

Appendix 3 Search strategies

Literature search

The evidence reviews used to develop the guideline recommendations were underpinned by systematic literature searches, following the methods described in 'The guidelines manual' (2009). The purpose of systematically searching the literature is to attempt to comprehensively identify the published evidence to answer the key clinical questions developed by the Guideline Development Group and Short Clinical Guidelines Technical Team.

The search strategies for the key clinical questions were developed by the Information Services Team with advice from the Short Clinical Guidelines Technical Team. Structured clinical questions were developed using the PICO (population, intervention, comparison, outcome) model and were translated into search strategies using subject heading and free text terms. The strategies were run across a number of databases with no date restrictions imposed on the searches.

To identify economic evaluations the NHS Economic Evaluation Database (NHS EED) and the Health Economic Evaluations Database (HEED) were searched. Search filters to identify economic evaluations and quality of life studies were used to interrogate bibliographic databases. There were no date restrictions imposed on the searches.

In addition to the systematic literature searches, the Guideline Development Group members were asked to alert the Short Clinical Guidelines Technical Team to any additional evidence, published, unpublished or in press, that met the inclusion criteria.

The searches were undertaken between May and October 2009. Full details of the systematic search, including the sources searched and the MEDLINE strategies for each evidence review, are presented in appendix 4.

Scoping searches

Scoping searches were undertaken in January 2009 using the following websites and databases (listed in alphabetical order); browsing or simple search strategies were employed. The search results were used to provide information for scope development and project planning.

Guidance/guidelines	Systematic reviews/economic evaluations
American Gastroenterological Association Association of Upper Gastrointestinal Surgeons (AUGIS) Barrett's Oesophagus Foundation British Society of Gastroenterologists Canadian Medical Association Infobase CancerBackup Cancer Research UK Clinical Knowledge Summaries Core Department of Health European Society for Primary Care Gastroenterology Guidelines International Network (GIN) National Guideline Clearing House (US) National Health and Medical Research Council (Australia) National Institute for Health and Clinical Excellence (NICE) – guidance published & in development National Institute for Health and Clinical Excellence (NICE) – topic selection National Library for Health (NLH) – National Library of Guidelines National Library for Health (NLH) Protocols and Care Pathways Database National Library for Health (NLH) Specialist Libraries New Zealand Guidelines Group Royal College of Physicians of London Royal College of Surgeons of Edinburgh Royal College of Surgeons of England	Clinical Evidence Cochrane Database of Systematic Reviews (CDSR) Database of Abstracts of Reviews of Effects (DARE) Health Economic Evaluations Database (HEED) Health Technology Assessment (HTA) Database NHS Economic Evaluation Database (NHS EED) NHS R&D Service Delivery and Organisation (NHS SDO) Programme National Institute for Health Research (NIHR) Health Technology Assessment Programme TRIP Database

Scottish Intercollegiate Guidelines Network (SIGN) Society of Gastroenterology Nurses and Associates Society of Laparoendoscopic Surgeons United European Gastroenterology Foundation	
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Main searches

The following sources were searched for the topics presented in the sections below.

- Clinical Trials.gov
- Current Controlled Trials
- Cochrane Database of Systematic Reviews – CDSR (Wiley)
- Cochrane Central Register of Controlled Trials – CENTRAL (Wiley)
- Database of Abstracts of Reviews of Effects – DARE (CRD)
- Health Technology Assessment Database – HTA (CRD)
- CINAHL (EBSCO)
- EMBASE (Ovid)
- MEDLINE (Ovid)
- MEDLINE In-Process (Ovid)
- National Research Register Archive
- UK Clinical Research Network

Systematic reviews and mapping searches

The first search looked for systematic reviews and primary studies (the “mapping search” with no methodological filter applied) to answer questions about the effectiveness of ablative therapy for reducing the risk of progression to cancer and recurrence of Barrett’s Oesophagus and which ablative therapy is most effective.

The MEDLINE search strategies are presented below. They were translated for use in all of the other databases.

Ovid MEDLINE(R) <1950 to May Week 5 2009>

1 Barrett Esophagus/

- 2 ((barrett or barretts or barrett's) adj3 (esophagus or oesophagus or epithelium or syndrome or metaplas*)).ti,ab.
- 3 ((columnar or specialised or specialized or intestinalized or intestinalised or metaplas*) adj3 (epithelium or oesophagus or esophagus or mucosa)).ti,ab.
- 4 or/1-3
- 5 Precancerous conditions/
- 6 (precancer* or pre-cancer* or pre-malign* or premalign* or preneoplast* or pre-neoplastic*).tw.
- 7 ((early or flat* or benign* or intramucosal* or intra-mucosal*) adj3 (neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan*)).tw.
- 8 or/5-7
- 9 Esophageal Neoplasms/
- 10 Esophagus/
- 11 (oesophag* or esophag*).tw.
- 12 or/9-11
- 13 8 and 12
- 14 4 or 13
- 15 (argon adj3 plasm* adj3 coagulat*).ti,ab.
- 16 Photochemotherapy/
- 17 ((photodynamic adj3 therap*) or PDT).ti,ab.
- 18 Laser therapy/ or Catheter ablation/
- 19 ((laser adj3 ablati*) or HALO or Barrx).ti,ab.

