancer/ |
| 8. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*).ti,ab. |
| 9. | 7 or 8 |
| 10. | exp Esophagus/ |
| 11. | Esophagus Mucosa/ |
| 12. | (oesophag* or esophag*).ti,ab. |
| 13. | or/10-12 |
| 14. | 9 and 13 |
| 15. | exp Esophagus Tumor/ |
| 16. | 6 or 14 or 15 |
| 17. | letter.pt. or letter/ |
| 18. | note.pt. |
| 19. | editorial.pt. |
| 20. | case report/ or case study/ |
| 21. | (letter or comment*).ti. |
| 22. | (conference abstract or conference paper).pt. |
| 23. | or/17-22 |
| 24. | randomized controlled trial/ or random*.ti,ab. |
| 25. | 23 not 24 |
| 26. | animal/ not human/ |
| 27. | nonhuman/ |
| 28. | exp Animal Experiment/ |
| 29. | exp Experimental Animal/ |
| 30. | animal model/ |
| 31. | exp Rodent/ |
| 32. | (rat or rats or mouse or mice or rodent*).ti. |
| 33. | or/25-32 |
| 34. | 16 not 33 |
| 35. | limit 34 to English language |
| 36. | chemoprophylaxis/ |
| 37. | (chemoprophylaxis or chemoprevent* or chemo-prevent* or chemopre-vent*).ti,ab,kf. |
| 38. | (pharma* adj2 (agent* or intervention* or therap* or manag*)).ti,ab,kf. |
| 39. | exp nonsteroid antiinflammatory agent/ |
| 40. | ((cox or cox2 or cox ii) adj2 inhibitor*).ti,ab,kf. |
| 41. | (cyclooxygenase adj2 inhibitor*).ti,ab,kf. |
| 42. | (aspirin or acetylsalicylic acid or acetaminophen or ibuprofen or paracetamol or naproxen or sulindac or diflunisal or indomethacin or piroxicam or diclofenac or meloxicam or celecoxib or rofecoxib or ketoprofen or etodolac or nabumetone or oxaprozin or flurbiprofen).ti,ab,kf. |

| | |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| 43. | ((non steroid* or nonsteroid* or analgesic*) adj2 (anti inflammator* or antiinflammator*)).ti,ab,kf. |
| 44. | NSAID*.ti,ab,kf. |
| 45. | exp histamine H2 receptor antagonist/ |
| 46. | (burimamide or cimetidine or ranitidine or metiamide or nizatidine or famotidine).ti,ab,kf. |
| 47. | ((histamine-2 or H2) adj3 (block* or antagonist*)).ti,ab,kf. |
| 48. | exp hydroxymethylglutaryl coenzyme A reductase inhibitor/ |
| 49. | (atorvastatin* or fluvastatin* or lovastatin* or meglutol* or pravastatin* or rosuvastatin* or simvastatin*).ti,ab,kf. |
| 50. | ((hmg or hydroxymethylglutaryl) adj4 inhibitor*).ti,ab,kf. |
| 51. | statin*.ti,ab,kf. |
| 52. | (cholesterol lower* adj2 (agent* or drug* or medicine* or pharma*)).ti,ab,kf. |
| 53. | exp proton pump inhibitor/ |
| 54. | (dexlansoprazole or omeprazole or lansoprazole or esomeprazole or pantoprazole or rabeprazole).ti,ab,kf. |
| 55. | proton pump inhibitor*.ti,ab,kf. |
| 56. | PPI*.ti,ab,kf. |
| 57. | exp antacid agent/ |
| 58. | antacid*.ti,ab,kf. |
| 59. | (alkalinizing adj2 (agent* or drug* or medicine* or pharma*)).ti,ab,kf. |
| 60. | (acid* adj (sup?ress* or reduc* or lower* or neutrali* or inhibit*)).ti,ab,kf. |
| 61. | or/36-60 |
| 62. | 35 and 61 |
| 63. | random*.ti,ab. |
| 64. | factorial*.ti,ab. |
| 65. | (crossover* or cross over*).ti,ab. |
| 66. | ((doubl* or singl*) adj blind*).ti,ab. |
| 67. | (assign* or allocat* or volunteer* or placebo*).ti,ab. |
| 68. | crossover procedure/ |
| 69. | single blind procedure/ |
| 70. | randomized controlled trial/ |
| 71. | double blind procedure/ |
| 72. | or/63-71 |
| 73. | Systematic Review/ |
| 74. | Meta-Analysis/ |
| 75. | (meta analy* or metanaly* or metaanaly* or meta regression).ti,ab. |
| 76. | ((systematic* or evidence*) adj3 (review* or overview*)).ti,ab. |
| 77. | (reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab. |
| 78. | (search strategy or search criteria or systematic search or study selection or data extraction).ab. |
| 79. | (search* adj4 literature).ab. |
| 80. | (medline or pubmed or cochrane or embase or psychlit or psychlit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab. |
| 81. | cochrane.jw. |
| 82. | ((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab. |
| 83. | or/73-82 |
| 84. | 62 and (72 or 83) |

Cochrane Library (Wiley) search terms

| | |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| #1. | MeSH descriptor: [Barrett Esophagus] explode all trees |
| #2. | barrett*:ti,ab |
| #3. | speciali* near/3 (epithel* or oesophag* or esophag* or mucos*):ti,ab |
| #4. | column* near/3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*):ti,ab |
| #5. | (intestin* near/2 metaplas*):ti,ab |
| #6. | (or #1-#5) |
| #7. | MeSH descriptor: [Precancerous Conditions] explode all trees |
| #8. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*):ti,ab |
| #9. | #7 or #8 |
| #10. | MeSH descriptor: [Esophagus] explode all trees |
| #11. | MeSH descriptor: [Esophageal Mucosa] explode all trees |
| #12. | (oesophag* or esophag* or intramucosal* or intra-mucosal*):ti,ab |
| #13. | (or #10-#12) |
| #14. | #9 and #13 |
| #15. | MeSH descriptor: [Esophageal Neoplasms] explode all trees |
| #16. | #6 or #14 or #15 |
| #17. | MeSH descriptor: [Chemoprevention] this term only |
| #18. | (chemoprophylaxis or chemoprevent* or chemo-prevent* or chemopre-vent*):ti,ab,kw |
| #19. | (pharma* near/2 (agent* or intervention* or therap* or manag*)):ti,ab,kw |
| #20. | MeSH descriptor: [Anti-Inflammatory Agents, Non-Steroidal] explode all trees |
| #21. | ((cox or cox2 or cox ii) near/2 inhibitor*):ti,ab,kw |
| #22. | (cyclooxygenase near/2 inhibitor*):ti,ab,kw |
| #23. | (aspirin or acetylsalicylic acid or acetaminophen or ibuprofen or paracetamol or naproxen or sulindac or diflunisal or indomethacin or piroxicam or diclofenac or meloxicam or celecoxib or rofecoxib or ketoprofen or etodolac or nabumetone or oxaprozin or flurbiprofen):ti,ab,kw |
| #24. | ((non steroid* or nonsteroid* or analgesic*) near/2 (anti inflammator* or antiinflammator*)):ti,ab,kw |
| #25. | NSAID*:ti,ab,kw |
| #26. | MeSH descriptor: [Histamine H2 Antagonists] explode all trees |
| #27. | (burimamide or cimetidine or ranitidine or metiamide or nizatidine or famotidine):ti,ab,kw |
| #28. | ((histamine-2 or H2) near/3 (block* or antagonist*)):ti,ab,kw |
| #29. | MeSH descriptor: [Hydroxymethylglutaryl-CoA Reductase Inhibitors] explode all trees |
| #30. | (atorvastatin* or fluvastatin* or lovastatin* or meglutol* or pravastatin* or rosuvastatin* or simvastatin*):ti,ab,kw |
| #31. | ((hmg or hydroxymethylglutaryl) near/4 inhibitor*):ti,ab,kw |
| #32. | statin*:ti,ab,kw |
| #33. | (cholesterol lower* near/2 (agent* or drug* or medicine* or pharma*)):ti,ab,kw |
| #34. | MeSH descriptor: [Proton Pump Inhibitors] explode all trees |
| #35. | (dexlansoprazole or omeprazole or lansoprazole or esomeprazole or pantoprazole or rabeprazole):ti,ab,kw |
| #36. | proton pump inhibitor*:ti,ab,kw |
| #37. | PPI*:ti,ab,kw |
| #38. | MeSH descriptor: [Antacids] explode all trees |

| | |
|------|----------------------------------------------------------------------------------|
| #39. | antacid*:ti,ab,kw |
| #40. | (alkalinizing near/2 (agent* or drug* or medicine* or pharma*)):ti,ab,kw |
| #41. | (acid* near/1 (sup?ress* or reduc* or lower* or neutrali* or inhibit*)):ti,ab,kw |
| #42. | (or #17-#41) |
| #43. | #16 and #42 |
| #44. | conference:pt or (clinicaltrials or trialsearch):so |
| #45. | #43 not #44 |

Epistemonikos search terms

| | |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | (title:(Barrett* OR "oesophageal adenocarcinoma*" OR "esophageal adenocarcinoma*" OR "oesophageal cancer*" OR "esophageal cancer*" OR "oesophageal carcinoma*" OR "esophageal carcinoma*" OR "oesophageal metaplas*" OR "esophageal dysplas*" OR "column* epithel*" OR "intestin* metaplas*" OR "intestin* dysplas*") OR abstract:(Barrett* OR "oesophageal adenocarcinoma*" OR "esophageal adenocarcinoma*" OR "oesophageal cancer*" OR "esophageal cancer*" OR "oesophageal carcinoma*" OR "esophageal carcinoma*" OR "oesophageal metaplas*" OR "esophageal dysplas*" OR "column* epithel*" OR "intestin* metaplas*" OR "intestin* dysplas*") AND (title:(Chemoprevent* OR chemoprophylaxis OR "chemo-prevent*" OR "non-steroid* anti-inflammator*" OR "nonsteroid* anti-inflammator*" OR "non-steroid* antiinflammator*" OR "nonsteroid* antiinflammator*" OR aspirin OR acetylsalicylic acid OR acetaminophen OR ibuprofen OR paracetamol OR naproxen OR sulindac OR diflunisal OR indomethacin OR piroxicam OR diclofenac OR meloxicam OR celecoxib OR rofecoxib OR ketoprofen OR etodolac OR nabumetone OR oxaprozin OR flurbiprofen OR NSAID* OR "H2 antagonist*" OR "H2 block*" OR "H2 receptor antagonist*" OR "H2 receptor block*" OR burimamide OR cimetidine OR ranitidine OR metiamide OR nizatidine OR famotidine OR "Hydroxymethylglutaryl-CoA Reductase Inhibitor*" OR "HMG-CoA reductase inhibitor*" OR atorvastatin OR fluvastatin OR lovastatin OR meglutol OR pravastatin OR rosuvastatin OR simvastatin OR statin* OR "proton pump inhibitor*" OR dexlansoprazole OR omeprazole OR lansoprazole OR esomeprazole OR pantoprazole OR rabeprazole OR antacid*) OR abstract:(Chemoprevent* OR chemoprophylaxis OR "chemo-prevent*" OR "non-steroid* anti-inflammator*" OR "nonsteroid* anti-inflammator*" OR "non-steroid* antiinflammator*" OR "nonsteroid* antiinflammator*" OR aspirin OR acetylsalicylic acid OR acetaminophen OR ibuprofen OR paracetamol OR naproxen OR sulindac OR diflunisal OR indomethacin OR piroxicam OR diclofenac OR meloxicam OR celecoxib OR rofecoxib OR ketoprofen OR etodolac OR nabumetone OR oxaprozin OR flurbiprofen OR NSAID* OR "H2 antagonist*" OR "H2 block*" OR "H2 receptor antagonist*" OR "H2 receptor block*" OR burimamide OR cimetidine OR ranitidine OR metiamide OR nizatidine OR famotidine OR "Hydroxymethylglutaryl-CoA Reductase Inhibitor*" OR "HMG-CoA reductase inhibitor*" OR atorvastatin OR fluvastatin OR lovastatin OR meglutol OR pravastatin OR rosuvastatin OR simvastatin OR statin* OR "proton pump inhibitor*" OR dexlansoprazole OR omeprazole OR lansoprazole OR esomeprazole OR pantoprazole OR rabeprazole OR antacid*) |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

A.1.2 Health Economics literature search strategy

Health economic evidence was identified by conducting searches using terms for a broad Barrett's Oesophagus population. The following databases were searched: NHS Economic Evaluation Database (NHS EED - this ceased to be updated after 31st March 2015), Health Technology Assessment database (HTA - this ceased to be updated from 31st March 2018) and The International Network of Agencies for Health Technology Assessment (INAHTA). Searches for recent evidence were run on Medline and Embase from 2014 onwards for health economics, and all years for quality-of-life studies.

Table 2: Database parameters, filters and limits applied

| Database | Dates searched | Search filters and limits applied |
|----------------------------------------------------------------------------------------------|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Medline (OVID) | Health Economics 1 January 2014 – 29 April 2022 | Health economics studies Quality of life studies |
| | Quality of Life 1946 – 29 April 2022 | Exclusions (animal studies, letters, comments, editorials, case studies/reports) English language |
| Embase (OVID) | Health Economics 1 January 2014 – 29 April 2022 | Health economics studies Quality of life studies |
| | Quality of Life 1974 – 29 April 2022 | Exclusions (animal studies, letters, comments, editorials, case studies/reports, conference abstracts) English language |
| NHS Economic Evaluation Database (NHS EED) (Centre for Research and Dissemination - CRD) | Inception –31 st March 2015 | |
| Health Technology Assessment Database (HTA) (Centre for Research and Dissemination – CRD) | Inception – 31 st March 2018 | |
| The International Network of Agencies for Health Technology Assessment (INAHTA) | Inception - 29 April 2022 | English language |

Medline (Ovid) search terms

| | |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | exp Barrett esophagus/ |
| 2. | barrett*.ti,ab. |
| 3. | (speciali* adj3 (epithel* or oesophag* or esophag* or mucos*)).ti,ab. |
| 4. | (column* adj3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*)).ti,ab. |
| 5. | or/1-4 |
| 6. | Precancerous conditions/ |
| 7. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*).ti,ab. |
| 8. | 6 or 7 |
| 9. | exp Esophagus/ |
| 10. | Esophageal Mucosa/ |
| 11. | (oesophag* or esophag* or intramucosal* or intra-mucosal*).ti,ab. |

| | |
|-----|--------------------------------------------------------------------------------------------------|
| 12. | or/9-11 |
| 13. | 8 and 12 |
| 14. | exp Esophageal Neoplasms/ |
| 15. | 5 or 13 or 14 |
| 16. | letter/ |
| 17. | editorial/ |
| 18. | news/ |
| 19. | exp historical article/ |
| 20. | Anecdotes as Topic/ |
| 21. | comment/ |
| 22. | case report/ |
| 23. | (letter or comment*).ti. |
| 24. | or/16-23 |
| 25. | randomized controlled trial/ or random*.ti,ab. |
| 26. | 24 not 25 |
| 27. | animals/ not humans/ |
| 28. | exp Animals, Laboratory/ |
| 29. | exp Animal Experimentation/ |
| 30. | exp Models, Animal/ |
| 31. | exp Rodentia/ |
| 32. | (rat or rats or mouse or mice or rodent*).ti. |
| 33. | or/26-32 |
| 34. | 15 not 33 |
| 35. | limit 34 to English language |
| 36. | economics/ |
| 37. | value of life/ |
| 38. | exp "costs and cost analysis"/ |
| 39. | exp Economics, Hospital/ |
| 40. | exp Economics, medical/ |
| 41. | Economics, nursing/ |
| 42. | economics, pharmaceutical/ |
| 43. | exp "Fees and Charges"/ |
| 44. | exp budgets/ |
| 45. | budget*.ti,ab. |
| 46. | cost*.ti. |
| 47. | (economic* or pharmaco?economic*).ti. |
| 48. | (price* or pricing*).ti,ab. |
| 49. | (cost* adj2 (effectiv* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab. |
| 50. | (financ* or fee or fees).ti,ab. |
| 51. | (value adj2 (money or monetary)).ti,ab. |
| 52. | or/36-51 |
| 53. | quality-adjusted life years/ |

| | |
|-----|-------------------------------------------------------------------------------------------|
| 54. | sickness impact profile/ |
| 55. | (quality adj2 (wellbeing or well being)).ti,ab. |
| 56. | sickness impact profile.ti,ab. |
| 57. | disability adjusted life.ti,ab. |
| 58. | (qal* or qtime* or qwb* or daly*).ti,ab. |
| 59. | (euroqol* or eq5d* or eq 5*).ti,ab. |
| 60. | (qol* or hql* or hqol* or h qol* or hrqol* or hr qol*).ti,ab. |
| 61. | (health utility* or utility score* or disutilit* or utility value*).ti,ab. |
| 62. | (hui or hui1 or hui2 or hui3).ti,ab. |
| 63. | (health* year* equivalent* or hye or hyes).ti,ab. |
| 64. | discrete choice*.ti,ab. |
| 65. | rosser.ti,ab. |
| 66. | (willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab. |
| 67. | (sf36* or sf 36* or short form 36* or shortform 36* or shortform36*).ti,ab. |
| 68. | (sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab. |
| 69. | (sf12* or sf 12* or short form 12* or shortform 12* or shortform12*).ti,ab. |
| 70. | (sf8* or sf 8* or short form 8* or shortform 8* or shortform8*).ti,ab. |
| 71. | (sf6* or sf 6* or short form 6* or shortform 6* or shortform6*).ti,ab. |
| 72. | or/53-71 |
| 73. | 35 and (52 or 72) |

Embase (Ovid) search terms

| | |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | exp Barrett esophagus/ |
| 2. | barrett*.ti,ab. |
| 3. | (speciali* adj3 (epithel* or oesophag* or esophag* or mucos*)).ti,ab. |
| 4. | (column* adj3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*)).ti,ab. |
| 5. | or/1-4 |
| 6. | Precancer/ |
| 7. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*).ti,ab. |
| 8. | 6 or 7 |
| 9. | exp Esophagus/ |
| 10. | Esophagus Mucosa/ |
| 11. | (oesophag* or esophag*).ti,ab. |
| 12. | or/9-11 |
| 13. | 8 and 12 |
| 14. | exp Esophagus Tumor/ |
| 15. | 5 or 13 or 14 |
| 16. | letter.pt. or letter/ |
| 17. | note.pt. |
| 18. | editorial.pt. |
| 19. | case report/ or case study/ |

| | |
|-----|--------------------------------------------------------------------------------------------------|
| 20. | (letter or comment*).ti. |
| 21. | (conference abstract or conference paper).pt. |
| 22. | or/16-21 |
| 23. | randomized controlled trial/ or random*.ti,ab. |
| 24. | 22 not 23 |
| 25. | animal/ not human/ |
| 26. | nonhuman/ |
| 27. | exp Animal Experiment/ |
| 28. | exp Experimental Animal/ |
| 29. | animal model/ |
| 30. | exp Rodent/ |
| 31. | (rat or rats or mouse or mice or rodent*).ti. |
| 32. | or/24-31 |
| 33. | 15 not 32 |
| 34. | limit 33 to English language |
| 35. | health economics/ |
| 36. | exp economic evaluation/ |
| 37. | exp health care cost/ |
| 38. | exp fee/ |
| 39. | budget/ |
| 40. | funding/ |
| 41. | budget*.ti,ab. |
| 42. | cost*.ti. |
| 43. | (economic* or pharmaco?economic*).ti. |
| 44. | (price* or pricing*).ti,ab. |
| 45. | (cost* adj2 (effectiv* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab. |
| 46. | (financ* or fee or fees).ti,ab. |
| 47. | (value adj2 (money or monetary)).ti,ab. |
| 48. | or/35-47 |
| 49. | quality-adjusted life years/ |
| 50. | "quality of life index"/ |
| 51. | short form 12/ or short form 20/ or short form 36/ or short form 8/ |
| 52. | sickness impact profile/ |
| 53. | (quality adj2 (wellbeing or well being)).ti,ab. |
| 54. | sickness impact profile.ti,ab. |
| 55. | disability adjusted life.ti,ab. |
| 56. | (qal* or qtime* or qwb* or daly*).ti,ab. |
| 57. | (euroqol* or eq5d* or eq 5*).ti,ab. |
| 58. | (qol* or hq1* or hqol* or h qol* or hrqol* or hr qol*).ti,ab. |
| 59. | (health utility* or utility score* or disutilit* or utility value*).ti,ab. |
| 60. | (hui or hui1 or hui2 or hui3).ti,ab. |
| 61. | (health* year* equivalent* or hye or hyes).ti,ab. |
| 62. | discrete choice*.ti,ab. |
| 63. | rosser.ti,ab. |
| 64. | (willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab. |
| 65. | (sf36* or sf 36* or short form 36* or shortform 36* or shortform36*).ti,ab. |
| 66. | (sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab. |

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|-----|-----------------------------------------------------------------------------|
| 67. | (sf12* or sf 12* or short form 12* or shortform 12* or shortform12*).ti,ab. |
| 68. | (sf8* or sf 8* or short form 8* or shortform 8* or shortform8*).ti,ab. |
| 69. | (sf6* or sf 6* or short form 6* or shortform 6* or shortform6*).ti,ab. |
| 70. | or/49-69 |
| 71. | 34 and (48 or 70) |

NHS EED and HTA (CRD) search terms

| | |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| #1. | MeSH DESCRIPTOR Barrett Esophagus EXPLODE ALL TREES |
| #2. | (barrett*) |
| #3. | (speciali*) AND (epithel* or oesophag* or esophag* or mucos*) |
| #4. | (column*) AND (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*) |
| #5. | #1 OR #2 OR #3 OR #4 |
| #6. | MeSH DESCRIPTOR Precancerous Conditions EXPLODE ALL TREES |
| #7. | ((dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*)) |
| #8. | #6 OR #7 |
| #9. | MeSH DESCRIPTOR Esophagus EXPLODE ALL TREES |
| #10. | MeSH DESCRIPTOR Esophageal Mucosa EXPLODE ALL TREES |
| #11. | (oesophag* or esophag* or intramucosal* or intra-mucosal*) |
| #12. | #9 OR #10 OR #11 |
| #13. | #8 AND #12 |
| #14. | #5 OR #13 |
| #15. | MeSH DESCRIPTOR Esophageal Neoplasms EXPLODE ALL TREES |
| #16. | #14 OR #15 |

INAHTA search terms

| | |
|----|-----------------------------------------------------------------------|
| 1. | ("Barrett Esophagus"[mh]) OR (Barrett*) OR (Esophageal Neoplasms)[mh] |
|----|-----------------------------------------------------------------------|

A.2 2.1 2.3 Endoscopic surveillance

This literature search strategy was used for the following reviews:

- For adults with Barrett's oesophagus, what is the clinical and cost effectiveness of endoscopic surveillance using white light endoscopy?
- What is the optimal frequency and duration of endoscopic surveillance for adults with Barrett's oesophagus?

The literature searches for this review are detailed below and complied with the methodology outlined in Developing NICE guidelines: the manual. {NICE2014}

For more information, please see the Methodology review published as part of the accompanying documents for this guideline.

A.2.1 Clinical search literature search strategy

Searches were constructed using a PICO framework where population (P) terms were combined with Intervention (I) and in some cases Comparison (C) terms. Outcomes (O) are rarely used in search strategies as these concepts may not be indexed or described in the title or abstract and are therefore difficult to retrieve. Search filters were applied to the search where appropriate.

Table 1: Database parameters, filters and limits applied

| Database | Dates searched | Search filter used |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Medline (OVID) | 1946 – 26 April 2022 | Randomised controlled trials Systematic review studies Exclusions (animal studies, letters, comments, editorials, case studies/reports) English language |
| Embase (OVID) | 1974 – 26 April 2022 | Randomised controlled trials Systematic review studies Exclusions (animal studies, letters, comments, editorials, case studies/reports, conference abstracts) English language |
| The Cochrane Library (Wiley) | Cochrane Database of Systematic Reviews to Issue 4 of 12, April 2022 Cochrane Central Register of Controlled Trials to Issue 4 of 12, April 2022 | |
| Epistemonikos (The Epistemonikos Foundation) | Inception to 26 April 2022 | Systematic review Exclusions (Cochrane reviews) |

Medline (Ovid) search terms

| | |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 84. | exp Barrett esophagus/ |
| 85. | barrett*.ti,ab. |
| 86. | (speciali* adj3 (epithel* or oesophag* or esophag* or mucos*)).ti,ab. |
| 87. | (column* adj3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*)).ti,ab. |
| 88. | (intestin* adj2 metaplas*).ti,ab. |
| 89. | or/1-5 |
| 90. | Precancerous conditions/ |
| 91. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*).ti,ab. |
| 92. | 7 or 8 |
| 93. | exp Esophagus/ |
| 94. | Esophageal Mucosa/ |
| 95. | (oesophag* or esophag* or intramucosal* or intra-mucosal*).ti,ab. |
| 96. | or/10-12 |
| 97. | 9 and 13 |
| 98. | exp Esophageal Neoplasms/ |
| 99. | 6 or 14 or 15 |
| 100. | letter/ |
| 101. | editorial/ |
| 102. | news/ |
| 103. | exp historical article/ |
| 104. | Anecdotes as Topic/ |
| 105. | comment/ |
| 106. | case report/ |
| 107. | (letter or comment*).ti. |
| 108. | or/17-24 |
| 109. | randomized controlled trial/ or random*.ti,ab. |
| 110. | 25 not 26 |
| 111. | animals/ not humans/ |
| 112. | exp Animals, Laboratory/ |
| 113. | exp Animal Experimentation/ |
| 114. | exp Models, Animal/ |
| 115. | exp Rodentia/ |
| 116. | (rat or rats or mouse or mice or rodent*).ti. |
| 117. | or/27-33 |
| 118. | 16 not 34 |
| 119. | limit 35 to English language |
| 120. | *Endoscopy, Gastrointestinal/ |
| 121. | Capsule Endoscopy/ |
| 122. | Esophagoscopy/ |
| 123. | Gastrosocopy/ |
| 124. | (videoendoscop* or endomicroscop* or spectroscop* or endocytoscop* or oesophagoscop* or esophagoscop* or gastroscop*).ti,ab. |
| 125. | (endoscop* adj3 (imag* or diagn* or identif* or surveillanc* or monitor* or observ* or detect*)).ti,ab. |

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|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 126. | ((capsule or transnasal or nasal) adj2 endoscop*).ti,ab. |
| 127. | exp Optical Imaging/ |
| 128. | exp Acetic Acid/ |
| 129. | Molecular Imaging/ |
| 130. | (molecular adj3 (imag* or endoscop*).ti,ab. |
| 131. | ((magnif* or high resolution or high definition) adj3 endoscop*).ti,ab. |
| 132. | (chromatograph* or chromoendoscop* or chromoscop* or volumetric laser* or acetic acid or methylene blue or indigo carmine or narrow band or white light or blue laser or blue light or flexible spectral imaging colo?r enhancement or autofluorescen* or fluorescen* or optical coherence tomography or trimodal or tri modal or optical enhancement).ti,ab. |
| 133. | exp Artificial Intelligence/ |
| 134. | (artificial intelligence or (computer adj (assisted or aided)) or ((deep or machine) adj learning) or neural network*).ti,ab. |
| 135. | (wide area transepithelial sampling or WATS3D or WATS 3D).ti,ab. |
| 136. | ((endoscop* or oesophagoscop* or esophagoscop*) adj2 brush*).ti,ab. |
| 137. | (HRE or WLE or NBI or BLI or FICE or AFI or OCT or ETMI or OE or AI or CAD).ti,ab. |
| 138. | or/37-54 |
| 139. | 36 and 55 |
| 140. | randomized controlled trial.pt. |
| 141. | controlled clinical trial.pt. |
| 142. | randomi#ed.ab. |
| 143. | placebo.ab. |
| 144. | randomly.ab. |
| 145. | clinical trials as topic.sh. |
| 146. | trial.ti. |
| 147. | or/57-63 |
| 148. | Meta-Analysis/ |
| 149. | Meta-Analysis as Topic/ |
| 150. | (meta analy* or metanaly* or metaanaly* or meta regression).ti,ab. |
| 151. | ((systematic* or evidence*) adj3 (review* or overview*).ti,ab. |
| 152. | (reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab. |
| 153. | (search strategy or search criteria or systematic search or study selection or data extraction).ab. |
| 154. | (search* adj4 literature).ab. |
| 155. | (medline or pubmed or cochrane or embase or psychlit or psychlit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab. |
| 156. | cochrane.jw. |
| 157. | ((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab. |
| 158. | or/65-74 |
| 159. | 56 and (64 or 75) |

Embase (Ovid) search terms

| | |
|-----|----------------------------------------------------------------------------------------------------|
| 85. | exp Barrett esophagus/ |
| 86. | barrett*.ti,ab. |
| 87. | (speciali* adj3 (epithel* or oesophag* or esophag* or mucos*).ti,ab. |
| 88. | (column* adj3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*).ti,ab. |
| 89. | (intestin* adj2 metaplas*).ti,ab. |

| | |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 90. | or/1-5 |
| 91. | Precancer/ |
| 92. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*).ti,ab. |
| 93. | 7 or 8 |
| 94. | exp Esophagus/ |
| 95. | Esophagus Mucosa/ |
| 96. | (oesophag* or esophag*).ti,ab. |
| 97. | or/10-12 |
| 98. | 9 and 13 |
| 99. | exp Esophagus Tumor/ |
| 100. | 6 or 14 or 15 |
| 101. | letter.pt. or letter/ |
| 102. | note.pt. |
| 103. | editorial.pt. |
| 104. | case report/ or case study/ |
| 105. | (letter or comment*).ti. |
| 106. | (conference abstract or conference paper).pt. |
| 107. | or/17-22 |
| 108. | randomized controlled trial/ or random*.ti,ab. |
| 109. | 23 not 24 |
| 110. | animal/ not human/ |
| 111. | nonhuman/ |
| 112. | exp Animal Experiment/ |
| 113. | exp Experimental Animal/ |
| 114. | animal model/ |
| 115. | exp Rodent/ |
| 116. | (rat or rats or mouse or mice or rodent*).ti. |
| 117. | or/25-32 |
| 118. | 16 not 33 |
| 119. | limit 34 to English language |
| 120. | *gastrointestinal endoscopy/ |
| 121. | gastroscopy/ |
| 122. | *endoscopy/ |
| 123. | endocytoscopy/ |
| 124. | high resolution endoscopy/ |
| 125. | magnifying endoscopy/ |
| 126. | narrow band imaging/ |
| 127. | videoendoscopy/ |
| 128. | white light endoscopy/ |
| 129. | capsule endoscopy/ |
| 130. | esophagoscopy/ |
| 131. | exp fluorescence imaging/ |
| 132. | exp acetic acid/ |
| 133. | molecular imaging/ |
| 134. | chromoendoscopy/ |

| | |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 135. | exp artificial intelligence/ |
| 136. | (videoendoscop* or endomicroscop* or spectroscop* or endocytoscop* or oesophagoscop* or esophagoscop* or gastroscop* or chromatograph* or chromoendoscop* or chromoscop* or volumetric laser or acetic acid or methylene blue or indigo carmine or narrow band or white light or blue laser or blue light or flexible spectral imaging colo?r enhancement or autofluorescen* or fluorescen* or optical coherence tomography or trimodal or tri modal or optical enhancement).ti,ab. |
| 137. | (endoscop* adj3 (imag* or diagn* or identif* or surveillanc* or monitor* or observ* or detect*)).ti,ab. |
| 138. | ((capsule or transnasal or nasal) adj2 endoscop*).ti,ab. |
| 139. | (molecular adj3 (imag* or endoscop*)).ti,ab. |
| 140. | ((magnif* or high resolution or high definition) adj3 endoscop*).ti,ab. |
| 141. | (artificial intelligence or (computer adj (assisted or aided)) or ((deep or machine) adj learning) or neural network*).ti,ab. |
| 142. | (wide area transepithelial sampling or WATS3D or WATS 3D).ti,ab. |
| 143. | ((endoscop* or oesophagoscop* or esophagoscop*) adj2 brush*).ti,ab. |
| 144. | (HRE or WLE or NBI or BLI or FICE or AFI or OCT or ETMI or OE or AI or CAD).ti,ab. |
| 145. | or/36-60 |
| 146. | 35 and 61 |
| 147. | random*.ti,ab. |
| 148. | factorial*.ti,ab. |
| 149. | (crossover* or cross over*).ti,ab. |
| 150. | ((doubl* or singl*) adj blind*).ti,ab. |
| 151. | (assign* or allocat* or volunteer* or placebo*).ti,ab. |
| 152. | crossover procedure/ |
| 153. | single blind procedure/ |
| 154. | randomized controlled trial/ |
| 155. | double blind procedure/ |
| 156. | or/63-71 |
| 157. | Systematic Review/ |
| 158. | Meta-Analysis/ |
| 159. | (meta analy* or metanaly* or metaanaly* or meta regression).ti,ab. |
| 160. | ((systematic* or evidence*) adj3 (review* or overview*)).ti,ab. |
| 161. | (reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab. |
| 162. | (search strategy or search criteria or systematic search or study selection or data extraction).ab. |
| 163. | (search* adj4 literature).ab. |
| 164. | (medline or pubmed or cochrane or embase or psychlit or psychlit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab. |
| 165. | cochrane.jw. |
| 166. | ((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab. |
| 167. | or/73-82 |
| 168. | 62 and (72 or 83) |

Cochrane Library (Wiley) search terms

| | |
|------|----------------------------------------------------------------------|
| #46. | MeSH descriptor: [Barrett Esophagus] explode all trees |
| #47. | barrett*.ti,ab |
| #48. | speciali* near/3 (epithel* or oesophag* or esophag* or mucos*).ti,ab |

| | |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| #49. | column* near/3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*):ti,ab |
| #50. | (intestin* near/2 metaplas*):ti,ab |
| #51. | (or #1-#5) |
| #52. | MeSH descriptor: [Precancerous Conditions] explode all trees |
| #53. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*):ti,ab |
| #54. | #7 or #8 |
| #55. | MeSH descriptor: [Esophagus] explode all trees |
| #56. | MeSH descriptor: [Esophageal Mucosa] explode all trees |
| #57. | (oesophag* or esophag* or intramucosal* or intra-mucosal*):ti,ab |
| #58. | (or #10-#12) |
| #59. | #9 and #13 |
| #60. | MeSH descriptor: [Esophageal Neoplasms] explode all trees |
| #61. | #6 or #14 or #15 |
| #62. | MeSH descriptor: [Endoscopy, Gastrointestinal] this term only |
| #63. | MeSH descriptor: [Capsule Endoscopy] this term only |
| #64. | MeSH descriptor: [Esophagoscopy] this term only |
| #65. | MeSH descriptor: [Gastrosocopy] this term only |
| #66. | (videoendoscop* or endomicroscop* or spectroscop* or endocytoscop* or oesophagoscop* or esophagoscop* or gastroscop*):ti,ab |
| #67. | (endoscop* near/3 (imag* or diagn* or identif* or surveillanc* or monitor* or observ* or detect*)):ti,ab |
| #68. | ((capsule or transnasal or nasal) near/2 endoscop*):ti,ab |
| #69. | MeSH descriptor: [Optical Imaging] explode all trees |
| #70. | MeSH descriptor: [Acetic Acid] explode all trees |
| #71. | MeSH descriptor: [Molecular Imaging] this term only |
| #72. | (molecular near/3 (imag* or endoscop*)):ti,ab |
| #73. | ((magnif* or high resolution or high definition) near/3 endoscop*):ti,ab |
| #74. | (chromatograph* or chromoendoscop* or chromoscop* or volumetric laser or acetic acid or methylene blue or indigo carmine or narrow band or white light or blue laser or blue light or flexible spectral imaging colo?r enhancement or autofluorescen* or fluorescen* or optical coherence tomography or trimodal or tri modal or optical enhancement):ti,ab |
| #75. | MeSH descriptor: [Artificial Intelligence] explode all trees |
| #76. | (artificial intelligence or (computer next (assisted or aided)) or ((deep or machine) next learning) or neural network*):ti,ab |
| #77. | (wide area transepithelial sampling or WATS3D or WATS 3D):ti,ab |
| #78. | ((endoscop* or oesophagoscop* or esophagoscop*) near/2 brush*):ti,ab |
| #79. | (HRE or WLE or NBI or BLI or FICE or AFI or OCT or ETMI or OE or AI or CAD):ti,ab |
| #80. | (or #17-#34) |
| #81. | #16 and #35 |

Epistemonikos search terms

| | |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2. | (title:(Barrett* OR "oesophageal adenocarcinoma*" OR "esophageal adenocarcinoma*" OR "oesophageal cancer*" OR "esophageal cancer*" OR "oesophageal carcinoma*" OR "esophageal carcinoma*" OR "oesophageal metaplas*" OR "esophageal dysplas*" OR "column* epithel*" OR "intestin* metaplas*" OR "intestin* dysplas*") OR abstract:(Barrett* OR "oesophageal adenocarcinoma*" OR "esophageal |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| | |
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| | <p>adenocarcinoma*" OR "oesophageal cancer*" OR "esophageal cancer*" OR "oesophageal carcinoma*" OR "esophageal carcinoma*" OR "oesophageal metaplas*" OR "esophageal dysplas*" OR "column* epithel*" OR "intestin* metaplas*" OR "intestin* dysplas*") AND (title:("endoscop* imag*" OR "endoscop* diagn*" OR "endoscop* identif*" OR "endoscop* surveillanc*" OR "endoscop* monitor*" OR "endoscop* observ*" OR "endoscop* detect*" OR "capsule endoscop*" OR "transnasal endoscop*" OR "nasal endoscop*" OR "magnif* endoscop*" OR "high resolution endoscop*" OR "high definition endoscop*" OR videoendoscop* OR endomicroscop* OR spectroscop* OR endocytoscop* OR oesophagoscop* OR esophagoscop* OR gastroscop* OR chromatograph* OR chromoendoscop* OR chromoscop* OR "volumetric laser" OR "acetic acid" OR "methylene blue" OR "indigo carmine" OR "narrow band" OR "white light" OR "blue laser" OR "blue light" OR "flexible spectral imaging" OR autofluorescen* OR fluorescen* OR "optical coherence tomography" OR trimodal OR "tri modal" OR "optical enhancement" OR "artificial intelligence" OR "computer assisted" OR "computer aided" OR "deep learning" OR "machine learning" OR "neural network" OR "wide area transepithelial sampling" OR WATS3D OR "WATS 3D") OR abstract:("endoscop* imag*" OR "endoscop* diagn*" OR "endoscop* identif*" OR "endoscop* surveillanc*" OR "endoscop* monitor*" OR "endoscop* observ*" OR "endoscop* detect*" OR "capsule endoscop*" OR "transnasal endoscop*" OR "nasal endoscop*" OR "magnif* endoscop*" OR "high resolution endoscop*" OR "high definition endoscop*" OR videoendoscop* OR endomicroscop* OR spectroscop* OR endocytoscop* OR oesophagoscop* OR esophagoscop* OR gastroscop* OR chromatograph* OR chromoendoscop* OR chromoscop* OR "volumetric laser" OR "acetic acid" OR "methylene blue" OR "indigo carmine" OR "narrow band" OR "white light" OR "blue laser" OR "blue light" OR "flexible spectral imaging" OR autofluorescen* OR fluorescen* OR "optical coherence tomography" OR trimodal OR "tri modal" OR "optical enhancement" OR "artificial intelligence" OR "computer assisted" OR "computer aided" OR "deep learning" OR "machine learning" OR "neural network" OR "wide area transepithelial sampling" OR WATS3D OR "WATS 3D")</p> |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

A.2.2 Health Economics literature search strategy

Health economic evidence was identified by conducting searches using terms for a broad Barrett's Oesophagus population. The following databases were searched: NHS Economic Evaluation Database (NHS EED - this ceased to be updated after 31st March 2015), Health Technology Assessment database (HTA - this ceased to be updated from 31st March 2018) and The International Network of Agencies for Health Technology Assessment (INAHTA). Searches for recent evidence were run on Medline and Embase from 2014 onwards for health economics, and all years for quality-of-life studies.

Table 2: Database parameters, filters and limits applied

| Database | Dates searched | Search filters and limits applied |
|----------------|----------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| Medline (OVID) | Health Economics 1 January 2014 – 29 April 2022 | Health economics studies Quality of life studies |
| | Quality of Life 1946 – 29 April 2022 | Exclusions (animal studies, letters, comments, editorials, case studies/reports) English language |
| Embase (OVID) | Health Economics 1 January 2014 – 29 April 2022 | Health economics studies Quality of life studies |

| Database | Dates searched | Search filters and limits applied |
|----------------------------------------------------------------------------------------------|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| | Quality of Life 1974 – 29 April 2022 | Exclusions (animal studies, letters, comments, editorials, case studies/reports, conference abstracts) English language |
| NHS Economic Evaluation Database (NHS EED) (Centre for Research and Dissemination - CRD) | Inception –31 st March 2015 | |
| Health Technology Assessment Database (HTA) (Centre for Research and Dissemination – CRD) | Inception – 31 st March 2018 | |
| The International Network of Agencies for Health Technology Assessment (INAHTA) | Inception - 29 April 2022 | English language |

Medline (Ovid) search terms

| | |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 74. | exp Barrett esophagus/ |
| 75. | barrett*.ti,ab. |
| 76. | (speciali* adj3 (epithel* or oesophag* or esophag* or mucos*)).ti,ab. |
| 77. | (column* adj3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*)).ti,ab. |
| 78. | or/1-4 |
| 79. | Precancerous conditions/ |
| 80. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*).ti,ab. |
| 81. | 6 or 7 |
| 82. | exp Esophagus/ |
| 83. | Esophageal Mucosa/ |
| 84. | (oesophag* or esophag* or intramucosal* or intra-mucosal*).ti,ab. |
| 85. | or/9-11 |
| 86. | 8 and 12 |
| 87. | exp Esophageal Neoplasms/ |
| 88. | 5 or 13 or 14 |
| 89. | letter/ |
| 90. | editorial/ |
| 91. | news/ |
| 92. | exp historical article/ |
| 93. | Anecdotes as Topic/ |
| 94. | comment/ |

| | |
|------|--------------------------------------------------------------------------------------------------|
| 95. | case report/ |
| 96. | (letter or comment*).ti. |
| 97. | or/16-23 |
| 98. | randomized controlled trial/ or random*.ti,ab. |
| 99. | 24 not 25 |
| 100. | animals/ not humans/ |
| 101. | exp Animals, Laboratory/ |
| 102. | exp Animal Experimentation/ |
| 103. | exp Models, Animal/ |
| 104. | exp Rodentia/ |
| 105. | (rat or rats or mouse or mice or rodent*).ti. |
| 106. | or/26-32 |
| 107. | 15 not 33 |
| 108. | limit 34 to English language |
| 109. | economics/ |
| 110. | value of life/ |
| 111. | exp "costs and cost analysis"/ |
| 112. | exp Economics, Hospital/ |
| 113. | exp Economics, medical/ |
| 114. | Economics, nursing/ |
| 115. | economics, pharmaceutical/ |
| 116. | exp "Fees and Charges"/ |
| 117. | exp budgets/ |
| 118. | budget*.ti,ab. |
| 119. | cost*.ti. |
| 120. | (economic* or pharmaco?economic*).ti. |
| 121. | (price* or pricing*).ti,ab. |
| 122. | (cost* adj2 (effectiv* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab. |
| 123. | (financ* or fee or fees).ti,ab. |
| 124. | (value adj2 (money or monetary)).ti,ab. |
| 125. | or/36-51 |
| 126. | quality-adjusted life years/ |
| 127. | sickness impact profile/ |
| 128. | (quality adj2 (wellbeing or well being)).ti,ab. |
| 129. | sickness impact profile.ti,ab. |
| 130. | disability adjusted life.ti,ab. |
| 131. | (qal* or qtime* or qwb* or daly*).ti,ab. |
| 132. | (euroqol* or eq5d* or eq 5*).ti,ab. |
| 133. | (qol* or hql* or hqol* or h qol* or hrqol* or hr qol*).ti,ab. |
| 134. | (health utility* or utility score* or disutilit* or utility value*).ti,ab. |
| 135. | (hui or hui1 or hui2 or hui3).ti,ab. |
| 136. | (health* year* equivalent* or hye or hyes).ti,ab. |

| | |
|------|-------------------------------------------------------------------------------------------|
| 137. | discrete choice*.ti,ab. |
| 138. | rosser.ti,ab. |
| 139. | (willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab. |
| 140. | (sf36* or sf 36* or short form 36* or shortform 36* or shortform36*).ti,ab. |
| 141. | (sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab. |
| 142. | (sf12* or sf 12* or short form 12* or shortform 12* or shortform12*).ti,ab. |
| 143. | (sf8* or sf 8* or short form 8* or shortform 8* or shortform8*).ti,ab. |
| 144. | (sf6* or sf 6* or short form 6* or shortform 6* or shortform6*).ti,ab. |
| 145. | or/53-71 |
| 146. | 35 and (52 or 72) |

Embase (Ovid) search terms

| | |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 72. | exp Barrett esophagus/ |
| 73. | barrett*.ti,ab. |
| 74. | (speciali* adj3 (epithel* or oesophag* or esophag* or mucos*)).ti,ab. |
| 75. | (column* adj3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*)).ti,ab. |
| 76. | or/1-4 |
| 77. | Precancer/ |
| 78. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*).ti,ab. |
| 79. | 6 or 7 |
| 80. | exp Esophagus/ |
| 81. | Esophagus Mucosa/ |
| 82. | (oesophag* or esophag*).ti,ab. |
| 83. | or/9-11 |
| 84. | 8 and 12 |
| 85. | exp Esophagus Tumor/ |
| 86. | 5 or 13 or 14 |
| 87. | letter.pt. or letter/ |
| 88. | note.pt. |
| 89. | editorial.pt. |
| 90. | case report/ or case study/ |
| 91. | (letter or comment*).ti. |
| 92. | (conference abstract or conference paper).pt. |
| 93. | or/16-21 |
| 94. | randomized controlled trial/ or random*.ti,ab. |
| 95. | 22 not 23 |
| 96. | animal/ not human/ |
| 97. | nonhuman/ |
| 98. | exp Animal Experiment/ |
| 99. | exp Experimental Animal/ |
| 100. | animal model/ |
| 101. | exp Rodent/ |
| 102. | (rat or rats or mouse or mice or rodent*).ti. |

| | |
|------|--------------------------------------------------------------------------------------------------|
| 103. | or/24-31 |
| 104. | 15 not 32 |
| 105. | limit 33 to English language |
| 106. | health economics/ |
| 107. | exp economic evaluation/ |
| 108. | exp health care cost/ |
| 109. | exp fee/ |
| 110. | budget/ |
| 111. | funding/ |
| 112. | budget*.ti,ab. |
| 113. | cost*.ti. |
| 114. | (economic* or pharmaco?economic*).ti. |
| 115. | (price* or pricing*).ti,ab. |
| 116. | (cost* adj2 (effectiv* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab. |
| 117. | (financ* or fee or fees).ti,ab. |
| 118. | (value adj2 (money or monetary)).ti,ab. |
| 119. | or/35-47 |
| 120. | quality-adjusted life years/ |
| 121. | "quality of life index"/ |
| 122. | short form 12/ or short form 20/ or short form 36/ or short form 8/ |
| 123. | sickness impact profile/ |
| 124. | (quality adj2 (wellbeing or well being)).ti,ab. |
| 125. | sickness impact profile.ti,ab. |
| 126. | disability adjusted life.ti,ab. |
| 127. | (qal* or qtime* or qwb* or daly*).ti,ab. |
| 128. | (euroqol* or eq5d* or eq 5*).ti,ab. |
| 129. | (qol* or hqi* or hqol* or h qol* or hrqol* or hr qol*).ti,ab. |
| 130. | (health utility* or utility score* or disutilit* or utility value*).ti,ab. |
| 131. | (hui or hui1 or hui2 or hui3).ti,ab. |
| 132. | (health* year* equivalent* or hye or hyes).ti,ab. |
| 133. | discrete choice*.ti,ab. |
| 134. | rosser.ti,ab. |
| 135. | (willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab. |
| 136. | (sf36* or sf 36* or short form 36* or shortform 36* or shortform36*).ti,ab. |
| 137. | (sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab. |
| 138. | (sf12* or sf 12* or short form 12* or shortform 12* or shortform12*).ti,ab. |
| 139. | (sf8* or sf 8* or short form 8* or shortform 8* or shortform8*).ti,ab. |
| 140. | (sf6* or sf 6* or short form 6* or shortform 6* or shortform6*).ti,ab. |
| 141. | or/49-69 |
| 142. | 34 and (48 or 70) |

NHS EED and HTA (CRD) search terms

| | |
|------|---------------------------------------------------------------|
| #17. | MeSH DESCRIPTOR Barrett Esophagus EXPLODE ALL TREES |
| #18. | (barrett*) |
| #19. | (speciali*) AND (epithel* or oesophag* or esophag* or mucos*) |

| | |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| #20. | (column*) AND (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*) |
| #21. | #1 OR #2 OR #3 OR #4 |
| #22. | MeSH DESCRIPTOR Precancerous Conditions EXPLODE ALL TREES |
| #23. | ((dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*)) |
| #24. | #6 OR #7 |
| #25. | MeSH DESCRIPTOR Esophagus EXPLODE ALL TREES |
| #26. | MeSH DESCRIPTOR Esophageal Mucosa EXPLODE ALL TREES |
| #27. | (oesophag* or esophag* or intramucosal* or intra-mucosal*) |
| #28. | #9 OR #10 OR #11 |
| #29. | #8 AND #12 |
| #30. | #5 OR #13 |
| #31. | MeSH DESCRIPTOR Esophageal Neoplasms EXPLODE ALL TREES |
| #32. | #14 OR #15 |

INAHTA search terms

| | |
|----|-----------------------------------------------------------------------|
| 1. | ("Barrett Esophagus"[mh]) OR (Barrett*) OR (Esophageal Neoplasms)[mh] |
|----|-----------------------------------------------------------------------|

A.3 2.1b Endoscopic surveillance

This literature search strategy was used for the following review:

- What is the diagnostic accuracy of different endoscopic surveillance techniques including high resolution endoscopy and chromoendoscopy?

