

NATIONAL COLLABORATING CENTRE FOR CANCER

Clinical Guideline: Familial Breast Cancer

Literature search summary

Question title:

A) What is the carrier probability at which genetic testing should be offered to people who are (a) unaffected with a family history of breast/ovarian/related cancer (b)unaffected with a family history and no living relative and (c) affected patients?

F) What are the risk thresholds at which genetic testing should be offered to a person with a family history of breast cancer to:

1. Inform future care
2. Initiate genetic tests for their relatives

Question no: A and F

1. Literature search details and

Update search details

Database name	Dates Covered	No of references found	No of references retrieved	Finish date of search
<i>Medline Update search</i>	All-10/2011 10/2011-7/2012	2539 271	311 43	02/11/2011 04/07/2012
<i>Premedline Update search</i>	All-10/2011 10/2011-7/2012	92 57	14 19	07/11/2011 04/07/2012
<i>Embase Update search</i>	All-10/2011 10/2011-7/2012	1128 624	143 53	07/11/2011 04/07/2012
<i>Cochrane Library Update search</i>	All-10/2011 10/2011-7/2012	571 38	15 1	11/11/2011 04/07/2012
<i>Web of Science (SCI & SSCI) and ISI Proceedings Update search</i>	All-10/2011 10/2011-7/2012	171 40	22 10	11/11/2011 04/07/2012
<i>PsyInfo Update search</i>	All-10/2011 10/2011-7/2012	250 16	7 3	11/11/2011 04/07/2012

Total References retrieved (after de-duplication): 454

Total References retrieved for Update Search (after de-duplication): 110

Medline search strategy (*This search strategy is adapted to each database.*)

1. exp breast neoplasms/
2. exp "Neoplasms, Ductal, Lobular, and Medullary"/
3. ((breast or mammary) adj3 (cancer\$ or tumour\$ or tumor\$ or neoplas\$ or carcinoma\$ or adenocarcinoma\$ or metasta\$ or dcis)).tw.
4. 1 or 2 or 3
5. exp ovarian neoplasms/

6. (ovar\$ adj3 (cancer\$ or tumour\$ or tumor\$ or neoplas\$ or carcinoma\$ or metasta\$)).tw.
7. 5 or 6
8. 4 or 7
9. (familial or (family adj histor\$)).tw.
10. (hereditary or inherit\$).tw.
11. exp Genetic Predisposition to Disease/
12. (BRCA1 or BRCA2 or TP53).tw.
13. ((high adj risk) or (increas\$ adj risk)).tw.
14. (mutation adj1 risk*).tw.
15. lifetime breast cancer risk*.tw.
16. (mutation adj carrier*).tw.
17. (genetic adj susceptib*).tw.
18. (inherited adj mutation*).tw.
19. or/9-18
20. 8 and 19
21. diagnostic genetic test*.tw.
22. predictive genetic test*.tw.
23. (Sanger adj sequenc*).tw.
24. MLPA*.tw.
25. Multiplex Ligation-dependent Probe Amplification*.tw.
26. Genetic Screening/
27. (probability adj1 threshold*).tw.
28. exp Genetic Testing/
29. exp Risk Assessment/
30. or/21-29
31. 20 and 30

There was no filter applied to the search.

2. Health Economics Search for topic A and F

SIGN Health Economics filter was added to search.

(Other database searches were performed by the Swansea University Health Economics team)

Database name	No of references found	Finish date of search
<i>Medline</i>	58	21/11/2011
<i>Update search</i>	3	04/07/2012
<i>Embase</i>	61	21/11/2011
<i>Update search</i>	4	04/07/2012

Total References retrieved (after de-duplication): 96

Total References retrieved for Update Search (after de-duplication): 6

3. Any further comments

Databases not searched because results would be very unlikely: BNI, AHMED, CINAHL, Biomed.

NATIONAL COLLABORATING CENTRE FOR CANCER

Clinical Guideline: Familial Breast Cancer

Literature search summary

Question title: What are the optimal methods for assessing the carrier probability of a patient at different thresholds for genetic testing in women and men at risk of familial breast cancer?