- 20 Electrocoagulation/ or Laser coagulation/
- 21 ((multi polar or multipolar or multi-polar) adj3 (electro coagulation or electrocoagulation or electro-coagulation)).ti,ab.
- 22 ((Radiofrequency or radio frequency or radio-frequency) adj3 ablati*).ti,ab.
- 23 or/15-22
- 24 Endoscopy/
- 25 Endoscop*.tw.
- 26 24 or 25
- 27 Mucos*.tw.
- 28 exp Dissection/
- 29 (dissect* or resect* or microdissect* or micro-dissect*).tw.
- 30 28 or 29
- 31 26 and 27 and 30
- 32 23 or 31
- 33 14 and 32
- 34 Meta-Analysis/
- 35 Meta-Analysis.pt.
- 36 Meta-Analysis as Topic/
- 37 Review/
- 38 Review.pt.
- 39 exp Review Literature as Topic/

- 40 (metaanaly\$ or metanaly\$ or (meta adj2 analy\$)).tw.
- 41 (review\$ or overview\$).ti.
- 42 (systematic\$ adj4 (review\$ or overview\$)).tw.
- 43 ((quantitative\$ or qualitative\$) adj4 (review\$ or overview\$)).tw.
- 44 ((studies or trial\$) adj1 (review\$ or overview\$)).tw.
- 45 (integrat\$ adj2 (research or review\$ or literature)).tw.
- 46 (pool\$ adj1 (analy\$ or data)).tw.
- 47 (handsearch\$ or (hand adj2 search\$)).tw.
- 48 (manual\$ adj2 search\$).tw.
- 49 or/25-39
- 50 animals/
- 51 humans/
- 52 50 not (40 and 41)
- 53 49 not 52
- 54 33 and 53
- 55 33 not 52
- 56 limit 54 to (english language and yr="2004 -Current") **SR search**
- 57 limit 55 to english language **Mapping search**

Patient information search

The patient information search was formulated to answer the question about what information patients and/or their families/carers need when undergoing ablative therapy.

Ovid MEDLINE(R) <1950 to October Week 2 2009>

- 1 Barrett Esophagus/
- 2 ((barrett or barretts or barrett's) adj3 (esophagus or oesophagus or epithelium or syndrome or metaplas*)).ti,ab.
- 3 ((columnar or specialised or specialized or intestinalized or intestinalised or metaplas*) adj3 (epithelium or oesophagus or esophagus or mucosa)).ti,ab.
- 4 or/1-3
- 5 Precancerous conditions/
- 6 (precancer* or pre-cancer* or pre-malign* or premalign* or preneoplast* or pre-neoplastic*).tw.
- 7 ((early or flat* or benign* or intramucosal* or intra-mucosal*) adj3 (neoplasm* or cancer* or carcinoma* or adenocarcinom* or adenoma* or tumour* or tumor* or malignan*)).tw.
- 8 or/5-7
- 9 Esophageal Neoplasms/
- 10 Esophagus/
- 11 (oesophag* or esophag*).tw.
- 12 or/9-11
- 13 8 and 12

- 14 4 or 13
- 15 (argon adj3 plasm* adj3 coagulat*).ti,ab.
- 16 Photochemotherapy/
- 17 ((photodynamic adj3 therap*) or PDT).ti,ab.
- 18 Laser therapy/ or Catheter ablation/
- 19 ((laser adj3 ablati*) or HALO or Barrx).ti,ab.
- 20 Electrocoagulation/ or Laser coagulation/
- 21 ((multi polar or multipolar or multi-polar) adj3 (electro coagulation or electrocoagulation or electro-coagulation)).ti,ab.
- 22 ((Radiofrequency or radio frequency or radio-frequency) adj3 ablati*).ti,ab.
- 23 or/15-22
- 24 Endoscopy/
- 25 Endoscop*.tw.
- 26 24 or 25
- 27 Mucos*.tw.
- 28 exp Dissection/
- 29 (dissect* or resect* or microdissect* or micro-dissect*).tw.
- 30 28 or 29
- 31 26 and 27 and 30
- 32 23 or 31
- 33 Animals/

- 34 Humans/
- 35 33 not (33 and 34)
- 36 (14 and 32) not 35
- 37 Qualitative Research/
- 38 Nursing Methodology Research/
- 39 exp Interviews as topic/
- 40 Questionnaires/
- 41 Narration/
- 42 Health Care Surveys/
- 43 (qualitative\$ or interview\$ or focus group\$ or questionnaire\$ or narrative\$ or narration\$ or survey\$).tw.
- 44 (ethno\$ or emic or etic or phenomenolog\$ or grounded theory or constant compar\$ or (thematic\$ adj3 analys\$) or theoretical sampl\$ or purposive sampl\$).tw.
- 45 (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\$).tw.
- 46 (metasynthes\$ or meta-synthes\$ or metasummar\$ or meta-summar\$ or metastud\$ or meta-stud\$).tw.
- 47 or/37-46
- 48 exp Patients/px
- 49 exp Parents/px
- 50 exp Family/px
- 51 Caregivers/px