The literature searches for this review are detailed below and complied with the methodology outlined in Developing NICE guidelines: the manual. {NICE2014}

For more information, please see the Methodology review published as part of the accompanying documents for this guideline.

A.3.1 Clinical search literature search strategy

Searches were constructed using a PICO framework where population (P) terms were combined with Intervention (I) and in some cases Comparison (C) terms. Outcomes (O) are rarely used in search strategies as these concepts may not be indexed or described in the title or abstract and are therefore difficult to retrieve. Search filters were applied to the search where appropriate.

Table 1: Database parameters, filters and limits applied

| Database | Dates searched | Search filter used |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Medline (OVID) | 1946 – 26 April 2022 | Randomised controlled trials Systematic review studies Observational studies Diagnostic studies Exclusions (animal studies, letters, comments, editorials, case studies/reports) English language |
| Embase (OVID) | 1974 – 26 April 2022 | Randomised controlled trials Systematic review studies Observational studies Diagnostic studies Exclusions (animal studies, letters, comments, editorials, case studies/reports, conference abstracts) English language |
| The Cochrane Library (Wiley) | Cochrane Database of Systematic Reviews to Issue 4 of 12, April 2022 Cochrane Central Register of Controlled Trials to Issue 4 of 12, April 2022 | |
| Epistemonikos (The Epistemonikos Foundation) | Inception to 26 April 2022 | Systematic review Exclusions (Cochrane reviews) |

Medline (Ovid) search terms

| | |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 160. | exp Barrett esophagus/ |
| 161. | barrett*.ti,ab. |
| 162. | (speciali* adj3 (epithel* or oesophag* or esophag* or mucos*)).ti,ab. |
| 163. | (column* adj3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*)).ti,ab. |
| 164. | (intestin* adj2 metaplas*).ti,ab. |
| 165. | or/1-5 |
| 166. | Precancerous conditions/ |
| 167. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*).ti,ab. |
| 168. | 7 or 8 |
| 169. | exp Esophagus/ |
| 170. | Esophageal Mucosa/ |
| 171. | (oesophag* or esophag* or intramucosal* or intra-mucosal*).ti,ab. |
| 172. | or/10-12 |
| 173. | 9 and 13 |
| 174. | exp Esophageal Neoplasms/ |
| 175. | 6 or 14 or 15 |
| 176. | letter/ |
| 177. | editorial/ |
| 178. | news/ |
| 179. | exp historical article/ |
| 180. | Anecdotes as Topic/ |
| 181. | comment/ |
| 182. | case report/ |
| 183. | (letter or comment*).ti. |
| 184. | or/17-24 |
| 185. | randomized controlled trial/ or random*.ti,ab. |
| 186. | 25 not 26 |
| 187. | animals/ not humans/ |
| 188. | exp Animals, Laboratory/ |
| 189. | exp Animal Experimentation/ |
| 190. | exp Models, Animal/ |
| 191. | exp Rodentia/ |
| 192. | (rat or rats or mouse or mice or rodent*).ti. |
| 193. | or/27-33 |
| 194. | 16 not 34 |
| 195. | limit 35 to English language |
| 196. | *Endoscopy, Gastrointestinal/ |
| 197. | Capsule Endoscopy/ |
| 198. | Esophagoscopy/ |
| 199. | Gastrosocopy/ |
| 200. | (videoendoscop* or endomicroscop* or spectroscop* or endocytoscop* or oesophagoscop* or esophagoscop* or gastroscop*).ti,ab. |

| | |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 201. | (endoscop* adj3 (imag* or diagn* or identif* or surveillanc* or monitor* or observ* or detect*)).ti,ab. |
| 202. | ((capsule or transnasal or nasal) adj2 endoscop*).ti,ab. |
| 203. | exp Optical Imaging/ |
| 204. | exp Acetic Acid/ |
| 205. | Molecular Imaging/ |
| 206. | (molecular adj3 (imag* or endoscop*)).ti,ab. |
| 207. | ((magnif* or high resolution or high definition) adj3 endoscop*).ti,ab. |
| 208. | (chromatograph* or chromoendoscop* or chromoscop* or volumetric laser* or acetic acid or methylene blue or indigo carmine or narrow band or white light or blue laser or blue light or flexible spectral imaging colo?r enhancement or autofluorescen* or fluorescen* or optical coherence tomography or trimodal or tri modal or optical enhancement).ti,ab. |
| 209. | exp Artificial Intelligence/ |
| 210. | (artificial intelligence or (computer adj (assisted or aided)) or ((deep or machine) adj learning) or neural network*).ti,ab. |
| 211. | (wide area transepithelial sampling or WATS3D or WATS 3D).ti,ab. |
| 212. | ((endoscop* or oesophagoscop* or esophagoscop*) adj2 brush*).ti,ab. |
| 213. | (HRE or WLE or NBI or BLI or FICE or AFI or OCT or ETMI or OE or AI or CAD).ti,ab. |
| 214. | or/37-54 |
| 215. | 36 and 55 |
| 216. | randomized controlled trial.pt. |
| 217. | controlled clinical trial.pt. |
| 218. | randomi#ed.ab. |
| 219. | placebo.ab. |
| 220. | randomly.ab. |
| 221. | clinical trials as topic.sh. |
| 222. | trial.ti. |
| 223. | or/57-63 |
| 224. | Meta-Analysis/ |
| 225. | Meta-Analysis as Topic/ |
| 226. | (meta analy* or metanaly* or metaanaly* or meta regression).ti,ab. |
| 227. | ((systematic* or evidence*) adj3 (review* or overview*)).ti,ab. |
| 228. | (reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab. |
| 229. | (search strategy or search criteria or systematic search or study selection or data extraction).ab. |
| 230. | (search* adj4 literature).ab. |
| 231. | (medline or pubmed or cochrane or embase or psychlit or psyclit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab. |
| 232. | cochrane.jw. |
| 233. | ((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab. |
| 234. | or/65-74 |
| 235. | exp "sensitivity and specificity"/ |
| 236. | (sensitivity or specificity).ti,ab. |
| 237. | ((pre test or pretest or post test) adj probability).ti,ab. |
| 238. | (predictive value* or PPV or NPV).ti,ab. |
| 239. | likelihood ratio*.ti,ab. |
| 240. | likelihood function/ |

| | |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 241. | ((area under adj4 curve) or AUC).ti,ab. |
| 242. | (receive* operat* characteristic* or receive* operat* curve* or ROC curve*).ti,ab. |
| 243. | gold standard.ab. |
| 244. | exp Diagnostic errors/ |
| 245. | (false positiv* or false negativ*).ti,ab. |
| 246. | Diagnosis, Differential/ |
| 247. | (diagnos* adj3 (performance* or accurac* or utilit* or value* or efficien* or effectiveness or precision or validat* or validity or differential or error*)).ti,ab. |
| 248. | or/76-88 |
| 249. | Epidemiologic studies/ |
| 250. | Observational study/ |
| 251. | exp Cohort studies/ |
| 252. | (cohort adj (study or studies or analys* or data)).ti,ab. |
| 253. | ((follow up or observational or uncontrolled or non randomi#ed or epidemiologic*) adj (study or studies or data)).ti,ab. |
| 254. | ((longitudinal or retrospective or prospective) and (study or studies or review or analys* or cohort* or data)).ti,ab. |
| 255. | Controlled Before-After Studies/ |
| 256. | Historically Controlled Study/ |
| 257. | Interrupted Time Series Analysis/ |
| 258. | (before adj2 after adj2 (study or studies or data)).ti,ab. |
| 259. | exp case control study/ |
| 260. | case control*.ti,ab. |
| 261. | Cross-sectional studies/ |
| 262. | (cross sectional and (study or studies or review or analys* or cohort* or data)).ti,ab. |
| 263. | or/90-103 |
| 264. | 56 and (64 or 75 or 89 or 104) |

Embase (Ovid) search terms

| | |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 169. | exp Barrett esophagus/ |
| 170. | barrett*.ti,ab. |
| 171. | (speciali* adj3 (epithel* or oesophag* or esophag* or mucos*)).ti,ab. |
| 172. | (column* adj3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*)).ti,ab. |
| 173. | (intestin* adj2 metaplas*).ti,ab. |
| 174. | or/1-5 |
| 175. | Precancer/ |
| 176. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*).ti,ab. |
| 177. | 7 or 8 |
| 178. | exp Esophagus/ |
| 179. | Esophagus Mucosa/ |
| 180. | (oesophag* or esophag*).ti,ab. |
| 181. | or/10-12 |
| 182. | 9 and 13 |
| 183. | exp Esophagus Tumor/ |
| 184. | 6 or 14 or 15 |

| | |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 185. | letter.pt. or letter/ |
| 186. | note.pt. |
| 187. | editorial.pt. |
| 188. | case report/ or case study/ |
| 189. | (letter or comment*).ti. |
| 190. | (conference abstract or conference paper).pt. |
| 191. | or/17-22 |
| 192. | randomized controlled trial/ or random*.ti,ab. |
| 193. | 23 not 24 |
| 194. | animal/ not human/ |
| 195. | nonhuman/ |
| 196. | exp Animal Experiment/ |
| 197. | exp Experimental Animal/ |
| 198. | animal model/ |
| 199. | exp Rodent/ |
| 200. | (rat or rats or mouse or mice or rodent*).ti. |
| 201. | or/25-32 |
| 202. | 16 not 33 |
| 203. | limit 34 to English language |
| 204. | *gastrointestinal endoscopy/ |
| 205. | gastroscopy/ |
| 206. | *endoscopy/ |
| 207. | endocytoscopy/ |
| 208. | high resolution endoscopy/ |
| 209. | magnifying endoscopy/ |
| 210. | narrow band imaging/ |
| 211. | videoendoscopy/ |
| 212. | white light endoscopy/ |
| 213. | capsule endoscopy/ |
| 214. | esophagoscopy/ |
| 215. | exp fluorescence imaging/ |
| 216. | exp acetic acid/ |
| 217. | molecular imaging/ |
| 218. | chromoendoscopy/ |
| 219. | exp artificial intelligence/ |
| 220. | (videoendoscop* or endomicroscop* or spectroscop* or endocytoscop* or oesophagoscop* or esophagoscop* or gastroscop* or chromatograph* or chromoendoscop* or chromoscop* or volumetric laser or acetic acid or methylene blue or indigo carmine or narrow band or white light or blue laser or blue light or flexible spectral imaging colo?r enhancement or autofluorescen* or fluorescen* or optical coherence tomography or trimodal or tri modal or optical enhancement).ti,ab. |
| 221. | (endoscop* adj3 (imag* or diagn* or identif* or surveillanc* or monitor* or observ* or detect*)).ti,ab. |
| 222. | ((capsule or transnasal or nasal) adj2 endoscop*).ti,ab. |
| 223. | (molecular adj3 (imag* or endoscop*)).ti,ab. |
| 224. | ((magnif* or high resolution or high definition) adj3 endoscop*).ti,ab. |
| 225. | (artificial intelligence or (computer adj (assisted or aided)) or ((deep or machine) adj learning) or neural network*).ti,ab. |
| 226. | (wide area transepithelial sampling or WATS3D or WATS 3D).ti,ab. |

| | |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 227. | ((endoscop* or oesophagoscop* or esophagoscop*) adj2 brush*).ti,ab. |
| 228. | (HRE or WLE or NBI or BLI or FICE or AFI or OCT or ETMI or OE or AI or CAD).ti,ab. |
| 229. | or/36-60 |
| 230. | 35 and 61 |
| 231. | random*.ti,ab. |
| 232. | factorial*.ti,ab. |
| 233. | (crossover* or cross over*).ti,ab. |
| 234. | ((doubl* or singl*) adj blind*).ti,ab. |
| 235. | (assign* or allocat* or volunteer* or placebo*).ti,ab. |
| 236. | crossover procedure/ |
| 237. | single blind procedure/ |
| 238. | randomized controlled trial/ |
| 239. | double blind procedure/ |
| 240. | or/63-71 |
| 241. | Systematic Review/ |
| 242. | Meta-Analysis/ |
| 243. | (meta analy* or metanaly* or metaanaly* or meta regression).ti,ab. |
| 244. | ((systematic* or evidence*) adj3 (review* or overview*)).ti,ab. |
| 245. | (reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab. |
| 246. | (search strategy or search criteria or systematic search or study selection or data extraction).ab. |
| 247. | (search* adj4 literature).ab. |
| 248. | (medline or pubmed or cochrane or embase or psychlit or psychlit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab. |
| 249. | cochrane.jw. |
| 250. | ((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab. |
| 251. | or/73-82 |
| 252. | exp "sensitivity and specificity"/ |
| 253. | (sensitivity or specificity).ti,ab. |
| 254. | ((pre test or pretest or post test) adj probability).ti,ab. |
| 255. | (predictive value* or PPV or NPV).ti,ab. |
| 256. | likelihood ratio*.ti,ab. |
| 257. | ((area under adj4 curve) or AUC).ti,ab. |
| 258. | (receive* operat* characteristic* or receive* operat* curve* or ROC curve*).ti,ab. |
| 259. | diagnostic accuracy/ |
| 260. | diagnostic test accuracy study/ |
| 261. | gold standard.ab. |
| 262. | exp diagnostic error/ |
| 263. | (false positiv* or false negativ*).ti,ab. |
| 264. | differential diagnosis/ |
| 265. | (diagnos* adj3 (performance* or accurac* or utilit* or value* or efficien* or effectiveness or precision or validat* or validity or differential or error*)).ti,ab. |
| 266. | or/84-97 |
| 267. | Clinical study/ |
| 268. | Observational study/ |
| 269. | Family study/ |
| 270. | Longitudinal study/ |

| | |
|------|--------------------------------------------------------------------------------------------------------------------------|
| 271. | Retrospective study/ |
| 272. | Prospective study/ |
| 273. | Cohort analysis/ |
| 274. | Follow-up/ |
| 275. | cohort*.ti,ab. |
| 276. | 106 and 107 |
| 277. | (cohort adj (study or studies or analys* or data)).ti,ab. |
| 278. | ((follow up or observational or uncontrolled or non randomi#ed or epidemiologic*) adj (study or studies or data)).ti,ab. |
| 279. | ((longitudinal or retrospective or prospective) and (study or studies or review or analys* or cohort* or data)).ti,ab. |
| 280. | (before adj2 after adj2 (study or studies or data)).ti,ab. |
| 281. | exp case control study/ |
| 282. | case control*.ti,ab. |
| 283. | cross-sectional study/ |
| 284. | (cross sectional and (study or studies or review or analys* or cohort* or data)).ti,ab. |
| 285. | or/99-105,108-116 |
| 286. | 62 and (72 or 83 or 98 or 117) |

Cochrane Library (Wiley) search terms

| | |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| #82. | MeSH descriptor: [Barrett Esophagus] explode all trees |
| #83. | barrett*.ti,ab |
| #84. | speciali* near/3 (epithel* or oesophag* or esophag* or mucos*):ti,ab |
| #85. | column* near/3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*):ti,ab |
| #86. | (intestin* near/2 metaplas*):ti,ab |
| #87. | (or #1-#5) |
| #88. | MeSH descriptor: [Precancerous Conditions] explode all trees |
| #89. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*):ti,ab |
| #90. | #7 or #8 |
| #91. | MeSH descriptor: [Esophagus] explode all trees |
| #92. | MeSH descriptor: [Esophageal Mucosa] explode all trees |
| #93. | (oesophag* or esophag* or intramucosal* or intra-mucosal*):ti,ab |
| #94. | (or #10-#12) |
| #95. | #9 and #13 |
| #96. | MeSH descriptor: [Esophageal Neoplasms] explode all trees |
| #97. | #6 or #14 or #15 |
| #98. | MeSH descriptor: [Endoscopy, Gastrointestinal] this term only |
| #99. | MeSH descriptor: [Capsule Endoscopy] this term only |
| #100. | MeSH descriptor: [Esophagoscopy] this term only |
| #101. | MeSH descriptor: [Gastrosocopy] this term only |
| #102. | (videoendoscop* or endomicroscop* or spectroscop* or endocytoscop* or oesophagoscop* or esophagoscop* or gastroscop*):ti,ab |
| #103. | (endoscop* near/3 (imag* or diagn* or identif* or surveillanc* or monitor* or observ* or detect*)):ti,ab |
| #104. | ((capsule or transnasal or nasal) near/2 endoscop*):ti,ab |

| | |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| #105. | MeSH descriptor: [Optical Imaging] explode all trees |
| #106. | MeSH descriptor: [Acetic Acid] explode all trees |
| #107. | MeSH descriptor: [Molecular Imaging] this term only |
| #108. | (molecular near/3 (imag* or endoscop*)):ti,ab |
| #109. | ((magnif* or high resolution or high definition) near/3 endoscop*):ti,ab |
| #110. | (chromatograph* or chromoendoscop* or chromoscop* or volumetric laser or acetic acid or methylene blue or indigo carmine or narrow band or white light or blue laser or blue light or flexible spectral imaging colo?r enhancement or autofluorescen* or fluorescen* or optical coherence tomography or trimodal or tri modal or optical enhancement):ti,ab |
| #111. | MeSH descriptor: [Artificial Intelligence] explode all trees |
| #112. | (artificial intelligence or (computer next (assisted or aided)) or ((deep or machine) next learning) or neural network*):ti,ab |
| #113. | (wide area transepithelial sampling or WATS3D or WATS 3D):ti,ab |
| #114. | ((endoscop* or oesophagoscop* or esophagoscop*) near/2 brush*):ti,ab |
| #115. | (HRE or WLE or NBI or BLI or FICE or AFI or OCT or ETMI or OE or AI or CAD):ti,ab |
| #116. | (or #17-#34) |
| #117. | #16 and #35 |

Epistemonikos search terms

| | |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3. | (title:(Barrett* OR "oesophageal adenocarcinoma*" OR "esophageal adenocarcinoma*" OR "oesophageal cancer*" OR "esophageal cancer*" OR "oesophageal carcinoma*" OR "esophageal carcinoma*" OR "oesophageal metaplas*" OR "esophageal dysplas*" OR "column* epithel*" OR "intestin* metaplas*" OR "intestin* dysplas*") OR abstract:(Barrett* OR "oesophageal adenocarcinoma*" OR "esophageal adenocarcinoma*" OR "oesophageal cancer*" OR "esophageal cancer*" OR "oesophageal carcinoma*" OR "esophageal carcinoma*" OR "oesophageal metaplas*" OR "esophageal dysplas*" OR "column* epithel*" OR "intestin* metaplas*" OR "intestin* dysplas*")) AND (title:("endoscop* imag*" OR "endoscop* diagn*" OR "endoscop* identif*" OR "endoscop* surveillanc*" OR "endoscop* monitor*" OR "endoscop* observ*" OR "endoscop* detect*" OR "capsule endoscop*" OR "transnasal endoscop*" OR "nasal endoscop*" OR "magnif* endoscop*" OR "high resolution endoscop*" OR "high definition endoscop*" OR videoendoscop* OR endomicroscop* OR spectroscop* OR endocytoscop* OR oesophagoscop* OR esophagoscop* OR gastroscop* OR chromatograph* OR chromoendoscop* OR chromoscop* OR "volumetric laser" OR "acetic acid" OR "methylene blue" OR "indigo carmine" OR "narrow band" OR "white light" OR "blue laser" OR "blue light" OR "flexible spectral imaging" OR autofluorescen* OR fluorescen* OR "optical coherence tomography" OR trimodal OR "tri modal" OR "optical enhancement" OR "artificial intelligence" OR "computer assisted" "computer aided" OR "deep learning" OR "machine learning" OR "neural network" OR "wide area transepithelial sampling" OR WATS3D OR "WATS 3D") OR abstract:("endoscop* imag*" OR "endoscop* diagn*" OR "endoscop* identif*" OR "endoscop* surveillanc*" OR "endoscop* monitor*" OR "endoscop* observ*" OR "endoscop* detect*" OR "capsule endoscop*" OR "transnasal endoscop*" OR "nasal endoscop*" OR "magnif* endoscop*" OR "high resolution endoscop*" OR "high definition endoscop*" OR videoendoscop* OR endomicroscop* OR spectroscop* OR endocytoscop* OR oesophagoscop* OR esophagoscop* OR gastroscop* OR chromatograph* OR chromoendoscop* OR chromoscop* OR "volumetric laser" OR "acetic acid" OR "methylene blue" OR "indigo carmine" OR "narrow band" OR "white light" OR "blue laser" OR "blue light" OR "flexible spectral imaging" OR autofluorescen* OR fluorescen* OR "optical coherence tomography" OR trimodal OR "tri modal" OR "optical enhancement" OR "artificial intelligence" OR "computer assisted" "computer aided" OR "deep learning" OR "machine learning" OR "neural network" OR "wide area transepithelial sampling" OR WATS3D OR "WATS 3D") |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

A.3.2 Health Economics literature search strategy

Health economic evidence was identified by conducting searches using terms for a broad Barrett's Oesophagus population. The following databases were searched: NHS Economic Evaluation Database (NHS EED - this ceased to be updated after 31st March 2015), Health Technology Assessment database (HTA - this ceased to be updated from 31st March 2018) and The International Network of Agencies for Health Technology Assessment (INAHTA). Searches for recent evidence were run on Medline and Embase from 2014 onwards for health economics, and all years for quality-of-life studies.

Table 2: Database parameters, filters and limits applied

| Database | Dates searched | Search filters and limits applied |
|----------------------------------------------------------------------------------------------|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Medline (OVID) | Health Economics 1 January 2014 – 29 April 2022 | Health economics studies Quality of life studies |
| | Quality of Life 1946 – 29 April 2022 | Exclusions (animal studies, letters, comments, editorials, case studies/reports) English language |
| Embase (OVID) | Health Economics 1 January 2014 – 29 April 2022 | Health economics studies Quality of life studies |
| | Quality of Life 1974 – 29 April 2022 | Exclusions (animal studies, letters, comments, editorials, case studies/reports, conference abstracts) English language |
| NHS Economic Evaluation Database (NHS EED) (Centre for Research and Dissemination - CRD) | Inception – 31 st March 2015 | |
| Health Technology Assessment Database (HTA) (Centre for Research and Dissemination – CRD) | Inception – 31 st March 2018 | |
| The International Network of Agencies for Health Technology Assessment (INAHTA) | Inception - 29 April 2022 | English language |

Medline (Ovid) search terms

| | |
|------|-----------------------------------------------------------------------|
| 147. | exp Barrett esophagus/ |
| 148. | barrett*.ti,ab. |
| 149. | (speciali* adj3 (epithel* or oesophag* or esophag* or mucos*)).ti,ab. |

| | |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 150. | (column* adj3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*)).ti,ab. |
| 151. | or/1-4 |
| 152. | Precancerous conditions/ |
| 153. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*).ti,ab. |
| 154. | 6 or 7 |
| 155. | exp Esophagus/ |
| 156. | Esophageal Mucosa/ |
| 157. | (oesophag* or esophag* or intramucosal* or intra-mucosal*).ti,ab. |
| 158. | or/9-11 |
| 159. | 8 and 12 |
| 160. | exp Esophageal Neoplasms/ |
| 161. | 5 or 13 or 14 |
| 162. | letter/ |
| 163. | editorial/ |
| 164. | news/ |
| 165. | exp historical article/ |
| 166. | Anecdotes as Topic/ |
| 167. | comment/ |
| 168. | case report/ |
| 169. | (letter or comment*).ti. |
| 170. | or/16-23 |
| 171. | randomized controlled trial/ or random*.ti,ab. |
| 172. | 24 not 25 |
| 173. | animals/ not humans/ |
| 174. | exp Animals, Laboratory/ |
| 175. | exp Animal Experimentation/ |
| 176. | exp Models, Animal/ |
| 177. | exp Rodentia/ |
| 178. | (rat or rats or mouse or mice or rodent*).ti. |
| 179. | or/26-32 |
| 180. | 15 not 33 |
| 181. | limit 34 to English language |
| 182. | economics/ |
| 183. | value of life/ |
| 184. | exp "costs and cost analysis"/ |
| 185. | exp Economics, Hospital/ |
| 186. | exp Economics, medical/ |
| 187. | Economics, nursing/ |
| 188. | economics, pharmaceutical/ |
| 189. | exp "Fees and Charges"/ |

| | |
|------|--------------------------------------------------------------------------------------------------|
| 190. | exp budgets/ |
| 191. | budget*.ti,ab. |
| 192. | cost*.ti. |
| 193. | (economic* or pharmaco?economic*).ti. |
| 194. | (price* or pricing*).ti,ab. |
| 195. | (cost* adj2 (effectiv* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab. |
| 196. | (financ* or fee or fees).ti,ab. |
| 197. | (value adj2 (money or monetary)).ti,ab. |
| 198. | or/36-51 |
| 199. | quality-adjusted life years/ |
| 200. | sickness impact profile/ |
| 201. | (quality adj2 (wellbeing or well being)).ti,ab. |
| 202. | sickness impact profile.ti,ab. |
| 203. | disability adjusted life.ti,ab. |
| 204. | (qal* or qtime* or qwb* or daly*).ti,ab. |
| 205. | (euroqol* or eq5d* or eq 5*).ti,ab. |
| 206. | (qol* or hqi* or hqol* or h qol* or hrqol* or hr qol*).ti,ab. |
| 207. | (health utility* or utility score* or disutilit* or utility value*).ti,ab. |
| 208. | (hui or hui1 or hui2 or hui3).ti,ab. |
| 209. | (health* year* equivalent* or hye or hyes).ti,ab. |
| 210. | discrete choice*.ti,ab. |
| 211. | rosser.ti,ab. |
| 212. | (willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab. |
| 213. | (sf36* or sf 36* or short form 36* or shortform 36* or shortform36*).ti,ab. |
| 214. | (sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab. |
| 215. | (sf12* or sf 12* or short form 12* or shortform 12* or shortform12*).ti,ab. |
| 216. | (sf8* or sf 8* or short form 8* or shortform 8* or shortform8*).ti,ab. |
| 217. | (sf6* or sf 6* or short form 6* or shortform 6* or shortform6*).ti,ab. |
| 218. | or/53-71 |
| 219. | 35 and (52 or 72) |

Embase (Ovid) search terms

| | |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 143. | exp Barrett esophagus/ |
| 144. | barrett*.ti,ab. |
| 145. | (speciali* adj3 (epithel* or oesophag* or esophag* or mucos*)).ti,ab. |
| 146. | (column* adj3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*)).ti,ab. |
| 147. | or/1-4 |
| 148. | Precancer/ |
| 149. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*).ti,ab. |
| 150. | 6 or 7 |

| | |
|------|--------------------------------------------------------------------------------------------------|
| 151. | exp Esophagus/ |
| 152. | Esophagus Mucosa/ |
| 153. | (oesophag* or esophag*).ti,ab. |
| 154. | or/9-11 |
| 155. | 8 and 12 |
| 156. | exp Esophagus Tumor/ |
| 157. | 5 or 13 or 14 |
| 158. | letter.pt. or letter/ |
| 159. | note.pt. |
| 160. | editorial.pt. |
| 161. | case report/ or case study/ |
| 162. | (letter or comment*).ti. |
| 163. | (conference abstract or conference paper).pt. |
| 164. | or/16-21 |
| 165. | randomized controlled trial/ or random*.ti,ab. |
| 166. | 22 not 23 |
| 167. | animal/ not human/ |
| 168. | nonhuman/ |
| 169. | exp Animal Experiment/ |
| 170. | exp Experimental Animal/ |
| 171. | animal model/ |
| 172. | exp Rodent/ |
| 173. | (rat or rats or mouse or mice or rodent*).ti. |
| 174. | or/24-31 |
| 175. | 15 not 32 |
| 176. | limit 33 to English language |
| 177. | health economics/ |
| 178. | exp economic evaluation/ |
| 179. | exp health care cost/ |
| 180. | exp fee/ |
| 181. | budget/ |
| 182. | funding/ |
| 183. | budget*.ti,ab. |
| 184. | cost*.ti. |
| 185. | (economic* or pharmaco?economic*).ti. |
| 186. | (price* or pricing*).ti,ab. |
| 187. | (cost* adj2 (effectiv* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab. |
| 188. | (financ* or fee or fees).ti,ab. |
| 189. | (value adj2 (money or monetary)).ti,ab. |
| 190. | or/35-47 |
| 191. | quality-adjusted life years/ |
| 192. | "quality of life index"/ |
| 193. | short form 12/ or short form 20/ or short form 36/ or short form 8/ |
| 194. | sickness impact profile/ |
| 195. | (quality adj2 (wellbeing or well being)).ti,ab. |
| 196. | sickness impact profile.ti,ab. |
| 197. | disability adjusted life.ti,ab. |

| | |
|------|-------------------------------------------------------------------------------------------|
| 198. | (qal* or qtime* or qwb* or daly*).ti,ab. |
| 199. | (euroqol* or eq5d* or eq 5*).ti,ab. |
| 200. | (qol* or hql* or hqol* or h qol* or hrqol* or hr qol*).ti,ab. |
| 201. | (health utility* or utility score* or disutilit* or utility value*).ti,ab. |
| 202. | (hui or hui1 or hui2 or hui3).ti,ab. |
| 203. | (health* year* equivalent* or hye or hyes).ti,ab. |
| 204. | discrete choice*.ti,ab. |
| 205. | rosser.ti,ab. |
| 206. | (willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab. |
| 207. | (sf36* or sf 36* or short form 36* or shortform 36* or shortform36*).ti,ab. |
| 208. | (sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab. |
| 209. | (sf12* or sf 12* or short form 12* or shortform 12* or shortform12*).ti,ab. |
| 210. | (sf8* or sf 8* or short form 8* or shortform 8* or shortform8*).ti,ab. |
| 211. | (sf6* or sf 6* or short form 6* or shortform 6* or shortform6*).ti,ab. |
| 212. | or/49-69 |
| 213. | 34 and (48 or 70) |

NHS EED and HTA (CRD) search terms

| | |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| #33. | MeSH DESCRIPTOR Barrett Esophagus EXPLODE ALL TREES |
| #34. | (barrett*) |
| #35. | (speciali*) AND (epithel* or oesophag* or esophag* or mucos*) |
| #36. | (column*) AND (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*) |
| #37. | #1 OR #2 OR #3 OR #4 |
| #38. | MeSH DESCRIPTOR Precancerous Conditions EXPLODE ALL TREES |
| #39. | ((dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*)) |
| #40. | #6 OR #7 |
| #41. | MeSH DESCRIPTOR Esophagus EXPLODE ALL TREES |
| #42. | MeSH DESCRIPTOR Esophageal Mucosa EXPLODE ALL TREES |
| #43. | (oesophag* or esophag* or intramucosal* or intra-mucosal*) |
| #44. | #9 OR #10 OR #11 |
| #45. | #8 AND #12 |
| #46. | #5 OR #13 |
| #47. | MeSH DESCRIPTOR Esophageal Neoplasms EXPLODE ALL TREES |
| #48. | #14 OR #15 |

INAHTA search terms

| | |
|----|-----------------------------------------------------------------------|
| 1. | ("Barrett Esophagus"[mh]) OR (Barrett*) OR (Esophageal Neoplasms)[mh] |
|----|-----------------------------------------------------------------------|

A.4 2.2 Non endoscopic surveillance

This literature search strategy was used for the following review:

- For adults with Barrett's oesophagus, what is the clinical and cost effectiveness of different non-endoscopic surveillance techniques, including cytosponge?

The literature searches for this review are detailed below and complied with the methodology outlined in Developing NICE guidelines: the manual. {NICE2014}

For more information, please see the Methodology review published as part of the accompanying documents for this guideline.

A.4.1 Clinical search literature search strategy

Searches were constructed using a PICO framework where population (P) terms were combined with Intervention (I) and in some cases Comparison (C) terms. Outcomes (O) are rarely used in search strategies as these concepts may not be indexed or described in the title or abstract and are therefore difficult to retrieve. Search filters were applied to the search where appropriate.

Table 1: Database parameters, filters and limits applied

| Database | Dates searched | Search filter used |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Medline (OVID) | 1946 – 26 April 2022 | Randomised controlled trials Systematic review studies Observational studies Exclusions (animal studies, letters, comments, editorials, case studies/reports) English language |
| Embase (OVID) | 1974 – 26 April 2022 | Randomised controlled trials Systematic review studies Observational studies Exclusions (animal studies, letters, comments, editorials, case studies/reports, conference abstracts) English language |
| The Cochrane Library (Wiley) | Cochrane Database of Systematic Reviews to Issue 4 of 12, April 2022 Cochrane Central Register of Controlled Trials to Issue 4 of 12, April 2022 | Exclusions (clinical trials, conference abstracts) |
| Epistemonikos (The Epistemonikos Foundation) | Inception to 26 April 2022 | Systematic review Exclusions (Cochrane reviews) |

Medline (Ovid) search terms

| | |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 265. | exp Barrett esophagus/ |
| 266. | barrett*.ti,ab. |
| 267. | (speciali* adj3 (epithel* or oesophag* or esophag* or mucos*)).ti,ab. |
| 268. | (column* adj3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*)).ti,ab. |
| 269. | (intestin* adj2 metaplas*).ti,ab. |
| 270. | or/1-5 |
| 271. | Precancerous conditions/ |
| 272. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*).ti,ab. |
| 273. | 7 or 8 |
| 274. | exp Esophagus/ |
| 275. | Esophageal Mucosa/ |
| 276. | (oesophag* or esophag* or intramucosal* or intra-mucosal*).ti,ab. |
| 277. | or/10-12 |
| 278. | 9 and 13 |
| 279. | exp Esophageal Neoplasms/ |
| 280. | 6 or 14 or 15 |
| 281. | letter/ |
| 282. | editorial/ |
| 283. | news/ |
| 284. | exp historical article/ |
| 285. | Anecdotes as Topic/ |
| 286. | comment/ |
| 287. | case report/ |
| 288. | (letter or comment*).ti. |
| 289. | or/17-24 |
| 290. | randomized controlled trial/ or random*.ti,ab. |
| 291. | 25 not 26 |
| 292. | animals/ not humans/ |
| 293. | exp Animals, Laboratory/ |
| 294. | exp Animal Experimentation/ |
| 295. | exp Models, Animal/ |
| 296. | exp Rodentia/ |
| 297. | (rat or rats or mouse or mice or rodent*).ti. |
| 298. | or/27-33 |
| 299. | 16 not 34 |
| 300. | limit 35 to English language |
| 301. | Cytodiagnosis/ |
| 302. | ((nonendoscop* or non endoscop* or minimal* invasive or noninvasive or non invasive or less invasive) adj3 (surveillanc* or approach* or screen* or monitor* or detect* or diagnos* or cytodiagnos* or cytolog* or assessment* or sampl* or collect* or brush* or biops* or examination* or test* or technique* or device* or tool* or capsule*).ti,ab. |
| 303. | ((oesophag* or esophag* or cell*) adj3 (collect* or sampl* or device*)).ti,ab. |
| 304. | (cytosponge* or esophacap* or esocheck* or aeonose* or balloon* or sponge* or electronic nose).ti,ab. |

| | |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| 305. | or/37-40 |
| 306. | 36 and 41 |
| 307. | Meta-Analysis/ |
| 308. | Meta-Analysis as Topic/ |
| 309. | (meta analy* or metanaly* or metaanaly* or meta regression).ti,ab. |
| 310. | ((systematic* or evidence*) adj3 (review* or overview*)).ti,ab. |
| 311. | (reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab. |
| 312. | (search strategy or search criteria or systematic search or study selection or data extraction).ab. |
| 313. | (search* adj4 literature).ab. |
| 314. | (medline or pubmed or cochrane or embase or psychlit or psyclit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab. |
| 315. | cochrane.jw. |
| 316. | ((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab. |
| 317. | or/43-52 |
| 318. | randomized controlled trial.pt. |
| 319. | controlled clinical trial.pt. |
| 320. | randomi#ed.ab. |
| 321. | placebo.ab. |
| 322. | randomly.ab. |
| 323. | clinical trials as topic.sh. |
| 324. | trial.ti. |
| 325. | or/54-60 |
| 326. | Epidemiologic studies/ |
| 327. | Observational study/ |
| 328. | exp Cohort studies/ |
| 329. | (cohort adj (study or studies or analys* or data)).ti,ab. |
| 330. | ((follow up or observational or uncontrolled or non randomi#ed or epidemiologic*) adj (study or studies or data)).ti,ab. |
| 331. | ((longitudinal or retrospective or prospective) and (study or studies or review or analys* or cohort* or data)).ti,ab. |
| 332. | Controlled Before-After Studies/ |
| 333. | Historically Controlled Study/ |
| 334. | Interrupted Time Series Analysis/ |
| 335. | (before adj2 after adj2 (study or studies or data)).ti,ab. |
| 336. | exp case control study/ |
| 337. | case control*.ti,ab. |
| 338. | Cross-sectional studies/ |
| 339. | (cross sectional and (study or studies or review or analys* or cohort* or data)).ti,ab. |
| 340. | or/62-75 |
| 341. | 42 and (53 or 61 or 76) |

Embase (Ovid) search terms

| | |
|------|-----------------------------------------------------------------------------------------------------|
| 287. | exp Barrett esophagus/ |
| 288. | barrett*.ti,ab. |
| 289. | (speciali* adj3 (epithel* or oesophag* or esophag* or mucos*)).ti,ab. |
| 290. | (column* adj3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*)).ti,ab. |

| | |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 291. | (intestin* adj2 metaplas*).ti,ab. |
| 292. | or/1-5 |
| 293. | Precancer/ |
| 294. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*).ti,ab. |
| 295. | 7 or 8 |
| 296. | exp Esophagus/ |
| 297. | Esophagus Mucosa/ |
| 298. | (oesophag* or esophag*).ti,ab. |
| 299. | or/10-12 |
| 300. | 9 and 13 |
| 301. | exp Esophagus Tumor/ |
| 302. | 6 or 14 or 15 |
| 303. | letter.pt. or letter/ |
| 304. | note.pt. |
| 305. | editorial.pt. |
| 306. | case report/ or case study/ |
| 307. | (letter or comment*).ti. |
| 308. | (conference abstract or conference paper).pt. |
| 309. | or/17-22 |
| 310. | randomized controlled trial/ or random*.ti,ab. |
| 311. | 23 not 24 |
| 312. | animal/ not human/ |
| 313. | nonhuman/ |
| 314. | exp Animal Experiment/ |
| 315. | exp Experimental Animal/ |
| 316. | animal model/ |
| 317. | exp Rodent/ |
| 318. | (rat or rats or mouse or mice or rodent*).ti. |
| 319. | or/25-32 |
| 320. | 16 not 33 |
| 321. | limit 34 to English language |
| 322. | cytodiagnosis/ |
| 323. | esophageal cell sampling device/ |
| 324. | ((nonendoscop* or non endoscop* or minimal* invasive or noninvasive or non invasive or less invasive) adj3 (surveillanc* or approach* or screen* or monitor* or detect* or diagnos* or cytodiagnos* or cytolog* or assessment* or sampl* or collect* or brush* or biops* or examination* or test* or technique* or device* or tool* or capsule*).ti,ab. |
| 325. | ((oesophag* or esophag* or cell*) adj3 (collect* or sampl* or device*).ti,ab. |
| 326. | (cytosponge* or esophacap* or esocheck* or aeonose* or balloon* or sponge* or electronic nose).ti,ab. |
| 327. | or/36-40 |
| 328. | 35 and 41 |
| 329. | random*.ti,ab. |
| 330. | factorial*.ti,ab. |
| 331. | (crossover* or cross over*).ti,ab. |
| 332. | ((doubl* or singl*) adj blind*).ti,ab. |

| | |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| 333. | (assign* or allocat* or volunteer* or placebo*).ti,ab. |
| 334. | crossover procedure/ |
| 335. | single blind procedure/ |
| 336. | randomized controlled trial/ |
| 337. | double blind procedure/ |
| 338. | or/43-51 |
| 339. | Systematic Review/ |
| 340. | Meta-Analysis/ |
| 341. | (meta analy* or metanaly* or metaanaly* or meta regression).ti,ab. |
| 342. | ((systematic* or evidence*) adj3 (review* or overview*)).ti,ab. |
| 343. | (reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab. |
| 344. | (search strategy or search criteria or systematic search or study selection or data extraction).ab. |
| 345. | (search* adj4 literature).ab. |
| 346. | (medline or pubmed or cochrane or embase or psychlit or psyclit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab. |
| 347. | cochrane.jw. |
| 348. | ((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab. |
| 349. | or/53-62 |
| 350. | Clinical study/ |
| 351. | Observational study/ |
| 352. | Family study/ |
| 353. | Longitudinal study/ |
| 354. | Retrospective study/ |
| 355. | Prospective study/ |
| 356. | Cohort analysis/ |
| 357. | Follow-up/ |
| 358. | cohort*.ti,ab. |
| 359. | 71 and 72 |
| 360. | (cohort adj (study or studies or analys* or data)).ti,ab. |
| 361. | ((follow up or observational or uncontrolled or non randomi#ed or epidemiologic*) adj (study or studies or data)).ti,ab. |
| 362. | ((longitudinal or retrospective or prospective) and (study or studies or review or analys* or cohort* or data)).ti,ab. |
| 363. | (before adj2 after adj2 (study or studies or data)).ti,ab. |
| 364. | exp case control study/ |
| 365. | case control*.ti,ab. |
| 366. | cross-sectional study/ |
| 367. | (cross sectional and (study or studies or review or analys* or cohort* or data)).ti,ab. |
| 368. | or/64-70,73-81 |
| 369. | 42 and (52 or 63 or 82) |

Cochrane Library (Wiley) search terms

| | |
|-------|----------------------------------------------------------------------------------------------------|
| #118. | MeSH descriptor: [Barrett Esophagus] explode all trees |
| #119. | barrett*.ti,ab |
| #120. | speciali* near/3 (epithel* or oesophag* or esophag* or mucos*):ti,ab |
| #121. | column* near/3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*):ti,ab |

| | |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| #122. | (intestin* near/2 metaplas*):ti,ab |
| #123. | (or #1-#5) |
| #124. | MeSH descriptor: [Precancerous Conditions] explode all trees |
| #125. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*):ti,ab |
| #126. | #7 or #8 |
| #127. | MeSH descriptor: [Esophagus] explode all trees |
| #128. | MeSH descriptor: [Esophageal Mucosa] explode all trees |
| #129. | (oesophag* or esophag* or intramucosal* or intra-mucosal*):ti,ab |
| #130. | (or #10-#12) |
| #131. | #9 and #13 |
| #132. | MeSH descriptor: [Esophageal Neoplasms] explode all trees |
| #133. | #6 or #14 or #15 |
| #134. | MeSH descriptor: [Cytodiagnosis] this term only |
| #135. | ((nonendoscop* or non endoscop* or minimal* invasive or noninvasive or non invasive or less invasive) near/3 (surveillanc* or approach* or screen* or monitor* or detect* or diagnos* or cytodiagnos* or cytolog* or assessment* or sampl* or collect* or brush* or biops* or examination* or test* or technique* or device* or tool* or capsule*)):ti,ab |
| #136. | ((oesophag* or esophag* or cell*) near/3 (collect* or sampl* or device*)):ti,ab |
| #137. | (cytosponge* or esophacap* or esocheck* or aeonose* or balloon* or sponge* or (electronic nose)):ti,ab |
| #138. | (or #17-#20) |
| #139. | #16 and #21 |
| #140. | conference:pt or (clinicaltrials or trialsearch):so |
| #141. | #22 not #23 |

Epistemonikos search terms

| | |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4. | (title:(Barrett* OR "oesophageal adenocarcinoma*" OR "esophageal adenocarcinoma*" OR "oesophageal cancer*" OR "esophageal cancer*" OR "oesophageal carcinoma*" OR "esophageal carcinoma*" OR "oesophageal metaplas*" OR "esophageal dysplas*" OR "column* epithel*" OR "intestin* metaplas*" OR "intestin* dysplas*") OR abstract:(Barrett* OR "oesophageal adenocarcinoma*" OR "esophageal adenocarcinoma*" OR "oesophageal cancer*" OR "esophageal cancer*" OR "oesophageal carcinoma*" OR "esophageal carcinoma*" OR "oesophageal metaplas*" OR "esophageal dysplas*" OR "column* epithel*" OR "intestin* metaplas*" OR "intestin* dysplas*")) AND (title:("non-endoscopic*" OR nonendoscopic* OR cytosponge* OR esophacap* OR esocheck* OR balloon OR sponge OR "cell collection sampling device*") OR abstract:("non-endoscopic*" OR nonendoscopic* OR cytosponge* OR esophacap* OR esocheck* OR balloon OR sponge OR "cell collection sampling device*")) |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

A.4.2 Health Economics literature search strategy

Health economic evidence was identified by conducting searches using terms for a broad Barrett's Oesophagus population. The following databases were searched: NHS Economic Evaluation Database (NHS EED - this ceased to be updated after 31st March 2015), Health Technology Assessment database (HTA - this ceased to be updated from 31st March 2018) and The International Network of Agencies for Health Technology Assessment (INAHTA).