Question no: B

4. Literature search details and

Update Search detail

Database name	Dates Covered	No of references found	No of references retrieved	Finish date of search
Medline Update Search	All-11/2011 11/2011-7/2012	2009 381	152 33	06/12/2011 04/07/012
Premedline Update Search	All-11/2011 11/2011-7/2012	81 97	5 18	09/12/2011 04/07/012
Embase Update Search	All-11/2011 11/2011-7/2012	5606 754	118 40	07/12/2011 04/07/012
Cochrane Library Update Search	All-11/2011 11/2011-7/2012	197 81	9 0	09/12/2011 04/07/012
Web of Science (SCI & SSCI) and ISI Proceedings Update Search	All-11/2011 11/2011-7/2012	320 504	63 10	09/12/2011 04/07/012
PsylInfo Update Search	All-11/2011 11/2011-7/2012	169 25	5 0	09/12/2011 04/07/012

Total References retrieved (after de-duplication): 232

Total References retrieved for Update search (after de-duplication): 87

Medline search strategy (*This search strategy is adapted to each database.*)

1. exp breast neoplasms/
2. exp "Neoplasms, Ductal, Lobular, and Medullary"/
3. ((breast or mammary) adj3 (cancer\$ or tumour\$ or tumor\$ or neoplas\$ or carcinoma\$ or adenocarcinoma\$ or metasta\$ or dcis)).tw.
4. 1 or 2 or 3
5. exp ovarian neoplasms/
6. (ovar\$ adj3 (cancer\$ or tumour\$ or tumor\$ or neoplas\$ or carcinoma\$ or metasta\$)).tw.
7. 5 or 6
8. 4 or 7
9. (familial or (family adj histor\$)).tw.
10. (hereditary or inherit\$).tw.

11. exp Genetic Predisposition to Disease/
12. (mutation adj1 risk*).tw.
13. lifetime breast cancer risk*.tw.
14. (mutation adj carrier*).tw.
15. (inherited adj mutation*).tw.
16. predictive genetic test*.tw.
17. (probability adj1 threshold*).tw.
18. lifetime risk*.tw.
19. interval risk*.tw.
20. assessment tool*.tw.
21. mutation probability*.tw.
22. cancer risk assessment*.tw.
23. risk estimation tool*.tw.
24. mutation frequenc*.tw.
25. BRCAPRO*.tw.
26. BOADICEA*.tw.
27. Tyrer-Cuzick*.tw.
28. exp Risk Assessment/mt [Methods]
29. exp Genetic Testing/mt [Methods]
30. exp "Predictive Value of Tests"/
31. exp Models, Statistical/
32. 9 or 10 or 11
33. 12 or 13 or 14 or 15 or 16 or 17 or 18 or 19 or 20 or 21 or 22 or 23 or 24 or 25 or 26 or 27 or 28 or 29 or 30 or 31
34. 8 and 32
35. 33 and 34

There was no filter applied to the search.

5. Health Economics Search for topic B

SIGN Health Economics filter was added to search.

(Other database searches were performed by the Swansea University Health Economics team)

Database name	No of references found	Finish date of search
<i>Medline</i>	63	26/03/2012
<i>Update Search</i>	1	04/07/2012

<i>Embase</i>	66	26/03/2012
<i>Update Search</i>	4	04/07/2012

Total References retrieved (after de-duplication): 121

Total References retrieved for Update Search (after de-duplication): 5

6. Any further comments

Databases not searched because results would be very unlikely: BNI, AHMED, CINAHL, Biomed.

NATIONAL COLLABORATING CENTRE FOR CANCER

Clinical Guideline: Familial Breast Cancer

Literature search summary

Question title: What is the effectiveness of chemoprevention for the reduction of the incidence of breast cancer in women with a family history of breast, ovarian or related (prostate/pancreatic) cancer?

Question no: C (parts one and two)

7. Literature search details for Part One – chemoprevention of familial breast cancer

Database name	Dates Covered	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	2003-current	1977	272	27/09/2011
<i>Premedline</i>	2003-current	57	6	27/09/2011
<i>Embase</i>	2003-current	4108	192	28/09/2011
<i>Cochrane Library</i>	2003-current	345	28	28/09/2011
<i>Web of Science (SCI & SSCI) and ISI Proceedings</i>	2003-current	1598	95	28/09/2011

Total References retrieved (after duplicates removed): 407

Medline search strategy for Part One *(This search strategy is adapted to each database.)*