- 52 Stress, Psychological/
53 Adaptation, psychological/
54 Emotions/
55 Anxiety/
56 Fear/
57 exp Consumer Satisfaction/
58 ((patient\$ or parent\$ or famil\$ or carer\$ or caregiver\$ or care-giver\$ or inpatient\$ or in-patient\$) adj2 (experience\$ or belief\$ or stress\$ or emotion\$ or anx\$ or fear\$ or concern\$ or uncertain\$ or unsure or thought\$ or feeling\$ or felt\$ or view\$ or opinion\$ or perception\$ or perspective\$ or attitud\$ or satisfact\$ or know\$ or understand\$ or aware\$)).tw.
59 or/48-58
60 47 or 59
61 36 and 60
62 limit 61 to english language

Economic search

The following sources were searched to identify economic evaluations and quality of life data featuring the Barrett's Oesophagus patient population.

- Health Economic Evaluations Database – HEED (Wiley)
- NHS Economic Evaluation Database – NHS EED (Wiley and CRD website)
- EMBASE (Ovid)
- MEDLINE (Ovid)
- MEDLINE In-Process (Ovid)

Ovid MEDLINE(R) <1950 to June Week 3 2009>

1 Barrett Esophagus/

2 ((barrett or barretts or barrett's) adj3 (esophagus or oesophagus or epithelium or syndrome or metaplas*)).ti,ab.

3 ((columnar or specialised or specialized or intestinalized or intestinalised or metaplas*) adj3 (epithelium or oesophagus or esophagus or mucosa)).ti,ab.
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4 or/1-3

5 (argon adj3 plasm* adj3 coagulat*).ti,ab.

6 Photochemotherapy/

7 ((photodynamic adj3 therap*) or PDT).ti,ab.

8 Laser therapy/ or Catheter ablation/

9 ((laser adj3 ablati*) or HALO or Barrx).ti,ab.

10 Electrocoagulation/ or Laser coagulation/

11 ((multi polar or multipolar or multi-polar) adj3 (electro coagulation or electrocoagulation or electro-coagulation)).ti,ab.

12 ((Radiofrequency or radio frequency or radio-frequency) adj3 ablati*).ti,ab.

13 or/5-12

14 Economics/ use mesz

15 exp "Costs and Cost Analysis"/

16 Economics, Dental/

17 exp Economics, Hospital/

18 exp Economics, Medical/

19 Economics, Nursing/

20 Economics, Pharmaceutical/

21 Budgets/

22 exp Models, Economic/

23 Markov Chains/

24 Monte Carlo Method/

25 Decision Trees/

- 26 econom\$.tw.
- 27 cba.tw.
- 28 cea.tw.
- 29 cua.tw.
- 30 markov\$.tw.
- 31 (monte adj carlo).tw.
- 32 (decision adj2 (tree\$ or analys\$)).tw.
- 33 (cost or costs or costing\$ or costly or costed).tw.
- 34 (price\$ or pricing\$).tw.
- 35 budget\$.tw.
- 36 expenditure\$.tw.
- 37 (value adj2 (money or monetary)).tw.
- 38 (pharmacoeconomic\$ or (pharmaco adj economic\$)).tw.
- 39 or/14-38
- 40 "Quality of Life"/
- 41 quality of life.tw.
- 42 "Value of Life"/
- 43 Quality-Adjusted Life Years/
- 44 quality adjusted life.tw.
- 45 (qaly\$ or qald\$ or qale\$ or qtime\$).tw.

- 46 disability adjusted life.tw.
- 47 daly\$.tw.
- 48 Health Status Indicators/
- 49 (sf36 or sf 36 or short form 36 or shortform 36 or sf thirtysix or sf thirty six or shortform thirtysix or shortform thirty six or short form thirtysix or short form thirty six).tw.

50 (sf6 or sf 6 or short form 6 or shortform 6 or sf six or sfsix or shortform six or short form six).tw.

51 (sf12 or sf 12 or short form 12 or shortform 12 or sf twelve or sftwelve or shortform twelve or short form twelve).tw.

52 (sf16 or sf 16 or short form 16 or shortform 16 or sf sixteen or sfsixteen or shortform sixteen or short form sixteen).tw.

53 (sf20 or sf 20 or short form 20 or shortform 20 or sf twenty or sftwenty or shortform twenty or short form twenty).tw.

54 (euroqol or euro qol or eq5d or eq 5d).tw.

55 (qol or hql or hqol or hrqol).tw.

56 (hye or hyes).tw.

57 health\$ year\$ equivalent\$.tw.

58 utilit\$.tw.

59 (hui or hui1 or hui2 or hui3).tw.

60 disutili\$.tw.

61 rosser.tw.

62 quality of wellbeing.tw.

63 quality of well-being.tw.

64 qwb.tw.

65 willingness to pay.tw.

66 standard gamble\$.tw.

67 time trade off.tw.

68 time tradeoff.tw.

69 tto.tw.

70 or/40-69

71 39 or 70

72 4 and 13 and 71