Searches for recent evidence were run on Medline and Embase from 2014 onwards for health economics, and all years for quality-of-life studies.

Table 2: Database parameters, filters and limits applied

| Database | Dates searched | Search filters and limits applied |
|----------------------------------------------------------------------------------------------|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Medline (OVID) | Health Economics 1 January 2014 – 29 April 2022 | Health economics studies Quality of life studies |
| | Quality of Life 1946 – 29 April 2022 | Exclusions (animal studies, letters, comments, editorials, case studies/reports) English language |
| Embase (OVID) | Health Economics 1 January 2014 – 29 April 2022 | Health economics studies Quality of life studies |
| | Quality of Life 1974 – 29 April 2022 | Exclusions (animal studies, letters, comments, editorials, case studies/reports, conference abstracts) English language |
| NHS Economic Evaluation Database (NHS EED) (Centre for Research and Dissemination - CRD) | Inception – 31 st March 2015 | |
| Health Technology Assessment Database (HTA) (Centre for Research and Dissemination – CRD) | Inception – 31 st March 2018 | |
| The International Network of Agencies for Health Technology Assessment (INAHTA) | Inception - 29 April 2022 | English language |

Medline (Ovid) search terms

| | |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 220. | exp Barrett esophagus/ |
| 221. | barrett*.ti,ab. |
| 222. | (speciali* adj3 (epithel* or oesophag* or esophag* or mucos*)).ti,ab. |
| 223. | (column* adj3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*)).ti,ab. |
| 224. | or/1-4 |
| 225. | Precancerous conditions/ |
| 226. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*).ti,ab. |
| 227. | 6 or 7 |
| 228. | exp Esophagus/ |
| 229. | Esophageal Mucosa/ |

| | |
|------|--------------------------------------------------------------------------------------------------|
| 230. | (oesophag* or esophag* or intramucosal* or intra-mucosal*).ti,ab. |
| 231. | or/9-11 |
| 232. | 8 and 12 |
| 233. | exp Esophageal Neoplasms/ |
| 234. | 5 or 13 or 14 |
| 235. | letter/ |
| 236. | editorial/ |
| 237. | news/ |
| 238. | exp historical article/ |
| 239. | Anecdotes as Topic/ |
| 240. | comment/ |
| 241. | case report/ |
| 242. | (letter or comment*).ti. |
| 243. | or/16-23 |
| 244. | randomized controlled trial/ or random*.ti,ab. |
| 245. | 24 not 25 |
| 246. | animals/ not humans/ |
| 247. | exp Animals, Laboratory/ |
| 248. | exp Animal Experimentation/ |
| 249. | exp Models, Animal/ |
| 250. | exp Rodentia/ |
| 251. | (rat or rats or mouse or mice or rodent*).ti. |
| 252. | or/26-32 |
| 253. | 15 not 33 |
| 254. | limit 34 to English language |
| 255. | economics/ |
| 256. | value of life/ |
| 257. | exp "costs and cost analysis"/ |
| 258. | exp Economics, Hospital/ |
| 259. | exp Economics, medical/ |
| 260. | Economics, nursing/ |
| 261. | economics, pharmaceutical/ |
| 262. | exp "Fees and Charges"/ |
| 263. | exp budgets/ |
| 264. | budget*.ti,ab. |
| 265. | cost*.ti. |
| 266. | (economic* or pharmaco?economic*).ti. |
| 267. | (price* or pricing*).ti,ab. |
| 268. | (cost* adj2 (effectiv* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab. |
| 269. | (financ* or fee or fees).ti,ab. |
| 270. | (value adj2 (money or monetary)).ti,ab. |
| 271. | or/36-51 |

| | |
|------|-------------------------------------------------------------------------------------------|
| 272. | quality-adjusted life years/ |
| 273. | sickness impact profile/ |
| 274. | (quality adj2 (wellbeing or well being)).ti,ab. |
| 275. | sickness impact profile.ti,ab. |
| 276. | disability adjusted life.ti,ab. |
| 277. | (qal* or qtime* or qwb* or daly*).ti,ab. |
| 278. | (euroqol* or eq5d* or eq 5*).ti,ab. |
| 279. | (qol* or hqi* or hqol* or h qol* or hrqol* or hr qol*).ti,ab. |
| 280. | (health utility* or utility score* or disutilit* or utility value*).ti,ab. |
| 281. | (hui or hui1 or hui2 or hui3).ti,ab. |
| 282. | (health* year* equivalent* or hye or hyes).ti,ab. |
| 283. | discrete choice*.ti,ab. |
| 284. | rosser.ti,ab. |
| 285. | (willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab. |
| 286. | (sf36* or sf 36* or short form 36* or shortform 36* or shortform36*).ti,ab. |
| 287. | (sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab. |
| 288. | (sf12* or sf 12* or short form 12* or shortform 12* or shortform12*).ti,ab. |
| 289. | (sf8* or sf 8* or short form 8* or shortform 8* or shortform8*).ti,ab. |
| 290. | (sf6* or sf 6* or short form 6* or shortform 6* or shortform6*).ti,ab. |
| 291. | or/53-71 |
| 292. | 35 and (52 or 72) |

Embase (Ovid) search terms

| | |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 214. | exp Barrett esophagus/ |
| 215. | barrett*.ti,ab. |
| 216. | (speciali* adj3 (epithel* or oesophag* or esophag* or mucos*)).ti,ab. |
| 217. | (column* adj3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*)).ti,ab. |
| 218. | or/1-4 |
| 219. | Precancer/ |
| 220. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*).ti,ab. |
| 221. | 6 or 7 |
| 222. | exp Esophagus/ |
| 223. | Esophagus Mucosa/ |
| 224. | (oesophag* or esophag*).ti,ab. |
| 225. | or/9-11 |
| 226. | 8 and 12 |
| 227. | exp Esophagus Tumor/ |
| 228. | 5 or 13 or 14 |
| 229. | letter.pt. or letter/ |
| 230. | note.pt. |
| 231. | editorial.pt. |

| | |
|------|--------------------------------------------------------------------------------------------------|
| 232. | case report/ or case study/ |
| 233. | (letter or comment*).ti. |
| 234. | (conference abstract or conference paper).pt. |
| 235. | or/16-21 |
| 236. | randomized controlled trial/ or random*.ti,ab. |
| 237. | 22 not 23 |
| 238. | animal/ not human/ |
| 239. | nonhuman/ |
| 240. | exp Animal Experiment/ |
| 241. | exp Experimental Animal/ |
| 242. | animal model/ |
| 243. | exp Rodent/ |
| 244. | (rat or rats or mouse or mice or rodent*).ti. |
| 245. | or/24-31 |
| 246. | 15 not 32 |
| 247. | limit 33 to English language |
| 248. | health economics/ |
| 249. | exp economic evaluation/ |
| 250. | exp health care cost/ |
| 251. | exp fee/ |
| 252. | budget/ |
| 253. | funding/ |
| 254. | budget*.ti,ab. |
| 255. | cost*.ti. |
| 256. | (economic* or pharmaco?economic*).ti. |
| 257. | (price* or pricing*).ti,ab. |
| 258. | (cost* adj2 (effectiv* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab. |
| 259. | (financ* or fee or fees).ti,ab. |
| 260. | (value adj2 (money or monetary)).ti,ab. |
| 261. | or/35-47 |
| 262. | quality-adjusted life years/ |
| 263. | "quality of life index"/ |
| 264. | short form 12/ or short form 20/ or short form 36/ or short form 8/ |
| 265. | sickness impact profile/ |
| 266. | (quality adj2 (wellbeing or well being)).ti,ab. |
| 267. | sickness impact profile.ti,ab. |
| 268. | disability adjusted life.ti,ab. |
| 269. | (qal* or qtime* or qwb* or daly*).ti,ab. |
| 270. | (euroqol* or eq5d* or eq 5*).ti,ab. |
| 271. | (qol* or hql* or hqol* or h qol* or hrqol* or hr qol*).ti,ab. |
| 272. | (health utility* or utility score* or disutilit* or utility value*).ti,ab. |
| 273. | (hui or hui1 or hui2 or hui3).ti,ab. |
| 274. | (health* year* equivalent* or hye or hyes).ti,ab. |
| 275. | discrete choice*.ti,ab. |
| 276. | rosser.ti,ab. |
| 277. | (willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab. |
| 278. | (sf36* or sf 36* or short form 36* or shortform 36* or shortform36*).ti,ab. |

| | |
|------|-----------------------------------------------------------------------------|
| 279. | (sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab. |
| 280. | (sf12* or sf 12* or short form 12* or shortform 12* or shortform12*).ti,ab. |
| 281. | (sf8* or sf 8* or short form 8* or shortform 8* or shortform8*).ti,ab. |
| 282. | (sf6* or sf 6* or short form 6* or shortform 6* or shortform6*).ti,ab. |
| 283. | or/49-69 |
| 284. | 34 and (48 or 70) |

NHS EED and HTA (CRD) search terms

| | |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| #49. | MeSH DESCRIPTOR Barrett Esophagus EXPLODE ALL TREES |
| #50. | (barrett*) |
| #51. | (speciali*) AND (epithel* or oesophag* or esophag* or mucos*) |
| #52. | (column*) AND (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*) |
| #53. | #1 OR #2 OR #3 OR #4 |
| #54. | MeSH DESCRIPTOR Precancerous Conditions EXPLODE ALL TREES |
| #55. | ((dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*)) |
| #56. | #6 OR #7 |
| #57. | MeSH DESCRIPTOR Esophagus EXPLODE ALL TREES |
| #58. | MeSH DESCRIPTOR Esophageal Mucosa EXPLODE ALL TREES |
| #59. | (oesophag* or esophag* or intramucosal* or intra-mucosal*) |
| #60. | #9 OR #10 OR #11 |
| #61. | #8 AND #12 |
| #62. | #5 OR #13 |
| #63. | MeSH DESCRIPTOR Esophageal Neoplasms EXPLODE ALL TREES |
| #64. | #14 OR #15 |

INAHTA search terms

| | |
|----|-----------------------------------------------------------------------|
| 1. | ("Barrett Esophagus"[mh]) OR (Barrett*) OR (Esophageal Neoplasms)[mh] |
|----|-----------------------------------------------------------------------|

A.5 2.2b Non endoscopic surveillance

This literature search strategy was used for the following review:

- What is the diagnostic accuracy of different non-endoscopic surveillance techniques including cytosponge?

The literature searches for this review are detailed below and complied with the methodology outlined in Developing NICE guidelines: the manual. {NICE2014}

For more information, please see the Methodology review published as part of the accompanying documents for this guideline.

A.5.1 Clinical search literature search strategy

Searches were constructed using a PICO framework where population (P) terms were combined with Intervention (I) and in some cases Comparison (C) terms. Outcomes (O) are rarely used in search strategies as these concepts may not be indexed or described in the title or abstract and are therefore difficult to retrieve. Search filters were applied to the search where appropriate.

Table 1: Database parameters, filters and limits applied

| Database | Dates searched | Search filter used |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Medline (OVID) | 1946 – 26 April 2022 | Randomised controlled trials Systematic review studies Observational studies Diagnostic studies Exclusions (animal studies, letters, comments, editorials, case studies/reports) English language |
| Embase (OVID) | 1974 – 26 April 2022 | Randomised controlled trials Systematic review studies Observational studies Diagnostic studies Exclusions (animal studies, letters, comments, editorials, case studies/reports, conference abstracts) English language |
| The Cochrane Library (Wiley) | Cochrane Database of Systematic Reviews to Issue 4 of 12, April 2022 Cochrane Central Register of Controlled Trials to Issue 4 of 12, April 2022 | Exclusions (clinical trials, conference abstracts) |
| Epistemonikos (The Epistemonikos Foundation) | Inception to 26 April 2022 | Systematic review Exclusions (Cochrane reviews) |

Medline (Ovid) search terms

| | |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 342. | exp Barrett esophagus/ |
| 343. | barrett*.ti,ab. |
| 344. | (speciali* adj3 (epithel* or oesophag* or esophag* or mucos*)).ti,ab. |
| 345. | (column* adj3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*)).ti,ab. |
| 346. | (intestin* adj2 metaplas*).ti,ab. |
| 347. | or/1-5 |
| 348. | Precancerous conditions/ |
| 349. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*).ti,ab. |
| 350. | 7 or 8 |
| 351. | exp Esophagus/ |
| 352. | Esophageal Mucosa/ |
| 353. | (oesophag* or esophag* or intramucosal* or intra-mucosal*).ti,ab. |
| 354. | or/10-12 |
| 355. | 9 and 13 |
| 356. | exp Esophageal Neoplasms/ |
| 357. | 6 or 14 or 15 |
| 358. | letter/ |
| 359. | editorial/ |
| 360. | news/ |
| 361. | exp historical article/ |
| 362. | Anecdotes as Topic/ |
| 363. | comment/ |
| 364. | case report/ |
| 365. | (letter or comment*).ti. |
| 366. | or/17-24 |
| 367. | randomized controlled trial/ or random*.ti,ab. |
| 368. | 25 not 26 |
| 369. | animals/ not humans/ |
| 370. | exp Animals, Laboratory/ |
| 371. | exp Animal Experimentation/ |
| 372. | exp Models, Animal/ |
| 373. | exp Rodentia/ |
| 374. | (rat or rats or mouse or mice or rodent*).ti. |
| 375. | or/27-33 |
| 376. | 16 not 34 |
| 377. | limit 35 to English language |
| 378. | Cytodiagnosis/ |
| 379. | ((nonendoscop* or non endoscop* or minimal* invasive or noninvasive or non invasive or less invasive) adj3 (surveillanc* or approach* or screen* or monitor* or detect* or diagnos* or cytodianos* or cytolog* or assessment* or sampl* or collect* or brush* or biops* or examination* or test* or technique* or device* or tool* or capsule*).ti,ab. |
| 380. | ((oesophag* or esophag* or cell*) adj3 (collect* or sampl* or device*)).ti,ab. |

| | |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| 381. | (cytosponge* or esophacap* or esocheck* or aeonose* or balloon* or sponge* or electronic nose).ti,ab. |
| 382. | or/37-40 |
| 383. | 36 and 41 |
| 384. | Meta-Analysis/ |
| 385. | Meta-Analysis as Topic/ |
| 386. | (meta analy* or metanaly* or metaanaly* or meta regression).ti,ab. |
| 387. | ((systematic* or evidence*) adj3 (review* or overview*)).ti,ab. |
| 388. | (reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab. |
| 389. | (search strategy or search criteria or systematic search or study selection or data extraction).ab. |
| 390. | (search* adj4 literature).ab. |
| 391. | (medline or pubmed or cochrane or embase or psychlit or psyclit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab. |
| 392. | cochrane.jw. |
| 393. | ((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab. |
| 394. | or/43-52 |
| 395. | randomized controlled trial.pt. |
| 396. | controlled clinical trial.pt. |
| 397. | randomi#ed.ab. |
| 398. | placebo.ab. |
| 399. | randomly.ab. |
| 400. | clinical trials as topic.sh. |
| 401. | trial.ti. |
| 402. | or/54-60 |
| 403. | Epidemiologic studies/ |
| 404. | Observational study/ |
| 405. | exp Cohort studies/ |
| 406. | (cohort adj (study or studies or analys* or data)).ti,ab. |
| 407. | ((follow up or observational or uncontrolled or non randomi#ed or epidemiologic*) adj (study or studies or data)).ti,ab. |
| 408. | ((longitudinal or retrospective or prospective) and (study or studies or review or analys* or cohort* or data)).ti,ab. |
| 409. | Controlled Before-After Studies/ |
| 410. | Historically Controlled Study/ |
| 411. | Interrupted Time Series Analysis/ |
| 412. | (before adj2 after adj2 (study or studies or data)).ti,ab. |
| 413. | exp case control study/ |
| 414. | case control*.ti,ab. |
| 415. | Cross-sectional studies/ |
| 416. | (cross sectional and (study or studies or review or analys* or cohort* or data)).ti,ab. |
| 417. | or/62-75 |
| 418. | exp "sensitivity and specificity"/ |
| 419. | (sensitivity or specificity).ti,ab. |
| 420. | ((pre test or pretest or post test) adj probability).ti,ab. |
| 421. | (predictive value* or PPV or NPV).ti,ab. |
| 422. | likelihood ratio*.ti,ab. |

| | |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 423. | likelihood function/ |
| 424. | ((area under adj4 curve) or AUC).ti,ab. |
| 425. | (receive* operat* characteristic* or receive* operat* curve* or ROC curve*).ti,ab. |
| 426. | gold standard.ab. |
| 427. | exp Diagnostic errors/ |
| 428. | (false positiv* or false negativ*).ti,ab. |
| 429. | Diagnosis, Differential/ |
| 430. | (diagnos* adj3 (performance* or accurac* or utilit* or value* or efficien* or effectiveness or precision or validat* or validity or differential or error*).ti,ab. |
| 431. | or/77-89 |
| 432. | 42 and (53 or 61 or 76 or 90) |

Embase (Ovid) search terms

| | |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 370. | exp Barrett esophagus/ |
| 371. | barrett*.ti,ab. |
| 372. | (speciali* adj3 (epithel* or oesophag* or esophag* or mucos*).ti,ab. |
| 373. | (column* adj3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*).ti,ab. |
| 374. | (intestin* adj2 metaplas*).ti,ab. |
| 375. | or/1-5 |
| 376. | Precancer/ |
| 377. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*).ti,ab. |
| 378. | 7 or 8 |
| 379. | exp Esophagus/ |
| 380. | Esophagus Mucosa/ |
| 381. | (oesophag* or esophag*).ti,ab. |
| 382. | or/10-12 |
| 383. | 9 and 13 |
| 384. | exp Esophagus Tumor/ |
| 385. | 6 or 14 or 15 |
| 386. | letter.pt. or letter/ |
| 387. | note.pt. |
| 388. | editorial.pt. |
| 389. | case report/ or case study/ |
| 390. | (letter or comment*).ti. |
| 391. | (conference abstract or conference paper).pt. |
| 392. | or/17-22 |
| 393. | randomized controlled trial/ or random*.ti,ab. |
| 394. | 23 not 24 |
| 395. | animal/ not human/ |
| 396. | nonhuman/ |
| 397. | exp Animal Experiment/ |
| 398. | exp Experimental Animal/ |
| 399. | animal model/ |
| 400. | exp Rodent/ |
| 401. | (rat or rats or mouse or mice or rodent*).ti. |

| | |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 402. | or/25-32 |
| 403. | 16 not 33 |
| 404. | limit 34 to English language |
| 405. | cytodiagnosis/ |
| 406. | esophageal cell sampling device/ |
| 407. | ((nonendoscop* or non endoscop* or minimal* invasive or noninvasive or non invasive or less invasive) adj3 (surveillanc* or approach* or screen* or monitor* or detect* or diagnos* or cytodiagnos* or cytolog* or assessment* or sampl* or collect* or brush* or biops* or examination* or test* or technique* or device* or tool* or capsule*)).ti,ab. |
| 408. | ((oesophag* or esophag* or cell*) adj3 (collect* or sampl* or device*)).ti,ab. |
| 409. | (cytosponge* or esophacap* or esochek* or aeonose* or balloon* or sponge* or electronic nose).ti,ab. |
| 410. | or/36-40 |
| 411. | 35 and 41 |
| 412. | random*.ti,ab. |
| 413. | factorial*.ti,ab. |
| 414. | (crossover* or cross over*).ti,ab. |
| 415. | ((doubl* or singl*) adj blind*).ti,ab. |
| 416. | (assign* or allocat* or volunteer* or placebo*).ti,ab. |
| 417. | crossover procedure/ |
| 418. | single blind procedure/ |
| 419. | randomized controlled trial/ |
| 420. | double blind procedure/ |
| 421. | or/43-51 |
| 422. | Systematic Review/ |
| 423. | Meta-Analysis/ |
| 424. | (meta analy* or metanaly* or metaanaly* or meta regression).ti,ab. |
| 425. | ((systematic* or evidence*) adj3 (review* or overview*)).ti,ab. |
| 426. | (reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab. |
| 427. | (search strategy or search criteria or systematic search or study selection or data extraction).ab. |
| 428. | (search* adj4 literature).ab. |
| 429. | (medline or pubmed or cochrane or embase or psychlit or psyclit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab. |
| 430. | cochrane.jw. |
| 431. | ((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab. |
| 432. | or/53-62 |
| 433. | Clinical study/ |
| 434. | Observational study/ |
| 435. | Family study/ |
| 436. | Longitudinal study/ |
| 437. | Retrospective study/ |
| 438. | Prospective study/ |
| 439. | Cohort analysis/ |
| 440. | Follow-up/ |
| 441. | cohort*.ti,ab. |
| 442. | 71 and 72 |
| 443. | (cohort adj (study or studies or analys* or data)).ti,ab. |

| | |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 444. | ((follow up or observational or uncontrolled or non randomi#ed or epidemiologic*) adj (study or studies or data)).ti,ab. |
| 445. | ((longitudinal or retrospective or prospective) and (study or studies or review or analys* or cohort* or data)).ti,ab. |
| 446. | (before adj2 after adj2 (study or studies or data)).ti,ab. |
| 447. | exp case control study/ |
| 448. | case control*.ti,ab. |
| 449. | cross-sectional study/ |
| 450. | (cross sectional and (study or studies or review or analys* or cohort* or data)).ti,ab. |
| 451. | or/64-70,73-81 |
| 452. | exp "sensitivity and specificity"/ |
| 453. | (sensitivity or specificity).ti,ab. |
| 454. | ((pre test or pretest or post test) adj probability).ti,ab. |
| 455. | (predictive value* or PPV or NPV).ti,ab. |
| 456. | likelihood ratio*.ti,ab. |
| 457. | ((area under adj4 curve) or AUC).ti,ab. |
| 458. | (receive* operat* characteristic* or receive* operat* curve* or ROC curve*).ti,ab. |
| 459. | diagnostic accuracy/ |
| 460. | diagnostic test accuracy study/ |
| 461. | gold standard.ab. |
| 462. | exp diagnostic error/ |
| 463. | (false positiv* or false negativ*).ti,ab. |
| 464. | differential diagnosis/ |
| 465. | (diagnos* adj3 (performance* or accurac* or utilit* or value* or efficien* or effectiveness or precision or validat* or validity or differential or error*)).ti,ab. |
| 466. | or/83-96 |
| 467. | 42 and (52 or 63 or 82 or 97) |

Cochrane Library (Wiley) search terms

| | |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| #142. | MeSH descriptor: [Barrett Esophagus] explode all trees |
| #143. | barrett*.ti,ab |
| #144. | speciali* near/3 (epithel* or oesophag* or esophag* or mucos*):ti,ab |
| #145. | column* near/3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*):ti,ab |
| #146. | (intestin* near/2 metaplas*):ti,ab |
| #147. | (or #1-#5) |
| #148. | MeSH descriptor: [Precancerous Conditions] explode all trees |
| #149. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*):ti,ab |
| #150. | #7 or #8 |
| #151. | MeSH descriptor: [Esophagus] explode all trees |
| #152. | MeSH descriptor: [Esophageal Mucosa] explode all trees |
| #153. | (oesophag* or esophag* or intramucosal* or intra-mucosal*):ti,ab |
| #154. | (or #10-#12) |
| #155. | #9 and #13 |
| #156. | MeSH descriptor: [Esophageal Neoplasms] explode all trees |
| #157. | #6 or #14 or #15 |

| | |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| #158. | MeSH descriptor: [Cytodiagnosis] this term only |
| #159. | ((nonendoscop* or non endoscop* or minimal* invasive or noninvasive or non invasive or less invasive) near/3 (surveillanc* or approach* or screen* or monitor* or detect* or diagnos* or cytodianos* or cytolog* or assessment* or sampl* or collect* or brush* or biops* or examination* or test* or technique* or device* or tool* or capsule*)):ti,ab |
| #160. | ((oesophag* or esophag* or cell*) near/3 (collect* or sampl* or device*)):ti,ab |
| #161. | (cytosponge* or esophacap* or esocheck* or aeonose* or balloon* or sponge* or (electronic nose)):ti,ab |
| #162. | (or #17-#20) |
| #163. | #16 and #21 |
| #164. | conference:pt or (clinicaltrials or trialsearch):so |
| #165. | #22 not #23 |

Epistemonikos search terms

| | |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5. | (title:(Barrett* OR "oesophageal adenocarcinoma*" OR "esophageal adenocarcinoma*" OR "oesophageal cancer*" OR "esophageal cancer*" OR "oesophageal carcinoma*" OR "esophageal carcinoma*" OR "oesophageal metaplas*" OR "esophageal dysplas*" OR "column* epithel*" OR "intestin* metaplas*" OR "intestin* dysplas*") OR abstract:(Barrett* OR "oesophageal adenocarcinoma*" OR "esophageal adenocarcinoma*" OR "oesophageal cancer*" OR "esophageal cancer*" OR "oesophageal carcinoma*" OR "esophageal carcinoma*" OR "oesophageal metaplas*" OR "esophageal dysplas*" OR "column* epithel*" OR "intestin* metaplas*" OR "intestin* dysplas*")) AND (title:(("non-endoscopic*" OR nonendoscopic* OR cytosponge* OR esophacap* OR esocheck* OR balloon OR sponge OR "cell collection sampling device*") OR abstract:(("non-endoscopic*" OR nonendoscopic* OR cytosponge* OR esophacap* OR esocheck* OR balloon OR sponge OR "cell collection sampling device*")) |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

A.5.2 Health Economics literature search strategy

Health economic evidence was identified by conducting searches using terms for a broad Barrett's Oesophagus population. The following databases were searched: NHS Economic Evaluation Database (NHS EED - this ceased to be updated after 31st March 2015), Health Technology Assessment database (HTA - this ceased to be updated from 31st March 2018) and The International Network of Agencies for Health Technology Assessment (INAHTA). Searches for recent evidence were run on Medline and Embase from 2014 onwards for health economics, and all years for quality-of-life studies.

Table 2: Database parameters, filters and limits applied

| Database | Dates searched | Search filters and limits applied |
|----------------|----------------------------------------------------|----------------------------------------------------------------------------------|
| Medline (OVID) | Health Economics 1 January 2014 – 29 April 2022 | Health economics studies Quality of life studies |
| | Quality of Life 1946 – 29 April 2022 | Exclusions (animal studies, letters, comments, editorials, case studies/reports) |
| | | English language |

| Database | Dates searched | Search filters and limits applied |
|----------------------------------------------------------------------------------------------|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Embase (OVID) | Health Economics 1 January 2014 – 29 April 2022 | Health economics studies Quality of life studies |
| | Quality of Life 1974 – 29 April 2022 | Exclusions (animal studies, letters, comments, editorials, case studies/reports, conference abstracts) English language |
| NHS Economic Evaluation Database (NHS EED) (Centre for Research and Dissemination - CRD) | Inception – 31 st March 2015 | |
| Health Technology Assessment Database (HTA) (Centre for Research and Dissemination – CRD) | Inception – 31 st March 2018 | |
| The International Network of Agencies for Health Technology Assessment (INAHTA) | Inception - 29 April 2022 | English language |

Medline (Ovid) search terms

| | |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 293. | exp Barrett esophagus/ |
| 294. | barrett*.ti,ab. |
| 295. | (speciali* adj3 (epithel* or oesophag* or esophag* or mucos*)).ti,ab. |
| 296. | (column* adj3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*)).ti,ab. |
| 297. | or/1-4 |
| 298. | Precancerous conditions/ |
| 299. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*).ti,ab. |
| 300. | 6 or 7 |
| 301. | exp Esophagus/ |
| 302. | Esophageal Mucosa/ |
| 303. | (oesophag* or esophag* or intramucosal* or intra-mucosal*).ti,ab. |
| 304. | or/9-11 |
| 305. | 8 and 12 |
| 306. | exp Esophageal Neoplasms/ |
| 307. | 5 or 13 or 14 |
| 308. | letter/ |
| 309. | editorial/ |
| 310. | news/ |
| 311. | exp historical article/ |

| | |
|------|--------------------------------------------------------------------------------------------------|
| 312. | Anecdotes as Topic/ |
| 313. | comment/ |
| 314. | case report/ |
| 315. | (letter or comment*).ti. |
| 316. | or/16-23 |
| 317. | randomized controlled trial/ or random*.ti,ab. |
| 318. | 24 not 25 |
| 319. | animals/ not humans/ |
| 320. | exp Animals, Laboratory/ |
| 321. | exp Animal Experimentation/ |
| 322. | exp Models, Animal/ |
| 323. | exp Rodentia/ |
| 324. | (rat or rats or mouse or mice or rodent*).ti. |
| 325. | or/26-32 |
| 326. | 15 not 33 |
| 327. | limit 34 to English language |
| 328. | economics/ |
| 329. | value of life/ |
| 330. | exp "costs and cost analysis"/ |
| 331. | exp Economics, Hospital/ |
| 332. | exp Economics, medical/ |
| 333. | Economics, nursing/ |
| 334. | economics, pharmaceutical/ |
| 335. | exp "Fees and Charges"/ |
| 336. | exp budgets/ |
| 337. | budget*.ti,ab. |
| 338. | cost*.ti. |
| 339. | (economic* or pharmaco?economic*).ti. |
| 340. | (price* or pricing*).ti,ab. |
| 341. | (cost* adj2 (effectiv* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab. |
| 342. | (financ* or fee or fees).ti,ab. |
| 343. | (value adj2 (money or monetary)).ti,ab. |
| 344. | or/36-51 |
| 345. | quality-adjusted life years/ |
| 346. | sickness impact profile/ |
| 347. | (quality adj2 (wellbeing or well being)).ti,ab. |
| 348. | sickness impact profile.ti,ab. |
| 349. | disability adjusted life.ti,ab. |
| 350. | (qal* or qtime* or qwb* or daly*).ti,ab. |
| 351. | (euroqol* or eq5d* or eq 5*).ti,ab. |
| 352. | (qol* or hql* or hqol* or h qol* or hrqol* or hr qol*).ti,ab. |
| 353. | (health utility* or utility score* or disutilit* or utility value*).ti,ab. |

| | |
|------|-------------------------------------------------------------------------------------------|
| 354. | (hui or hui1 or hui2 or hui3).ti,ab. |
| 355. | (health* year* equivalent* or hye or hyes).ti,ab. |
| 356. | discrete choice*.ti,ab. |
| 357. | rosser.ti,ab. |
| 358. | (willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab. |
| 359. | (sf36* or sf 36* or short form 36* or shortform 36* or shortform36*).ti,ab. |
| 360. | (sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab. |
| 361. | (sf12* or sf 12* or short form 12* or shortform 12* or shortform12*).ti,ab. |
| 362. | (sf8* or sf 8* or short form 8* or shortform 8* or shortform8*).ti,ab. |
| 363. | (sf6* or sf 6* or short form 6* or shortform 6* or shortform6*).ti,ab. |
| 364. | or/53-71 |
| 365. | 35 and (52 or 72) |

Embase (Ovid) search terms

| | |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 285. | exp Barrett esophagus/ |
| 286. | barrett*.ti,ab. |
| 287. | (speciali* adj3 (epithel* or oesophag* or esophag* or mucos*)).ti,ab. |
| 288. | (column* adj3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*)).ti,ab. |
| 289. | or/1-4 |
| 290. | Precancer/ |
| 291. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*).ti,ab. |
| 292. | 6 or 7 |
| 293. | exp Esophagus/ |
| 294. | Esophagus Mucosa/ |
| 295. | (oesophag* or esophag*).ti,ab. |
| 296. | or/9-11 |
| 297. | 8 and 12 |
| 298. | exp Esophagus Tumor/ |
| 299. | 5 or 13 or 14 |
| 300. | letter.pt. or letter/ |
| 301. | note.pt. |
| 302. | editorial.pt. |
| 303. | case report/ or case study/ |
| 304. | (letter or comment*).ti. |
| 305. | (conference abstract or conference paper).pt. |
| 306. | or/16-21 |
| 307. | randomized controlled trial/ or random*.ti,ab. |
| 308. | 22 not 23 |
| 309. | animal/ not human/ |
| 310. | nonhuman/ |
| 311. | exp Animal Experiment/ |
| 312. | exp Experimental Animal/ |

| | |
|------|--------------------------------------------------------------------------------------------------|
| 313. | animal model/ |
| 314. | exp Rodent/ |
| 315. | (rat or rats or mouse or mice or rodent*).ti. |
| 316. | or/24-31 |
| 317. | 15 not 32 |
| 318. | limit 33 to English language |
| 319. | health economics/ |
| 320. | exp economic evaluation/ |
| 321. | exp health care cost/ |
| 322. | exp fee/ |
| 323. | budget/ |
| 324. | funding/ |
| 325. | budget*.ti,ab. |
| 326. | cost*.ti. |
| 327. | (economic* or pharmaco?economic*).ti. |
| 328. | (price* or pricing*).ti,ab. |
| 329. | (cost* adj2 (effectiv* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab. |
| 330. | (financ* or fee or fees).ti,ab. |
| 331. | (value adj2 (money or monetary)).ti,ab. |
| 332. | or/35-47 |
| 333. | quality-adjusted life years/ |
| 334. | "quality of life index"/ |
| 335. | short form 12/ or short form 20/ or short form 36/ or short form 8/ |
| 336. | sickness impact profile/ |
| 337. | (quality adj2 (wellbeing or well being)).ti,ab. |
| 338. | sickness impact profile.ti,ab. |
| 339. | disability adjusted life.ti,ab. |
| 340. | (qal* or qtime* or qwb* or daly*).ti,ab. |
| 341. | (euroqol* or eq5d* or eq 5*).ti,ab. |
| 342. | (qol* or hql* or hqol* or h qol* or hrqol* or hr qol*).ti,ab. |
| 343. | (health utility* or utility score* or disutilit* or utility value*).ti,ab. |
| 344. | (hui or hui1 or hui2 or hui3).ti,ab. |
| 345. | (health* year* equivalent* or hye or hyes).ti,ab. |
| 346. | discrete choice*.ti,ab. |
| 347. | rosser.ti,ab. |
| 348. | (willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab. |
| 349. | (sf36* or sf 36* or short form 36* or shortform 36* or shortform36*).ti,ab. |
| 350. | (sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab. |
| 351. | (sf12* or sf 12* or short form 12* or shortform 12* or shortform12*).ti,ab. |
| 352. | (sf8* or sf 8* or short form 8* or shortform 8* or shortform8*).ti,ab. |
| 353. | (sf6* or sf 6* or short form 6* or shortform 6* or shortform6*).ti,ab. |
| 354. | or/49-69 |
| 355. | 34 and (48 or 70) |

NHS EED and HTA (CRD) search terms

| | |
|------|-----------------------------------------------------|
| #65. | MeSH DESCRIPTOR Barrett Esophagus EXPLODE ALL TREES |
|------|-----------------------------------------------------|

| | |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| #66. | (barrett*) |
| #67. | (speciali*) AND (epithel* or oesophag* or esophag* or mucos*) |
| #68. | (column*) AND (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*) |
| #69. | #1 OR #2 OR #3 OR #4 |
| #70. | MeSH DESCRIPTOR Precancerous Conditions EXPLODE ALL TREES |
| #71. | ((dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*)) |
| #72. | #6 OR #7 |
| #73. | MeSH DESCRIPTOR Esophagus EXPLODE ALL TREES |
| #74. | MeSH DESCRIPTOR Esophageal Mucosa EXPLODE ALL TREES |
| #75. | (oesophag* or esophag* or intramucosal* or intra-mucosal*) |
| #76. | #9 OR #10 OR #11 |
| #77. | #8 AND #12 |
| #78. | #5 OR #13 |
| #79. | MeSH DESCRIPTOR Esophageal Neoplasms EXPLODE ALL TREES |
| #80. | #14 OR #15 |

INAHTA search terms

| | |
|----|-----------------------------------------------------------------------|
| 1. | ("Barrett Esophagus"[mh]) OR (Barrett*) OR (Esophageal Neoplasms)[mh] |
|----|-----------------------------------------------------------------------|

A.6 3.1a Staging

This literature search strategy was used for the following review:

- To determine how different techniques for staging (endoscopic and radiological) affects the accuracy of the investigations for suspected stage 1 carcinoma

The literature searches for this review are detailed below and complied with the methodology outlined in Developing NICE guidelines: the manual.{NICE2014}

For more information, please see the Methodology review published as part of the accompanying documents for this guideline.

A.6.1 Clinical search literature search strategy

Searches were constructed using a PICO framework where population (P) terms were combined with Intervention (I) and in some cases Comparison (C) terms. Outcomes (O) are rarely used in search strategies as these concepts may not be indexed or described in the title or abstract and are therefore difficult to retrieve. Search filters were applied to the search where appropriate.

Table 1: Database parameters, filters and limits applied

| Database | Dates searched | Search filter used |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Medline (OVID) | 1946 – 28 April 2022 | Randomised controlled trials Systematic review studies Observational studies Diagnostic tests studies Exclusions (animal studies, letters, comments, editorials, case studies/reports) English language |
| Embase (OVID) | 1974 – 28 April 2022 | Randomised controlled trials Systematic review studies Observational studies Diagnostic tests studies Exclusions (animal studies, letters, comments, editorials, case studies/reports, conference abstracts) English language |
| The Cochrane Library (Wiley) | Cochrane Database of Systematic Reviews to Issue 4 of 12, April 2022 Cochrane Central Register of Controlled Trials to Issue 4 of 12, April 2022 | Exclusions (clinical trials, conference abstracts) |
| Epistemonikos (The Epistemonikos Foundation) | Inception to 28 April 2022 | Systematic review Exclusions (Cochrane reviews) |

Medline (Ovid) search terms

| | |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 433. | exp Barrett esophagus/ |
| 434. | barrett*.ti,ab. |
| 435. | (speciali* adj3 (epithel* or oesophag* or esophag* or mucos*)).ti,ab. |
| 436. | (column* adj3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*)).ti,ab. |
| 437. | (intestin* adj2 metaplas*).ti,ab. |
| 438. | or/1-5 |
| 439. | Precancerous conditions/ |
| 440. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*).ti,ab. |
| 441. | 7 or 8 |
| 442. | exp Esophagus/ |
| 443. | Esophageal Mucosa/ |
| 444. | (oesophag* or esophag* or intramucosal* or intra-mucosal*).ti,ab. |
| 445. | or/10-12 |
| 446. | 9 and 13 |
| 447. | exp Esophageal Neoplasms/ |
| 448. | 6 or 14 or 15 |
| 449. | letter/ |
| 450. | editorial/ |
| 451. | news/ |
| 452. | exp historical article/ |
| 453. | Anecdotes as Topic/ |
| 454. | comment/ |
| 455. | case report/ |
| 456. | (letter or comment*).ti. |
| 457. | or/17-24 |
| 458. | randomized controlled trial/ or random*.ti,ab. |
| 459. | 25 not 26 |
| 460. | animals/ not humans/ |
| 461. | exp Animals, Laboratory/ |
| 462. | exp Animal Experimentation/ |
| 463. | exp Models, Animal/ |
| 464. | exp Rodentia/ |
| 465. | (rat or rats or mouse or mice or rodent*).ti. |
| 466. | or/27-33 |
| 467. | 16 not 34 |
| 468. | limit 35 to English language |
| 469. | Neoplasm Staging/ |
| 470. | ((neoplasm* or cancer* or tumour* or tumor* or tnm*) adj2 (staging* or stage* or restage* or restaging* or understage* or understaging* or overstage* or overstaging* or classif*)).ti,ab,kf. |
| 471. | Endoscopy, Gastrointestinal/ or Esophagoscopy/ or Gastroscopy/ or Proctoscopy/ |

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| 472. | (endoscop* or esophagoscop* or esophagogastroduodenoscop* or esophagograph* or colonoscop* or proctoscop* or gastroscop* or spectroscop*).ti,ab,kf. |
| 473. | Colouring agents/ or Chromogenic Compounds/ or Fluorescent dyes/ or *Indigo Carmine/ |
| 474. | (chromoscop* or chromoendoscop* or high resolution colonoscop* or dye spray* or indigo carmine or acetic acid or narrow band imag*).ti,ab,kf. |
| 475. | Ultrasonography/ |
| 476. | Elasticity Imaging Techniques/ |
| 477. | Endosonography/ |
| 478. | Microscopy, Acoustic/ |
| 479. | Ultrasonography, Doppler/ or Ultrasonography, Doppler, Duplex/ or Ultrasonography, Doppler, Pulsed/ |
| 480. | (ultrasonograph* or ultrasound* or ultra sound* or sonograph* or sonogram* or echograph* or echotomograph* or elastography* or elastosonograph* or sonoelastograph* or doppler or endosonograph* or acoustic microscop* or mini probe* or miniprobe* or ultrasonic biomicroscop*).ti,ab,kf. |
| 481. | Tomography/ |
| 482. | exp Tomography, Emission-Computed/ |
| 483. | exp Tomography, X-Ray/ |
| 484. | tomograph*.ti,ab,kf. |
| 485. | tomodensitometry.ti,ab,kf. |
| 486. | exp Positron-Emission Tomography/ |
| 487. | exp Diffusion Magnetic Resonance Imaging/ |
| 488. | (Diffusion weighted or DWI).ti,ab,kf. |
| 489. | (CT or MDCT or CAT or PET or PETCT or SPECT).ti,ab,kf. |
| 490. | ((radioisotop* or isotop* or gamma camera) adj3 (scan* or imag*)).ti,ab,kf. |
| 491. | or/37-58 |
| 492. | 36 and 59 |
| 493. | randomized controlled trial.pt. |
| 494. | controlled clinical trial.pt. |
| 495. | randomi#ed.ab. |
| 496. | placebo.ab. |
| 497. | randomly.ab. |
| 498. | clinical trials as topic.sh. |
| 499. | trial.ti. |
| 500. | or/61-67 |
| 501. | Meta-Analysis/ |
| 502. | Meta-Analysis as Topic/ |
| 503. | (meta analy* or metanaly* or metaanaly* or meta regression).ti,ab. |
| 504. | ((systematic* or evidence*) adj3 (review* or overview*)).ti,ab. |
| 505. | (reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab. |
| 506. | (search strategy or search criteria or systematic search or study selection or data extraction).ab. |
| 507. | (search* adj4 literature).ab. |
| 508. | (medline or pubmed or cochrane or embase or psychlit or psyclit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab. |
| 509. | cochrane.jw. |
| 510. | ((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab. |

| | |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 511. | or/69-78 |
| 512. | exp "sensitivity and specificity"/ |
| 513. | (sensitivity or specificity).ti,ab. |
| 514. | ((pre test or pretest or post test) adj probability).ti,ab. |
| 515. | (predictive value* or PPV or NPV).ti,ab. |
| 516. | likelihood ratio*.ti,ab. |
| 517. | likelihood function/ |
| 518. | ((area under adj4 curve) or AUC).ti,ab. |
| 519. | (receive* operat* characteristic* or receive* operat* curve* or ROC curve*).ti,ab. |
| 520. | gold standard.ab. |
| 521. | exp Diagnostic errors/ |
| 522. | (false positiv* or false negativ*).ti,ab. |
| 523. | Diagnosis, Differential/ |
| 524. | (diagnos* adj3 (performance* or accurac* or utilit* or value* or efficien* or effectiveness or precision or validat* or validity or differential or error*)).ti,ab. |
| 525. | or/80-92 |
| 526. | Epidemiologic studies/ |
| 527. | Observational study/ |
| 528. | exp Cohort studies/ |
| 529. | (cohort adj (study or studies or analys* or data)).ti,ab. |
| 530. | ((follow up or observational or uncontrolled or non randomi#ed or epidemiologic*) adj (study or studies or data)).ti,ab. |
| 531. | ((longitudinal or retrospective or prospective) and (study or studies or review or analys* or cohort* or data)).ti,ab. |
| 532. | Controlled Before-After Studies/ |
| 533. | Historically Controlled Study/ |
| 534. | Interrupted Time Series Analysis/ |
| 535. | (before adj2 after adj2 (study or studies or data)).ti,ab. |
| 536. | exp case control study/ |
| 537. | case control*.ti,ab. |
| 538. | Cross-sectional studies/ |
| 539. | (cross sectional and (study or studies or review or analys* or cohort* or data)).ti,ab. |
| 540. | or/94-107 |
| 541. | 60 and (68 or 79 or 93 or 108) |

Embase (Ovid) search terms

| | |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 468. | exp Barrett esophagus/ |
| 469. | barrett*.ti,ab. |
| 470. | (speciali* adj3 (epithel* or oesophag* or esophag* or mucos*)).ti,ab. |
| 471. | (column* adj3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*)).ti,ab. |
| 472. | (intestin* adj2 metaplas*).ti,ab. |
| 473. | or/1-5 |
| 474. | Precancer/ |
| 475. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*).ti,ab. |
| 476. | 7 or 8 |

| | |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 477. | exp Esophagus/ |
| 478. | Esophagus Mucosa/ |
| 479. | (oesophag* or esophag*).ti,ab. |
| 480. | or/10-12 |
| 481. | 9 and 13 |
| 482. | exp Esophagus Tumor/ |
| 483. | 6 or 14 or 15 |
| 484. | letter.pt. or letter/ |
| 485. | note.pt. |
| 486. | editorial.pt. |
| 487. | case report/ or case study/ |
| 488. | (letter or comment*).ti. |
| 489. | (conference abstract or conference paper).pt. |
| 490. | or/17-22 |
| 491. | randomized controlled trial/ or random*.ti,ab. |
| 492. | 23 not 24 |
| 493. | animal/ not human/ |
| 494. | nonhuman/ |
| 495. | exp Animal Experiment/ |
| 496. | exp Experimental Animal/ |
| 497. | animal model/ |
| 498. | exp Rodent/ |
| 499. | (rat or rats or mouse or mice or rodent*).ti. |
| 500. | or/25-32 |
| 501. | 16 not 33 |
| 502. | limit 34 to English language |
| 503. | *cancer staging/ |
| 504. | ((neoplasm* or cancer* or tumour* or tumor* or tnm*) adj2 (staging* or stage* or restage* or restaging* or understage* or understaging* or overstage* or overstaging* or classif*).ti,ab,kf. |
| 505. | esophagogastroduodenoscopy/ or esophagography/ or esophagoscopy/ |
| 506. | (endoscop* or esophagoscop* or esophagogastroduodenoscop* or esophagograph* or colonoscop* or proctoscop* or gastroscop* or spectroscop*).ti,ab,kf. |
| 507. | *Colouring agent/ or *chromoendoscopy/ or *Indigo Carmine/ or *high resolution endoscopy/ or *magnifying endoscopy/ |
| 508. | (chromoscop* or chromoendoscop* or high resolution colonoscop* or dye spray* or indigo carmine or acetic acid or narrow band imag*).ti,ab,kf. |
| 509. | *Endoscopic ultrasonography/ or *Echography/ |
| 510. | *Elastograph/ or *Elastography/ |
| 511. | *Endoscopic ultrasonography/ |
| 512. | Microscopy, Acoustic/ |
| 513. | *Doppler Ultrasonography/ or *duplex Doppler ultrasonography/ or *pulsed Doppler ultrasonography/ |
| 514. | (ultrasonograph* or ultrasound* or ultra sound* or sonograph* or sonogram* or echograph* or echotomograph* or elastography* or elastosonograph* or sonoelastograph* or doppler or endosonograph* or acoustic microscop* or mini probe* or miniprobe* or ultrasonic biomicroscop*).ti,ab,kf. |
| 515. | *tomography/ |
| 516. | exp *computer assisted tomography/ or exp *emission tomography/ |

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| 517. | exp *whole body tomography/ or exp *x-ray tomography/ |
| 518. | tomograph*.ti,ab,kf. |
| 519. | tomodensitometry.ti,ab,kf. |
| 520. | *positron emission tomography/ or *computer assisted emission tomography/ or *positron emission tomography-computed tomography/ or *whole body pet/ |
| 521. | *diffusion weighted imaging/ |
| 522. | (Diffusion weighted or DWI).ti,ab,kf. |
| 523. | (CT or MDCT or CAT or PET or PETCT or SPECT).ti,ab,kf. |
| 524. | ((radioisotop* or isotop* or gamma camera) adj3 (scan* or imag*)).ti,ab,kf. |
| 525. | or/36-57 |
| 526. | 35 and 58 |
| 527. | random*.ti,ab. |
| 528. | factorial*.ti,ab. |
| 529. | (crossover* or cross over*).ti,ab. |
| 530. | ((doubl* or singl*) adj blind*).ti,ab. |
| 531. | (assign* or allocat* or volunteer* or placebo*).ti,ab. |
| 532. | crossover procedure/ |
| 533. | single blind procedure/ |
| 534. | randomized controlled trial/ |
| 535. | double blind procedure/ |
| 536. | or/60-68 |
| 537. | systematic review/ |
| 538. | Meta-Analysis/ |
| 539. | (meta analy* or metanaly* or metaanaly* or meta regression).ti,ab. |
| 540. | ((systematic* or evidence*) adj3 (review* or overview*)).ti,ab. |
| 541. | (reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab. |
| 542. | (search strategy or search criteria or systematic search or study selection or data extraction).ab. |
| 543. | (search* adj4 literature).ab. |
| 544. | (medline or pubmed or cochrane or embase or psychlit or psyclit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab. |
| 545. | cochrane.jw. |
| 546. | ((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab. |
| 547. | or/70-79 |
| 548. | exp "sensitivity and specificity"/ |
| 549. | (sensitivity or specificity).ti,ab. |
| 550. | ((pre test or pretest or post test) adj probability).ti,ab. |
| 551. | (predictive value* or PPV or NPV).ti,ab. |
| 552. | likelihood ratio*.ti,ab. |
| 553. | ((area under adj4 curve) or AUC).ti,ab. |
| 554. | (receive* operat* characteristic* or receive* operat* curve* or ROC curve*).ti,ab. |
| 555. | diagnostic accuracy/ |
| 556. | diagnostic test accuracy study/ |
| 557. | gold standard.ab. |
| 558. | exp diagnostic error/ |
| 559. | (false positiv* or false negativ*).ti,ab. |
| 560. | differential diagnosis/ |

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|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 561. | (diagnos* adj3 (performance* or accurac* or utilit* or value* or efficien* or effectiveness or precision or validat* or validity or differential or error*)).ti,ab. |
| 562. | or/81-94 |
| 563. | Clinical study/ |
| 564. | Observational study/ |
| 565. | Family study/ |
| 566. | Longitudinal study/ |
| 567. | Retrospective study/ |
| 568. | Prospective study/ |
| 569. | Cohort analysis/ |
| 570. | Follow-up/ |
| 571. | cohort*.ti,ab. |
| 572. | 103 and 104 |
| 573. | (cohort adj (study or studies or analys* or data)).ti,ab. |
| 574. | ((follow up or observational or uncontrolled or non randomi#ed or epidemiologic*) adj (study or studies or data)).ti,ab. |
| 575. | ((longitudinal or retrospective or prospective) and (study or studies or review or analys* or cohort* or data)).ti,ab. |
| 576. | (before adj2 after adj2 (study or studies or data)).ti,ab. |
| 577. | exp case control study/ |
| 578. | case control*.ti,ab. |
| 579. | cross-sectional study/ |
| 580. | (cross sectional and (study or studies or review or analys* or cohort* or data)).ti,ab. |
| 581. | or/96-102,105-113 |
| 582. | 59 and (69 or 80 or 95 or 114) |

Cochrane Library (Wiley) search terms

| | |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| #166. | MeSH descriptor: [Barrett Esophagus] explode all trees |
| #167. | barrett*.ti,ab |
| #168. | speciali* near/3 (epithel* or oesophag* or esophag* or mucos*):ti,ab |
| #169. | column* near/3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*):ti,ab |
| #170. | (intestin* near/2 metaplas*):ti,ab |
| #171. | (or #1-#5) |
| #172. | MeSH descriptor: [Precancerous Conditions] explode all trees |
| #173. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*):ti,ab |
| #174. | #7 or #8 |
| #175. | MeSH descriptor: [Esophagus] explode all trees |
| #176. | MeSH descriptor: [Esophageal Mucosa] explode all trees |
| #177. | (oesophag* or esophag* or intramucosal* or intra-mucosal*):ti,ab |
| #178. | (or #10-#12) |
| #179. | #9 and #13 |
| #180. | MeSH descriptor: [Esophageal Neoplasms] explode all trees |
| #181. | #6 or #14 or #15 |
| #182. | MeSH descriptor: [Neoplasm Staging] explode all trees |

| | |
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| #183. | ((neoplasm* or cancer* or tumour* or tumor* or tnm*) near/2 (staging* or stage* or restage* or restaging* or understage* or understaging* or overstage* or overstaging* or classif*)):ti,ab |
| #184. | MeSH descriptor: [Endoscopy, Gastrointestinal] this term only |
| #185. | MeSH descriptor: [Esophagoscopy] this term only |
| #186. | MeSH descriptor: [Gastrosocopy] this term only |
| #187. | MeSH descriptor: [Proctoscopy] this term only |
| #188. | (endoscop* or esophagoscop* or esophagogastroduodenoscop* or esophagograph* or colonoscop* or proctoscop* or gastroscop* or spectroscop*):ti,ab |
| #189. | MeSH descriptor: [Coloring Agents] this term only |
| #190. | MeSH descriptor: [Chromogenic Compounds] this term only |
| #191. | MeSH descriptor: [Fluorescent Dyes] this term only |
| #192. | MeSH descriptor: [Indigo Carmine] this term only |
| #193. | (chromoscop* or chromoendoscop* or high resolution colonoscop* or dye spray* or indigo carmine or acetic acid or narrow band imag*):ti,ab |
| #194. | MeSH descriptor: [Ultrasonography] this term only |
| #195. | MeSH descriptor: [Elasticity Imaging Techniques] this term only |
| #196. | MeSH descriptor: [Endosonography] this term only |
| #197. | MeSH descriptor: [Microscopy, Acoustic] this term only |
| #198. | MeSH descriptor: [Ultrasonography, Doppler] this term only |
| #199. | MeSH descriptor: [Ultrasonography, Doppler, Duplex] this term only |
| #200. | MeSH descriptor: [Ultrasonography, Doppler, Pulsed] this term only |
| #201. | (ultrasonograph* or ultrasound* or ultra sound* or sonograph* or sonogram* or echograph* or echotomograph* or elastography* or elastosonograph* or sonoelastograph* or doppler or endosonograph* or acoustic microscop* or mini probe* or miniprobe* or ultrasonic biomicroscop*):ti,ab |
| #202. | MeSH descriptor: [Tomography] this term only |
| #203. | MeSH descriptor: [Tomography, Emission-Computed] explode all trees |
| #204. | MeSH descriptor: [Tomography, X-Ray] explode all trees |
| #205. | tomograph*:ti,ab |
| #206. | tomodensitometry:ti,ab |
| #207. | MeSH descriptor: [Positron-Emission Tomography] explode all trees |
| #208. | MeSH descriptor: [Diffusion Magnetic Resonance Imaging] explode all trees |
| #209. | (Diffusion weighted or DWI):ti,ab |
| #210. | (CT or MDCT or CAT or PET or PETCT or SPECT):ti,ab |
| #211. | ((radioisotop* or isotop* or gamma camera) near/3 (scan* or imag*)):ti,ab |
| #212. | (or #17-#46) |
| #213. | #16 and #47 |
| #214. | conference:pt or (clinicaltrials or trialsearch):so |
| #215. | #48 not #49 |

Epistemonikos search terms

| | |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6. | (title:(Barrett* OR "oesophageal adenocarcinoma*" OR "esophageal adenocarcinoma*" OR "oesophageal cancer*" OR "esophageal cancer*" OR "oesophageal carcinoma*" OR "esophageal carcinoma*" OR "oesophageal metaplas*" OR "esophageal dysplas*" OR "column* epithel*" OR "intestin* metaplas*" OR "intestin* dysplas*")) OR abstract:(Barrett* OR "oesophageal adenocarcinoma*" OR "esophageal adenocarcinoma*" OR "oesophageal cancer*" OR "esophageal cancer*" OR "oesophageal carcinoma*" OR "esophageal carcinoma*" OR "oesophageal metaplas*" OR "esophageal dysplas*" OR "column* epithel*" OR "intestin* metaplas*" OR "intestin* dysplas*")) AND (title:(("neoplasm* classif*" OR "neoplasm* staging*" OR |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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| | <p>"cancer* classific*" OR "cancer* staging*" OR "tumour* classific*" OR "tumour* staging*" OR "tumor* classific*" OR "tumor* staging*" OR "classif* staging*" OR cancer* OR "tnm* classific*" OR "tnm* staging*" OR endoscop* OR esophagoscop* OR esophagogastroduodenoscop* OR esophagograph* OR colonoscop* OR proctoscop* OR gastroscop* OR spectroscop* OR chromoscop* OR chromoendoscop* OR "high resolution colonoscop*" OR "dye spray*" OR "indigo carmine" OR "acetic acid" OR "narrow band imag*" OR ultrasonograph* OR ultrasound* OR "ultra sound*" OR sonograph* OR sonogram* OR echograph* OR echotomograph* OR elastography* OR elastosonograph* OR sonoelastograph* OR doppler OR endosonograph* OR "acoustic microscop*" OR "mini probe*" OR "miniprobe*" OR "ultrasonic biomicroscop*" OR tomograph* OR tomodensitometry OR "Diffusion Magnetic Resonance Imaging" OR "Diffusion weighted") OR abstract:("neoplasm* classific*" OR "neoplasm* staging*" OR "cancer* classific*" OR "cancer* staging*" OR "tumour* classific*" OR "tumour* staging*" OR "tumor* classific*" OR "tumor* staging*" OR "classif* staging*" OR cancer* OR "tnm* classific*" OR "tnm* staging*" OR endoscop* OR esophagoscop* OR esophagogastroduodenoscop* OR esophagograph* OR colonoscop* OR proctoscop* OR gastroscop* OR spectroscop* OR chromoscop* OR chromoendoscop* OR "high resolution colonoscop*" OR "dye spray*" OR "indigo carmine" OR "acetic acid" OR "narrow band imag*" OR ultrasonograph* OR ultrasound* OR "ultra sound*" OR sonograph* OR sonogram* OR echograph* OR echotomograph* OR elastography* OR elastosonograph* OR sonoelastograph* OR doppler OR endosonograph* OR "acoustic microscop*" OR "mini probe*" OR "miniprobe*" OR "ultrasonic biomicroscop*" OR tomograph* OR tomodensitometry OR "Diffusion Magnetic Resonance Imaging" OR "Diffusion weighted")</p> |
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A.6.2 Health Economics literature search strategy

Health economic evidence was identified by conducting searches using terms for a broad Barrett's Oesophagus population. The following databases were searched: NHS Economic Evaluation Database (NHS EED - this ceased to be updated after 31st March 2015), Health Technology Assessment database (HTA - this ceased to be updated from 31st March 2018) and The International Network of Agencies for Health Technology Assessment (INAHTA). Searches for recent evidence were run on Medline and Embase from 2014 onwards for health economics, and all years for quality-of-life studies.

Table 2: Database parameters, filters and limits applied

| Database | Dates searched | Search filters and limits applied |
|----------------|----------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| Medline (OVID) | Health Economics 1 January 2014 – 29 April 2022 | Health economics studies Quality of life studies |
| | Quality of Life 1946 – 29 April 2022 | Exclusions (animal studies, letters, comments, editorials, case studies/reports) |
| Embase (OVID) | Health Economics 1 January 2014 – 29 April 2022 | Health economics studies Quality of life studies |
| | Quality of Life 1974 – 29 April 2022 | Exclusions (animal studies, letters, comments, editorials, case studies/reports, conference abstracts) |

| Database | Dates searched | Search filters and limits applied |
|----------------------------------------------------------------------------------------------|-----------------------------------------|-----------------------------------|
| | | English language |
| NHS Economic Evaluation Database (NHS EED) (Centre for Research and Dissemination - CRD) | Inception –31 st March 2015 | |
| Health Technology Assessment Database (HTA) (Centre for Research and Dissemination – CRD) | Inception – 31 st March 2018 | |
| The International Network of Agencies for Health Technology Assessment (INAHTA) | Inception - 29 April 2022 | English language |

Medline (Ovid) search terms

| | |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 366. | exp Barrett esophagus/ |
| 367. | barrett*.ti,ab. |
| 368. | (speciali* adj3 (epithel* or oesophag* or esophag* or mucos*)).ti,ab. |
| 369. | (column* adj3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*)).ti,ab. |
| 370. | or/1-4 |
| 371. | Precancerous conditions/ |
| 372. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*).ti,ab. |
| 373. | 6 or 7 |
| 374. | exp Esophagus/ |
| 375. | Esophageal Mucosa/ |
| 376. | (oesophag* or esophag* or intramucosal* or intra-mucosal*).ti,ab. |
| 377. | or/9-11 |
| 378. | 8 and 12 |
| 379. | exp Esophageal Neoplasms/ |
| 380. | 5 or 13 or 14 |
| 381. | letter/ |
| 382. | editorial/ |
| 383. | news/ |
| 384. | exp historical article/ |
| 385. | Anecdotes as Topic/ |
| 386. | comment/ |

| | |
|------|--------------------------------------------------------------------------------------------------|
| 387. | case report/ |
| 388. | (letter or comment*).ti. |
| 389. | or/16-23 |
| 390. | randomized controlled trial/ or random*.ti,ab. |
| 391. | 24 not 25 |
| 392. | animals/ not humans/ |
| 393. | exp Animals, Laboratory/ |
| 394. | exp Animal Experimentation/ |
| 395. | exp Models, Animal/ |
| 396. | exp Rodentia/ |
| 397. | (rat or rats or mouse or mice or rodent*).ti. |
| 398. | or/26-32 |
| 399. | 15 not 33 |
| 400. | limit 34 to English language |
| 401. | economics/ |
| 402. | value of life/ |
| 403. | exp "costs and cost analysis"/ |
| 404. | exp Economics, Hospital/ |
| 405. | exp Economics, medical/ |
| 406. | Economics, nursing/ |
| 407. | economics, pharmaceutical/ |
| 408. | exp "Fees and Charges"/ |
| 409. | exp budgets/ |
| 410. | budget*.ti,ab. |
| 411. | cost*.ti. |
| 412. | (economic* or pharmaco?economic*).ti. |
| 413. | (price* or pricing*).ti,ab. |
| 414. | (cost* adj2 (effectiv* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab. |
| 415. | (financ* or fee or fees).ti,ab. |
| 416. | (value adj2 (money or monetary)).ti,ab. |
| 417. | or/36-51 |
| 418. | quality-adjusted life years/ |
| 419. | sickness impact profile/ |
| 420. | (quality adj2 (wellbeing or well being)).ti,ab. |
| 421. | sickness impact profile.ti,ab. |
| 422. | disability adjusted life.ti,ab. |
| 423. | (qal* or qtime* or qwb* or daly*).ti,ab. |
| 424. | (euroqol* or eq5d* or eq 5*).ti,ab. |
| 425. | (qol* or hql* or hqol* or h qol* or hrqol* or hr qol*).ti,ab. |
| 426. | (health utility* or utility score* or disutilit* or utility value*).ti,ab. |
| 427. | (hui or hui1 or hui2 or hui3).ti,ab. |
| 428. | (health* year* equivalent* or hye or hyes).ti,ab. |

| | |
|------|-------------------------------------------------------------------------------------------|
| 429. | discrete choice*.ti,ab. |
| 430. | rosser.ti,ab. |
| 431. | (willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab. |
| 432. | (sf36* or sf 36* or short form 36* or shortform 36* or shortform36*).ti,ab. |
| 433. | (sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab. |
| 434. | (sf12* or sf 12* or short form 12* or shortform 12* or shortform12*).ti,ab. |
| 435. | (sf8* or sf 8* or short form 8* or shortform 8* or shortform8*).ti,ab. |
| 436. | (sf6* or sf 6* or short form 6* or shortform 6* or shortform6*).ti,ab. |
| 437. | or/53-71 |
| 438. | 35 and (52 or 72) |

Embase (Ovid) search terms

| | |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 356. | exp Barrett esophagus/ |
| 357. | barrett*.ti,ab. |
| 358. | (speciali* adj3 (epithel* or oesophag* or esophag* or mucos*)).ti,ab. |
| 359. | (column* adj3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*)).ti,ab. |
| 360. | or/1-4 |
| 361. | Precancer/ |
| 362. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*).ti,ab. |
| 363. | 6 or 7 |
| 364. | exp Esophagus/ |
| 365. | Esophagus Mucosa/ |
| 366. | (oesophag* or esophag*).ti,ab. |
| 367. | or/9-11 |
| 368. | 8 and 12 |
| 369. | exp Esophagus Tumor/ |
| 370. | 5 or 13 or 14 |
| 371. | letter.pt. or letter/ |
| 372. | note.pt. |
| 373. | editorial.pt. |
| 374. | case report/ or case study/ |
| 375. | (letter or comment*).ti. |
| 376. | (conference abstract or conference paper).pt. |
| 377. | or/16-21 |
| 378. | randomized controlled trial/ or random*.ti,ab. |
| 379. | 22 not 23 |
| 380. | animal/ not human/ |
| 381. | nonhuman/ |
| 382. | exp Animal Experiment/ |
| 383. | exp Experimental Animal/ |
| 384. | animal model/ |
| 385. | exp Rodent/ |
| 386. | (rat or rats or mouse or mice or rodent*).ti. |

| | |
|------|--------------------------------------------------------------------------------------------------|
| 387. | or/24-31 |
| 388. | 15 not 32 |
| 389. | limit 33 to English language |
| 390. | health economics/ |
| 391. | exp economic evaluation/ |
| 392. | exp health care cost/ |
| 393. | exp fee/ |
| 394. | budget/ |
| 395. | funding/ |
| 396. | budget*.ti,ab. |
| 397. | cost*.ti. |
| 398. | (economic* or pharmaco?economic*).ti. |
| 399. | (price* or pricing*).ti,ab. |
| 400. | (cost* adj2 (effectiv* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab. |
| 401. | (financ* or fee or fees).ti,ab. |
| 402. | (value adj2 (money or monetary)).ti,ab. |
| 403. | or/35-47 |
| 404. | quality-adjusted life years/ |
| 405. | "quality of life index"/ |
| 406. | short form 12/ or short form 20/ or short form 36/ or short form 8/ |
| 407. | sickness impact profile/ |
| 408. | (quality adj2 (wellbeing or well being)).ti,ab. |
| 409. | sickness impact profile.ti,ab. |
| 410. | disability adjusted life.ti,ab. |
| 411. | (qal* or qtime* or qwb* or daly*).ti,ab. |
| 412. | (euroqol* or eq5d* or eq 5*).ti,ab. |
| 413. | (qol* or hqi* or hqol* or h qol* or hrqol* or hr qol*).ti,ab. |
| 414. | (health utility* or utility score* or disutilit* or utility value*).ti,ab. |
| 415. | (hui or hui1 or hui2 or hui3).ti,ab. |
| 416. | (health* year* equivalent* or hye or hyes).ti,ab. |
| 417. | discrete choice*.ti,ab. |
| 418. | rosser.ti,ab. |
| 419. | (willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab. |
| 420. | (sf36* or sf 36* or short form 36* or shortform 36* or shortform36*).ti,ab. |
| 421. | (sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab. |
| 422. | (sf12* or sf 12* or short form 12* or shortform 12* or shortform12*).ti,ab. |
| 423. | (sf8* or sf 8* or short form 8* or shortform 8* or shortform8*).ti,ab. |
| 424. | (sf6* or sf 6* or short form 6* or shortform 6* or shortform6*).ti,ab. |
| 425. | or/49-69 |
| 426. | 34 and (48 or 70) |

NHS EED and HTA (CRD) search terms

| | |
|------|---------------------------------------------------------------|
| #81. | MeSH DESCRIPTOR Barrett Esophagus EXPLODE ALL TREES |
| #82. | (barrett*) |
| #83. | (speciali*) AND (epithel* or oesophag* or esophag* or mucos*) |

| | |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| #84. | (column*) AND (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*) |
| #85. | #1 OR #2 OR #3 OR #4 |
| #86. | MeSH DESCRIPTOR Precancerous Conditions EXPLODE ALL TREES |
| #87. | ((dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*)) |
| #88. | #6 OR #7 |
| #89. | MeSH DESCRIPTOR Esophagus EXPLODE ALL TREES |
| #90. | MeSH DESCRIPTOR Esophageal Mucosa EXPLODE ALL TREES |
| #91. | (oesophag* or esophag* or intramucosal* or intra-mucosal*) |
| #92. | #9 OR #10 OR #11 |
| #93. | #8 AND #12 |
| #94. | #5 OR #13 |
| #95. | MeSH DESCRIPTOR Esophageal Neoplasms EXPLODE ALL TREES |
| #96. | #14 OR #15 |

INAHTA search terms

| | |
|----|-----------------------------------------------------------------------|
| 1. | ("Barrett Esophagus"[mh]) OR (Barrett*) OR (Esophageal Neoplasms)[mh] |
|----|-----------------------------------------------------------------------|

A.7 3.1b Staging

This literature search strategy was used for the following review:

- For adults with suspected stage 1 carcinoma, what is the clinical and cost effectiveness of different endoscopic and radiological staging techniques?

The literature searches for this review are detailed below and complied with the methodology outlined in Developing NICE guidelines: the manual. {NICE2014}

For more information, please see the Methodology review published as part of the accompanying documents for this guideline.

A.7.1 Clinical search literature search strategy

Searches were constructed using a PICO framework where population (P) terms were combined with Intervention (I) and in some cases Comparison (C) terms. Outcomes (O) are rarely used in search strategies as these concepts may not be indexed or described in the title or abstract and are therefore difficult to retrieve. Search filters were applied to the search where appropriate.

Table 1: Database parameters, filters and limits applied

| Database | Dates searched | Search filter used |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Medline (OVID) | 1946 – 28 April 2022 | Randomised controlled trials Systematic review studies Exclusions (animal studies, letters, comments, editorials, case studies/reports) English language |
| Embase (OVID) | 1974 – 28 April 2022 | Randomised controlled trials Systematic review studies Exclusions (animal studies, letters, comments, editorials, case studies/reports, conference abstracts) English language |
| The Cochrane Library (Wiley) | Cochrane Database of Systematic Reviews to Issue 4 of 12, April 2022 Cochrane Central Register of Controlled Trials to Issue 4 of 12, April 2022 | Exclusions (clinical trials, conference abstracts) |
| Epistemonikos (The Epistemonikos Foundation) | Inception to 28 April 2022 | Systematic review Exclusions (Cochrane reviews) |

Medline (Ovid) search terms

| | |
|------|------------------------|
| 542. | exp Barrett esophagus/ |
|------|------------------------|

| | |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 543. | barrett*.ti,ab. |
| 544. | (speciali* adj3 (epithel* or oesophag* or esophag* or mucos*)).ti,ab. |
| 545. | (column* adj3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*)).ti,ab. |
| 546. | (intestin* adj2 metaplas*).ti,ab. |
| 547. | or/1-5 |
| 548. | Precancerous conditions/ |
| 549. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*).ti,ab. |
| 550. | 7 or 8 |
| 551. | exp Esophagus/ |
| 552. | Esophageal Mucosa/ |
| 553. | (oesophag* or esophag* or intramucosal* or intra-mucosal*).ti,ab. |
| 554. | or/10-12 |
| 555. | 9 and 13 |
| 556. | exp Esophageal Neoplasms/ |
| 557. | 6 or 14 or 15 |
| 558. | letter/ |
| 559. | editorial/ |
| 560. | news/ |
| 561. | exp historical article/ |
| 562. | Anecdotes as Topic/ |
| 563. | comment/ |
| 564. | case report/ |
| 565. | (letter or comment*).ti. |
| 566. | or/17-24 |
| 567. | randomized controlled trial/ or random*.ti,ab. |
| 568. | 25 not 26 |
| 569. | animals/ not humans/ |
| 570. | exp Animals, Laboratory/ |
| 571. | exp Animal Experimentation/ |
| 572. | exp Models, Animal/ |
| 573. | exp Rodentia/ |
| 574. | (rat or rats or mouse or mice or rodent*).ti. |
| 575. | or/27-33 |
| 576. | 16 not 34 |
| 577. | limit 35 to English language |
| 578. | Neoplasm Staging/ |
| 579. | ((neoplasm* or cancer* or tumour* or tumor* or tnm*) adj2 (staging* or stage* or restage* or restaging* or understage* or understaging* or overstage* or overstaging* or classif*)).ti,ab,kf. |
| 580. | Endoscopy, Gastrointestinal/ or Esophagoscopy/ or Gastroscopy/ or Proctoscopy/ |
| 581. | (endoscop* or esophagoscop* or esophagogastroduodenoscop* or esophagograph* or colonoscop* or proctoscop* or gastroscop* or spectroscop*).ti,ab,kf. |
| 582. | Colouring agents/ or Chromogenic Compounds/ or Fluorescent dyes/ or *Indigo Carmine/ |

| | |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 583. | (chromoscop* or chromoendoscop* or high resolution colonoscop* or dye spray* or indigo carmine or acetic acid or narrow band imag*).ti,ab,kf. |
| 584. | Ultrasonography/ |
| 585. | Elasticity Imaging Techniques/ |
| 586. | Endosonography/ |
| 587. | Microscopy, Acoustic/ |
| 588. | Ultrasonography, Doppler/ or Ultrasonography, Doppler, Duplex/ or Ultrasonography, Doppler, Pulsed/ |
| 589. | (ultrasonograph* or ultrasound* or ultra sound* or sonograph* or sonogram* or echograph* or echotomograph* or elastography* or elastosonograph* or sonoelastograph* or doppler or endosonograph* or acoustic microscop* or mini probe* or miniprobe* or ultrasonic biomicroscop*).ti,ab,kf. |
| 590. | Tomography/ |
| 591. | exp Tomography, Emission-Computed/ |
| 592. | exp Tomography, X-Ray/ |
| 593. | tomograph*.ti,ab,kf. |
| 594. | tomodensitometry.ti,ab,kf. |
| 595. | exp Positron-Emission Tomography/ |
| 596. | exp Diffusion Magnetic Resonance Imaging/ |
| 597. | (Diffusion weighted or DWI).ti,ab,kf. |
| 598. | (CT or MDCT or CAT or PET or PETCT or SPECT).ti,ab,kf. |
| 599. | ((radioisotop* or isotop* or gamma camera) adj3 (scan* or imag*)).ti,ab,kf. |
| 600. | or/37-58 |
| 601. | 36 and 59 |
| 602. | randomized controlled trial.pt. |
| 603. | controlled clinical trial.pt. |
| 604. | randomi#ed.ab. |
| 605. | placebo.ab. |
| 606. | randomly.ab. |
| 607. | clinical trials as topic.sh. |
| 608. | trial.ti. |
| 609. | or/61-67 |
| 610. | Meta-Analysis/ |
| 611. | Meta-Analysis as Topic/ |
| 612. | (meta analy* or metanaly* or metaanaly* or meta regression).ti,ab. |
| 613. | ((systematic* or evidence*) adj3 (review* or overview*)).ti,ab. |
| 614. | (reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab. |
| 615. | (search strategy or search criteria or systematic search or study selection or data extraction).ab. |
| 616. | (search* adj4 literature).ab. |
| 617. | (medline or pubmed or cochrane or embase or psychlit or psyclit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab. |
| 618. | cochrane.jw. |
| 619. | ((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab. |
| 620. | or/69-78 |
| 621. | 60 and (68 or 79) |

Embase (Ovid) search terms

| | |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 583. | exp Barrett esophagus/ |
| 584. | barrett*.ti,ab. |
| 585. | (speciali* adj3 (epithel* or oesophag* or esophag* or mucos*)).ti,ab. |
| 586. | (column* adj3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*)).ti,ab. |
| 587. | (intestin* adj2 metaplas*).ti,ab. |
| 588. | or/1-5 |
| 589. | Precancer/ |
| 590. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*).ti,ab. |
| 591. | 7 or 8 |
| 592. | exp Esophagus/ |
| 593. | Esophagus Mucosa/ |
| 594. | (oesophag* or esophag*).ti,ab. |
| 595. | or/10-12 |
| 596. | 9 and 13 |
| 597. | exp Esophagus Tumor/ |
| 598. | 6 or 14 or 15 |
| 599. | letter.pt. or letter/ |
| 600. | note.pt. |
| 601. | editorial.pt. |
| 602. | case report/ or case study/ |
| 603. | (letter or comment*).ti. |
| 604. | (conference abstract or conference paper).pt. |
| 605. | or/17-22 |
| 606. | randomized controlled trial/ or random*.ti,ab. |
| 607. | 23 not 24 |
| 608. | animal/ not human/ |
| 609. | nonhuman/ |
| 610. | exp Animal Experiment/ |
| 611. | exp Experimental Animal/ |
| 612. | animal model/ |
| 613. | exp Rodent/ |
| 614. | (rat or rats or mouse or mice or rodent*).ti. |
| 615. | or/25-32 |
| 616. | 16 not 33 |
| 617. | limit 34 to English language |
| 618. | *cancer staging/ |
| 619. | ((neoplasm* or cancer* or tumour* or tumor* or tnm*) adj2 (staging* or stage* or restage* or restaging* or understage* or understaging* or overstage* or overstaging* or classif*)).ti,ab,kf. |
| 620. | esophagogastroduodenoscopy/ or esophagography/ or esophagoscopy/ |
| 621. | (endoscop* or esophagoscop* or esophagogastroduodenoscop* or esophagograph* or colonoscop* or proctoscop* or gastroscop* or spectroscop*).ti,ab,kf. |
| 622. | *Colouring agent/ or *chromoendoscopy/ or *Indigo Carmine/ or *high resolution endoscopy/ or *magnifying endoscopy/ |

| | |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 623. | (chromoscop* or chromoendoscop* or high resolution colonoscop* or dye spray* or indigo carmine or acetic acid or narrow band imag*).ti,ab,kf. |
| 624. | *Endoscopic ultrasonography/ or *Echography/ |
| 625. | *Elastograph/ or *Elastography/ |
| 626. | *Endoscopic ultrasonography/ |
| 627. | Microscopy, Acoustic/ |
| 628. | *Doppler Ultrasonography/ or *duplex Doppler ultrasonography/ or *pulsed Doppler ultrasonography/ |
| 629. | (ultrasonograph* or ultrasound* or ultra sound* or sonograph* or sonogram* or echograph* or echotomograph* or elastography* or elastosonograph* or sonoelastograph* or doppler or endosonograph* or acoustic microscop* or mini probe* or miniprobe* or ultrasonic biomicroscop*).ti,ab,kf. |
| 630. | *tomography/ |
| 631. | exp *computer assisted tomography/ or exp *emission tomography/ |
| 632. | exp *whole body tomography/ or exp *x-ray tomography/ |
| 633. | tomograph*.ti,ab,kf. |
| 634. | tomodensitometry.ti,ab,kf. |
| 635. | *positron emission tomography/ or *computer assisted emission tomography/ or *positron emission tomography-computed tomography/ or *whole body pet/ |
| 636. | *diffusion weighted imaging/ |
| 637. | (Diffusion weighted or DWI).ti,ab,kf. |
| 638. | (CT or MDCT or CAT or PET or PETCT or SPECT).ti,ab,kf. |
| 639. | ((radioisotop* or isotop* or gamma camera) adj3 (scan* or imag*)).ti,ab,kf. |
| 640. | or/36-57 |
| 641. | 35 and 58 |
| 642. | random*.ti,ab. |
| 643. | factorial*.ti,ab. |
| 644. | (crossover* or cross over*).ti,ab. |
| 645. | ((doubl* or singl*) adj blind*).ti,ab. |
| 646. | (assign* or allocat* or volunteer* or placebo*).ti,ab. |
| 647. | crossover procedure/ |
| 648. | single blind procedure/ |
| 649. | randomized controlled trial/ |
| 650. | double blind procedure/ |
| 651. | or/60-68 |
| 652. | systematic review/ |
| 653. | Meta-Analysis/ |
| 654. | (meta analy* or metanaly* or metaanaly* or meta regression).ti,ab. |
| 655. | ((systematic* or evidence*) adj3 (review* or overview*)).ti,ab. |
| 656. | (reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab. |
| 657. | (search strategy or search criteria or systematic search or study selection or data extraction).ab. |
| 658. | (search* adj4 literature).ab. |
| 659. | (medline or pubmed or cochrane or embase or psychlit or psychlit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab. |
| 660. | cochrane.jw. |
| 661. | ((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab. |
| 662. | or/70-79 |

| | |
|------|-------------------|
| 663. | 59 and (69 or 80) |
|------|-------------------|

Cochrane Library (Wiley) search terms

| | |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| #216. | MeSH descriptor: [Barrett Esophagus] explode all trees |
| #217. | barrett*:ti,ab |
| #218. | speciali* near/3 (epithel* or oesophag* or esophag* or mucos*):ti,ab |
| #219. | column* near/3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*):ti,ab |
| #220. | (intestin* near/2 metaplas*):ti,ab |
| #221. | (or #1-#5) |
| #222. | MeSH descriptor: [Precancerous Conditions] explode all trees |
| #223. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*):ti,ab |
| #224. | #7 or #8 |
| #225. | MeSH descriptor: [Esophagus] explode all trees |
| #226. | MeSH descriptor: [Esophageal Mucosa] explode all trees |
| #227. | (oesophag* or esophag* or intramucosal* or intra-mucosal*):ti,ab |
| #228. | (or #10-#12) |
| #229. | #9 and #13 |
| #230. | MeSH descriptor: [Esophageal Neoplasms] explode all trees |
| #231. | #6 or #14 or #15 |
| #232. | MeSH descriptor: [Neoplasm Staging] explode all trees |
| #233. | ((neoplasm* or cancer* or tumour* or tumor* or tnm*) near/2 (staging* or stage* or restage* or restaging* or understage* or understaging* or overstage* or overstaging* or classif*)):ti,ab |
| #234. | MeSH descriptor: [Endoscopy, Gastrointestinal] this term only |
| #235. | MeSH descriptor: [Esophagoscopy] this term only |
| #236. | MeSH descriptor: [Gastrosocopy] this term only |
| #237. | MeSH descriptor: [Proctoscopy] this term only |
| #238. | (endoscop* or esophagoscop* or esophagogastroduodenoscop* or esophagograph* or colonoscop* or proctoscop* or gastroscop* or spectroscop*):ti,ab |
| #239. | MeSH descriptor: [Coloring Agents] this term only |
| #240. | MeSH descriptor: [Chromogenic Compounds] this term only |
| #241. | MeSH descriptor: [Fluorescent Dyes] this term only |
| #242. | MeSH descriptor: [Indigo Carmine] this term only |
| #243. | (chromoscop* or chromoendoscop* or high resolution colonoscop* or dye spray* or indigo carmine or acetic acid or narrow band imag*):ti,ab |
| #244. | MeSH descriptor: [Ultrasonography] this term only |
| #245. | MeSH descriptor: [Elasticity Imaging Techniques] this term only |
| #246. | MeSH descriptor: [Endosonography] this term only |
| #247. | MeSH descriptor: [Microscopy, Acoustic] this term only |
| #248. | MeSH descriptor: [Ultrasonography, Doppler] this term only |
| #249. | MeSH descriptor: [Ultrasonography, Doppler, Duplex] this term only |
| #250. | MeSH descriptor: [Ultrasonography, Doppler, Pulsed] this term only |
| #251. | (ultrasonograph* or ultrasound* or ultra sound* or sonograph* or sonogram* or echograph* or echotomograph* or elastography* or elastosonograph* or sonoelastograph* or doppler or endosonograph* or acoustic microscop* or mini probe* or miniprobe* or ultrasonic biomicroscop*):ti,ab |

| | |
|-------|---------------------------------------------------------------------------|
| #252. | MeSH descriptor: [Tomography] this term only |
| #253. | MeSH descriptor: [Tomography, Emission-Computed] explode all trees |
| #254. | MeSH descriptor: [Tomography, X-Ray] explode all trees |
| #255. | tomograph*.ti,ab |
| #256. | tomodensitometry:ti,ab |
| #257. | MeSH descriptor: [Positron-Emission Tomography] explode all trees |
| #258. | MeSH descriptor: [Diffusion Magnetic Resonance Imaging] explode all trees |
| #259. | (Diffusion weighted or DWI):ti,ab |
| #260. | (CT or MDCT or CAT or PET or PETCT or SPECT):ti,ab |
| #261. | ((radioisotop* or isotop* or gamma camera) near/3 (scan* or imag*)):ti,ab |
| #262. | (or #17-#46) |
| #263. | #16 and #47 |
| #264. | conference:pt or (clinicaltrials or trialsearch):so |
| #265. | #48 not #49 |

Epistemonikos search terms

| | |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7. | (title:(Barrett* OR "oesophageal adenocarcinoma*" OR "esophageal adenocarcinoma*" OR "oesophageal cancer*" OR "esophageal cancer*" OR "oesophageal carcinoma*" OR "esophageal carcinoma*" OR "oesophageal metaplas*" OR "esophageal dysplas*" OR "column* epithel*" OR "intestin* metaplas*" OR "intestin* dysplas*") OR abstract:(Barrett* OR "oesophageal adenocarcinoma*" OR "esophageal adenocarcinoma*" OR "oesophageal cancer*" OR "esophageal cancer*" OR "oesophageal carcinoma*" OR "esophageal carcinoma*" OR "oesophageal metaplas*" OR "esophageal dysplas*" OR "column* epithel*" OR "intestin* metaplas*" OR "intestin* dysplas*")) AND (title:(("neoplasm* classific*" OR "neoplasm* staging*" OR "cancer* classific*" OR "cancer* staging*" OR "tumour* classific*" OR "tumour* staging*" OR "tumor* classific*" OR "tumor* staging*" OR "classif* staging*" OR cancer* OR "tnm* classific*" OR "tnm* staging*" OR endoscop* OR esophagoscop* OR esophagogastroduodenoscop* OR esophagograph* OR colonoscop* OR proctoscop* OR gastroscop* OR spectroscop* OR chromoscop* OR chromoendoscop* OR "high resolution colonoscop*" OR "dye spray*" OR "indigo carmine" OR "acetic acid" OR "narrow band imag*" OR ultrasonograph* OR ultrasound* OR "ultra sound*" OR sonograph* OR sonogram* OR echograph* OR echotomograph* OR elastography* OR elastosonograph* OR sonoelastograph* OR doppler OR endosonograph* OR "acoustic microscop*" OR "mini probe*" OR "miniprobe*" OR "ultrasonic biomicroscop*" OR tomograph* OR tomodensitometry OR "Diffusion Magnetic Resonance Imaging" OR "Diffusion weighted") OR abstract:(("neoplasm* classific*" OR "neoplasm* staging*" OR "cancer* classific*" OR "cancer* staging*" OR "tumour* classific*" OR "tumour* staging*" OR "tumor* classific*" OR "tumor* staging*" OR "classif* staging*" OR cancer* OR "tnm* classific*" OR "tnm* staging*" OR endoscop* OR esophagoscop* OR esophagogastroduodenoscop* OR esophagograph* OR colonoscop* OR proctoscop* OR gastroscop* OR spectroscop* OR chromoscop* OR chromoendoscop* OR "high resolution colonoscop*" OR "dye spray*" OR "indigo carmine" OR "acetic acid" OR "narrow band imag*" OR ultrasonograph* OR ultrasound* OR "ultra sound*" OR sonograph* OR sonogram* OR echograph* OR echotomograph* OR elastography* OR elastosonograph* OR sonoelastograph* OR doppler OR endosonograph* OR "acoustic microscop*" OR "mini probe*" OR "miniprobe*" OR "ultrasonic biomicroscop*" OR tomograph* OR tomodensitometry OR "Diffusion Magnetic Resonance Imaging" OR "Diffusion weighted")) |
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A.7.2 Health Economics literature search strategy

Health economic evidence was identified by conducting searches using terms for a broad Barrett's Oesophagus population. The following databases were searched: NHS Economic

Evaluation Database (NHS EED - this ceased to be updated after 31st March 2015), Health Technology Assessment database (HTA - this ceased to be updated from 31st March 2018) and The International Network of Agencies for Health Technology Assessment (INAHTA). Searches for recent evidence were run on Medline and Embase from 2014 onwards for health economics, and all years for quality-of-life studies.

Table 2: Database parameters, filters and limits applied

| Database | Dates searched | Search filters and limits applied |
|----------------------------------------------------------------------------------------------|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Medline (OVID) | Health Economics 1 January 2014 – 29 April 2022 | Health economics studies Quality of life studies |
| | Quality of Life 1946 – 29 April 2022 | Exclusions (animal studies, letters, comments, editorials, case studies/reports) English language |
| Embase (OVID) | Health Economics 1 January 2014 – 29 April 2022 | Health economics studies Quality of life studies |
| | Quality of Life 1974 – 29 April 2022 | Exclusions (animal studies, letters, comments, editorials, case studies/reports, conference abstracts) English language |
| NHS Economic Evaluation Database (NHS EED) (Centre for Research and Dissemination - CRD) | Inception –31 st March 2015 | |
| Health Technology Assessment Database (HTA) (Centre for Research and Dissemination – CRD) | Inception – 31 st March 2018 | |
| The International Network of Agencies for Health Technology Assessment (INAHTA) | Inception - 29 April 2022 | English language |

Medline (Ovid) search terms

| | |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 439. | exp Barrett esophagus/ |
| 440. | barrett*.ti,ab. |
| 441. | (speciali* adj3 (epithel* or oesophag* or esophag* or mucos*)).ti,ab. |
| 442. | (column* adj3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*)).ti,ab. |
| 443. | or/1-4 |
| 444. | Precancerous conditions/ |
| 445. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or |

| | |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| | carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*).ti,ab. |
| 446. | 6 or 7 |
| 447. | exp Esophagus/ |
| 448. | Esophageal Mucosa/ |
| 449. | (oesophag* or esophag* or intramucosal* or intra-mucosal*).ti,ab. |
| 450. | or/9-11 |
| 451. | 8 and 12 |
| 452. | exp Esophageal Neoplasms/ |
| 453. | 5 or 13 or 14 |
| 454. | letter/ |
| 455. | editorial/ |
| 456. | news/ |
| 457. | exp historical article/ |
| 458. | Anecdotes as Topic/ |
| 459. | comment/ |
| 460. | case report/ |
| 461. | (letter or comment*).ti. |
| 462. | or/16-23 |
| 463. | randomized controlled trial/ or random*.ti,ab. |
| 464. | 24 not 25 |
| 465. | animals/ not humans/ |
| 466. | exp Animals, Laboratory/ |
| 467. | exp Animal Experimentation/ |
| 468. | exp Models, Animal/ |
| 469. | exp Rodentia/ |
| 470. | (rat or rats or mouse or mice or rodent*).ti. |
| 471. | or/26-32 |
| 472. | 15 not 33 |
| 473. | limit 34 to English language |
| 474. | economics/ |
| 475. | value of life/ |
| 476. | exp "costs and cost analysis"/ |
| 477. | exp Economics, Hospital/ |
| 478. | exp Economics, medical/ |
| 479. | Economics, nursing/ |
| 480. | economics, pharmaceutical/ |
| 481. | exp "Fees and Charges"/ |
| 482. | exp budgets/ |
| 483. | budget*.ti,ab. |
| 484. | cost*.ti. |
| 485. | (economic* or pharmaco?economic*).ti. |
| 486. | (price* or pricing*).ti,ab. |

| | |
|------|--------------------------------------------------------------------------------------------------|
| 487. | (cost* adj2 (effectiv* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab. |
| 488. | (financ* or fee or fees).ti,ab. |
| 489. | (value adj2 (money or monetary)).ti,ab. |
| 490. | or/36-51 |
| 491. | quality-adjusted life years/ |
| 492. | sickness impact profile/ |
| 493. | (quality adj2 (wellbeing or well being)).ti,ab. |
| 494. | sickness impact profile.ti,ab. |
| 495. | disability adjusted life.ti,ab. |
| 496. | (qal* or qtime* or qwb* or daly*).ti,ab. |
| 497. | (euroqol* or eq5d* or eq 5*).ti,ab. |
| 498. | (qol* or hql* or hqol* or h qol* or hrqol* or hr qol*).ti,ab. |
| 499. | (health utility* or utility score* or disutilit* or utility value*).ti,ab. |
| 500. | (hui or hui1 or hui2 or hui3).ti,ab. |
| 501. | (health* year* equivalent* or hye or hyes).ti,ab. |
| 502. | discrete choice*.ti,ab. |
| 503. | rosser.ti,ab. |
| 504. | (willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab. |
| 505. | (sf36* or sf 36* or short form 36* or shortform 36* or shortform36*).ti,ab. |
| 506. | (sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab. |
| 507. | (sf12* or sf 12* or short form 12* or shortform 12* or shortform12*).ti,ab. |
| 508. | (sf8* or sf 8* or short form 8* or shortform 8* or shortform8*).ti,ab. |
| 509. | (sf6* or sf 6* or short form 6* or shortform 6* or shortform6*).ti,ab. |
| 510. | or/53-71 |
| 511. | 35 and (52 or 72) |

Embase (Ovid) search terms

| | |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 427. | exp Barrett esophagus/ |
| 428. | barrett*.ti,ab. |
| 429. | (speciali* adj3 (epithel* or oesophag* or esophag* or mucos*)).ti,ab. |
| 430. | (column* adj3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*)).ti,ab. |
| 431. | or/1-4 |
| 432. | Precancer/ |
| 433. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*).ti,ab. |
| 434. | 6 or 7 |
| 435. | exp Esophagus/ |
| 436. | Esophagus Mucosa/ |
| 437. | (oesophag* or esophag*).ti,ab. |
| 438. | or/9-11 |
| 439. | 8 and 12 |
| 440. | exp Esophagus Tumor/ |

| | |
|------|--------------------------------------------------------------------------------------------------|
| 441. | 5 or 13 or 14 |
| 442. | letter.pt. or letter/ |
| 443. | note.pt. |
| 444. | editorial.pt. |
| 445. | case report/ or case study/ |
| 446. | (letter or comment*).ti. |
| 447. | (conference abstract or conference paper).pt. |
| 448. | or/16-21 |
| 449. | randomized controlled trial/ or random*.ti,ab. |
| 450. | 22 not 23 |
| 451. | animal/ not human/ |
| 452. | nonhuman/ |
| 453. | exp Animal Experiment/ |
| 454. | exp Experimental Animal/ |
| 455. | animal model/ |
| 456. | exp Rodent/ |
| 457. | (rat or rats or mouse or mice or rodent*).ti. |
| 458. | or/24-31 |
| 459. | 15 not 32 |
| 460. | limit 33 to English language |
| 461. | health economics/ |
| 462. | exp economic evaluation/ |
| 463. | exp health care cost/ |
| 464. | exp fee/ |
| 465. | budget/ |
| 466. | funding/ |
| 467. | budget*.ti,ab. |
| 468. | cost*.ti. |
| 469. | (economic* or pharmaco?economic*).ti. |
| 470. | (price* or pricing*).ti,ab. |
| 471. | (cost* adj2 (effectiv* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab. |
| 472. | (financ* or fee or fees).ti,ab. |
| 473. | (value adj2 (money or monetary)).ti,ab. |
| 474. | or/35-47 |
| 475. | quality-adjusted life years/ |
| 476. | "quality of life index"/ |
| 477. | short form 12/ or short form 20/ or short form 36/ or short form 8/ |
| 478. | sickness impact profile/ |
| 479. | (quality adj2 (wellbeing or well being)).ti,ab. |
| 480. | sickness impact profile.ti,ab. |
| 481. | disability adjusted life.ti,ab. |
| 482. | (qal* or qtime* or qw* or daly*).ti,ab. |
| 483. | (euroqol* or eq5d* or eq 5*).ti,ab. |
| 484. | (qol* or hqol* or hqol* or h qol* or hrqol* or hr qol*).ti,ab. |
| 485. | (health utility* or utility score* or disutilit* or utility value*).ti,ab. |
| 486. | (hui or hui1 or hui2 or hui3).ti,ab. |
| 487. | (health* year* equivalent* or hye or hyes).ti,ab. |

| | |
|------|-------------------------------------------------------------------------------------------|
| 488. | discrete choice*.ti,ab. |
| 489. | rosser.ti,ab. |
| 490. | (willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab. |
| 491. | (sf36* or sf 36* or short form 36* or shortform 36* or shortform36*).ti,ab. |
| 492. | (sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab. |
| 493. | (sf12* or sf 12* or short form 12* or shortform 12* or shortform12*).ti,ab. |
| 494. | (sf8* or sf 8* or short form 8* or shortform 8* or shortform8*).ti,ab. |
| 495. | (sf6* or sf 6* or short form 6* or shortform 6* or shortform6*).ti,ab. |
| 496. | or/49-69 |
| 497. | 34 and (48 or 70) |

NHS EED and HTA (CRD) search terms

| | |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| #97. | MeSH DESCRIPTOR Barrett Esophagus EXPLODE ALL TREES |
| #98. | (barrett*) |
| #99. | (speciali*) AND (epithel* or oesophag* or esophag* or mucos*) |
| #100. | (column*) AND (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*) |
| #101. | #1 OR #2 OR #3 OR #4 |
| #102. | MeSH DESCRIPTOR Precancerous Conditions EXPLODE ALL TREES |
| #103. | ((dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*)) |
| #104. | #6 OR #7 |
| #105. | MeSH DESCRIPTOR Esophagus EXPLODE ALL TREES |
| #106. | MeSH DESCRIPTOR Esophageal Mucosa EXPLODE ALL TREES |
| #107. | (oesophag* or esophag* or intramucosal* or intra-mucosal*) |
| #108. | #9 OR #10 OR #11 |
| #109. | #8 AND #12 |
| #110. | #5 OR #13 |
| #111. | MeSH DESCRIPTOR Esophageal Neoplasms EXPLODE ALL TREES |
| #112. | #14 OR #15 |

INAHTA search terms

| | |
|----|-----------------------------------------------------------------------|
| 1. | ("Barrett Esophagus"[mh]) OR (Barrett*) OR (Esophageal Neoplasms)[mh] |
|----|-----------------------------------------------------------------------|

A.8 4.1 4.2 Endoscopic therapies

This literature search strategy was used for the following reviews:

- For adults with Barrett's Oesophagus with low grade or indefinite dysplasia, what is the clinical and cost effectiveness of endoscopic treatments?
- For adults with stage 1 adenocarcinoma, what is the clinical and cost effectiveness of endoscopic treatments alone or in combination?

The literature searches for this review are detailed below and complied with the methodology outlined in Developing NICE guidelines: the manual. {NICE2014}

For more information, please see the Methodology review published as part of the accompanying documents for this guideline.

A.8.1 Clinical search literature search strategy

Searches were constructed using a PICO framework where population (P) terms were combined with Intervention (I) and in some cases Comparison (C) terms. Outcomes (O) are rarely used in search strategies as these concepts may not be indexed or described in the title or abstract and are therefore difficult to retrieve. Search filters were applied to the search where appropriate.

Table 1: Database parameters, filters and limits applied

| Database | Dates searched | Search filter used |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Medline (OVID) | 1946 – 26 April 2022 | Randomised controlled trials Systematic review studies Exclusions (animal studies, letters, comments, editorials, case studies/reports) English language |
| Embase (OVID) | 1974 – 26 April 2022 | Randomised controlled trials Systematic review studies Exclusions (animal studies, letters, comments, editorials, case studies/reports, conference abstracts) English language |
| The Cochrane Library (Wiley) | Cochrane Database of Systematic Reviews to Issue 4 of 12, April 2022 Cochrane Central Register of Controlled Trials to Issue 4 of 12, April 2022 | Exclusions (clinical trials, conference abstracts) |
| Epistemonikos (The Epistemonikos Foundation) | Inception to 26 April 2022 | Systematic review Exclusions (Cochrane reviews) |

Medline (Ovid) search terms

| | |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 622. | exp Barrett esophagus/ |
| 623. | barrett*.ti,ab. |
| 624. | (speciali* adj3 (epithel* or oesophag* or esophag* or mucos*)).ti,ab. |
| 625. | (column* adj3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*)).ti,ab. |
| 626. | (intestin* adj2 metaplas*).ti,ab. |
| 627. | or/1-5 |
| 628. | Precancerous conditions/ |
| 629. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*).ti,ab. |
| 630. | 7 or 8 |
| 631. | exp Esophagus/ |
| 632. | Esophageal Mucosa/ |
| 633. | (oesophag* or esophag* or intramucosal* or intra-mucosal*).ti,ab. |
| 634. | or/10-12 |
| 635. | 9 and 13 |
| 636. | exp Esophageal Neoplasms/ |
| 637. | 6 or 14 or 15 |
| 638. | letter/ |
| 639. | editorial/ |
| 640. | news/ |
| 641. | exp historical article/ |
| 642. | Anecdotes as Topic/ |
| 643. | comment/ |
| 644. | case report/ |
| 645. | (letter or comment*).ti. |
| 646. | or/17-24 |
| 647. | randomized controlled trial/ or random*.ti,ab. |
| 648. | 25 not 26 |
| 649. | animals/ not humans/ |
| 650. | exp Animals, Laboratory/ |
| 651. | exp Animal Experimentation/ |
| 652. | exp Models, Animal/ |
| 653. | exp Rodentia/ |
| 654. | (rat or rats or mouse or mice or rodent*).ti. |
| 655. | or/27-33 |
| 656. | 16 not 34 |
| 657. | limit 35 to english language |
| 658. | Endoscopy/ |
| 659. | (Endoscop* adj2 (treatment* or therap* or eradicat* or remov*)).ti,ab,kf. |
| 660. | endotherap*.ti,ab,kf. |
| 661. | EET.ti,ab. |
| 662. | Endoscopic Mucosal Resection/ |
| 663. | (Endoscop* adj3 (resect* or dissect*)).ti,ab,kf. |
| 664. | EndoRotor.ti,ab,kf. |
| 665. | (EMR or ESD).ti,ab. |

| | |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 666. | Ablation Techniques/ |
| 667. | exp Light Coagulation/ |
| 668. | exp Electrocoagulation/ |
| 669. | exp Radiofrequency Ablation/ |
| 670. | Photochemotherapy/ |
| 671. | Laser Therapy/ |
| 672. | Cryotherapy/ |
| 673. | Cryosurgery/ |
| 674. | ablati*.ti,ab,kf. |
| 675. | (laser adj2 (treatment* or therap*)).ti,ab,kf. |
| 676. | (photodynamic or photo dynamic or thermocoagulation or thermo coagulation or photocoagulation or photo coagulation or electrocoagulation or electro coagulation or photochemotherap* or photo chemotherap* or electrocauter* or thermoablati*).ti,ab,kf. |
| 677. | (cryotherap* or cryosurg* or cryoablati* or cryoballoon* or cryospray*).ti,ab,kf. |
| 678. | (argon plasma or Hybrid-APC or HybridAPC).ti,ab,kf. |
| 679. | Barrx.ti,ab,kf. |
| 680. | (RFA or APC or HPAC or CBA or PDT or MPEC).ti,ab. |
| 681. | or/37-59 |
| 682. | 36 and 60 |
| 683. | Meta-Analysis/ |
| 684. | Meta-Analysis as Topic/ |
| 685. | (meta analy* or metanaly* or metaanaly* or meta regression).ti,ab. |
| 686. | ((systematic* or evidence*) adj3 (review* or overview*)).ti,ab. |
| 687. | (reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab. |
| 688. | (search strategy or search criteria or systematic search or study selection or data extraction).ab. |
| 689. | (search* adj4 literature).ab. |
| 690. | (medline or pubmed or cochrane or embase or psychlit or psychlit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab. |
| 691. | cochrane.jw. |
| 692. | ((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab. |
| 693. | or/62-71 |
| 694. | randomized controlled trial.pt. |
| 695. | controlled clinical trial.pt. |
| 696. | randomi#ed.ab. |
| 697. | placebo.ab. |
| 698. | randomly.ab. |
| 699. | clinical trials as topic.sh. |
| 700. | trial.ti. |
| 701. | or/73-79 |
| 702. | 61 and (72 or 80) |

Embase (Ovid) search terms

| | |
|------|-----------------------------------------------------------------------------------------------------|
| 664. | exp Barrett esophagus/ |
| 665. | barrett*.ti,ab. |
| 666. | (speciali* adj3 (epithel* or oesophag* or esophag* or mucos*)).ti,ab. |
| 667. | (column* adj3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*)).ti,ab. |

| | |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 668. | (intestin* adj2 metaplas*).ti,ab. |
| 669. | or/1-5 |
| 670. | Precancer/ |
| 671. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*).ti,ab. |
| 672. | 7 or 8 |
| 673. | exp Esophagus/ |
| 674. | Esophagus Mucosa/ |
| 675. | (oesophag* or esophag*).ti,ab. |
| 676. | or/10-12 |
| 677. | 9 and 13 |
| 678. | exp Esophagus Tumor/ |
| 679. | 6 or 14 or 15 |
| 680. | letter.pt. or letter/ |
| 681. | note.pt. |
| 682. | editorial.pt. |
| 683. | case report/ or case study/ |
| 684. | (letter or comment*).ti. |
| 685. | (conference abstract or conference paper).pt. |
| 686. | or/17-22 |
| 687. | randomized controlled trial/ or random*.ti,ab. |
| 688. | 23 not 24 |
| 689. | animal/ not human/ |
| 690. | nonhuman/ |
| 691. | exp Animal Experiment/ |
| 692. | exp Experimental Animal/ |
| 693. | animal model/ |
| 694. | exp Rodent/ |
| 695. | (rat or rats or mouse or mice or rodent*).ti. |
| 696. | or/25-32 |
| 697. | 16 not 33 |
| 698. | limit 34 to english language |
| 699. | *Endoscopy/ |
| 700. | (Endoscop* adj2 (treatment* or therap* or eradicat* or remov*)).ti,ab,kf. |
| 701. | endotherap*.ti,ab,kf. |
| 702. | EET.ti,ab. |
| 703. | Endoscopic Mucosal Resection/ |
| 704. | (Endoscop* adj3 (resect* or dissect*)).ti,ab,kf. |
| 705. | EndoRotor.ti,ab,kf. |
| 706. | (EMR or ESD).ti,ab. |
| 707. | exp ablation therapy/ |
| 708. | laser coagulation/ |
| 709. | electrocoagulation/ |
| 710. | argon plasma coagulation/ |
| 711. | exp photochemotherapy/ |
| 712. | Laser Therapy/ |

| | |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 713. | Cryotherapy/ |
| 714. | Cryosurgery/ |
| 715. | cryoablation/ |
| 716. | ablati*.ti,ab,kf. |
| 717. | (laser adj2 (treatment* or therap*)).ti,ab,kf. |
| 718. | (photodynamic or photo dynamic or thermocoagulation or thermo coagulation or photocoagulation or photo coagulation or electrocoagulation or electro coagulation or photochemotherap* or photo chemotherap* or electrocauter* or thermoablati*).ti,ab,kf. |
| 719. | (cryotherap* or cryosurg* or cryoablati* or cryoballoon* or cryospray*).ti,ab,kf. |
| 720. | (argon plasma or Hybrid-APC or HybridAPC).ti,ab,kf. |
| 721. | Barrx.ti,ab,kf. |
| 722. | (RFA or APC or HPAC or CBA or PDT or MPEC).ti,ab. |
| 723. | or/36-59 |
| 724. | 35 and 60 |
| 725. | random*.ti,ab. |
| 726. | factorial*.ti,ab. |
| 727. | (crossover* or cross over*).ti,ab. |
| 728. | ((doubl* or singl*) adj blind*).ti,ab. |
| 729. | (assign* or allocat* or volunteer* or placebo*).ti,ab. |
| 730. | crossover procedure/ |
| 731. | single blind procedure/ |
| 732. | randomized controlled trial/ |
| 733. | double blind procedure/ |
| 734. | or/62-70 |
| 735. | Systematic Review/ |
| 736. | Meta-Analysis/ |
| 737. | (meta analy* or metanaly* or metaanaly* or meta regression).ti,ab. |
| 738. | ((systematic* or evidence*) adj3 (review* or overview*)).ti,ab. |
| 739. | (reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab. |
| 740. | (search strategy or search criteria or systematic search or study selection or data extraction).ab. |
| 741. | (search* adj4 literature).ab. |
| 742. | (medline or pubmed or cochrane or embase or psychlit or psyclit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab. |
| 743. | cochrane.jw. |
| 744. | ((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab. |
| 745. | or/72-81 |
| 746. | 61 and (71 or 82) |

Cochrane Library (Wiley) search terms

| | |
|-------|----------------------------------------------------------------------------------------------------|
| #266. | MeSH descriptor: [Barrett Esophagus] explode all trees |
| #267. | barrett*.ti,ab |
| #268. | speciali* near/3 (epithel* or oesophag* or esophag* or mucos*).ti,ab |
| #269. | column* near/3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*).ti,ab |
| #270. | (intestin* near/2 metaplas*).ti,ab |
| #271. | (or #1-#5) |
| #272. | MeSH descriptor: [Precancerous Conditions] explode all trees |

| | |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| #273. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*):ti,ab |
| #274. | #7 or #8 |
| #275. | MeSH descriptor: [Esophagus] explode all trees |
| #276. | MeSH descriptor: [Esophageal Mucosa] explode all trees |
| #277. | (oesophag* or esophag* or intramucosal* or intra-mucosal*):ti,ab |
| #278. | (or #10-#12) |
| #279. | #9 and #13 |
| #280. | MeSH descriptor: [Esophageal Neoplasms] explode all trees |
| #281. | #6 or #14 or #15 |
| #282. | MeSH descriptor: [Endoscopy] this term only |
| #283. | (Endoscop* near/2 (treatment* or therap* or eradicat* or remov*)):ti,ab,kw |
| #284. | endotherap*:ti,ab,kw |
| #285. | EET:ti,ab |
| #286. | MeSH descriptor: [Endoscopic Mucosal Resection] this term only |
| #287. | (Endoscop* near/3 (resect* or dissect*)):ti,ab,kw |
| #288. | EndoRotor:ti,ab,kw |
| #289. | (EMR or ESD):ti,ab |
| #290. | MeSH descriptor: [Ablation Techniques] this term only |
| #291. | MeSH descriptor: [Light Coagulation] explode all trees |
| #292. | MeSH descriptor: [Electrocoagulation] explode all trees |
| #293. | MeSH descriptor: [Radiofrequency Ablation] explode all trees |
| #294. | MeSH descriptor: [Photochemotherapy] this term only |
| #295. | MeSH descriptor: [Laser Therapy] this term only |
| #296. | MeSH descriptor: [Cryotherapy] this term only |
| #297. | MeSH descriptor: [Cryosurgery] this term only |
| #298. | ablati*:ti,ab,kw |
| #299. | (laser near/2 (treatment* or therap*)):ti,ab,kw |
| #300. | (photodynamic or photo dynamic or thermocoagulation or thermo coagulation or photocoagulation or photo coagulation or electrocoagulation or electro coagulation or photochemotherap* or photo chemotherap* or electrocauter* or thermoablati*):ti,ab,kw |
| #301. | (cryotherap* or cryosurg* or cryoablati* or cryoballoon* or cryospray*):ti,ab,kw |
| #302. | (argon plasma or Hybrid APC or HybridAPC):ti,ab,kw |
| #303. | Barrx:ti,ab,kw |
| #304. | (RFA or APC or HPAC or CBA or PDT or MPEC):ti,ab |
| #305. | (or #17-#39) |
| #306. | #16 and #40 |
| #307. | conference:pt or (clinicaltrials or trialsearch):so |
| #308. | #41 not #42 |

Epistemonikos search terms

| | |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8. | (title:(Barrett* OR "oesophageal adenocarcinoma*" OR "esophageal adenocarcinoma*" OR "oesophageal cancer*" OR "esophageal cancer*" OR "oesophageal carcinoma*" OR "esophageal carcinoma*" OR "oesophageal metaplas*" OR "esophageal dysplas*" OR "column* epithel*" OR "intestin* metaplas*" OR "intestin* dysplas*") OR abstract:(Barrett* OR "oesophageal adenocarcinoma*" OR "esophageal adenocarcinoma*" OR "oesophageal cancer*" OR "esophageal cancer*" OR "oesophageal carcinoma*" OR "esophageal carcinoma*" OR "oesophageal metaplas*" OR "esophageal metaplas*")) |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| | |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | <p>OR "esophageal dysplas*" OR "column* epithel*" OR "intestin* metaplas*" OR "intestin* dysplas*") AND (title:("endoscopic treatment*" OR "endoscopic therap*" OR "endoscopic eradicat*" OR "endoscopic remov*" OR endotherap* OR "endoscopic mucosal resection" OR "endoscopic submucosal dissection" OR EndoRotor OR ablati* OR "laser treatment*" OR "laser therap*" OR photodynamic OR "photo dynamic" OR thermocoagulation OR "thermo coagulation" OR photocoagulation OR "photo coagulation" OR electrocoagulation OR "electro coagulation" OR photochemotherap* OR "photo chemotherap*" OR electrocauter* OR thermoablati* OR cryotherap* OR cryosurg* OR cryoablati* OR cryoballoon* OR cryospray* OR "argon plasma" OR "Hybrid-APC" OR HybridAPC OR Barrx) OR abstract:("endoscopic treatment*" OR "endoscopic therap*" OR "endoscopic eradicat*" OR "endoscopic remov*" OR endotherap* OR "endoscopic mucosal resection" OR "endoscopic submucosal dissection" OR EndoRotor OR ablati* OR "laser treatment*" OR "laser therap*" OR photodynamic OR "photo dynamic" OR thermocoagulation OR "thermo coagulation" OR photocoagulation OR "photo coagulation" OR electrocoagulation OR "electro coagulation" OR photochemotherap* OR "photo chemotherap*" OR electrocauter* OR thermoablati* OR cryotherap* OR cryosurg* OR cryoablati* OR cryoballoon* OR cryospray* OR "argon plasma" OR "Hybrid-APC" OR HybridAPC OR Barrx)</p> |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

A.8.2 Health Economics literature search strategy

Health economic evidence was identified by conducting searches using terms for a broad Barrett's Oesophagus population. The following databases were searched: NHS Economic Evaluation Database (NHS EED - this ceased to be updated after 31st March 2015), Health Technology Assessment database (HTA - this ceased to be updated from 31st March 2018) and The International Network of Agencies for Health Technology Assessment (INAHTA). Searches for recent evidence were run on Medline and Embase from 2014 onwards for health economics, and all years for quality-of-life studies.

Table 2: Database parameters, filters and limits applied

| Database | Dates searched | Search filters and limits applied |
|---------------------------------------------------------------------------------------------|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Medline (OVID) | Health Economics 1 January 2014 – 29 April 2022 | Health economics studies Quality of life studies |
| | Quality of Life 1946 – 29 April 2022 | Exclusions (animal studies, letters, comments, editorials, case studies/reports) English language |
| Embase (OVID) | Health Economics 1 January 2014 – 29 April 2022 | Health economics studies Quality of life studies |
| | Quality of Life 1974 – 29 April 2022 | Exclusions (animal studies, letters, comments, editorials, case studies/reports, conference abstracts) English language |
| NHS Economic Evaluation Database (NHS EED) (Centre for Research and Dissemination - CRD) | Inception –31 st March 2015 | |

| Database | Dates searched | Search filters and limits applied |
|----------------------------------------------------------------------------------------------|-----------------------------------------|-----------------------------------|
| Health Technology Assessment Database (HTA) (Centre for Research and Dissemination – CRD) | Inception – 31 st March 2018 | |
| The International Network of Agencies for Health Technology Assessment (INAHTA) | Inception - 29 April 2022 | English language |

Medline (Ovid) search terms

| | |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 512. | exp Barrett esophagus/ |
| 513. | barrett*.ti,ab. |
| 514. | (speciali* adj3 (epithel* or oesophag* or esophag* or mucos*)).ti,ab. |
| 515. | (column* adj3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*)).ti,ab. |
| 516. | or/1-4 |
| 517. | Precancerous conditions/ |
| 518. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*).ti,ab. |
| 519. | 6 or 7 |
| 520. | exp Esophagus/ |
| 521. | Esophageal Mucosa/ |
| 522. | (oesophag* or esophag* or intramucosal* or intra-mucosal*).ti,ab. |
| 523. | or/9-11 |
| 524. | 8 and 12 |
| 525. | exp Esophageal Neoplasms/ |
| 526. | 5 or 13 or 14 |
| 527. | letter/ |
| 528. | editorial/ |
| 529. | news/ |
| 530. | exp historical article/ |
| 531. | Anecdotes as Topic/ |
| 532. | comment/ |
| 533. | case report/ |
| 534. | (letter or comment*).ti. |
| 535. | or/16-23 |
| 536. | randomized controlled trial/ or random*.ti,ab. |
| 537. | 24 not 25 |
| 538. | animals/ not humans/ |
| 539. | exp Animals, Laboratory/ |

| | |
|------|--------------------------------------------------------------------------------------------------|
| 540. | exp Animal Experimentation/ |
| 541. | exp Models, Animal/ |
| 542. | exp Rodentia/ |
| 543. | (rat or rats or mouse or mice or rodent*).ti. |
| 544. | or/26-32 |
| 545. | 15 not 33 |
| 546. | limit 34 to English language |
| 547. | economics/ |
| 548. | value of life/ |
| 549. | exp "costs and cost analysis"/ |
| 550. | exp Economics, Hospital/ |
| 551. | exp Economics, medical/ |
| 552. | Economics, nursing/ |
| 553. | economics, pharmaceutical/ |
| 554. | exp "Fees and Charges"/ |
| 555. | exp budgets/ |
| 556. | budget*.ti,ab. |
| 557. | cost*.ti. |
| 558. | (economic* or pharmaco?economic*).ti. |
| 559. | (price* or pricing*).ti,ab. |
| 560. | (cost* adj2 (effectiv* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab. |
| 561. | (financ* or fee or fees).ti,ab. |
| 562. | (value adj2 (money or monetary)).ti,ab. |
| 563. | or/36-51 |
| 564. | quality-adjusted life years/ |
| 565. | sickness impact profile/ |
| 566. | (quality adj2 (wellbeing or well being)).ti,ab. |
| 567. | sickness impact profile.ti,ab. |
| 568. | disability adjusted life.ti,ab. |
| 569. | (qal* or qtime* or qwb* or daly*).ti,ab. |
| 570. | (euroqol* or eq5d* or eq 5*).ti,ab. |
| 571. | (qol* or hql* or hqol* or h qol* or hrqol* or hr qol*).ti,ab. |
| 572. | (health utility* or utility score* or disutilit* or utility value*).ti,ab. |
| 573. | (hui or hui1 or hui2 or hui3).ti,ab. |
| 574. | (health* year* equivalent* or hye or hyes).ti,ab. |
| 575. | discrete choice*.ti,ab. |
| 576. | rosser.ti,ab. |
| 577. | (willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab. |
| 578. | (sf36* or sf 36* or short form 36* or shortform 36* or shortform36*).ti,ab. |
| 579. | (sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab. |
| 580. | (sf12* or sf 12* or short form 12* or shortform 12* or shortform12*).ti,ab. |
| 581. | (sf8* or sf 8* or short form 8* or shortform 8* or shortform8*).ti,ab. |

| | |
|------|------------------------------------------------------------------------|
| 582. | (sf6* or sf 6* or short form 6* or shortform 6* or shortform6*).ti,ab. |
| 583. | or/53-71 |
| 584. | 35 and (52 or 72) |

Embase (Ovid) search terms

| | |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 498. | exp Barrett esophagus/ |
| 499. | barrett*.ti,ab. |
| 500. | (speciali* adj3 (epithel* or oesophag* or esophag* or mucos*)).ti,ab. |
| 501. | (column* adj3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*)).ti,ab. |
| 502. | or/1-4 |
| 503. | Precancer/ |
| 504. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*).ti,ab. |
| 505. | 6 or 7 |
| 506. | exp Esophagus/ |
| 507. | Esophagus Mucosa/ |
| 508. | (oesophag* or esophag*).ti,ab. |
| 509. | or/9-11 |
| 510. | 8 and 12 |
| 511. | exp Esophagus Tumor/ |
| 512. | 5 or 13 or 14 |
| 513. | letter.pt. or letter/ |
| 514. | note.pt. |
| 515. | editorial.pt. |
| 516. | case report/ or case study/ |
| 517. | (letter or comment*).ti. |
| 518. | (conference abstract or conference paper).pt. |
| 519. | or/16-21 |
| 520. | randomized controlled trial/ or random*.ti,ab. |
| 521. | 22 not 23 |
| 522. | animal/ not human/ |
| 523. | nonhuman/ |
| 524. | exp Animal Experiment/ |
| 525. | exp Experimental Animal/ |
| 526. | animal model/ |
| 527. | exp Rodent/ |
| 528. | (rat or rats or mouse or mice or rodent*).ti. |
| 529. | or/24-31 |
| 530. | 15 not 32 |
| 531. | limit 33 to English language |
| 532. | health economics/ |
| 533. | exp economic evaluation/ |
| 534. | exp health care cost/ |
| 535. | exp fee/ |

| | |
|------|--------------------------------------------------------------------------------------------------|
| 536. | budget/ |
| 537. | funding/ |
| 538. | budget*.ti,ab. |
| 539. | cost*.ti. |
| 540. | (economic* or pharmaco?economic*).ti. |
| 541. | (price* or pricing*).ti,ab. |
| 542. | (cost* adj2 (effectiv* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab. |
| 543. | (financ* or fee or fees).ti,ab. |
| 544. | (value adj2 (money or monetary)).ti,ab. |
| 545. | or/35-47 |
| 546. | quality-adjusted life years/ |
| 547. | "quality of life index"/ |
| 548. | short form 12/ or short form 20/ or short form 36/ or short form 8/ |
| 549. | sickness impact profile/ |
| 550. | (quality adj2 (wellbeing or well being)).ti,ab. |
| 551. | sickness impact profile.ti,ab. |
| 552. | disability adjusted life.ti,ab. |
| 553. | (qal* or qtime* or qwb* or daly*).ti,ab. |
| 554. | (euroqol* or eq5d* or eq 5*).ti,ab. |
| 555. | (qol* or hql* or hqol* or h qol* or hrqol* or hr qol*).ti,ab. |
| 556. | (health utility* or utility score* or disutilit* or utility value*).ti,ab. |
| 557. | (hui or hui1 or hui2 or hui3).ti,ab. |
| 558. | (health* year* equivalent* or hye or hyes).ti,ab. |
| 559. | discrete choice*.ti,ab. |
| 560. | rosser.ti,ab. |
| 561. | (willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab. |
| 562. | (sf36* or sf 36* or short form 36* or shortform 36* or shortform36*).ti,ab. |
| 563. | (sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab. |
| 564. | (sf12* or sf 12* or short form 12* or shortform 12* or shortform12*).ti,ab. |
| 565. | (sf8* or sf 8* or short form 8* or shortform 8* or shortform8*).ti,ab. |
| 566. | (sf6* or sf 6* or short form 6* or shortform 6* or shortform6*).ti,ab. |
| 567. | or/49-69 |
| 568. | 34 and (48 or 70) |

NHS EED and HTA (CRD) search terms

| | |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| #113. | MeSH DESCRIPTOR Barrett Esophagus EXPLODE ALL TREES |
| #114. | (barrett*) |
| #115. | (speciali*) AND (epithel* or oesophag* or esophag* or mucos*) |
| #116. | (column*) AND (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*) |
| #117. | #1 OR #2 OR #3 OR #4 |
| #118. | MeSH DESCRIPTOR Precancerous Conditions EXPLODE ALL TREES |
| #119. | ((dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*)) |
| #120. | #6 OR #7 |

| | |
|-------|------------------------------------------------------------|
| #121. | MeSH DESCRIPTOR Esophagus EXPLODE ALL TREES |
| #122. | MeSH DESCRIPTOR Esophageal Mucosa EXPLODE ALL TREES |
| #123. | (oesophag* or esophag* or intramucosal* or intra-mucosal*) |
| #124. | #9 OR #10 OR #11 |
| #125. | #8 AND #12 |
| #126. | #5 OR #13 |
| #127. | MeSH DESCRIPTOR Esophageal Neoplasms EXPLODE ALL TREES |
| #128. | #14 OR #15 |

INAHTA search terms

| | |
|----|-----------------------------------------------------------------------|
| 1. | ("Barrett Esophagus"[mh]) OR (Barrett*) OR (Esophageal Neoplasms)[mh] |
|----|-----------------------------------------------------------------------|

A.9 5.1 Oesophagectomy

This literature search strategy was used for the following review:

- For adults with stage 1 adenocarcinoma, what is the clinical and cost effectiveness of oesophagectomy?

The literature searches for this review are detailed below and complied with the methodology outlined in Developing NICE guidelines: the manual. {NICE2014}

For more information, please see the Methodology review published as part of the accompanying documents for this guideline.

A.9.1 Clinical search literature search strategy

Searches were constructed using a PICO framework where population (P) terms were combined with Intervention (I) and in some cases Comparison (C) terms. Outcomes (O) are rarely used in search strategies as these concepts may not be indexed or described in the title or abstract and are therefore difficult to retrieve. Search filters were applied to the search where appropriate.

Table 1: Database parameters, filters and limits applied

| Database | Dates searched | Search filter used |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Medline (OVID) | 1946 – 26 April 2022 | Randomised controlled trials Systematic review studies Exclusions (animal studies, letters, comments, editorials, case studies/reports) English language |
| Embase (OVID) | 1974 – 26 April 2022 | Randomised controlled trials Systematic review studies Exclusions (animal studies, letters, comments, editorials, case studies/reports, conference abstracts) English language |
| The Cochrane Library (Wiley) | Cochrane Database of Systematic Reviews to Issue 4 of 12, April 2022 Cochrane Central Register of Controlled Trials to Issue 4 of 12, April 2022 | Exclusions (clinical trials, conference abstracts) |
| Epistemonikos (The Epistemonikos Foundation) | Inception to 26 April 2022 | Systematic review Exclusions (Cochrane reviews) |

Medline (Ovid) search terms

| | |
|------|------------------------|
| 703. | exp Barrett esophagus/ |
| 704. | barrett*.ti,ab. |

| | |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 705. | (speciali* adj3 (epithel* or oesophag* or esophag* or mucos*)).ti,ab. |
| 706. | (column* adj3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*)).ti,ab. |
| 707. | (intestin* adj2 metaplas*).ti,ab. |
| 708. | or/1-5 |
| 709. | Precancerous conditions/ |
| 710. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*).ti,ab. |
| 711. | 7 or 8 |
| 712. | exp Esophagus/ |
| 713. | Esophageal Mucosa/ |
| 714. | (oesophag* or esophag* or intramucosal* or intra-mucosal*).ti,ab. |
| 715. | or/10-12 |
| 716. | 9 and 13 |
| 717. | exp Esophageal Neoplasms/ |
| 718. | 6 or 14 or 15 |
| 719. | letter/ |
| 720. | editorial/ |
| 721. | news/ |
| 722. | exp historical article/ |
| 723. | Anecdotes as Topic/ |
| 724. | comment/ |
| 725. | case report/ |
| 726. | (letter or comment*).ti. |
| 727. | or/17-24 |
| 728. | randomized controlled trial/ or random*.ti,ab. |
| 729. | 25 not 26 |
| 730. | animals/ not humans/ |
| 731. | exp Animals, Laboratory/ |
| 732. | exp Animal Experimentation/ |
| 733. | exp Models, Animal/ |
| 734. | exp Rodentia/ |
| 735. | (rat or rats or mouse or mice or rodent*).ti. |
| 736. | or/27-33 |
| 737. | 16 not 34 |
| 738. | limit 35 to English language |
| 739. | Esophagectomy/ |
| 740. | (esophagectom* or oesophagectom*).ti,ab. |
| 741. | (esophagogastrectom* or oesophagogastrectom*).ti,ab. |
| 742. | ((esophag* or oesophag*) adj3 (resect* or dissect* or shorten* or surg* or operat* or reconstruct* or remov*)).ti,ab. |
| 743. | (surg* adj2 (resect* or dissect* or shorten*)).ti,ab. |
| 744. | (transhiatal or trans hiatal or transthoracic or trans thoracic).ti,ab. |
| 745. | (Merendino* or McKeown* or Ivor Lewis*).ti,ab. |
| 746. | or/37-43 |
| 747. | 36 and 44 |

| | |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| 748. | Meta-Analysis/ |
| 749. | Meta-Analysis as Topic/ |
| 750. | (meta analy* or metanaly* or metaanaly* or meta regression).ti,ab. |
| 751. | ((systematic* or evidence*) adj3 (review* or overview*)).ti,ab. |
| 752. | (reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab. |
| 753. | (search strategy or search criteria or systematic search or study selection or data extraction).ab. |
| 754. | (search* adj4 literature).ab. |
| 755. | (medline or pubmed or cochrane or embase or psychlit or psychlit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab. |
| 756. | cochrane.jw. |
| 757. | ((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab. |
| 758. | or/46-55 |
| 759. | randomized controlled trial.pt. |
| 760. | controlled clinical trial.pt. |
| 761. | randomi#ed.ab. |
| 762. | placebo.ab. |
| 763. | randomly.ab. |
| 764. | clinical trials as topic.sh. |
| 765. | trial.ti. |
| 766. | or/57-63 |
| 767. | Epidemiologic studies/ |
| 768. | Observational study/ |
| 769. | exp Cohort studies/ |
| 770. | (cohort adj (study or studies or analys* or data)).ti,ab. |
| 771. | ((follow up or observational or uncontrolled or non randomi#ed or epidemiologic*) adj (study or studies or data)).ti,ab. |
| 772. | ((longitudinal or retrospective or prospective) and (study or studies or review or analys* or cohort* or data)).ti,ab. |
| 773. | Controlled Before-After Studies/ |
| 774. | Historically Controlled Study/ |
| 775. | Interrupted Time Series Analysis/ |
| 776. | (before adj2 after adj2 (study or studies or data)).ti,ab. |
| 777. | exp case control study/ |
| 778. | case control*.ti,ab. |
| 779. | Cross-sectional studies/ |
| 780. | (cross sectional and (study or studies or review or analys* or cohort* or data)).ti,ab. |
| 781. | or/65-78 |
| 782. | 45 and (56 or 64) |

Embase (Ovid) search terms

| | |
|------|-----------------------------------------------------------------------------------------------------|
| 747. | exp Barrett esophagus/ |
| 748. | barrett*.ti,ab. |
| 749. | (speciali* adj3 (epithel* or oesophag* or esophag* or mucos*)).ti,ab. |
| 750. | (column* adj3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*)).ti,ab. |
| 751. | (intestin* adj2 metaplas*).ti,ab. |
| 752. | or/1-5 |

| | |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 753. | Precancer/ |
| 754. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*).ti,ab. |
| 755. | 7 or 8 |
| 756. | exp Esophagus/ |
| 757. | Esophagus Mucosa/ |
| 758. | (oesophag* or esophag*).ti,ab. |
| 759. | or/10-12 |
| 760. | 9 and 13 |
| 761. | exp Esophagus Tumor/ |
| 762. | 6 or 14 or 15 |
| 763. | letter.pt. or letter/ |
| 764. | note.pt. |
| 765. | editorial.pt. |
| 766. | case report/ or case study/ |
| 767. | (letter or comment*).ti. |
| 768. | (conference abstract or conference paper).pt. |
| 769. | or/17-22 |
| 770. | randomized controlled trial/ or random*.ti,ab. |
| 771. | 23 not 24 |
| 772. | animal/ not human/ |
| 773. | nonhuman/ |
| 774. | exp Animal Experiment/ |
| 775. | exp Experimental Animal/ |
| 776. | animal model/ |
| 777. | exp Rodent/ |
| 778. | (rat or rats or mouse or mice or rodent*).ti. |
| 779. | or/25-32 |
| 780. | 16 not 33 |
| 781. | limit 34 to English language |
| 782. | esophagus resection/ |
| 783. | (esophagectom* or oesophagectom*).ti,ab. |
| 784. | (esophagogastrectom* or oesophagogastrectom*).ti,ab. |
| 785. | ((esophag* or oesophag*) adj3 (resect* or dissect* or shorten* or surg* or operat* or reconstruct* or remov*).ti,ab. |
| 786. | (surg* adj2 (resect* or dissect* or shorten*).ti,ab. |
| 787. | (transhiatal or trans hiatal or transthoracic or trans thoracic).ti,ab. |
| 788. | (Merendino* or McKeown* or Ivor Lewis*).ti,ab. |
| 789. | or/36-42 |
| 790. | 35 and 43 |
| 791. | random*.ti,ab. |
| 792. | factorial*.ti,ab. |
| 793. | (crossover* or cross over*).ti,ab. |
| 794. | ((doubl* or singl*) adj blind*).ti,ab. |
| 795. | (assign* or allocat* or volunteer* or placebo*).ti,ab. |
| 796. | crossover procedure/ |

| | |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| 797. | single blind procedure/ |
| 798. | randomized controlled trial/ |
| 799. | double blind procedure/ |
| 800. | or/45-53 |
| 801. | Systematic Review/ |
| 802. | Meta-Analysis/ |
| 803. | (meta analy* or metanaly* or metaanaly* or meta regression).ti,ab. |
| 804. | ((systematic* or evidence*) adj3 (review* or overview*)).ti,ab. |
| 805. | (reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab. |
| 806. | (search strategy or search criteria or systematic search or study selection or data extraction).ab. |
| 807. | (search* adj4 literature).ab. |
| 808. | (medline or pubmed or cochrane or embase or psychlit or psychlit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab. |
| 809. | cochrane.jw. |
| 810. | ((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab. |
| 811. | or/55-64 |
| 812. | Clinical study/ |
| 813. | Observational study/ |
| 814. | Family study/ |
| 815. | Longitudinal study/ |
| 816. | Retrospective study/ |
| 817. | Prospective study/ |
| 818. | Cohort analysis/ |
| 819. | Follow-up/ |
| 820. | cohort*.ti,ab. |
| 821. | 73 and 74 |
| 822. | (cohort adj (study or studies or analys* or data)).ti,ab. |
| 823. | ((follow up or observational or uncontrolled or non randomi#ed or epidemiologic*) adj (study or studies or data)).ti,ab. |
| 824. | ((longitudinal or retrospective or prospective) and (study or studies or review or analys* or cohort* or data)).ti,ab. |
| 825. | (before adj2 after adj2 (study or studies or data)).ti,ab. |
| 826. | exp case control study/ |
| 827. | case control*.ti,ab. |
| 828. | cross-sectional study/ |
| 829. | (cross sectional and (study or studies or review or analys* or cohort* or data)).ti,ab. |
| 830. | or/66-72,75-83 |
| 831. | 44 and (54 or 65) |

Cochrane Library (Wiley) search terms

| | |
|-------|----------------------------------------------------------------------------------------------------|
| #309. | MeSH descriptor: [Barrett Esophagus] explode all trees |
| #310. | barrett*.ti,ab |
| #311. | speciali* near/3 (epithel* or oesophag* or esophag* or mucos*):ti,ab |
| #312. | column* near/3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*):ti,ab |
| #313. | (intestin* near/2 metaplas*):ti,ab |
| #314. | (or #1-#5) |

| | |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| #315. | MeSH descriptor: [Precancerous Conditions] explode all trees |
| #316. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*):ti,ab |
| #317. | #7 or #8 |
| #318. | MeSH descriptor: [Esophagus] explode all trees |
| #319. | MeSH descriptor: [Esophageal Mucosa] explode all trees |
| #320. | (oesophag* or esophag* or intramucosal* or intra-mucosal*):ti,ab |
| #321. | (or #10-#12) |
| #322. | #9 and #13 |
| #323. | MeSH descriptor: [Esophageal Neoplasms] explode all trees |
| #324. | #6 or #14 or #15 |
| #325. | MeSH descriptor: [Esophagectomy] explode all trees |
| #326. | (esophagectom* or oesophagectom*):ti,ab |
| #327. | (esophagogastrectom* or oesophagogastrectom*):ti,ab |
| #328. | ((esophag* or oesophag*) near/3 (resect* or dissect* or shorten* or surg* or operat* or reconstruct* or remov*)):ti,ab |
| #329. | (surg* near/2 (resect* or dissect* or shorten*)):ti,ab |
| #330. | (transhiatal or trans hiatal or transthoracic or trans thoracic):ti,ab |
| #331. | (Merendino* or McKeown* or Ivor Lewis*):ti,ab |
| #332. | (or #17-#23) |
| #333. | #16 and #24 |
| #334. | conference:pt or (clinicaltrials or trialsearch):so |
| #335. | #25 not #26 |

Epistemonikos search terms

| | |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9. | (title:(Barrett* OR "oesophageal adenocarcinoma*" OR "esophageal adenocarcinoma*" OR "oesophageal cancer*" OR "esophageal cancer*" OR "oesophageal carcinoma*" OR "esophageal carcinoma*" OR "oesophageal metaplas*" OR "esophageal dysplas*" OR "column* epithel*" OR "intestin* metaplas*" OR "intestin* dysplas*") OR abstract:(Barrett* OR "oesophageal adenocarcinoma*" OR "esophageal adenocarcinoma*" OR "oesophageal cancer*" OR "esophageal cancer*" OR "oesophageal carcinoma*" OR "esophageal carcinoma*" OR "oesophageal metaplas*" OR "esophageal dysplas*" OR "column* epithel*" OR "intestin* metaplas*" OR "intestin* dysplas*")) AND (title:(esophagectom* OR oesophagectom* OR esophagogastrectom* OR oesophagogastrectom* OR "esophag* resect*" OR "oesophag* resect*" OR "esophag* dissect*" OR "oesophag* dissect*" OR "esophag* shorten*" OR "oesophag* shorten*" OR "surg* resect*" OR "resect* surg*" OR transhiatal OR "trans hiatal" OR transthoracic OR "trans thoracic" OR lymphadenectom* OR Merendino* OR McKeown* OR "Ivor Lewis*") OR abstract:(esophagectom* OR oesophagectom* OR esophagogastrectom* OR oesophagogastrectom* OR "esophag* resect*" OR "oesophag* resect*" OR "esophag* dissect*" OR "oesophag* dissect*" OR "esophag* shorten*" OR "oesophag* shorten*" OR "surg* resect*" OR "resect* surg*" OR transhiatal OR "trans hiatal" OR transthoracic OR "trans thoracic" OR lymphadenectom* OR Merendino* OR McKeown* OR "Ivor Lewis*")) |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

A.9.2 Health Economics literature search strategy

Health economic evidence was identified by conducting searches using terms for a broad Barrett's Oesophagus population. The following databases were searched: NHS Economic

Evaluation Database (NHS EED - this ceased to be updated after 31st March 2015), Health Technology Assessment database (HTA - this ceased to be updated from 31st March 2018) and The International Network of Agencies for Health Technology Assessment (INAHTA). Searches for recent evidence were run on Medline and Embase from 2014 onwards for health economics, and all years for quality-of-life studies.

Table 2: Database parameters, filters and limits applied

| Database | Dates searched | Search filters and limits applied |
|----------------------------------------------------------------------------------------------|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Medline (OVID) | Health Economics 1 January 2014 – 29 April 2022 | Health economics studies Quality of life studies |
| | Quality of Life 1946 – 29 April 2022 | Exclusions (animal studies, letters, comments, editorials, case studies/reports) English language |
| Embase (OVID) | Health Economics 1 January 2014 – 29 April 2022 | Health economics studies Quality of life studies |
| | Quality of Life 1974 – 29 April 2022 | Exclusions (animal studies, letters, comments, editorials, case studies/reports, conference abstracts) English language |
| NHS Economic Evaluation Database (NHS EED) (Centre for Research and Dissemination - CRD) | Inception –31 st March 2015 | |
| Health Technology Assessment Database (HTA) (Centre for Research and Dissemination – CRD) | Inception – 31 st March 2018 | |
| The International Network of Agencies for Health Technology Assessment (INAHTA) | Inception - 29 April 2022 | English language |

Medline (Ovid) search terms

| | |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | exp Barrett esophagus/ |
| 2. | barrett*.ti,ab. |
| 3. | (speciali* adj3 (epithel* or oesophag* or esophag* or mucos*)).ti,ab. |
| 4. | (column* adj3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*)).ti,ab. |
| 5. | or/1-4 |
| 6. | Precancerous conditions/ |
| 7. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or |

| | |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| | carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*).ti,ab. |
| 8. | 6 or 7 |
| 9. | exp Esophagus/ |
| 10. | Esophageal Mucosa/ |
| 11. | (oesophag* or esophag* or intramucosal* or intra-mucosal*).ti,ab. |
| 12. | or/9-11 |
| 13. | 8 and 12 |
| 14. | exp Esophageal Neoplasms/ |
| 15. | 5 or 13 or 14 |
| 16. | letter/ |
| 17. | editorial/ |
| 18. | news/ |
| 19. | exp historical article/ |
| 20. | Anecdotes as Topic/ |
| 21. | comment/ |
| 22. | case report/ |
| 23. | (letter or comment*).ti. |
| 24. | or/16-23 |
| 25. | randomized controlled trial/ or random*.ti,ab. |
| 26. | 24 not 25 |
| 27. | animals/ not humans/ |
| 28. | exp Animals, Laboratory/ |
| 29. | exp Animal Experimentation/ |
| 30. | exp Models, Animal/ |
| 31. | exp Rodentia/ |
| 32. | (rat or rats or mouse or mice or rodent*).ti. |
| 33. | or/26-32 |
| 34. | 15 not 33 |
| 35. | limit 34 to English language |
| 36. | economics/ |
| 37. | value of life/ |
| 38. | exp "costs and cost analysis"/ |
| 39. | exp Economics, Hospital/ |
| 40. | exp Economics, medical/ |
| 41. | Economics, nursing/ |
| 42. | economics, pharmaceutical/ |
| 43. | exp "Fees and Charges"/ |
| 44. | exp budgets/ |
| 45. | budget*.ti,ab. |
| 46. | cost*.ti. |
| 47. | (economic* or pharmaco?economic*).ti. |
| 48. | (price* or pricing*).ti,ab. |

| | |
|-----|--------------------------------------------------------------------------------------------------|
| 49. | (cost* adj2 (effectiv* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab. |
| 50. | (financ* or fee or fees).ti,ab. |
| 51. | (value adj2 (money or monetary)).ti,ab. |
| 52. | or/36-51 |
| 53. | quality-adjusted life years/ |
| 54. | sickness impact profile/ |
| 55. | (quality adj2 (wellbeing or well being)).ti,ab. |
| 56. | sickness impact profile.ti,ab. |
| 57. | disability adjusted life.ti,ab. |
| 58. | (qal* or qtime* or qwb* or daly*).ti,ab. |
| 59. | (euroqol* or eq5d* or eq 5*).ti,ab. |
| 60. | (qol* or hql* or hqol* or h qol* or hrqol* or hr qol*).ti,ab. |
| 61. | (health utility* or utility score* or disutilit* or utility value*).ti,ab. |
| 62. | (hui or hui1 or hui2 or hui3).ti,ab. |
| 63. | (health* year* equivalent* or hye or hyes).ti,ab. |
| 64. | discrete choice*.ti,ab. |
| 65. | rosser.ti,ab. |
| 66. | (willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab. |
| 67. | (sf36* or sf 36* or short form 36* or shortform 36* or shortform36*).ti,ab. |
| 68. | (sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab. |
| 69. | (sf12* or sf 12* or short form 12* or shortform 12* or shortform12*).ti,ab. |
| 70. | (sf8* or sf 8* or short form 8* or shortform 8* or shortform8*).ti,ab. |
| 71. | (sf6* or sf 6* or short form 6* or shortform 6* or shortform6*).ti,ab. |
| 72. | or/53-71 |
| 73. | 35 and (52 or 72) |

Embase (Ovid) search terms

| | |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | exp Barrett esophagus/ |
| 2. | barrett*.ti,ab. |
| 3. | (speciali* adj3 (epithel* or oesophag* or esophag* or mucos*)).ti,ab. |
| 4. | (column* adj3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*)).ti,ab. |
| 5. | or/1-4 |
| 6. | Precancer/ |
| 7. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*).ti,ab. |
| 8. | 6 or 7 |
| 9. | exp Esophagus/ |
| 10. | Esophagus Mucosa/ |
| 11. | (oesophag* or esophag*).ti,ab. |
| 12. | or/9-11 |
| 13. | 8 and 12 |
| 14. | exp Esophagus Tumor/ |

| | |
|-----|--------------------------------------------------------------------------------------------------|
| 15. | 5 or 13 or 14 |
| 16. | letter.pt. or letter/ |
| 17. | note.pt. |
| 18. | editorial.pt. |
| 19. | case report/ or case study/ |
| 20. | (letter or comment*).ti. |
| 21. | (conference abstract or conference paper).pt. |
| 22. | or/16-21 |
| 23. | randomized controlled trial/ or random*.ti,ab. |
| 24. | 22 not 23 |
| 25. | animal/ not human/ |
| 26. | nonhuman/ |
| 27. | exp Animal Experiment/ |
| 28. | exp Experimental Animal/ |
| 29. | animal model/ |
| 30. | exp Rodent/ |
| 31. | (rat or rats or mouse or mice or rodent*).ti. |
| 32. | or/24-31 |
| 33. | 15 not 32 |
| 34. | limit 33 to English language |
| 35. | health economics/ |
| 36. | exp economic evaluation/ |
| 37. | exp health care cost/ |
| 38. | exp fee/ |
| 39. | budget/ |
| 40. | funding/ |
| 41. | budget*.ti,ab. |
| 42. | cost*.ti. |
| 43. | (economic* or pharmaco?economic*).ti. |
| 44. | (price* or pricing*).ti,ab. |
| 45. | (cost* adj2 (effectiv* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab. |
| 46. | (financ* or fee or fees).ti,ab. |
| 47. | (value adj2 (money or monetary)).ti,ab. |
| 48. | or/35-47 |
| 49. | quality-adjusted life years/ |
| 50. | "quality of life index"/ |
| 51. | short form 12/ or short form 20/ or short form 36/ or short form 8/ |
| 52. | sickness impact profile/ |
| 53. | (quality adj2 (wellbeing or well being)).ti,ab. |
| 54. | sickness impact profile.ti,ab. |
| 55. | disability adjusted life.ti,ab. |
| 56. | (qal* or qtime* or qwb* or daly*).ti,ab. |
| 57. | (euroqol* or eq5d* or eq 5*).ti,ab. |
| 58. | (qol* or hq1* or hqol* or h qol* or hrqol* or hr qol*).ti,ab. |
| 59. | (health utility* or utility score* or disutilit* or utility value*).ti,ab. |
| 60. | (hui or hui1 or hui2 or hui3).ti,ab. |
| 61. | (health* year* equivalent* or hye or hyes).ti,ab. |

| | |
|-----|-------------------------------------------------------------------------------------------|
| 62. | discrete choice*.ti,ab. |
| 63. | rosser.ti,ab. |
| 64. | (willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab. |
| 65. | (sf36* or sf 36* or short form 36* or shortform 36* or shortform36*).ti,ab. |
| 66. | (sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab. |
| 67. | (sf12* or sf 12* or short form 12* or shortform 12* or shortform12*).ti,ab. |
| 68. | (sf8* or sf 8* or short form 8* or shortform 8* or shortform8*).ti,ab. |
| 69. | (sf6* or sf 6* or short form 6* or shortform 6* or shortform6*).ti,ab. |
| 70. | or/49-69 |
| 71. | 34 and (48 or 70) |

NHS EED and HTA (CRD) search terms

| | |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| #1. | MeSH DESCRIPTOR Barrett Esophagus EXPLODE ALL TREES |
| #2. | (barrett*) |
| #3. | (speciali*) AND (epithel* or oesophag* or esophag* or mucos*) |
| #4. | (column*) AND (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*) |
| #5. | #1 OR #2 OR #3 OR #4 |
| #6. | MeSH DESCRIPTOR Precancerous Conditions EXPLODE ALL TREES |
| #7. | ((dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*)) |
| #8. | #6 OR #7 |
| #9. | MeSH DESCRIPTOR Esophagus EXPLODE ALL TREES |
| #10. | MeSH DESCRIPTOR Esophageal Mucosa EXPLODE ALL TREES |
| #11. | (oesophag* or esophag* or intramucosal* or intra-mucosal*) |
| #12. | #9 OR #10 OR #11 |
| #13. | #8 AND #12 |
| #14. | #5 OR #13 |
| #15. | MeSH DESCRIPTOR Esophageal Neoplasms EXPLODE ALL TREES |
| #16. | #14 OR #15 |

INAHTA search terms

| | |
|----|-----------------------------------------------------------------------|
| 1. | ("Barrett Esophagus"[mh]) OR (Barrett*) OR (Esophageal Neoplasms)[mh] |
|----|-----------------------------------------------------------------------|

A.10 5.2 Non surgical

This literature search strategy was used for the following review:

- For adults with stage 1b adenocarcinoma, what is the clinical and cost effectiveness of different non-surgical interventions?

The literature searches for this review are detailed below and complied with the methodology outlined in Developing NICE guidelines: the manual. {NICE2014}

For more information, please see the Methodology review published as part of the accompanying documents for this guideline.

A.10.1 Clinical search literature search strategy

Searches were constructed using a PICO framework where population (P) terms were combined with Intervention (I) and in some cases Comparison (C) terms. Outcomes (O) are rarely used in search strategies as these concepts may not be indexed or described in the title or abstract and are therefore difficult to retrieve. Search filters were applied to the search where appropriate.

Table 1: Database parameters, filters and limits applied

| Database | Dates searched | Search filter used |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Medline (OVID) | 1946 – 26 April 2022 | Randomised controlled trials Systematic review studies Exclusions (animal studies, letters, comments, editorials, case studies/reports) English language |
| Embase (OVID) | 1974 – 26 April 2022 | Randomised controlled trials Systematic review studies Exclusions (animal studies, letters, comments, editorials, case studies/reports, conference abstracts) English language |
| The Cochrane Library (Wiley) | Cochrane Database of Systematic Reviews to Issue 4 of 12, April 2022 Cochrane Central Register of Controlled Trials to Issue 4 of 12, April 2022 | Exclusions (clinical trials, conference abstracts) |
| Epistemonikos (The Epistemonikos Foundation) | Inception to 26 April 2022 | Systematic review Exclusions (Cochrane reviews) |

Medline (Ovid) search terms

| | |
|------|------------------------|
| 783. | exp Barrett esophagus/ |
| 784. | barrett*.ti,ab. |

| | |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 785. | (speciali* adj3 (epithel* or oesophag* or esophag* or mucos*)).ti,ab. |
| 786. | (column* adj3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*)).ti,ab. |
| 787. | (intestin* adj2 metaplas*).ti,ab. |
| 788. | or/1-5 |
| 789. | Precancerous conditions/ |
| 790. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*).ti,ab. |
| 791. | 7 or 8 |
| 792. | exp Esophagus/ |
| 793. | Esophageal Mucosa/ |
| 794. | (oesophag* or esophag* or intramucosal* or intra-mucosal*).ti,ab. |
| 795. | or/10-12 |
| 796. | 9 and 13 |
| 797. | exp Esophageal Neoplasms/ |
| 798. | 6 or 14 or 15 |
| 799. | Adenocarcinoma/ |
| 800. | (stage* 1* or stage* I or stage* IA or stage* IB or stage* IC or earl* stage* or T1* or adenocarcinom*).ti,ab. |
| 801. | or/17-18 |
| 802. | 16 and 19 |
| 803. | letter/ |
| 804. | editorial/ |
| 805. | news/ |
| 806. | exp historical article/ |
| 807. | Anecdotes as Topic/ |
| 808. | comment/ |
| 809. | case report/ |
| 810. | (letter or comment*).ti. |
| 811. | or/21-28 |
| 812. | randomized controlled trial/ or random*.ti,ab. |
| 813. | 29 not 30 |
| 814. | animals/ not humans/ |
| 815. | exp Animals, Laboratory/ |
| 816. | exp Animal Experimentation/ |
| 817. | exp Models, Animal/ |
| 818. | exp Rodentia/ |
| 819. | (rat or rats or mouse or mice or rodent*).ti. |
| 820. | or/31-37 |
| 821. | 20 not 38 |
| 822. | limit 39 to English language |
| 823. | Radiotherapy/ |
| 824. | Radiation Oncology/ |
| 825. | Brachytherapy/ |
| 826. | Drug Therapy/ |
| 827. | *Drug Therapy, Combination/ |

| | |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 828. | exp Fluorouracil/ |
| 829. | exp Leucovorin/ |
| 830. | exp Paclitaxel/ |
| 831. | Cisplatin/ |
| 832. | Bevacizumab/ |
| 833. | Methotrexate/ |
| 834. | Epirubicin/ |
| 835. | Irinotecan/ |
| 836. | Carboplatin/ |
| 837. | Oxaliplatin/ |
| 838. | Docetaxel/ |
| 839. | *Combined Modality Therapy/ |
| 840. | Chemoradiotherapy/ |
| 841. | (radiotherap* or chemoradio* or chemoradiation* or radiation* or chemotherap* or hyperthermochemoradiotherap* or brachytherap* or external beam*).ti,ab. |
| 842. | ((oncological* or nonsurg* or non surg* or combined or combination) adj2 (therap* or treatment* or approach* or strateg* or manag*)).ti,ab. |
| 843. | (fluorouracil or capecitabine or xeloda or cisplatin or bevacizumab or methotrexate or epirubicin or pharmorubicin or irinotecan or leucovorin or folinic acid or campto or carboplatin or oxaliplatin or eloxatin or docetaxel or taxotere or paclitaxel or taxol or XELOX or FOLFOX or FOLFIRI or XELIRI or 5?FU or FLOT).ti,ab. |
| 844. | *Endoscopy, Gastrointestinal/ |
| 845. | Capsule Endoscopy/ |
| 846. | Esophagoscopy/ |
| 847. | (oesophagoscop* or esophagoscop*).ti,ab. |
| 848. | (videoendoscop* or endomicroscop* or spectroscop* or endocytoscop* or gastroscop*).ti,ab. |
| 849. | (endoscop* adj2 (imag* or diagn* or identif* or surveillanc* or monitor* or observ* or detect*)).ti,ab. |
| 850. | ((capsule or transnasal or nasal) adj2 endoscop*).ti,ab. |
| 851. | exp Optical Imaging/ |
| 852. | exp Acetic Acid/ |
| 853. | Molecular Imaging/ |
| 854. | ((molecular or autofluorescen* or fluorescen*) adj3 (imag* or endoscop*)).ti,ab. |
| 855. | ((magnif* or high resolution or high definition) adj3 endoscop*).ti,ab. |
| 856. | (chromatograph* or chromoendoscop* or chromoscop* or volumetric laser* or acetic acid or methylene blue or indigo carmine or narrow band or white light or blue laser or blue light or flexible spectral imaging colo?r enhancement or optical coherence tomography or optical enhancement).ti,ab. |
| 857. | exp Artificial Intelligence/ |
| 858. | (artificial intelligence or (computer adj (assisted or aided)) or ((deep or machine) adj learning) or neural network*).ti,ab. |
| 859. | (wide area transepithelial sampling or WATS3D or WATS 3D).ti,ab. |
| 860. | (endoscop* adj2 brush*).ti,ab. |
| 861. | (HRE or WLE or NBI or BLI or FICE or AFI or OCT or ETMI or AI or CAD).ti,ab. |
| 862. | or/41-79 |
| 863. | 40 and 80 |
| 864. | Meta-Analysis/ |
| 865. | Meta-Analysis as Topic/ |
| 866. | (meta analy* or metanaly* or metaanaly* or meta regression).ti,ab. |

| | |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| 867. | ((systematic* or evidence*) adj3 (review* or overview*)).ti,ab. |
| 868. | (reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab. |
| 869. | (search strategy or search criteria or systematic search or study selection or data extraction).ab. |
| 870. | (search* adj4 literature).ab. |
| 871. | (medline or pubmed or cochrane or embase or psychlit or psyclit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab. |
| 872. | cochrane.jw. |
| 873. | ((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab. |
| 874. | or/82-91 |
| 875. | randomized controlled trial.pt. |
| 876. | controlled clinical trial.pt. |
| 877. | randomi#ed.ab. |
| 878. | placebo.ab. |
| 879. | randomly.ab. |
| 880. | clinical trials as topic.sh. |
| 881. | trial.ti. |
| 882. | or/93-99 |
| 883. | 81 and (92 or 100) |

Embase (Ovid) search terms

| | |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 832. | exp Barrett esophagus/ |
| 833. | barrett*.ti,ab. |
| 834. | (speciali* adj3 (epithel* or oesophag* or esophag* or mucos*)).ti,ab. |
| 835. | (column* adj3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*)).ti,ab. |
| 836. | (intestin* adj2 metaplas*).ti,ab. |
| 837. | or/1-5 |
| 838. | Precancer/ |
| 839. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*).ti,ab. |
| 840. | 7 or 8 |
| 841. | exp Esophagus/ |
| 842. | Esophagus Mucosa/ |
| 843. | (oesophag* or esophag*).ti,ab. |
| 844. | or/10-12 |
| 845. | 9 and 13 |
| 846. | exp Esophagus Tumor/ |
| 847. | 6 or 14 or 15 |
| 848. | adenocarcinoma/ |
| 849. | esophageal adenocarcinoma/ |
| 850. | (stage* 1* or stage* I or stage* IA or stage* IB or stage* IC or earl* stage* or T1* or adenocarcinom*).ti,ab. |
| 851. | or/17-19 |
| 852. | 16 and 20 |
| 853. | letter.pt. or letter/ |

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| 854. | note.pt. |
| 855. | editorial.pt. |
| 856. | case report/ or case study/ |
| 857. | (letter or comment*).ti. |
| 858. | (conference abstract or conference paper).pt. |
| 859. | or/22-27 |
| 860. | randomized controlled trial/ or random*.ti,ab. |
| 861. | 28 not 29 |
| 862. | animal/ not human/ |
| 863. | nonhuman/ |
| 864. | exp Animal Experiment/ |
| 865. | exp Experimental Animal/ |
| 866. | animal model/ |
| 867. | exp Rodent/ |
| 868. | (rat or rats or mouse or mice or rodent*).ti. |
| 869. | or/30-37 |
| 870. | 21 not 38 |
| 871. | limit 39 to English language |
| 872. | exp cancer radiotherapy/ |
| 873. | radiotherapy/ |
| 874. | radiation oncology/ |
| 875. | brachytherapy/ |
| 876. | exp cancer chemotherapy/ |
| 877. | fluorouracil/ |
| 878. | folinic acid/ |
| 879. | paclitaxel/ |
| 880. | cisplatin/ |
| 881. | bevacizumab/ |
| 882. | methotrexate/ |
| 883. | epirubicin/ |
| 884. | irinotecan/ |
| 885. | carboplatin/ |
| 886. | oxaliplatin/ |
| 887. | capecitabine/ |
| 888. | capecitabine plus oxaliplatin/ |
| 889. | docetaxel/ |
| 890. | (radiotherap* or chemoradio* or chemoradiation* or radiation* or chemotherap* or hyperthermochemoradiotherap* or brachytherap* or external beam*).ti,ab. |
| 891. | ((oncological* or nonsurg* or non surg* or combined or combination) adj2 (therap* or treatment* or approach* or strateg* or manag*)).ti,ab. |
| 892. | (fluorouracil or capecitabine or xeloda or cisplatin or bevacizumab or methotrexate or epirubicin or pharmorubicin or irinotecan or leucovorin or folinic acid or campto or carboplatin or oxaliplatin or eloxatin or docetaxel or taxotere or paclitaxel or taxol or XELOX or FOLFOX or FOLFIRI or XELIRI or 5?FU or FLOT).ti,ab. |
| 893. | *gastrointestinal endoscopy/ |
| 894. | *endoscopy/ |
| 895. | endocytoscopy/ |
| 896. | high resolution endoscopy/ |

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| 897. | magnifying endoscopy/ |
| 898. | narrow band imaging/ |
| 899. | videoendoscopy/ |
| 900. | white light endoscopy/ |
| 901. | capsule endoscopy/ |
| 902. | esophagoscopy/ |
| 903. | exp fluorescence imaging/ |
| 904. | exp acetic acid/ |
| 905. | molecular imaging/ |
| 906. | chromoendoscopy/ |
| 907. | exp artificial intelligence/ |
| 908. | (videoendoscop* or endomicroscop* or spectroscop* or endocytoscop* or oesophagoscop* or esophagoscop* or gastroscop* or chromatograph* or chromoendoscop* or chromoscop* or volumetric laser or acetic acid or methylene blue or indigo carmine or narrow band or white light or blue laser or blue light or flexible spectral imaging colo?r enhancement or optical coherence tomography or trimodal or tri modal or optical enhancement).ti,ab. |
| 909. | (endoscop* adj2 (imag* or diagn* or identif* or surveillanc* or monitor* or observ* or detect*)).ti,ab. |
| 910. | ((capsule or transnasal or nasal) adj2 endoscop*).ti,ab. |
| 911. | ((molecular or autofluorescen* or fluorescen*) adj3 (imag* or endoscop*)).ti,ab. |
| 912. | ((magnif* or high resolution or high definition) adj3 endoscop*).ti,ab. |
| 913. | (artificial intelligence or (computer adj (assisted or aided)) or ((deep or machine) adj learning) or neural network*).ti,ab. |
| 914. | (wide area transepithelial sampling or WATS3D or WATS 3D).ti,ab. |
| 915. | (endoscop* adj2 brush*).ti,ab. |
| 916. | (HRE or WLE or NBI or BLI or FICE or AFI or OCT or ETMI or AI or CAD).ti,ab. |
| 917. | or/41-85 |
| 918. | 40 and 86 |
| 919. | random*.ti,ab. |
| 920. | factorial*.ti,ab. |
| 921. | (crossover* or cross over*).ti,ab. |
| 922. | ((doubl* or singl*) adj blind*).ti,ab. |
| 923. | (assign* or allocat* or volunteer* or placebo*).ti,ab. |
| 924. | crossover procedure/ |
| 925. | single blind procedure/ |
| 926. | randomized controlled trial/ |
| 927. | double blind procedure/ |
| 928. | or/88-96 |
| 929. | Systematic Review/ |
| 930. | Meta-Analysis/ |
| 931. | (meta analy* or metanaly* or metaanaly* or meta regression).ti,ab. |
| 932. | ((systematic* or evidence*) adj3 (review* or overview*)).ti,ab. |
| 933. | (reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab. |
| 934. | (search strategy or search criteria or systematic search or study selection or data extraction).ab. |
| 935. | (search* adj4 literature).ab. |

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| 936. | (medline or pubmed or cochrane or embase or psychlit or psyclit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab. |
| 937. | cochrane.jw. |
| 938. | ((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab. |
| 939. | or/98-107 |
| 940. | 87 and (97 or 108) |

Cochrane Library (Wiley) search terms

| | |
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| #336. | MeSH descriptor: [Barrett Esophagus] explode all trees |
| #337. | barrett*.ti,ab |
| #338. | speciali* near/3 (epithel* or oesophag* or esophag* or mucos*):ti,ab |
| #339. | column* near/3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*):ti,ab |
| #340. | (intestin* near/2 metaplas*):ti,ab |
| #341. | (or #1-#5) |
| #342. | MeSH descriptor: [Precancerous Conditions] explode all trees |
| #343. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*):ti,ab |
| #344. | #7 or #8 |
| #345. | MeSH descriptor: [Esophagus] explode all trees |
| #346. | MeSH descriptor: [Esophageal Mucosa] explode all trees |
| #347. | (oesophag* or esophag* or intramucosal* or intra-mucosal*):ti,ab |
| #348. | (or #10-#12) |
| #349. | #9 and #13 |
| #350. | MeSH descriptor: [Esophageal Neoplasms] explode all trees |
| #351. | #6 or #14 or #15 |
| #352. | MeSH descriptor: [Adenocarcinoma] this term only |
| #353. | (stage* 1* or stage* I or stage* IA or stage* IB or stage* IC or earl* stage* or T1* or adenocarcinom*):ti,ab |
| #354. | #17 or #18 |
| #355. | #16 and #19 |
| #356. | MeSH descriptor: [Radiotherapy] this term only |
| #357. | MeSH descriptor: [Radiation Oncology] this term only |
| #358. | MeSH descriptor: [Brachytherapy] this term only |
| #359. | MeSH descriptor: [Drug Therapy] this term only |
| #360. | MeSH descriptor: [Drug Therapy, Combination] this term only |
| #361. | MeSH descriptor: [Fluorouracil] explode all trees |
| #362. | MeSH descriptor: [Leucovorin] explode all trees |
| #363. | MeSH descriptor: [Paclitaxel] explode all trees |
| #364. | MeSH descriptor: [Cisplatin] this term only |
| #365. | MeSH descriptor: [Bevacizumab] this term only |
| #366. | MeSH descriptor: [Methotrexate] this term only |
| #367. | MeSH descriptor: [Epirubicin] explode all trees |
| #368. | MeSH descriptor: [Irinotecan] this term only |
| #369. | MeSH descriptor: [Carboplatin] this term only |
| #370. | MeSH descriptor: [Oxaliplatin] this term only |
| #371. | MeSH descriptor: [Docetaxel] this term only |

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| #372. | MeSH descriptor: [Combined Modality Therapy] this term only |
| #373. | MeSH descriptor: [Chemoradiotherapy] this term only |
| #374. | (radiotherap* or chemoradio* or chemoradiation* or radiation* or chemotherap* or hyperthermochemoradiotherap* or brachytherap* or external beam*):ti,ab |
| #375. | ((oncological* or nonsurg* or non surg* or combined or combination) near/2 (therap* or treatment* or approach* or strateg* or manag*)):ti,ab |
| #376. | (flourouracil or capecitabine or xeloda or cisplatin or bevacizumab or methotrexate or epirubicin or pharmorubicin or irinotecan or leucovorin or folinic acid or campto or carboplatin or oxaliplatin or eloxatin or docetaxel or taxotere or paclitaxel or taxol or XELOX or FOLFOX or FOLFIRI or XELIRI or 5?FU or FLOT):ti,ab |
| #377. | MeSH descriptor: [Endoscopy, Gastrointestinal] this term only |
| #378. | MeSH descriptor: [Capsule Endoscopy] this term only |
| #379. | MeSH descriptor: [Esophagoscopy] this term only |
| #380. | (oesophagoscop* or esophagoscop*):ti,ab |
| #381. | (videoendoscop* or endomicroscop* or spectroscop* or endocytoscop* or gastroscop*):ti,ab |
| #382. | (endoscop* near/2 (imag* or diagn* or identif* or surveillanc* or monitor* or observ* or detect*)):ti,ab |
| #383. | ((capsule or transnasal or nasal) near/2 endoscop*):ti,ab |
| #384. | MeSH descriptor: [Optical Imaging] explode all trees |
| #385. | MeSH descriptor: [Acetic Acid] explode all trees |
| #386. | MeSH descriptor: [Molecular Imaging] this term only |
| #387. | ((molecular or autofluorescen* or fluorescen*) near/3 (imag* or endoscop*)):ti,ab |
| #388. | ((magnif* or high resolution or high definition) near/3 endoscop*):ti,ab |
| #389. | (chromatograph* or chromoendoscop* or chromoscop* or volumetric laser* or acetic acid or methylene blue or indigo carmine or narrow band or white light or blue laser or blue light or flexible spectral imaging colo?r enhancement or optical coherence tomography or optical enhancement):ti,ab |
| #390. | MeSH descriptor: [Artificial Intelligence] explode all trees |
| #391. | (artificial intelligence or (computer next (assisted or aided)) or ((deep or machine) next learning) or neural network*):ti,ab |
| #392. | (wide area transepithelial sampling or WATS3D or WATS 3D):ti,ab |
| #393. | (endoscop* near/2 brush*):ti,ab |
| #394. | (HRE or WLE or NBI or BLI or FICE or AFI or OCT or ETMI or AI or CAD):ti,ab |
| #395. | (or #21-#59) |
| #396. | #20 and #60 |
| #397. | conference:pt or (clinicaltrials or trialsearch):so |
| #398. | #61 not #62 |

Epistemonikos search terms

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| 10. | (title:(Barrett* OR "oesophageal adenocarcinoma*" OR "esophageal adenocarcinoma*" OR "oesophageal cancer*" OR "esophageal cancer*" OR "oesophageal carcinoma*" OR "esophageal carcinoma*" OR "oesophageal metaplas*" OR "esophageal dysplas*" OR "column* epithel*" OR "intestin* metaplas*" OR "intestin* dysplas*")) OR abstract:(Barrett* OR "oesophageal adenocarcinoma*" OR "esophageal adenocarcinoma*" OR "oesophageal cancer*" OR "esophageal cancer*" OR "oesophageal carcinoma*" OR "esophageal carcinoma*" OR "oesophageal metaplas*" OR "esophageal dysplas*" OR "column* epithel*" OR "intestin* metaplas*" OR "intestin* dysplas*")) AND (title:(radiotherap* OR chemoradio* OR chemoradiation* OR radiation* OR chemotherap* OR hyperthermochemoradiotherap* OR brachytherap* OR "external beam*" OR "combination therap*" OR "oncological* therap*" OR "nonsurg* therap*" OR "non surg* therap*" OR "non-surg* therap*" OR "oncological* treatment*" OR "nonsurg* treatment*" OR "non surg* treatment*" OR "non-surg* |
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| <p>treatment*" OR "nonsurg* approach*" OR "non surg* approach*" OR "non-surg* approach*" OR fluorouracil OR capecitabine OR xeloda OR cisplatin OR bevacizumab OR methotrexate OR epirubicin OR pharmorubicin OR irinotecan OR leucovorin OR "folinic acid" OR campto OR carboplatin OR oxaliplatin OR eloxatin OR docetaxel OR taxotere OR paclitaxel OR taxol OR XELOX OR FOLFOX OR FOLFIRI OR XELIRI OR 5FU OR "5-FU" OR FLOT OR "endoscop* imag*" OR "endoscop* diagn*" OR "endoscop* identif*" OR "endoscop* surveillanc*" OR "surveillanc* endoscop*" OR "endoscop* monitor*" OR "endoscop* observ*" OR "endoscop* detect*" OR "capsule endoscop*" OR "transnasal endoscop*" OR "nasal endoscop*" OR "magnif* endoscop*" OR "high resolution endoscop*" OR "high definition endoscop*" OR videoendoscop* OR endomicroscop* OR spectroscop* OR endocytoscop* OR oesophagoscop* OR esophagoscop* OR chromatograph* OR chromoendoscop* OR chromoscop* OR "volumetric laser" OR "acetic acid" OR "methylene blue" OR "indigo carmine" OR "narrow band" OR "white light" OR "blue laser" OR "blue light" OR "flexible spectral imaging" OR autofluorescen* OR fluorescen* OR "optical coherence tomography" OR trimodal OR "tri modal" OR "optical enhancement" OR "artificial intelligence" OR "computer assisted" "computer aided" OR "deep learning" OR "machine learning" OR "neural network" OR "wide area transepithelial sampling" OR WATS3D OR "WATS 3D") OR abstract:(radiotherap* OR chemoradio* OR chemoradiation* OR radiation* OR chemotherap* OR hyperthermochemoradiotherap* OR brachytherap* OR "external beam*" OR "combination therap*" OR "oncological* therap*" OR "nonsurg* therap*" OR "non surg* therap*" OR "non-surg* therap*" OR "oncological* treatment*" OR "nonsurg* treatment*" OR "non surg* treatment*" OR "non-surg* treatment*" OR "nonsurg* approach*" OR "non surg* approach*" OR "non-surg* approach*" OR fluorouracil OR capecitabine OR xeloda OR cisplatin OR bevacizumab OR methotrexate OR epirubicin OR pharmorubicin OR irinotecan OR leucovorin OR "folinic acid" OR campto OR carboplatin OR oxaliplatin OR eloxatin OR docetaxel OR taxotere OR paclitaxel OR taxol OR XELOX OR FOLFOX OR FOLFIRI OR XELIRI OR 5FU OR "5-FU" OR FLOT OR "endoscop* imag*" OR "endoscop* diagn*" OR "endoscop* identif*" OR "endoscop* surveillanc*" OR "surveillanc* endoscop*" OR "endoscop* monitor*" OR "endoscop* observ*" OR "endoscop* detect*" OR "capsule endoscop*" OR "transnasal endoscop*" OR "nasal endoscop*" OR "magnif* endoscop*" OR "high resolution endoscop*" OR "high definition endoscop*" OR videoendoscop* OR endomicroscop* OR spectroscop* OR endocytoscop* OR oesophagoscop* OR esophagoscop* OR chromatograph* OR chromoendoscop* OR chromoscop* OR "volumetric laser" OR "acetic acid" OR "methylene blue" OR "indigo carmine" OR "narrow band" OR "white light" OR "blue laser" OR "blue light" OR "flexible spectral imaging" OR autofluorescen* OR fluorescen* OR "optical coherence tomography" OR trimodal OR "tri modal" OR "optical enhancement" OR "artificial intelligence" OR "computer assisted" "computer aided" OR "deep learning" OR "machine learning" OR "neural network" OR "wide area transepithelial sampling" OR WATS3D OR "WATS 3D")</p> |
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A.10.2 Health Economics literature search strategy

Health economic evidence was identified by conducting searches using terms for a broad Barrett's Oesophagus population. The following databases were searched: NHS Economic Evaluation Database (NHS EED - this ceased to be updated after 31st March 2015), Health Technology Assessment database (HTA - this ceased to be updated from 31st March 2018) and The International Network of Agencies for Health Technology Assessment (INAHTA). Searches for recent evidence were run on Medline and Embase from 2014 onwards for health economics, and all years for quality-of-life studies.

Table 2: Database parameters, filters and limits applied

| Database | Dates searched | Search filters and limits applied |
|----------------------------------------------------------------------------------------------|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Medline (OVID) | Health Economics 1 January 2014 – 29 April 2022 | Health economics studies Quality of life studies |
| | Quality of Life 1946 – 29 April 2022 | Exclusions (animal studies, letters, comments, editorials, case studies/reports) English language |
| Embase (OVID) | Health Economics 1 January 2014 – 29 April 2022 | Health economics studies Quality of life studies |
| | Quality of Life 1974 – 29 April 2022 | Exclusions (animal studies, letters, comments, editorials, case studies/reports, conference abstracts) English language |
| NHS Economic Evaluation Database (NHS EED) (Centre for Research and Dissemination - CRD) | Inception –31 st March 2015 | |
| Health Technology Assessment Database (HTA) (Centre for Research and Dissemination – CRD) | Inception – 31 st March 2018 | |
| The International Network of Agencies for Health Technology Assessment (INAHTA) | Inception - 29 April 2022 | English language |

Medline (Ovid) search terms

| | |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 74. | exp Barrett esophagus/ |
| 75. | barrett*.ti,ab. |
| 76. | (speciali* adj3 (epithel* or oesophag* or esophag* or mucos*)).ti,ab. |
| 77. | (column* adj3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*)).ti,ab. |
| 78. | or/1-4 |
| 79. | Precancerous conditions/ |
| 80. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*).ti,ab. |
| 81. | 6 or 7 |
| 82. | exp Esophagus/ |
| 83. | Esophageal Mucosa/ |
| 84. | (oesophag* or esophag* or intramucosal* or intra-mucosal*).ti,ab. |

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| 85. | or/9-11 |
| 86. | 8 and 12 |
| 87. | exp Esophageal Neoplasms/ |
| 88. | 5 or 13 or 14 |
| 89. | letter/ |
| 90. | editorial/ |
| 91. | news/ |
| 92. | exp historical article/ |
| 93. | Anecdotes as Topic/ |
| 94. | comment/ |
| 95. | case report/ |
| 96. | (letter or comment*).ti. |
| 97. | or/16-23 |
| 98. | randomized controlled trial/ or random*.ti,ab. |
| 99. | 24 not 25 |
| 100. | animals/ not humans/ |
| 101. | exp Animals, Laboratory/ |
| 102. | exp Animal Experimentation/ |
| 103. | exp Models, Animal/ |
| 104. | exp Rodentia/ |
| 105. | (rat or rats or mouse or mice or rodent*).ti. |
| 106. | or/26-32 |
| 107. | 15 not 33 |
| 108. | limit 34 to English language |
| 109. | economics/ |
| 110. | value of life/ |
| 111. | exp "costs and cost analysis"/ |
| 112. | exp Economics, Hospital/ |
| 113. | exp Economics, medical/ |
| 114. | Economics, nursing/ |
| 115. | economics, pharmaceutical/ |
| 116. | exp "Fees and Charges"/ |
| 117. | exp budgets/ |
| 118. | budget*.ti,ab. |
| 119. | cost*.ti. |
| 120. | (economic* or pharmaco?economic*).ti. |
| 121. | (price* or pricing*).ti,ab. |
| 122. | (cost* adj2 (effectiv* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab. |
| 123. | (financ* or fee or fees).ti,ab. |
| 124. | (value adj2 (money or monetary)).ti,ab. |
| 125. | or/36-51 |
| 126. | quality-adjusted life years/ |

| | |
|------|-------------------------------------------------------------------------------------------|
| 127. | sickness impact profile/ |
| 128. | (quality adj2 (wellbeing or well being)).ti,ab. |
| 129. | sickness impact profile.ti,ab. |
| 130. | disability adjusted life.ti,ab. |
| 131. | (qal* or qtime* or qwb* or daly*).ti,ab. |
| 132. | (euroqol* or eq5d* or eq 5*).ti,ab. |
| 133. | (qol* or hql* or hqol* or h qol* or hrqol* or hr qol*).ti,ab. |
| 134. | (health utility* or utility score* or disutilit* or utility value*).ti,ab. |
| 135. | (hui or hui1 or hui2 or hui3).ti,ab. |
| 136. | (health* year* equivalent* or hye or hyes).ti,ab. |
| 137. | discrete choice*.ti,ab. |
| 138. | rosser.ti,ab. |
| 139. | (willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab. |
| 140. | (sf36* or sf 36* or short form 36* or shortform 36* or shortform36*).ti,ab. |
| 141. | (sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab. |
| 142. | (sf12* or sf 12* or short form 12* or shortform 12* or shortform12*).ti,ab. |
| 143. | (sf8* or sf 8* or short form 8* or shortform 8* or shortform8*).ti,ab. |
| 144. | (sf6* or sf 6* or short form 6* or shortform 6* or shortform6*).ti,ab. |
| 145. | or/53-71 |
| 146. | 35 and (52 or 72) |

Embase (Ovid) search terms

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| 72. | exp Barrett esophagus/ |
| 73. | barrett*.ti,ab. |
| 74. | (speciali* adj3 (epithel* or oesophag* or esophag* or mucos*)).ti,ab. |
| 75. | (column* adj3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*)).ti,ab. |
| 76. | or/1-4 |
| 77. | Precancer/ |
| 78. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*).ti,ab. |
| 79. | 6 or 7 |
| 80. | exp Esophagus/ |
| 81. | Esophagus Mucosa/ |
| 82. | (oesophag* or esophag*).ti,ab. |
| 83. | or/9-11 |
| 84. | 8 and 12 |
| 85. | exp Esophagus Tumor/ |
| 86. | 5 or 13 or 14 |
| 87. | letter.pt. or letter/ |
| 88. | note.pt. |
| 89. | editorial.pt. |
| 90. | case report/ or case study/ |

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| 91. | (letter or comment*).ti. |
| 92. | (conference abstract or conference paper).pt. |
| 93. | or/16-21 |
| 94. | randomized controlled trial/ or random*.ti,ab. |
| 95. | 22 not 23 |
| 96. | animal/ not human/ |
| 97. | nonhuman/ |
| 98. | exp Animal Experiment/ |
| 99. | exp Experimental Animal/ |
| 100. | animal model/ |
| 101. | exp Rodent/ |
| 102. | (rat or rats or mouse or mice or rodent*).ti. |
| 103. | or/24-31 |
| 104. | 15 not 32 |
| 105. | limit 33 to English language |
| 106. | health economics/ |
| 107. | exp economic evaluation/ |
| 108. | exp health care cost/ |
| 109. | exp fee/ |
| 110. | budget/ |
| 111. | funding/ |
| 112. | budget*.ti,ab. |
| 113. | cost*.ti. |
| 114. | (economic* or pharmaco?economic*).ti. |
| 115. | (price* or pricing*).ti,ab. |
| 116. | (cost* adj2 (effectiv* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab. |
| 117. | (financ* or fee or fees).ti,ab. |
| 118. | (value adj2 (money or monetary)).ti,ab. |
| 119. | or/35-47 |
| 120. | quality-adjusted life years/ |
| 121. | "quality of life index"/ |
| 122. | short form 12/ or short form 20/ or short form 36/ or short form 8/ |
| 123. | sickness impact profile/ |
| 124. | (quality adj2 (wellbeing or well being)).ti,ab. |
| 125. | sickness impact profile.ti,ab. |
| 126. | disability adjusted life.ti,ab. |
| 127. | (qal* or qtime* or qwb* or daly*).ti,ab. |
| 128. | (euroqol* or eq5d* or eq 5*).ti,ab. |
| 129. | (qol* or hq1* or hqol* or h qol* or hrqol* or hr qol*).ti,ab. |
| 130. | (health utility* or utility score* or disutilit* or utility value*).ti,ab. |
| 131. | (hui or hui1 or hui2 or hui3).ti,ab. |
| 132. | (health* year* equivalent* or hye or hyes).ti,ab. |
| 133. | discrete choice*.ti,ab. |
| 134. | rosser.ti,ab. |
| 135. | (willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab. |
| 136. | (sf36* or sf 36* or short form 36* or shortform 36* or shortform36*).ti,ab. |
| 137. | (sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab. |

| | |
|------|-----------------------------------------------------------------------------|
| 138. | (sf12* or sf 12* or short form 12* or shortform 12* or shortform12*).ti,ab. |
| 139. | (sf8* or sf 8* or short form 8* or shortform 8* or shortform8*).ti,ab. |
| 140. | (sf6* or sf 6* or short form 6* or shortform 6* or shortform6*).ti,ab. |
| 141. | or/49-69 |
| 142. | 34 and (48 or 70) |

NHS EED and HTA (CRD) search terms

| | |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| #17. | MeSH DESCRIPTOR Barrett Esophagus EXPLODE ALL TREES |
| #18. | (barrett*) |
| #19. | (speciali*) AND (epithel* or oesophag* or esophag* or mucos*) |
| #20. | (column*) AND (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*) |
| #21. | #1 OR #2 OR #3 OR #4 |
| #22. | MeSH DESCRIPTOR Precancerous Conditions EXPLODE ALL TREES |
| #23. | ((dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*)) |
| #24. | #6 OR #7 |
| #25. | MeSH DESCRIPTOR Esophagus EXPLODE ALL TREES |
| #26. | MeSH DESCRIPTOR Esophageal Mucosa EXPLODE ALL TREES |
| #27. | (oesophag* or esophag* or intramucosal* or intra-mucosal*) |
| #28. | #9 OR #10 OR #11 |
| #29. | #8 AND #12 |
| #30. | #5 OR #13 |
| #31. | MeSH DESCRIPTOR Esophageal Neoplasms EXPLODE ALL TREES |
| #32. | #14 OR #15 |

INAHTA search terms

| | |
|----|-----------------------------------------------------------------------|
| 1. | ("Barrett Esophagus"[mh]) OR (Barrett*) OR (Esophageal Neoplasms)[mh] |
|----|-----------------------------------------------------------------------|

A.11 6.1 6.2 Anti-reflux

This literature search strategy was used for the following reviews:

- For adults with Barrett's Oesophagus, what is the clinical and cost effectiveness of anti-reflux surgery to reduce progression to dysplasia or cancer?
- For adults with Barrett's Oesophagus or stage 1 adenocarcinoma, what is the clinical and cost effectiveness of anti-reflux surgery to induce remission of disease or prevent recurrence?

The literature searches for this review are detailed below and complied with the methodology outlined in Developing NICE guidelines: the manual. {NICE2014}

For more information, please see the Methodology review published as part of the accompanying documents for this guideline.

A.11.1 Clinical search literature search strategy

Searches were constructed using a PICO framework where population (P) terms were combined with Intervention (I) and in some cases Comparison (C) terms. Outcomes (O) are rarely used in search strategies as these concepts may not be indexed or described in the title or abstract and are therefore difficult to retrieve.

Table 1: Database parameters, filters and limits applied

| Database | Dates searched | Search filter used |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Medline (OVID) | 1946 – 28 April 2022 | Exclusions (animal studies, letters, comments, editorials, case studies/reports) English language |
| Embase (OVID) | 1974 – 28 April 2022 | Exclusions (animal studies, letters, comments, editorials, case studies/reports, conference abstracts) English language |
| The Cochrane Library (Wiley) | Cochrane Database of Systematic Reviews to Issue 4 of 12, April 2022 Cochrane Central Register of Controlled Trials to Issue 4 of 12, April 2022 | Exclusions (clinical trials, conference abstracts) |
| Epistemonikos (The Epistemonikos Foundation) | Inception to 28 April 2022 | Systematic review Exclusions (Cochrane reviews) |

Medline (Ovid) search terms

| | |
|------|-----------------------------------------------------------------------------------------------------|
| 884. | exp Barrett esophagus/ |
| 885. | barrett*.ti,ab. |
| 886. | (speciali* adj3 (epithel* or oesophag* or esophag* or mucos*)).ti,ab. |
| 887. | (column* adj3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*)).ti,ab. |
| 888. | (intestin* adj2 metaplas*).ti,ab. |

| | |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 889. | or/1-5 |
| 890. | Precancerous conditions/ |
| 891. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*).ti,ab. |
| 892. | 7 or 8 |
| 893. | exp Esophagus/ |
| 894. | Esophageal Mucosa/ |
| 895. | (oesophag* or esophag* or intramucosal* or intra-mucosal*).ti,ab. |
| 896. | or/10-12 |
| 897. | 9 and 13 |
| 898. | exp Esophageal Neoplasms/ |
| 899. | 6 or 14 or 15 |
| 900. | letter/ |
| 901. | editorial/ |
| 902. | news/ |
| 903. | exp historical article/ |
| 904. | Anecdotes as Topic/ |
| 905. | comment/ |
| 906. | case report/ |
| 907. | (letter or comment*).ti. |
| 908. | or/17-24 |
| 909. | randomized controlled trial/ or random*.ti,ab. |
| 910. | 25 not 26 |
| 911. | animals/ not humans/ |
| 912. | exp Animals, Laboratory/ |
| 913. | exp Animal Experimentation/ |
| 914. | exp Models, Animal/ |
| 915. | exp Rodentia/ |
| 916. | (rat or rats or mouse or mice or rodent*).ti. |
| 917. | or/27-33 |
| 918. | 16 not 34 |
| 919. | limit 35 to English language |
| 920. | Fundoplication/ |
| 921. | Gastroesophageal Reflux/su [Surgery] |
| 922. | (fundoplicat* or fundo plicat* or fundalplicat* or fundal plicat* or fundic wrap*).ti,ab,kf. |
| 923. | (nissen or rossetti or toupet or lind or watson or belsey or thal or dor).ti,ab,kf. |
| 924. | (antireflux or anti reflux).ti,ab,kf. |
| 925. | or/37-41 |
| 926. | 36 and 42 |

Embase (Ovid) search terms

| | |
|------|-----------------------------------------------------------------------------------------------------|
| 941. | exp Barrett esophagus/ |
| 942. | barrett*.ti,ab. |
| 943. | (speciali* adj3 (epithel* or oesophag* or esophag* or mucos*)).ti,ab. |
| 944. | (column* adj3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*)).ti,ab. |
| 945. | (intestin* adj2 metaplas*).ti,ab. |

| | |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 946. | or/1-5 |
| 947. | Precancer/ |
| 948. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*).ti,ab. |
| 949. | 7 or 8 |
| 950. | exp Esophagus/ |
| 951. | Esophagus Mucosa/ |
| 952. | (oesophag* or esophag*).ti,ab. |
| 953. | or/10-12 |
| 954. | 9 and 13 |
| 955. | exp Esophagus Tumor/ |
| 956. | 6 or 14 or 15 |
| 957. | letter.pt. or letter/ |
| 958. | note.pt. |
| 959. | editorial.pt. |
| 960. | case report/ or case study/ |
| 961. | (letter or comment*).ti. |
| 962. | (conference abstract or conference paper).pt. |
| 963. | or/17-22 |
| 964. | randomized controlled trial/ or random*.ti,ab. |
| 965. | 23 not 24 |
| 966. | animal/ not human/ |
| 967. | nonhuman/ |
| 968. | exp Animal Experiment/ |
| 969. | exp Experimental Animal/ |
| 970. | animal model/ |
| 971. | exp Rodent/ |
| 972. | (rat or rats or mouse or mice or rodent*).ti. |
| 973. | or/25-32 |
| 974. | 16 not 33 |
| 975. | limit 34 to English language |
| 976. | exp stomach fundoplication/ |
| 977. | gastroesophageal reflux/su [Surgery] |
| 978. | (fundoplicat* or fundo plicat* or fundalplicat* or fundal plicat* or fundic wrap*).ti,ab,kf. |
| 979. | (nissen or rossetti or toupet or lind or watson or belsey or thal or dor).ti,ab,kf. |
| 980. | (antireflux or anti reflux).ti,ab,kf. |
| 981. | or/36-40 |
| 982. | 35 and 41 |

Cochrane Library (Wiley) search terms

| | |
|-------|----------------------------------------------------------------------------------------------------|
| #399. | MeSH descriptor: [Barrett Esophagus] explode all trees |
| #400. | barrett*.ti,ab |
| #401. | speciali* near/3 (epithel* or oesophag* or esophag* or mucos*):ti,ab |
| #402. | column* near/3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*):ti,ab |
| #403. | (intestin* near/2 metaplas*):ti,ab |
| #404. | (or #1-#5) |

| | |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| #405. | MeSH descriptor: [Precancerous Conditions] explode all trees |
| #406. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*):ti,ab |
| #407. | #7 or #8 |
| #408. | MeSH descriptor: [Esophagus] explode all trees |
| #409. | MeSH descriptor: [Esophageal Mucosa] explode all trees |
| #410. | (oesophag* or esophag* or intramucosal* or intra-mucosal*):ti,ab |
| #411. | (or #10-#12) |
| #412. | #9 and #13 |
| #413. | MeSH descriptor: [Esophageal Neoplasms] explode all trees |
| #414. | #6 or #14 or #15 |
| #415. | MeSH descriptor: [Fundoplication] this term only |
| #416. | MeSH descriptor: [Gastroesophageal Reflux] this term only and with qualifier(s): [surgery - SU] |
| #417. | (fundoplicat* or fundo plicat* or fundalplicat* or fundal plicat* or fundic wrap*):ti,ab,kw |
| #418. | (nissen or rossetti or toupet or lind or watson or belsey or thal or dor):ti,ab,kw |
| #419. | (antireflux or anti reflux):ti,ab,kw |
| #420. | (or #17-#21) |
| #421. | #16 and #22 |
| #422. | conference:pt or (clinicaltrials or trialsearch):so |
| #423. | #23 not #24 |

Epistemonikos search terms

| | |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11. | (title:(Barrett* OR "oesophageal adenocarcinoma*" OR "esophageal adenocarcinoma*" OR "oesophageal cancer*" OR "esophageal cancer*" OR "oesophageal carcinoma*" OR "esophageal carcinoma*" OR "oesophageal metaplas*" OR "esophageal dysplas*" OR "column* epithel*" OR "intestin* metaplas*" OR "intestin* dysplas*") OR abstract:(Barrett* OR "oesophageal adenocarcinoma*" OR "esophageal adenocarcinoma*" OR "oesophageal cancer*" OR "esophageal cancer*" OR "oesophageal carcinoma*" OR "esophageal carcinoma*" OR "oesophageal metaplas*" OR "esophageal dysplas*" OR "column* epithel*" OR "intestin* metaplas*" OR "intestin* dysplas*")) AND (title:(fundoplicat* OR "fundo plicat*" OR fundalplicat* OR "fundal plicat*" OR "fundic wrap*" OR nissen OR rossetti OR toupet OR lind OR watson OR besley OR thal OR dor OR antireflux OR "anti reflux") OR abstract:(fundoplicat* OR "fundo plicat*" OR fundalplicat* OR "fundal plicat*" OR "fundic wrap*" OR nissen OR rossetti OR toupet OR lind OR watson OR besley OR thal OR dor OR antireflux OR "anti reflux")) |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

A.11.2 Health Economics literature search strategy

Health economic evidence was identified by conducting searches using terms for a broad Barrett's Oesophagus population. The following databases were searched: NHS Economic Evaluation Database (NHS EED - this ceased to be updated after 31st March 2015), Health Technology Assessment database (HTA - this ceased to be updated from 31st March 2018) and The International Network of Agencies for Health Technology Assessment (INAHTA). Searches for recent evidence were run on Medline and Embase from 2014 onwards for health economics, and all years for quality-of-life studies.

Table 2: Database parameters, filters and limits applied

| Database | Dates searched | Search filters and limits applied |
|----------------------------------------------------------------------------------------------|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Medline (OVID) | Health Economics 1 January 2014 – 29 April 2022 | Health economics studies Quality of life studies |
| | Quality of Life 1946 – 29 April 2022 | Exclusions (animal studies, letters, comments, editorials, case studies/reports) English language |
| Embase (OVID) | Health Economics 1 January 2014 – 29 April 2022 | Health economics studies Quality of life studies |
| | Quality of Life 1974 – 29 April 2022 | Exclusions (animal studies, letters, comments, editorials, case studies/reports, conference abstracts) English language |
| NHS Economic Evaluation Database (NHS EED) (Centre for Research and Dissemination - CRD) | Inception –31 st March 2015 | |
| Health Technology Assessment Database (HTA) (Centre for Research and Dissemination – CRD) | Inception – 31 st March 2018 | |
| The International Network of Agencies for Health Technology Assessment (INAHTA) | Inception - 29 April 2022 | English language |

Medline (Ovid) search terms

| | |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 147. | exp Barrett esophagus/ |
| 148. | barrett*.ti,ab. |
| 149. | (speciali* adj3 (epithel* or oesophag* or esophag* or mucos*)).ti,ab. |
| 150. | (column* adj3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*)).ti,ab. |
| 151. | or/1-4 |
| 152. | Precancerous conditions/ |
| 153. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*).ti,ab. |
| 154. | 6 or 7 |
| 155. | exp Esophagus/ |
| 156. | Esophageal Mucosa/ |
| 157. | (oesophag* or esophag* or intramucosal* or intra-mucosal*).ti,ab. |

| | |
|------|--------------------------------------------------------------------------------------------------|
| 158. | or/9-11 |
| 159. | 8 and 12 |
| 160. | exp Esophageal Neoplasms/ |
| 161. | 5 or 13 or 14 |
| 162. | letter/ |
| 163. | editorial/ |
| 164. | news/ |
| 165. | exp historical article/ |
| 166. | Anecdotes as Topic/ |
| 167. | comment/ |
| 168. | case report/ |
| 169. | (letter or comment*).ti. |
| 170. | or/16-23 |
| 171. | randomized controlled trial/ or random*.ti,ab. |
| 172. | 24 not 25 |
| 173. | animals/ not humans/ |
| 174. | exp Animals, Laboratory/ |
| 175. | exp Animal Experimentation/ |
| 176. | exp Models, Animal/ |
| 177. | exp Rodentia/ |
| 178. | (rat or rats or mouse or mice or rodent*).ti. |
| 179. | or/26-32 |
| 180. | 15 not 33 |
| 181. | limit 34 to English language |
| 182. | economics/ |
| 183. | value of life/ |
| 184. | exp "costs and cost analysis"/ |
| 185. | exp Economics, Hospital/ |
| 186. | exp Economics, medical/ |
| 187. | Economics, nursing/ |
| 188. | economics, pharmaceutical/ |
| 189. | exp "Fees and Charges"/ |
| 190. | exp budgets/ |
| 191. | budget*.ti,ab. |
| 192. | cost*.ti. |
| 193. | (economic* or pharmaco?economic*).ti. |
| 194. | (price* or pricing*).ti,ab. |
| 195. | (cost* adj2 (effectiv* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab. |
| 196. | (financ* or fee or fees).ti,ab. |
| 197. | (value adj2 (money or monetary)).ti,ab. |
| 198. | or/36-51 |
| 199. | quality-adjusted life years/ |

| | |
|------|-------------------------------------------------------------------------------------------|
| 200. | sickness impact profile/ |
| 201. | (quality adj2 (wellbeing or well being)).ti,ab. |
| 202. | sickness impact profile.ti,ab. |
| 203. | disability adjusted life.ti,ab. |
| 204. | (qal* or qtime* or qwb* or daly*).ti,ab. |
| 205. | (euroqol* or eq5d* or eq 5*).ti,ab. |
| 206. | (qol* or hql* or hqol* or h qol* or hrqol* or hr qol*).ti,ab. |
| 207. | (health utility* or utility score* or disutilit* or utility value*).ti,ab. |
| 208. | (hui or hui1 or hui2 or hui3).ti,ab. |
| 209. | (health* year* equivalent* or hye or hyes).ti,ab. |
| 210. | discrete choice*.ti,ab. |
| 211. | rosser.ti,ab. |
| 212. | (willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab. |
| 213. | (sf36* or sf 36* or short form 36* or shortform 36* or shortform36*).ti,ab. |
| 214. | (sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab. |
| 215. | (sf12* or sf 12* or short form 12* or shortform 12* or shortform12*).ti,ab. |
| 216. | (sf8* or sf 8* or short form 8* or shortform 8* or shortform8*).ti,ab. |
| 217. | (sf6* or sf 6* or short form 6* or shortform 6* or shortform6*).ti,ab. |
| 218. | or/53-71 |
| 219. | 35 and (52 or 72) |

Embase (Ovid) search terms

| | |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 143. | exp Barrett esophagus/ |
| 144. | barrett*.ti,ab. |
| 145. | (speciali* adj3 (epithel* or oesophag* or esophag* or mucos*)).ti,ab. |
| 146. | (column* adj3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*)).ti,ab. |
| 147. | or/1-4 |
| 148. | Precancer/ |
| 149. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*).ti,ab. |
| 150. | 6 or 7 |
| 151. | exp Esophagus/ |
| 152. | Esophagus Mucosa/ |
| 153. | (oesophag* or esophag*).ti,ab. |
| 154. | or/9-11 |
| 155. | 8 and 12 |
| 156. | exp Esophagus Tumor/ |
| 157. | 5 or 13 or 14 |
| 158. | letter.pt. or letter/ |
| 159. | note.pt. |
| 160. | editorial.pt. |
| 161. | case report/ or case study/ |

| | |
|------|--------------------------------------------------------------------------------------------------|
| 162. | (letter or comment*).ti. |
| 163. | (conference abstract or conference paper).pt. |
| 164. | or/16-21 |
| 165. | randomized controlled trial/ or random*.ti,ab. |
| 166. | 22 not 23 |
| 167. | animal/ not human/ |
| 168. | nonhuman/ |
| 169. | exp Animal Experiment/ |
| 170. | exp Experimental Animal/ |
| 171. | animal model/ |
| 172. | exp Rodent/ |
| 173. | (rat or rats or mouse or mice or rodent*).ti. |
| 174. | or/24-31 |
| 175. | 15 not 32 |
| 176. | limit 33 to English language |
| 177. | health economics/ |
| 178. | exp economic evaluation/ |
| 179. | exp health care cost/ |
| 180. | exp fee/ |
| 181. | budget/ |
| 182. | funding/ |
| 183. | budget*.ti,ab. |
| 184. | cost*.ti. |
| 185. | (economic* or pharmaco?economic*).ti. |
| 186. | (price* or pricing*).ti,ab. |
| 187. | (cost* adj2 (effectiv* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab. |
| 188. | (financ* or fee or fees).ti,ab. |
| 189. | (value adj2 (money or monetary)).ti,ab. |
| 190. | or/35-47 |
| 191. | quality-adjusted life years/ |
| 192. | "quality of life index"/ |
| 193. | short form 12/ or short form 20/ or short form 36/ or short form 8/ |
| 194. | sickness impact profile/ |
| 195. | (quality adj2 (wellbeing or well being)).ti,ab. |
| 196. | sickness impact profile.ti,ab. |
| 197. | disability adjusted life.ti,ab. |
| 198. | (qal* or qtime* or qwb* or daly*).ti,ab. |
| 199. | (euroqol* or eq5d* or eq 5*).ti,ab. |
| 200. | (qol* or hq1* or hqol* or h qol* or hrqol* or hr qol*).ti,ab. |
| 201. | (health utility* or utility score* or disutilit* or utility value*).ti,ab. |
| 202. | (hui or hui1 or hui2 or hui3).ti,ab. |
| 203. | (health* year* equivalent* or hye or hyes).ti,ab. |
| 204. | discrete choice*.ti,ab. |
| 205. | rosser.ti,ab. |
| 206. | (willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab. |
| 207. | (sf36* or sf 36* or short form 36* or shortform 36* or shortform36*).ti,ab. |
| 208. | (sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab. |

| | |
|------|-----------------------------------------------------------------------------|
| 209. | (sf12* or sf 12* or short form 12* or shortform 12* or shortform12*).ti,ab. |
| 210. | (sf8* or sf 8* or short form 8* or shortform 8* or shortform8*).ti,ab. |
| 211. | (sf6* or sf 6* or short form 6* or shortform 6* or shortform6*).ti,ab. |
| 212. | or/49-69 |
| 213. | 34 and (48 or 70) |

NHS EED and HTA (CRD) search terms

| | |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| #33. | MeSH DESCRIPTOR Barrett Esophagus EXPLODE ALL TREES |
| #34. | (barrett*) |
| #35. | (speciali*) AND (epithel* or oesophag* or esophag* or mucos*) |
| #36. | (column*) AND (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*) |
| #37. | #1 OR #2 OR #3 OR #4 |
| #38. | MeSH DESCRIPTOR Precancerous Conditions EXPLODE ALL TREES |
| #39. | ((dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*)) |
| #40. | #6 OR #7 |
| #41. | MeSH DESCRIPTOR Esophagus EXPLODE ALL TREES |
| #42. | MeSH DESCRIPTOR Esophageal Mucosa EXPLODE ALL TREES |
| #43. | (oesophag* or esophag* or intramucosal* or intra-mucosal*) |
| #44. | #9 OR #10 OR #11 |
| #45. | #8 AND #12 |
| #46. | #5 OR #13 |
| #47. | MeSH DESCRIPTOR Esophageal Neoplasms EXPLODE ALL TREES |
| #48. | #14 OR #15 |

INAHTA search terms

| | |
|----|-----------------------------------------------------------------------|
| 1. | ("Barrett Esophagus"[mh]) OR (Barrett*) OR (Esophageal Neoplasms)[mh] |
|----|-----------------------------------------------------------------------|

A.12 7.1 Follow up

This literature search strategy was used for the following review:

- For people who have received endoscopic treatment for Barrett's Oesophagus related stage 1 adenocarcinoma, what is the clinical and cost effectiveness of endoscopic follow up with or without radiological follow up?

The literature searches for this review are detailed below and complied with the methodology outlined in Developing NICE guidelines: the manual. {NICE2014}

For more information, please see the Methodology review published as part of the accompanying documents for this guideline.

A.12.1 Clinical search literature search strategy

Searches were constructed using a PICO framework where population (P) terms were combined with Intervention (I) and in some cases Comparison (C) terms. Outcomes (O) are rarely used in search strategies as these concepts may not be indexed or described in the title or abstract and are therefore difficult to retrieve. Search filters were applied to the search where appropriate.

Table 1: Database parameters, filters and limits applied

| Database | Dates searched | Search filter used |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Medline (OVID) | 1946 – 29 April 2022 | Randomised controlled trials Systematic review studies Exclusions (animal studies, letters, comments, editorials, case studies/reports) English language |
| Embase (OVID) | 1974 – 29 April 2022 | Randomised controlled trials Systematic review studies Exclusions (animal studies, letters, comments, editorials, case studies/reports, conference abstracts) English language |
| The Cochrane Library (Wiley) | Cochrane Database of Systematic Reviews to Issue 4 of 12, April 2022 Cochrane Central Register of Controlled Trials to Issue 4 of 12, April 2022 | Exclusions (clinical trials, conference abstracts) |
| Epistemonikos (The Epistemonikos Foundation) | Inception to 29 April 2022 | Systematic review Exclusions (Cochrane reviews) |

Medline (Ovid) search terms

| | |
|------|------------------------|
| 927. | exp Barrett esophagus/ |
|------|------------------------|

| | |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 928. | barrett*.ti,ab. |
| 929. | (speciali* adj3 (epithel* or oesophag* or esophag* or mucos*)).ti,ab. |
| 930. | (column* adj3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*)).ti,ab. |
| 931. | (intestin* adj2 metaplas*).ti,ab. |
| 932. | or/1-5 |
| 933. | Precancerous conditions/ |
| 934. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*).ti,ab. |
| 935. | 7 or 8 |
| 936. | exp Esophagus/ |
| 937. | Esophageal Mucosa/ |
| 938. | (oesophag* or esophag* or intramucosal* or intra-mucosal*).ti,ab. |
| 939. | or/10-12 |
| 940. | 9 and 13 |
| 941. | exp Esophageal Neoplasms/ |
| 942. | 6 or 14 or 15 |
| 943. | letter/ |
| 944. | editorial/ |
| 945. | news/ |
| 946. | exp historical article/ |
| 947. | Anecdotes as Topic/ |
| 948. | comment/ |
| 949. | case report/ |
| 950. | (letter or comment*).ti. |
| 951. | or/17-24 |
| 952. | randomized controlled trial/ or random*.ti,ab. |
| 953. | 25 not 26 |
| 954. | animals/ not humans/ |
| 955. | exp Animals, Laboratory/ |
| 956. | exp Animal Experimentation/ |
| 957. | exp Models, Animal/ |
| 958. | exp Rodentia/ |
| 959. | (rat or rats or mouse or mice or rodent*).ti. |
| 960. | or/27-33 |
| 961. | 16 not 34 |
| 962. | limit 35 to English language |
| 963. | (follow*-up* or followup* or surveillance or monitor* or check-up* or checkup*).ti,ab,kf. |
| 964. | 36 and 37 |
| 965. | Meta-Analysis/ |
| 966. | Meta-Analysis as Topic/ |
| 967. | (meta analy* or metanaly* or metaanaly* or meta regression).ti,ab. |
| 968. | ((systematic* or evidence*) adj3 (review* or overview*)).ti,ab. |
| 969. | (reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab. |

| | |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| 970. | (search strategy or search criteria or systematic search or study selection or data extraction).ab. |
| 971. | (search* adj4 literature).ab. |
| 972. | (medline or pubmed or cochrane or embase or psychlit or psyclit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab. |
| 973. | cochrane.jw. |
| 974. | ((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab. |
| 975. | or/39-48 |
| 976. | randomized controlled trial.pt. |
| 977. | controlled clinical trial.pt. |
| 978. | randomi#ed.ab. |
| 979. | placebo.ab. |
| 980. | randomly.ab. |
| 981. | clinical trials as topic.sh. |
| 982. | trial.ti. |
| 983. | or/50-56 |
| 984. | 38 and (49 or 57) |

Embase (Ovid) search terms

| | |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 983. | exp Barrett esophagus/ |
| 984. | barrett*.ti,ab. |
| 985. | (speciali* adj3 (epithel* or oesophag* or esophag* or mucos*)).ti,ab. |
| 986. | (column* adj3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*)).ti,ab. |
| 987. | (intestin* adj2 metaplas*).ti,ab. |
| 988. | or/1-5 |
| 989. | Precancer/ |
| 990. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*).ti,ab. |
| 991. | 7 or 8 |
| 992. | exp Esophagus/ |
| 993. | Esophagus Mucosa/ |
| 994. | (oesophag* or esophag*).ti,ab. |
| 995. | or/10-12 |
| 996. | 9 and 13 |
| 997. | exp Esophagus Tumor/ |
| 998. | 6 or 14 or 15 |
| 999. | letter.pt. or letter/ |
| 1000. | note.pt. |
| 1001. | editorial.pt. |
| 1002. | case report/ or case study/ |
| 1003. | (letter or comment*).ti. |
| 1004. | (conference abstract or conference paper).pt. |
| 1005. | or/17-22 |
| 1006. | randomized controlled trial/ or random*.ti,ab. |
| 1007. | 23 not 24 |
| 1008. | animal/ not human/ |

| | |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1009. | nonhuman/ |
| 1010. | exp Animal Experiment/ |
| 1011. | exp Experimental Animal/ |
| 1012. | animal model/ |
| 1013. | exp Rodent/ |
| 1014. | (rat or rats or mouse or mice or rodent*).ti. |
| 1015. | or/25-32 |
| 1016. | 16 not 33 |
| 1017. | limit 34 to English language |
| 1018. | (follow*-up* or followup* or surveillance or monitor* or check-up* or checkup*).ti,ab,kf. |
| 1019. | 35 and 36 |
| 1020. | random*.ti,ab. |
| 1021. | factorial*.ti,ab. |
| 1022. | (crossover* or cross over*).ti,ab. |
| 1023. | ((doubl* or singl*) adj blind*).ti,ab. |
| 1024. | (assign* or allocat* or volunteer* or placebo*).ti,ab. |
| 1025. | crossover procedure/ |
| 1026. | single blind procedure/ |
| 1027. | randomized controlled trial/ |
| 1028. | double blind procedure/ |
| 1029. | or/38-46 |
| 1030. | Systematic Review/ |
| 1031. | Meta-Analysis/ |
| 1032. | (meta analy* or metanaly* or metaanaly* or meta regression).ti,ab. |
| 1033. | ((systematic* or evidence*) adj3 (review* or overview*)).ti,ab. |
| 1034. | (reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab. |
| 1035. | (search strategy or search criteria or systematic search or study selection or data extraction).ab. |
| 1036. | (search* adj4 literature).ab. |
| 1037. | (medline or pubmed or cochrane or embase or psychlit or psychlit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab. |
| 1038. | cochrane.jw. |
| 1039. | ((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab. |
| 1040. | or/48-57 |
| 1041. | 37 and (47 or 58) |

Cochrane Library (Wiley) search terms

| | |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| #424. | MeSH descriptor: [Barrett Esophagus] explode all trees |
| #425. | barrett*.ti,ab |
| #426. | speciali* near/3 (epithel* or oesophag* or esophag* or mucos*):ti,ab |
| #427. | column* near/3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*):ti,ab |
| #428. | (intestin* near/2 metaplas*):ti,ab |
| #429. | (or #1-#5) |
| #430. | MeSH descriptor: [Precancerous Conditions] explode all trees |
| #431. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or |

| | |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| | carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*):ti,ab |
| #432. | #7 or #8 |
| #433. | MeSH descriptor: [Esophagus] explode all trees |
| #434. | MeSH descriptor: [Esophageal Mucosa] explode all trees |
| #435. | (oesophag* or esophag* or intramucosal* or intra-mucosal*):ti,ab |
| #436. | (or #10-#12) |
| #437. | #9 and #13 |
| #438. | MeSH descriptor: [Esophageal Neoplasms] explode all trees |
| #439. | #6 or #14 or #15 |
| #440. | (follow* up* or followup* or surveillance or monitor* or check up* or checkup*):ti,ab,kw |
| #441. | #16 and #17 |
| #442. | conference:pt or (clinicaltrials or trialsearch):so |
| #443. | #18 not #19 |

Epistemonikos search terms

| | |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 12. | (title:(Barrett* OR "oesophageal adenocarcinoma*" OR "esophageal adenocarcinoma*" OR "oesophageal cancer*" OR "esophageal cancer*" OR "oesophageal carcinoma*" OR "esophageal carcinoma*" OR "oesophageal metaplas*" OR "esophageal dysplas*" OR "column* epithel*" OR "intestin* metaplas*" OR "intestin* dysplas*") OR abstract:(Barrett* OR "oesophageal adenocarcinoma*" OR "esophageal adenocarcinoma*" OR "oesophageal cancer*" OR "esophageal cancer*" OR "oesophageal carcinoma*" OR "esophageal carcinoma*" OR "oesophageal metaplas*" OR "esophageal dysplas*" OR "column* epithel*" OR "intestin* metaplas*" OR "intestin* dysplas*")) AND (title:("follow* up*" OR followup* OR surveillance OR monitor* OR (check up*) OR checkup*) OR abstract:("follow* up*" OR followup* OR surveillance OR monitor* OR (check up*) OR checkup*)) |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

A.12.2 Health Economics literature search strategy

Health economic evidence was identified by conducting searches using terms for a broad Barrett's Oesophagus population. The following databases were searched: NHS Economic Evaluation Database (NHS EED - this ceased to be updated after 31st March 2015), Health Technology Assessment database (HTA - this ceased to be updated from 31st March 2018) and The International Network of Agencies for Health Technology Assessment (INAHTA). Searches for recent evidence were run on Medline and Embase from 2014 onwards for health economics, and all years for quality-of-life studies.

Table 2: Database parameters, filters and limits applied

| Database | Dates searched | Search filters and limits applied |
|----------------|----------------------------------------------------|-----------------------------------------------------|
| Medline (OVID) | Health Economics 1 January 2014 – 29 April 2022 | Health economics studies Quality of life studies |

| Database | Dates searched | Search filters and limits applied |
|----------------------------------------------------------------------------------------------|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| | Quality of Life 1946 – 29 April 2022 | Exclusions (animal studies, letters, comments, editorials, case studies/reports) English language |
| Embase (OVID) | Health Economics 1 January 2014 – 29 April 2022 | Health economics studies Quality of life studies |
| | Quality of Life 1974 – 29 April 2022 | Exclusions (animal studies, letters, comments, editorials, case studies/reports, conference abstracts) English language |
| NHS Economic Evaluation Database (NHS EED) (Centre for Research and Dissemination - CRD) | Inception – 31 st March 2015 | |
| Health Technology Assessment Database (HTA) (Centre for Research and Dissemination – CRD) | Inception – 31 st March 2018 | |
| The International Network of Agencies for Health Technology Assessment (INAHTA) | Inception - 29 April 2022 | English language |

Medline (Ovid) search terms

| | |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 220. | exp Barrett esophagus/ |
| 221. | barrett*.ti,ab. |
| 222. | (speciali* adj3 (epithel* or oesophag* or esophag* or mucos*)).ti,ab. |
| 223. | (column* adj3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*)).ti,ab. |
| 224. | or/1-4 |
| 225. | Precancerous conditions/ |
| 226. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*).ti,ab. |
| 227. | 6 or 7 |
| 228. | exp Esophagus/ |
| 229. | Esophageal Mucosa/ |
| 230. | (oesophag* or esophag* or intramucosal* or intra-mucosal*).ti,ab. |
| 231. | or/9-11 |
| 232. | 8 and 12 |

| | |
|------|--------------------------------------------------------------------------------------------------|
| 233. | exp Esophageal Neoplasms/ |
| 234. | 5 or 13 or 14 |
| 235. | letter/ |
| 236. | editorial/ |
| 237. | news/ |
| 238. | exp historical article/ |
| 239. | Anecdotes as Topic/ |
| 240. | comment/ |
| 241. | case report/ |
| 242. | (letter or comment*).ti. |
| 243. | or/16-23 |
| 244. | randomized controlled trial/ or random*.ti,ab. |
| 245. | 24 not 25 |
| 246. | animals/ not humans/ |
| 247. | exp Animals, Laboratory/ |
| 248. | exp Animal Experimentation/ |
| 249. | exp Models, Animal/ |
| 250. | exp Rodentia/ |
| 251. | (rat or rats or mouse or mice or rodent*).ti. |
| 252. | or/26-32 |
| 253. | 15 not 33 |
| 254. | limit 34 to English language |
| 255. | economics/ |
| 256. | value of life/ |
| 257. | exp "costs and cost analysis"/ |
| 258. | exp Economics, Hospital/ |
| 259. | exp Economics, medical/ |
| 260. | Economics, nursing/ |
| 261. | economics, pharmaceutical/ |
| 262. | exp "Fees and Charges"/ |
| 263. | exp budgets/ |
| 264. | budget*.ti,ab. |
| 265. | cost*.ti. |
| 266. | (economic* or pharmaco?economic*).ti. |
| 267. | (price* or pricing*).ti,ab. |
| 268. | (cost* adj2 (effectiv* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab. |
| 269. | (financ* or fee or fees).ti,ab. |
| 270. | (value adj2 (money or monetary)).ti,ab. |
| 271. | or/36-51 |
| 272. | quality-adjusted life years/ |
| 273. | sickness impact profile/ |
| 274. | (quality adj2 (wellbeing or well being)).ti,ab. |

| | |
|------|-------------------------------------------------------------------------------------------|
| 275. | sickness impact profile.ti,ab. |
| 276. | disability adjusted life.ti,ab. |
| 277. | (qal* or qtime* or qwb* or daly*).ti,ab. |
| 278. | (euroqol* or eq5d* or eq 5*).ti,ab. |
| 279. | (qol* or hql* or hqol* or h qol* or hrqol* or hr qol*).ti,ab. |
| 280. | (health utility* or utility score* or disutilit* or utility value*).ti,ab. |
| 281. | (hui or hui1 or hui2 or hui3).ti,ab. |
| 282. | (health* year* equivalent* or hye or hyes).ti,ab. |
| 283. | discrete choice*.ti,ab. |
| 284. | rosser.ti,ab. |
| 285. | (willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab. |
| 286. | (sf36* or sf 36* or short form 36* or shortform 36* or shortform36*).ti,ab. |
| 287. | (sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab. |
| 288. | (sf12* or sf 12* or short form 12* or shortform 12* or shortform12*).ti,ab. |
| 289. | (sf8* or sf 8* or short form 8* or shortform 8* or shortform8*).ti,ab. |
| 290. | (sf6* or sf 6* or short form 6* or shortform 6* or shortform6*).ti,ab. |
| 291. | or/53-71 |
| 292. | 35 and (52 or 72) |

Embase (Ovid) search terms

| | |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 214. | exp Barrett esophagus/ |
| 215. | barrett*.ti,ab. |
| 216. | (speciali* adj3 (epithel* or oesophag* or esophag* or mucos*)).ti,ab. |
| 217. | (column* adj3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*)).ti,ab. |
| 218. | or/1-4 |
| 219. | Precancer/ |
| 220. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*).ti,ab. |
| 221. | 6 or 7 |
| 222. | exp Esophagus/ |
| 223. | Esophagus Mucosa/ |
| 224. | (oesophag* or esophag*).ti,ab. |
| 225. | or/9-11 |
| 226. | 8 and 12 |
| 227. | exp Esophagus Tumor/ |
| 228. | 5 or 13 or 14 |
| 229. | letter.pt. or letter/ |
| 230. | note.pt. |
| 231. | editorial.pt. |
| 232. | case report/ or case study/ |
| 233. | (letter or comment*).ti. |
| 234. | (conference abstract or conference paper).pt. |
| 235. | or/16-21 |

| | |
|------|--------------------------------------------------------------------------------------------------|
| 236. | randomized controlled trial/ or random*.ti,ab. |
| 237. | 22 not 23 |
| 238. | animal/ not human/ |
| 239. | nonhuman/ |
| 240. | exp Animal Experiment/ |
| 241. | exp Experimental Animal/ |
| 242. | animal model/ |
| 243. | exp Rodent/ |
| 244. | (rat or rats or mouse or mice or rodent*).ti. |
| 245. | or/24-31 |
| 246. | 15 not 32 |
| 247. | limit 33 to English language |
| 248. | health economics/ |
| 249. | exp economic evaluation/ |
| 250. | exp health care cost/ |
| 251. | exp fee/ |
| 252. | budget/ |
| 253. | funding/ |
| 254. | budget*.ti,ab. |
| 255. | cost*.ti. |
| 256. | (economic* or pharmaco?economic*).ti. |
| 257. | (price* or pricing*).ti,ab. |
| 258. | (cost* adj2 (effectiv* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab. |
| 259. | (financ* or fee or fees).ti,ab. |
| 260. | (value adj2 (money or monetary)).ti,ab. |
| 261. | or/35-47 |
| 262. | quality-adjusted life years/ |
| 263. | "quality of life index"/ |
| 264. | short form 12/ or short form 20/ or short form 36/ or short form 8/ |
| 265. | sickness impact profile/ |
| 266. | (quality adj2 (wellbeing or well being)).ti,ab. |
| 267. | sickness impact profile.ti,ab. |
| 268. | disability adjusted life.ti,ab. |
| 269. | (qal* or qtime* or qwb* or daly*).ti,ab. |
| 270. | (euroqol* or eq5d* or eq 5*).ti,ab. |
| 271. | (qol* or hql* or hqol* or h qol* or hrqol* or hr qol*).ti,ab. |
| 272. | (health utility* or utility score* or disutilit* or utility value*).ti,ab. |
| 273. | (hui or hui1 or hui2 or hui3).ti,ab. |
| 274. | (health* year* equivalent* or hye or hyes).ti,ab. |
| 275. | discrete choice*.ti,ab. |
| 276. | rosser.ti,ab. |
| 277. | (willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab. |
| 278. | (sf36* or sf 36* or short form 36* or shortform 36* or shortform36*).ti,ab. |
| 279. | (sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab. |
| 280. | (sf12* or sf 12* or short form 12* or shortform 12* or shortform12*).ti,ab. |
| 281. | (sf8* or sf 8* or short form 8* or shortform 8* or shortform8*).ti,ab. |
| 282. | (sf6* or sf 6* or short form 6* or shortform 6* or shortform6*).ti,ab. |

| | |
|------|-------------------|
| 283. | or/49-69 |
| 284. | 34 and (48 or 70) |

NHS EED and HTA (CRD) search terms

| | |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| #49. | MeSH DESCRIPTOR Barrett Esophagus EXPLODE ALL TREES |
| #50. | (barrett*) |
| #51. | (speciali*) AND (epithel* or oesophag* or esophag* or mucos*) |
| #52. | (column*) AND (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*) |
| #53. | #1 OR #2 OR #3 OR #4 |
| #54. | MeSH DESCRIPTOR Precancerous Conditions EXPLODE ALL TREES |
| #55. | ((dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*)) |
| #56. | #6 OR #7 |
| #57. | MeSH DESCRIPTOR Esophagus EXPLODE ALL TREES |
| #58. | MeSH DESCRIPTOR Esophageal Mucosa EXPLODE ALL TREES |
| #59. | (oesophag* or esophag* or intramucosal* or intra-mucosal*) |
| #60. | #9 OR #10 OR #11 |
| #61. | #8 AND #12 |
| #62. | #5 OR #13 |
| #63. | MeSH DESCRIPTOR Esophageal Neoplasms EXPLODE ALL TREES |
| #64. | #14 OR #15 |

INAHTA search terms

| | |
|----|-----------------------------------------------------------------------|
| 1. | ("Barrett Esophagus"[mh]) OR (Barrett*) OR (Esophageal Neoplasms)[mh] |
|----|-----------------------------------------------------------------------|

A.13 7.2 Follow up

This literature search strategy was used for the following review:

- For people who have received endoscopic treatment for Barrett's oesophagus or stage 1 adenocarcinoma, what is the optimal frequency and duration of endoscopic and radiological follow up?

The literature searches for this review are detailed below and complied with the methodology outlined in Developing NICE guidelines: the manual. {NICE2014}

For more information, please see the Methodology review published as part of the accompanying documents for this guideline.

A.13.1 Clinical search literature search strategy

Searches were constructed using a PICO framework where population (P) terms were combined with Intervention (I) and in some cases Comparison (C) terms. Outcomes (O) are rarely used in search strategies as these concepts may not be indexed or described in the title or abstract and are therefore difficult to retrieve. Search filters were applied to the search where appropriate.

Table 1: Database parameters, filters and limits applied

| Database | Dates searched | Search filter used |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Medline (OVID) | 1946 – 29 April 2022 | Randomised controlled trials Systematic review studies Observational studies Exclusions (animal studies, letters, comments, editorials, case studies/reports) English language |
| Embase (OVID) | 1974 – 29 April 2022 | Randomised controlled trials Systematic review studies Observational studies Exclusions (animal studies, letters, comments, editorials, case studies/reports, conference abstracts) English language |
| The Cochrane Library (Wiley) | Cochrane Database of Systematic Reviews to Issue 4 of 12, April 2022 Cochrane Central Register of Controlled Trials to Issue 4 of 12, April 2022 | Exclusions (clinical trials, conference abstracts) |
| Epistemonikos (The Epistemonikos Foundation) | Inception to 29 April 2022 | Systematic review Exclusions (Cochrane reviews) |

Medline (Ovid) search terms

| | |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 985. | exp Barrett esophagus/ |
| 986. | barrett*.ti,ab. |
| 987. | (speciali* adj3 (epithel* or oesophag* or esophag* or mucos*)).ti,ab. |
| 988. | (column* adj3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*)).ti,ab. |
| 989. | (intestin* adj2 metaplas*).ti,ab. |
| 990. | or/1-5 |
| 991. | Precancerous conditions/ |
| 992. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*).ti,ab. |
| 993. | 7 or 8 |
| 994. | exp Esophagus/ |
| 995. | Esophageal Mucosa/ |
| 996. | (oesophag* or esophag* or intramucosal* or intra-mucosal*).ti,ab. |
| 997. | or/10-12 |
| 998. | 9 and 13 |
| 999. | exp Esophageal Neoplasms/ |
| 1000. | 6 or 14 or 15 |
| 1001. | letter/ |
| 1002. | editorial/ |
| 1003. | news/ |
| 1004. | exp historical article/ |
| 1005. | Anecdotes as Topic/ |
| 1006. | comment/ |
| 1007. | case report/ |
| 1008. | (letter or comment*).ti. |
| 1009. | or/17-24 |
| 1010. | randomized controlled trial/ or random*.ti,ab. |
| 1011. | 25 not 26 |
| 1012. | animals/ not humans/ |
| 1013. | exp Animals, Laboratory/ |
| 1014. | exp Animal Experimentation/ |
| 1015. | exp Models, Animal/ |
| 1016. | exp Rodentia/ |
| 1017. | (rat or rats or mouse or mice or rodent*).ti. |
| 1018. | or/27-33 |
| 1019. | 16 not 34 |
| 1020. | limit 35 to English language |
| 1021. | (follow*-up* or followup* or surveillance or monitor* or check-up* or checkup*).ti,ab,kf. |
| 1022. | 36 and 37 |
| 1023. | Meta-Analysis/ |
| 1024. | Meta-Analysis as Topic/ |
| 1025. | (meta analy* or metanaly* or metaanaly* or meta regression).ti,ab. |
| 1026. | ((systematic* or evidence*) adj3 (review* or overview*)).ti,ab. |

| | |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1027. | (reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab. |
| 1028. | (search strategy or search criteria or systematic search or study selection or data extraction).ab. |
| 1029. | (search* adj4 literature).ab. |
| 1030. | (medline or pubmed or cochrane or embase or psychlit or psychlit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab. |
| 1031. | cochrane.jw. |
| 1032. | ((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab. |
| 1033. | or/39-48 |
| 1034. | randomized controlled trial.pt. |
| 1035. | controlled clinical trial.pt. |
| 1036. | randomi#ed.ab. |
| 1037. | placebo.ab. |
| 1038. | randomly.ab. |
| 1039. | clinical trials as topic.sh. |
| 1040. | trial.ti. |
| 1041. | or/50-56 |
| 1042. | Epidemiologic studies/ |
| 1043. | Observational study/ |
| 1044. | exp Cohort studies/ |
| 1045. | (cohort adj (study or studies or analys* or data)).ti,ab. |
| 1046. | ((follow up or observational or uncontrolled or non randomi#ed or epidemiologic*) adj (study or studies or data)).ti,ab. |
| 1047. | ((longitudinal or retrospective or prospective) and (study or studies or review or analys* or cohort* or data)).ti,ab. |
| 1048. | Controlled Before-After Studies/ |
| 1049. | Historically Controlled Study/ |
| 1050. | Interrupted Time Series Analysis/ |
| 1051. | (before adj2 after adj2 (study or studies or data)).ti,ab. |
| 1052. | exp case control study/ |
| 1053. | case control*.ti,ab. |
| 1054. | Cross-sectional studies/ |
| 1055. | (cross sectional and (study or studies or review or analys* or cohort* or data)).ti,ab. |
| 1056. | or/58-71 |
| 1057. | 38 and (49 or 57 or 72) |

Embase (Ovid) search terms

| | |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1042. | exp Barrett esophagus/ |
| 1043. | barrett*.ti,ab. |
| 1044. | (speciali* adj3 (epithel* or oesophag* or esophag* or mucos*)).ti,ab. |
| 1045. | (column* adj3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*)).ti,ab. |
| 1046. | (intestin* adj2 metaplas*).ti,ab. |
| 1047. | or/1-5 |
| 1048. | Precancer/ |
| 1049. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*).ti,ab. |

| | |
|-------|-----------------------------------------------------------------------------------------------------|
| 1050. | 7 or 8 |
| 1051. | exp Esophagus/ |
| 1052. | Esophagus Mucosa/ |
| 1053. | (oesophag* or esophag*).ti,ab. |
| 1054. | or/10-12 |
| 1055. | 9 and 13 |
| 1056. | exp Esophagus Tumor/ |
| 1057. | 6 or 14 or 15 |
| 1058. | letter.pt. or letter/ |
| 1059. | note.pt. |
| 1060. | editorial.pt. |
| 1061. | case report/ or case study/ |
| 1062. | (letter or comment*).ti. |
| 1063. | (conference abstract or conference paper).pt. |
| 1064. | or/17-22 |
| 1065. | randomized controlled trial/ or random*.ti,ab. |
| 1066. | 23 not 24 |
| 1067. | animal/ not human/ |
| 1068. | nonhuman/ |
| 1069. | exp Animal Experiment/ |
| 1070. | exp Experimental Animal/ |
| 1071. | animal model/ |
| 1072. | exp Rodent/ |
| 1073. | (rat or rats or mouse or mice or rodent*).ti. |
| 1074. | or/25-32 |
| 1075. | 16 not 33 |
| 1076. | limit 34 to English language |
| 1077. | (follow*-up* or followup* or surveillance or monitor* or check-up* or checkup*).ti,ab,kf. |
| 1078. | 35 and 36 |
| 1079. | random*.ti,ab. |
| 1080. | factorial*.ti,ab. |
| 1081. | (crossover* or cross over*).ti,ab. |
| 1082. | ((doubl* or singl*) adj blind*).ti,ab. |
| 1083. | (assign* or allocat* or volunteer* or placebo*).ti,ab. |
| 1084. | crossover procedure/ |
| 1085. | single blind procedure/ |
| 1086. | randomized controlled trial/ |
| 1087. | double blind procedure/ |
| 1088. | or/38-46 |
| 1089. | Systematic Review/ |
| 1090. | Meta-Analysis/ |
| 1091. | (meta analy* or metanaly* or metaanaly* or meta regression).ti,ab. |
| 1092. | ((systematic* or evidence*) adj3 (review* or overview*)).ti,ab. |
| 1093. | (reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab. |
| 1094. | (search strategy or search criteria or systematic search or study selection or data extraction).ab. |
| 1095. | (search* adj4 literature).ab. |

| | |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1096. | (medline or pubmed or cochrane or embase or psychlit or psyclit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab. |
| 1097. | cochrane.jw. |
| 1098. | ((multiple treatment* or indirect or mixed) adj2 comparison*).ti,ab. |
| 1099. | or/48-57 |
| 1100. | Clinical study/ |
| 1101. | Observational study/ |
| 1102. | Family study/ |
| 1103. | Longitudinal study/ |
| 1104. | Retrospective study/ |
| 1105. | Prospective study/ |
| 1106. | Cohort analysis/ |
| 1107. | Follow-up/ |
| 1108. | cohort*.ti,ab. |
| 1109. | 66 and 67 |
| 1110. | (cohort adj (study or studies or analys* or data)).ti,ab. |
| 1111. | ((follow up or observational or uncontrolled or non randomi#ed or epidemiologic*) adj (study or studies or data)).ti,ab. |
| 1112. | ((longitudinal or retrospective or prospective) and (study or studies or review or analys* or cohort* or data)).ti,ab. |
| 1113. | (before adj2 after adj2 (study or studies or data)).ti,ab. |
| 1114. | exp case control study/ |
| 1115. | case control*.ti,ab. |
| 1116. | cross-sectional study/ |
| 1117. | (cross sectional and (study or studies or review or analys* or cohort* or data)).ti,ab. |
| 1118. | or/59-65,68-76 |
| 1119. | 37 and (47 or 58 or 77) |

Cochrane Library (Wiley) search terms

| | |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| #444. | MeSH descriptor: [Barrett Esophagus] explode all trees |
| #445. | barrett*.ti,ab |
| #446. | speciali* near/3 (epithel* or oesophag* or esophag* or mucos*):ti,ab |
| #447. | column* near/3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*):ti,ab |
| #448. | (intestin* near/2 metaplas*):ti,ab |
| #449. | (or #1-#5) |
| #450. | MeSH descriptor: [Precancerous Conditions] explode all trees |
| #451. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*):ti,ab |
| #452. | #7 or #8 |
| #453. | MeSH descriptor: [Esophagus] explode all trees |
| #454. | MeSH descriptor: [Esophageal Mucosa] explode all trees |
| #455. | (oesophag* or esophag* or intramucosal* or intra-mucosal*):ti,ab |
| #456. | (or #10-#12) |
| #457. | #9 and #13 |
| #458. | MeSH descriptor: [Esophageal Neoplasms] explode all trees |
| #459. | #6 or #14 or #15 |

| | |
|-------|------------------------------------------------------------------------------------------|
| #460. | (follow* up* or followup* or surveillance or monitor* or check up* or checkup*):ti,ab,kw |
| #461. | #16 and #17 |
| #462. | conference:pt or (clinicaltrials or trialsearch):so |
| #463. | #18 not #19 |

Epistemonikos search terms

| | |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 13. | (title:(Barrett* OR "oesophageal adenocarcinoma*" OR "esophageal adenocarcinoma*" OR "oesophageal cancer*" OR "esophageal cancer*" OR "oesophageal carcinoma*" OR "esophageal carcinoma*" OR "oesophageal metaplas*" OR "esophageal dysplas*" OR "column* epithel*" OR "intestin* metaplas*" OR "intestin* dysplas*") OR abstract:(Barrett* OR "oesophageal adenocarcinoma*" OR "esophageal adenocarcinoma*" OR "oesophageal cancer*" OR "esophageal cancer*" OR "oesophageal carcinoma*" OR "esophageal carcinoma*" OR "oesophageal metaplas*" OR "esophageal dysplas*" OR "column* epithel*" OR "intestin* metaplas*" OR "intestin* dysplas*")) AND (title:(follow* up*" OR followup* OR surveillance OR monitor* OR (check up*) OR checkup*) OR abstract:(follow* up*" OR followup* OR surveillance OR monitor* OR (check up*) OR checkup*)) |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

A.13.2 Health Economics literature search strategy

Health economic evidence was identified by conducting searches using terms for a broad Barrett's Oesophagus population. The following databases were searched: NHS Economic Evaluation Database (NHS EED - this ceased to be updated after 31st March 2015), Health Technology Assessment database (HTA - this ceased to be updated from 31st March 2018) and The International Network of Agencies for Health Technology Assessment (INAHTA). Searches for recent evidence were run on Medline and Embase from 2014 onwards for health economics, and all years for quality-of-life studies.

Table 2: Database parameters, filters and limits applied

| Database | Dates searched | Search filters and limits applied |
|----------------|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Medline (OVID) | Health Economics 1 January 2014 – 29 April 2022 | Health economics studies Quality of life studies |
| | Quality of Life 1946 – 29 April 2022 | Exclusions (animal studies, letters, comments, editorials, case studies/reports) English language |
| Embase (OVID) | Health Economics 1 January 2014 – 29 April 2022 | Health economics studies Quality of life studies |
| | Quality of Life 1974 – 29 April 2022 | Exclusions (animal studies, letters, comments, editorials, case studies/reports, conference abstracts) English language |

| Database | Dates searched | Search filters and limits applied |
|----------------------------------------------------------------------------------------------|-----------------------------------------|-----------------------------------|
| NHS Economic Evaluation Database (NHS EED) (Centre for Research and Dissemination - CRD) | Inception –31 st March 2015 | |
| Health Technology Assessment Database (HTA) (Centre for Research and Dissemination – CRD) | Inception – 31 st March 2018 | |
| The International Network of Agencies for Health Technology Assessment (INAHTA) | Inception - 29 April 2022 | English language |

Medline (Ovid) search terms

| | |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 293. | exp Barrett esophagus/ |
| 294. | barrett*.ti,ab. |
| 295. | (speciali* adj3 (epithel* or oesophag* or esophag* or mucos*)).ti,ab. |
| 296. | (column* adj3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*)).ti,ab. |
| 297. | or/1-4 |
| 298. | Precancerous conditions/ |
| 299. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*).ti,ab. |
| 300. | 6 or 7 |
| 301. | exp Esophagus/ |
| 302. | Esophageal Mucosa/ |
| 303. | (oesophag* or esophag* or intramucosal* or intra-mucosal*).ti,ab. |
| 304. | or/9-11 |
| 305. | 8 and 12 |
| 306. | exp Esophageal Neoplasms/ |
| 307. | 5 or 13 or 14 |
| 308. | letter/ |
| 309. | editorial/ |
| 310. | news/ |
| 311. | exp historical article/ |
| 312. | Anecdotes as Topic/ |
| 313. | comment/ |
| 314. | case report/ |
| 315. | (letter or comment*).ti. |
| 316. | or/16-23 |
| 317. | randomized controlled trial/ or random*.ti,ab. |

| | |
|------|--------------------------------------------------------------------------------------------------|
| 318. | 24 not 25 |
| 319. | animals/ not humans/ |
| 320. | exp Animals, Laboratory/ |
| 321. | exp Animal Experimentation/ |
| 322. | exp Models, Animal/ |
| 323. | exp Rodentia/ |
| 324. | (rat or rats or mouse or mice or rodent*).ti. |
| 325. | or/26-32 |
| 326. | 15 not 33 |
| 327. | limit 34 to English language |
| 328. | economics/ |
| 329. | value of life/ |
| 330. | exp "costs and cost analysis"/ |
| 331. | exp Economics, Hospital/ |
| 332. | exp Economics, medical/ |
| 333. | Economics, nursing/ |
| 334. | economics, pharmaceutical/ |
| 335. | exp "Fees and Charges"/ |
| 336. | exp budgets/ |
| 337. | budget*.ti,ab. |
| 338. | cost*.ti. |
| 339. | (economic* or pharmaco?economic*).ti. |
| 340. | (price* or pricing*).ti,ab. |
| 341. | (cost* adj2 (effectiv* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab. |
| 342. | (financ* or fee or fees).ti,ab. |
| 343. | (value adj2 (money or monetary)).ti,ab. |
| 344. | or/36-51 |
| 345. | quality-adjusted life years/ |
| 346. | sickness impact profile/ |
| 347. | (quality adj2 (wellbeing or well being)).ti,ab. |
| 348. | sickness impact profile.ti,ab. |
| 349. | disability adjusted life.ti,ab. |
| 350. | (qal* or qtime* or qwb* or daly*).ti,ab. |
| 351. | (euroqol* or eq5d* or eq 5*).ti,ab. |
| 352. | (qol* or hql* or hqol* or h qol* or hrqol* or hr qol*).ti,ab. |
| 353. | (health utility* or utility score* or disutilit* or utility value*).ti,ab. |
| 354. | (hui or hui1 or hui2 or hui3).ti,ab. |
| 355. | (health* year* equivalent* or hye or hyes).ti,ab. |
| 356. | discrete choice*.ti,ab. |
| 357. | rosser.ti,ab. |
| 358. | (willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab. |
| 359. | (sf36* or sf 36* or short form 36* or shortform 36* or shortform36*).ti,ab. |

| | |
|------|-----------------------------------------------------------------------------|
| 360. | (sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab. |
| 361. | (sf12* or sf 12* or short form 12* or shortform 12* or shortform12*).ti,ab. |
| 362. | (sf8* or sf 8* or short form 8* or shortform 8* or shortform8*).ti,ab. |
| 363. | (sf6* or sf 6* or short form 6* or shortform 6* or shortform6*).ti,ab. |
| 364. | or/53-71 |
| 365. | 35 and (52 or 72) |

Embase (Ovid) search terms

| | |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 285. | exp Barrett esophagus/ |
| 286. | barrett*.ti,ab. |
| 287. | (speciali* adj3 (epithel* or oesophag* or esophag* or mucos*)).ti,ab. |
| 288. | (column* adj3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*)).ti,ab. |
| 289. | or/1-4 |
| 290. | Precancer/ |
| 291. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*).ti,ab. |
| 292. | 6 or 7 |
| 293. | exp Esophagus/ |
| 294. | Esophagus Mucosa/ |
| 295. | (oesophag* or esophag*).ti,ab. |
| 296. | or/9-11 |
| 297. | 8 and 12 |
| 298. | exp Esophagus Tumor/ |
| 299. | 5 or 13 or 14 |
| 300. | letter.pt. or letter/ |
| 301. | note.pt. |
| 302. | editorial.pt. |
| 303. | case report/ or case study/ |
| 304. | (letter or comment*).ti. |
| 305. | (conference abstract or conference paper).pt. |
| 306. | or/16-21 |
| 307. | randomized controlled trial/ or random*.ti,ab. |
| 308. | 22 not 23 |
| 309. | animal/ not human/ |
| 310. | nonhuman/ |
| 311. | exp Animal Experiment/ |
| 312. | exp Experimental Animal/ |
| 313. | animal model/ |
| 314. | exp Rodent/ |
| 315. | (rat or rats or mouse or mice or rodent*).ti. |
| 316. | or/24-31 |
| 317. | 15 not 32 |
| 318. | limit 33 to English language |
| 319. | health economics/ |

| | |
|------|--------------------------------------------------------------------------------------------------|
| 320. | exp economic evaluation/ |
| 321. | exp health care cost/ |
| 322. | exp fee/ |
| 323. | budget/ |
| 324. | funding/ |
| 325. | budget*.ti,ab. |
| 326. | cost*.ti. |
| 327. | (economic* or pharmaco?economic*).ti. |
| 328. | (price* or pricing*).ti,ab. |
| 329. | (cost* adj2 (effectiv* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab. |
| 330. | (financ* or fee or fees).ti,ab. |
| 331. | (value adj2 (money or monetary)).ti,ab. |
| 332. | or/35-47 |
| 333. | quality-adjusted life years/ |
| 334. | "quality of life index"/ |
| 335. | short form 12/ or short form 20/ or short form 36/ or short form 8/ |
| 336. | sickness impact profile/ |
| 337. | (quality adj2 (wellbeing or well being)).ti,ab. |
| 338. | sickness impact profile.ti,ab. |
| 339. | disability adjusted life.ti,ab. |
| 340. | (qal* or qtime* or qwb* or daly*).ti,ab. |
| 341. | (euroqol* or eq5d* or eq 5*).ti,ab. |
| 342. | (qol* or hq1* or hqol* or h qol* or hrqol* or hr qol*).ti,ab. |
| 343. | (health utility* or utility score* or disutilit* or utility value*).ti,ab. |
| 344. | (hui or hui1 or hui2 or hui3).ti,ab. |
| 345. | (health* year* equivalent* or hye or hyes).ti,ab. |
| 346. | discrete choice*.ti,ab. |
| 347. | rosser.ti,ab. |
| 348. | (willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab. |
| 349. | (sf36* or sf 36* or short form 36* or shortform 36* or shortform36*).ti,ab. |
| 350. | (sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab. |
| 351. | (sf12* or sf 12* or short form 12* or shortform 12* or shortform12*).ti,ab. |
| 352. | (sf8* or sf 8* or short form 8* or shortform 8* or shortform8*).ti,ab. |
| 353. | (sf6* or sf 6* or short form 6* or shortform 6* or shortform6*).ti,ab. |
| 354. | or/49-69 |
| 355. | 34 and (48 or 70) |

NHS EED and HTA (CRD) search terms

| | |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| #65. | MeSH DESCRIPTOR Barrett Esophagus EXPLODE ALL TREES |
| #66. | (barrett*) |
| #67. | (speciali*) AND (epithel* or oesophag* or esophag* or mucos*) |
| #68. | (column*) AND (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*) |
| #69. | #1 OR #2 OR #3 OR #4 |
| #70. | MeSH DESCRIPTOR Precancerous Conditions EXPLODE ALL TREES |
| #71. | ((dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or |

| | |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| | carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*)) |
| #72. | #6 OR #7 |
| #73. | MeSH DESCRIPTOR Esophagus EXPLODE ALL TREES |
| #74. | MeSH DESCRIPTOR Esophageal Mucosa EXPLODE ALL TREES |
| #75. | (oesophag* or esophag* or intramucosal* or intra-mucosal*) |
| #76. | #9 OR #10 OR #11 |
| #77. | #8 AND #12 |
| #78. | #5 OR #13 |
| #79. | MeSH DESCRIPTOR Esophageal Neoplasms EXPLODE ALL TREES |
| #80. | #14 OR #15 |

INAHTA search terms

| | |
|----|-----------------------------------------------------------------------|
| 1. | ("Barrett Esophagus"[mh]) OR (Barrett*) OR (Esophageal Neoplasms)[mh] |
|----|-----------------------------------------------------------------------|

A.14 8.1 Information

This literature search strategy was used for the following review:

- What information and support should be provided to patients (or carers or families) who are having or considering follow-up or treatment for Barrett's oesophagus or stage 1 adenocarcinoma?

The literature searches for this review are detailed below and complied with the methodology outlined in Developing NICE guidelines: the manual.{NICE2014}

For more information, please see the Methodology review published as part of the accompanying documents for this guideline.

A.14.1 Clinical search literature search strategy

Searches for patient views were run in Medline (OVID), Embase (OVID), CINAHL, Current Nursing and Allied Health Literature (EBSCO) and PsycINFO (OVID). Search filters were applied to the search where appropriate.

Table 2: Database parameters, filters and limits applied

| Database | Dates searched | Search filters and limits applied |
|---------------------------------------------------------------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Medline (OVID) | 1946 – 29 April 2022 | Qualitative studies Exclusions (animal studies, letters, comments, editorials, case studies/reports, children) English language |
| Embase (OVID) | 1974 – 29 April 2022 | Qualitative studies Exclusions (animal studies, letters, comments, editorials, case studies/reports, conference abstracts, children) English language |
| Current Nursing and Allied Health Literature (CINAHL) (EBSCO) | Inception – 29 April 2022 | Human Exclusions (Medline records) English Language |
| PsycINFO (OVID) | Inception – 29 April 2022 | Qualitative studies English language |

Medline (Ovid) search terms

| | |
|-------|-----------------------------------------------------------------------|
| 1058. | exp Barrett esophagus/ |
| 1059. | barrett*.ti,ab. |
| 1060. | (speciali* adj3 (epithel* or oesophag* or esophag* or mucos*)).ti,ab. |

| | |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1061. | (column* adj3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*)).ti,ab. |
| 1062. | (intestin* adj2 metaplas*).ti,ab. |
| 1063. | or/1-5 |
| 1064. | Precancerous conditions/ |
| 1065. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*).ti,ab. |
| 1066. | 7 or 8 |
| 1067. | exp Esophagus/ |
| 1068. | Esophageal Mucosa/ |
| 1069. | (oesophag* or esophag* or intramucosal* or intra-mucosal*).ti,ab. |
| 1070. | or/10-12 |
| 1071. | 9 and 13 |
| 1072. | exp Esophageal Neoplasms/ |
| 1073. | 6 or 14 or 15 |
| 1074. | letter/ |
| 1075. | editorial/ |
| 1076. | news/ |
| 1077. | exp historical article/ |
| 1078. | Anecdotes as Topic/ |
| 1079. | comment/ |
| 1080. | case report/ |
| 1081. | (letter or comment*).ti. |
| 1082. | or/17-24 |
| 1083. | randomized controlled trial/ or random*.ti,ab. |
| 1084. | 25 not 26 |
| 1085. | animals/ not humans/ |
| 1086. | exp Animals, Laboratory/ |
| 1087. | exp Animal Experimentation/ |
| 1088. | exp Models, Animal/ |
| 1089. | exp Rodentia/ |
| 1090. | (rat or rats or mouse or mice or rodent*).ti. |
| 1091. | or/27-33 |
| 1092. | 16 not 34 |
| 1093. | limit 35 to English language |
| 1094. | exp Patients/ or exp Family/ or Caregivers/ |
| 1095. | Consumer Health Information/ or Needs Assessment/ or Patient Education as Topic/ or Patient Education Handout/ or Health Communication/ or Information Dissemination/ |
| 1096. | ((patient* or inpatient* or outpatient* or carer* or client* or user* or customer* or consumer* or caregiver* or care giver* or famil* or parent* or father* or mother* or spouse* or wife or wives or husband* or next of kin or significant other* or partner* or guardian* or relative* or sibling* or sister* or brother* or grandparent* or grandfather* or grandmother*) adj3 (information* or advice or advis* or need* or requirement* or support* or access* or service* or educat* or learn* or teach* or train*)).ti,ab,kf. |
| 1097. | ((information* or educat*) adj3 (need* or requirement* or support* or seek* or access* or disseminat* or barrier* or service*)).ti,ab,kf. |
| 1098. | (support* adj3 (need* or requirement* or assess* or seek* or access* or barrier* or service*)).ti,ab,kf. |

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| 1099. | "Patient Acceptance of Health Care"/ or exp Patient Satisfaction/ |
| 1100. | ((patient* or inpatient* or outpatient* or carer* or client* or user* or customer* or consumer* or caregiver* or care giver* or famil* or parent* or father* or mother* or spouse* or wife or wives or husband* or next of kin or significant other* or partner* or guardian* or relative* or sibling* or sister* or brother* or grandparent* or grandfather* or grandmother*) adj3 (belief* or attitud* or priorit* or perception* or preferen* or expectation* or choice* or perspective* or view* or satisfact* or experience* or opinion* or preference* or feedback*)).ti,ab,kf. |
| 1101. | or/37-43 |
| 1102. | 36 and 44 |
| 1103. | Qualitative research/ or Narration/ or exp Interviews as Topic/ or exp "Surveys and Questionnaires"/ or Health care surveys/ |
| 1104. | (qualitative or interview* or focus group* or theme* or questionnaire* or survey*).ti,ab. |
| 1105. | (metasynthes* or meta-synthes* or metasummar* or meta-summar* or metastud* or meta-stud* or metathem* or meta-them* or ethno* or emic or etic or phenomenolog* or grounded theory or constant compar* or (thematic* adj3 analys*) or theoretical sampl* or purposive sampl* or hermeneutic* or heidegger* or husserl* or colaizzi* or van kaam* or van manen* or giorgi* or glaser* or strauss* or ricoeur* or spiegelberg* or merleau*).ti,ab. |
| 1106. | or/46-48 |
| 1107. | 45 and 49 |

Embase (Ovid) search terms

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| 1120. | exp Barrett esophagus/ |
| 1121. | barrett*.ti,ab. |
| 1122. | (speciali* adj3 (epithel* or oesophag* or esophag* or mucos*)).ti,ab. |
| 1123. | (column* adj3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*)).ti,ab. |
| 1124. | (intestin* adj2 metaplas*).ti,ab. |
| 1125. | or/1-5 |
| 1126. | Precancer/ |
| 1127. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*).ti,ab. |
| 1128. | 7 or 8 |
| 1129. | exp Esophagus/ |
| 1130. | Esophagus Mucosa/ |
| 1131. | (oesophag* or esophag*).ti,ab. |
| 1132. | or/10-12 |
| 1133. | 9 and 13 |
| 1134. | exp Esophagus Tumor/ |
| 1135. | 6 or 14 or 15 |
| 1136. | letter.pt. or letter/ |
| 1137. | note.pt. |
| 1138. | editorial.pt. |
| 1139. | case report/ or case study/ |
| 1140. | (letter or comment*).ti. |
| 1141. | (conference abstract or conference paper).pt. |
| 1142. | or/17-22 |
| 1143. | randomized controlled trial/ or random*.ti,ab. |

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| 1144. | 23 not 24 |
| 1145. | animal/ not human/ |
| 1146. | nonhuman/ |
| 1147. | exp Animal Experiment/ |
| 1148. | exp Experimental Animal/ |
| 1149. | animal model/ |
| 1150. | exp Rodent/ |
| 1151. | (rat or rats or mouse or mice or rodent*).ti. |
| 1152. | or/25-32 |
| 1153. | 16 not 33 |
| 1154. | limit 34 to English language |
| 1155. | patient/ or family/ or caregivers/ |
| 1156. | consumer health information/ or needs assessment/ or communication barrier/ or patient education/ or medical information/ or information dissemination/ |
| 1157. | ((patient* or inpatient* or outpatient* or carer* or client* or user* or customer* or consumer* or caregiver* or care giver* or famil* or parent* or father* or mother* or spouse* or wife or wives or husband* or next of kin or significant other* or partner* or guardian* or relative* or sibling* or sister* or brother* or grandparent* or grandfather* or grandmother*) adj3 (information* or advice or advis* or need* or requirement* or support* or access* or service* or educat* or learn* or teach* or train*)).ti,ab,kf. |
| 1158. | ((information* or educat*) adj3 (need* or requirement* or support* or seek* or access* or disseminat* or barrier* or service*)).ti,ab,kf. |
| 1159. | (support* adj3 (need* or requirement* or assess* or seek* or access* or barrier* or service*)).ti,ab,kf. |
| 1160. | patient preference/ or patient satisfaction/ or consumer attitude/ or patient attitude/ |
| 1161. | ((patient* or inpatient* or outpatient* or carer* or client* or user* or customer* or consumer* or caregiver* or care giver* or famil* or parent* or father* or mother* or spouse* or wife or wives or husband* or next of kin or significant other* or partner* or guardian* or relative* or sibling* or sister* or brother* or grandparent* or grandfather* or grandmother*) adj3 (belief* or attitud* or priorit* or perception* or preferen* or expectation* or choice* or perspective* or view* or satisfact* or experience* or opinion* or preference* or feedback*)).ti,ab,kf. |
| 1162. | or/36-42 |
| 1163. | 35 and 43 |
| 1164. | health survey/ or exp questionnaire/ or exp interview/ or qualitative research/ or narrative/ |
| 1165. | (qualitative or interview* or focus group* or theme* or questionnaire* or survey*).ti,ab. |
| 1166. | (metasynthes* or meta-synthes* or metasummar* or meta-summar* or metastud* or meta-stud* or metathem* or meta-them* or ethno* or emic or etic or phenomenolog* or grounded theory or constant compar* or (thematic* adj3 analys*) or theoretical sampl* or purposive sampl* or hermeneutic* or heidegger* or husserl* or colaizzi* or van kaam* or van manen* or giorgi* or glaser* or strauss* or ricoeur* or spiegelberg* or merleau*).ti,ab. |
| 1167. | or/45-47 |
| 1168. | 44 and 48 |

CINAHL (EBSCO) search terms

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| S1. | (MH "Barrett Esophagus") |
| S2. | (TI barrett* OR AB barrett*) |
| S3. | ((TI speciali* OR AB speciali*) N3 ((TI epithel* OR AB epithel*) OR (TI oesophag* OR AB oesophag*) OR (TI esophag* OR AB esophag*) OR (TI mucos* OR AB mucos*))) |
| S4. | ((TI column* OR AB column*) N3 ((TI epithel* OR AB epithel*) OR (TI oesophag* OR AB oesophag*) OR (TI esophag* OR AB esophag*) OR (TI mucos* OR AB mucos*)) |

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| | OR (TI lined OR AB lined) OR (TI lining OR AB lining) OR (TI metaplas* OR AB metaplas*)) |
| S5. | ((TI intestin* OR AB intestin*) N2 (TI metaplas* OR AB metaplas*)) |
| S6. | S1 OR S2 OR S3 OR S4 OR S5 |
| S7. | (MH "Precancerous Conditions+") |
| S8. | ((TI dysplasia* OR AB dysplasia*) OR (TI precancer* OR AB precancer*) OR (TI pre-cancer* OR AB pre-cancer*) OR (TI premalign* OR AB premalign*) OR (TI pre-malign* OR AB pre-malign*) OR (TI preneoplast* OR AB preneoplast*) OR (TI pre-neoplastic* OR AB pre-neoplastic*) OR (TI preneoplasia* OR AB preneoplasia*) OR (TI pre-neoplasia* OR AB pre-neoplasia*) OR (TI neoplasm* OR AB neoplasm*) OR (TI cancer* OR AB cancer*) OR (TI carcinoma* OR AB carcinoma*) OR (TI adenocarcinom* OR AB adenocarcinom*) OR (TI adenoma* OR AB adenoma*) OR (TI tumour* OR AB tumour*) OR (TI tumor* OR AB tumor*) OR (TI malignan* OR AB malignan*) OR (TI metaplas* OR AB metaplas*) OR (TI metast* OR AB metast*) OR (TI nodul* OR AB nodul*) OR (TI node* OR AB node*) OR (TI lump* OR AB lump*) OR (TI lymphoma* OR AB lymphoma*)) |
| S9. | S7 OR S8 |
| S10. | (MH "Esophagus+") |
| S11. | (MH "Esophageal Mucosa") |
| S12. | ((TI oesophag* OR AB oesophag*) OR (TI esophag* OR AB esophag*) OR (TI intramucosal* OR AB intramucosal*) OR (TI intra-mucosal* OR AB intra-mucosal*)) |
| S13. | S10 OR S11 OR S12 |
| S14. | S9 AND S13 |
| S15. | (MH "Esophageal Neoplasms+") |
| S16. | S6 OR S14 OR S15 |
| S17. | (MH Patients+) OR (MH Family+) OR (MH Caregivers) |
| S18. | (MH "Consumer Health Information") OR (MH "Needs Assessment") OR (MH "Patient Education as Topic") OR (MH "Patient Education Handout") OR (MH "Health Communication") OR (MH "Information Dissemination") |
| S19. | ((((TI patient* OR AB patient* OR SU patient*) OR (TI inpatient* OR AB inpatient* OR SU inpatient*) OR (TI outpatient* OR AB outpatient* OR SU outpatient*) OR (TI carer* OR AB carer* OR SU carer*) OR (TI client* OR AB client* OR SU client*) OR (TI user* OR AB user* OR SU user*) OR (TI customer* OR AB customer* OR SU customer*) OR (TI consumer* OR AB consumer* OR SU consumer*) OR (TI caregiver* OR AB caregiver* OR SU caregiver*) OR (TI "care giver*" OR AB "care giver*" OR SU "care giver*") OR (TI famil* OR AB famil* OR SU famil*) OR (TI parent* OR AB parent* OR SU parent*) OR (TI father* OR AB father* OR SU father*) OR (TI mother* OR AB mother* OR SU mother*) OR (TI spouse* OR AB spouse* OR SU spouse*) OR (TI wife OR AB wife OR SU wife) OR (TI wives OR AB wives OR SU wives) OR (TI husband* OR AB husband* OR SU husband*) OR (TI "of kin" OR AB "of kin" OR SU "of kin") OR (TI "significant other*" OR AB "significant other*" OR SU "significant other*") OR (TI partner* OR AB partner* OR SU partner*) OR (TI guardian* OR AB guardian* OR SU guardian*) OR (TI relative* OR AB relative* OR SU relative*) OR (TI sibling* OR AB sibling* OR SU sibling*) OR (TI sister* OR AB sister* OR SU sister*) OR (TI brother* OR AB brother* OR SU brother*) OR (TI grandparent* OR AB grandparent* OR SU grandparent*) OR (TI grandfather* OR AB grandfather* OR SU grandfather*) OR (TI grandmother* OR AB grandmother* OR SU grandmother*)) N3 ((TI information* OR AB information* OR SU information*) OR (TI advice OR AB advice OR SU advice) OR (TI advis* OR AB advis* OR SU advis*) OR (TI need* OR AB need* OR SU need*) OR (TI requirement* OR AB requirement* OR SU requirement*) OR (TI support* OR AB support* OR SU support*) OR (TI access* OR AB access* OR SU access*) OR (TI service* OR AB service* OR SU service*) OR (TI educat* OR AB educat* OR SU educat*) OR (TI learn* OR AB learn* OR SU learn*) OR (TI teach* OR AB teach* OR SU teach*) OR (TI train* OR AB train* OR SU train*))) |
| S20. | ((((TI information* OR AB information* OR SU information*) OR (TI educat* OR AB educat* OR SU educat*)) N3 ((TI need* OR AB need* OR SU need*) OR (TI requirement* OR AB requirement* OR SU requirement*) OR (TI support* OR AB |

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| | support* OR SU support*) OR (TI seek* OR AB seek* OR SU seek*) OR (TI access* OR AB access* OR SU access*) OR (TI disseminat* OR AB disseminat* OR SU disseminat*) OR (TI barrier* OR AB barrier* OR SU barrier*) OR (TI service* OR AB service* OR SU service*)) |
| S21. | ((TI support* OR AB support* OR SU support*) N3 ((TI need* OR AB need* OR SU need*) OR (TI requirement* OR AB requirement* OR SU requirement*) OR (TI assess* OR AB assess* OR SU assess*) OR (TI seek* OR AB seek* OR SU seek*) OR (TI access* OR AB access* OR SU access*) OR (TI barrier* OR AB barrier* OR SU barrier*) OR (TI service* OR AB service* OR SU service*)) |
| S22. | (MH "Patient Satisfaction+") |
| S23. | ((TI patient* OR AB patient* OR SU patient*) OR (TI inpatient* OR AB inpatient* OR SU inpatient*) OR (TI outpatient* OR AB outpatient* OR SU outpatient*) OR (TI carer* OR AB carer* OR SU carer*) OR (TI client* OR AB client* OR SU client*) OR (TI user* OR AB user* OR SU user*) OR (TI customer* OR AB customer* OR SU customer*) OR (TI consumer* OR AB consumer* OR SU consumer*) OR (TI caregiver* OR AB caregiver* OR SU caregiver*) OR (TI "care giver*" OR AB "care giver*" OR SU "care giver*") OR (TI famil* OR AB famil* OR SU famil*) OR (TI parent* OR AB parent* OR SU parent*) OR (TI father* OR AB father* OR SU father*) OR (TI mother* OR AB mother* OR SU mother*) OR (TI spouse* OR AB spouse* OR SU spouse*) OR (TI wife OR AB wife OR SU wife) OR (TI wives OR AB wives OR SU wives) OR (TI husband* OR AB husband* OR SU husband*) OR W1 (TI "of kin" OR AB "of kin" OR SU "of kin") OR (TI "significant other*" OR AB "significant other*" OR SU "significant other*") OR (TI partner* OR AB partner* OR SU partner*) OR (TI guardian* OR AB guardian* OR SU guardian*) OR (TI relative* OR AB relative* OR SU relative*) OR (TI sibling* OR AB sibling* OR SU sibling*) OR (TI sister* OR AB sister* OR SU sister*) OR (TI brother* OR AB brother* OR SU brother*) OR (TI grandparent* OR AB grandparent* OR SU grandparent*) OR (TI grandfather* OR AB grandfather* OR SU grandfather*) OR (TI grandmother* OR AB grandmother* OR SU grandmother*)) N3 ((TI belief* OR AB belief* OR SU belief*) OR (TI attitud* OR AB attitud* OR SU attitud*) OR (TI priorit* OR AB priorit* OR SU priorit*) OR (TI perception* OR AB perception* OR SU perception*) OR (TI preferen* OR AB preferen* OR SU preferen*) OR (TI expectation* OR AB expectation* OR SU expectation*) OR (TI choice* OR AB choice* OR SU choice*) OR (TI perspective* OR AB perspective* OR SU perspective*) OR (TI view* OR AB view* OR SU view*) OR (TI satisfact* OR AB satisfact* OR SU satisfact*) OR (TI experience* OR AB experience* OR SU experience*) OR (TI opinion* OR AB opinion* OR SU opinion*) OR (TI preference* OR AB preference* OR SU preference*) OR (TI feedback* OR AB feedback* OR SU feedback*) OR (TI questionnaire* OR AB questionnaire* OR SU questionnaire*)) |
| S24. | S17 OR S18 OR S19 OR S20 OR S21 OR S22 OR S23 |
| S25. | S16 AND S24 |

PsycINFO (ProQuest) search terms

| | |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | barrett*.ti,ab. |
| 2. | (speciali* adj3 (epithel* or oesophag* or esophag* or mucos*)).ti,ab. |
| 3. | (column* adj3 (epithel* or oesophag* or esophag* or mucos* or lined or lining or metaplas*)).ti,ab. |
| 4. | (intestin* adj2 metaplas*).ti,ab. |
| 5. | or/1-4 |
| 6. | (dysplasia* or precancer* or pre-cancer* or premalign* or pre-malign* or preneoplast* or pre-neoplastic* or preneoplasia* or pre-neoplasia* or neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan* or metaplas* or metast* or nodul* or node* or lump* or lymphoma*).ti,ab. |
| 7. | exp Esophagus/ |
| 8. | (oesophag* or esophag* or intramucosal* or intra-mucosal*).ti,ab. |
| 9. | or/7-8 |
| 10. | 6 and 9 |
| 11. | 5 or 10 |

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| 12. | Letter/ |
| 13. | Case report/ |
| 14. | exp Rodents/ |
| 15. | or/12-14 |
| 16. | 11 not 15 |
| 17. | limit 16 to English language |
| 18. | exp Patients/ or Family/ or exp Caregivers/ |
| 19. | Health Information/ or exp Needs Assessment/ or Client Education/ or Communication barriers/ |
| 20. | ((patient* or inpatient* or outpatient* or carer* or client* or user* or customer* or consumer* or caregiver* or care giver* or famil* or parent* or father* or mother* or spouse* or wife or wives or husband* or next of kin or significant other* or partner* or guardian* or relative* or sibling* or sister* or brother* or grandparent* or grandfather* or grandmother*) adj3 (information* or advice or advis* or need* or requirement* or support* or access* or service* or educat* or learn* or teach* or train*)).ti,ab. |
| 21. | ((information* or educat*) adj3 (need* or requirement* or support* or seek* or access* or disseminat* or barrier* or service*)).ti,ab. |
| 22. | (support* adj3 (need* or requirement* or assess* or seek* or access* or barrier* or service*)).ti,ab. |
| 23. | Client Satisfaction/ or Client Attitudes/ |
| 24. | ((patient* or inpatient* or outpatient* or carer* or client* or user* or customer* or consumer* or caregiver* or care giver* or famil* or parent* or father* or mother* or spouse* or wife or wives or husband* or next of kin or significant other* or partner* or guardian* or relative* or sibling* or sister* or brother* or grandparent* or grandfather* or grandmother*) adj3 (belief* or attitud* or priorit* or perception* or preferen* or expectation* or choice* or perspective* or view* or satisfact* or experience* or opinion* or preference* or feedback*)).ti,ab. |
| 25. | or/18-24 |
| 26. | qualitative methods/ or exp interviews/ or exp questionnaires/ |
| 27. | (qualitative or interview* or focus group* or theme* or questionnaire* or survey*).ti,ab. |
| 28. | (metasynthes* or meta-synthes* or metasummar* or meta-summar* or metastud* or meta-stud* or metathem* or meta-them* or ethno* or emic or etic or phenomenolog* or grounded theory or constant compar* or (thematic* adj3 analys*) or theoretical sampl* or purposive sampl* or hermeneutic* or heidegger* or husserl* or colaizzi* or van kaam* or van manen* or giorgi* or glaser* or strauss* or ricoeur* or spiegelberg* or merleau*).ti,ab. |
| 29. | or/26-28 |
| 30. | 17 and 25 |
| 31. | 17 and 29 |
| 32. | 30 or 31 |