1. exp breast neoplasms/
2. exp "Neoplasms, Ductal, Lobular, and Medullary"/
3. ((breast or mammary) adj3 (cancer\$ or tumor\$ or neoplas\$ or carcinoma\$ or adenocarcinoma\$ or metastas\$ or dcis)).tw.
4. or/1-3
5. exp ovarian neoplasms/
6. (ovar\$ adj3 (cancer\$ or tumor\$ or neoplas\$ or carcinoma\$ or adenocarcinoma\$ or metastas\$)).tw.
7. 5 or 6
8. exp Prostatic Neoplasms/
9. (prostat\$ adj3 (cancer\$ or tumor\$ or neoplas\$ or carcinoma\$ or adenocarcinoma\$ or metastas\$)).tw.
10. 8 or 9
11. exp Pancreatic Neoplasms/
12. (pancrea\$ adj3 (cancer\$ or tumor\$ or neoplas\$ or carcinoma\$ or adenocarcinoma\$ or metastas\$)).tw.
13. 11 or 12
14. 4 or 7 or 10 or 13
15. (familial or family histor\$).tw.
16. (heredit\$ or inherit\$ or predispos\$).tw.
17. exp Genetics/
18. genetic\$.tw.
19. (gene or genes or mutation\$).tw.
20. Genetic Screening/
21. exp Genetic Predisposition to Disease/
22. exp Neoplastic Syndromes, Hereditary/
23. Genetic Counseling/

24. exp Genetic Techniques/
25. (BRCA1 or BRCA2 or TP53).tw.
26. Genes, BRCA1/ or Genes, BRCA2/ or Genes, p53/
27. ((high adj risk) or (increas\$ adj risk)).tw.
28. or/15-27
29. 14 and 28
30. 4 and 29
31. exp Chemoprevention/
32. (chemoprevent\$ or chemoprophyla\$).tw.
33. exp Tamoxifen/
34. exp Raloxifene/
35. exp Aromatase Inhibitors/
36. aromatase inhibitor\$.tw.
37. (reduction adj3 (cancer\$ or tumo?r\$ or neoplas\$ or carcinoma\$ or adenocarcinoma\$ or metasta\$)).tw.
38. (exemestane\$ or aromasin\$).tw.
39. anastr?zol\$.tw.
40. letrozol\$.tw.
41. or/31-40
42. 30 and 41
43. limit 42 to yr="2003 -Current"

Notes:

As this was an update topic then the date limits were from when the searches in the previous guideline finished in 2003.

A search filter to exclude animal studies was added to Embase to reduce the number of hits.

Part two:

At the request of the GDG, an additional search was run considering the adverse effects (as outcome) of tamoxifen in women with breast cancer.

An adverse effects search filter was used (BMJ Clinical Evidence) – see below.

8. Literature search details for Part Two – Chemoprevention of breast cancer

Database name	Dates Covered	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	2003-current	2583	535	05/10/2011
<i>Premedline</i>	2003-current	96	29	05/10/2011
<i>Embase</i>	2003-current	7819	651	19/10/2011
<i>Cochrane Library</i>	2003-current	1225	187	11/10/2010
<i>Web of Science (SCI & SSCI) and ISI Proceedings</i>	2003-current	1759	302	11/10/2011

Total References retrieved (after duplicates removed): 954

9. Medline search strategy for Part Two

1. exp Breast Neoplasms/
2. exp "Neoplasms, Ductal, Lobular, and Medullary"/
3. Carcinoma, Intraductal, Noninfiltrating/
4. Carcinoma, Lobular/
5. Carcinoma, Medullary/
6. exp mammary neoplasms/
7. or/1-6
8. (breast\$ adj5 (neoplasm\$ or cancer\$ or tumor\$ or carcinoma\$ or adenocarcinoma\$ or sarcoma\$ or leiomyosarcoma\$ or dcis or duct\$ or infiltrat\$ or intraduct\$ or lobul\$ or medullary or tubular)).tw.
9. (mammar\$ adj5 (neoplasm\$ or cancer\$ or tumor\$ or carcinoma\$ or adenocarcinoma\$ or sarcoma\$ or leiomyosarcoma\$ or dcis or duct\$ or infiltrat\$ or intraduct\$ or lobul\$ or medullary or tubular)).tw.
10. 8 or 9
11. 7 or 10
12. exp Chemoprevention/
13. (chemoprevent\$ or chemoprophyla\$).tw.
14. exp Tamoxifen/
15. tamoxifen.tw.
16. exp Raloxifene/
17. raloxifene.tw.
18. exp Aromatase Inhibitors/
19. aromatase inhibitor\$.tw.
20. (reduction adj2 (cancer\$ or tumor\$ or neoplas\$ or carcinoma\$ or adenocarcinoma\$ or metastas\$)).tw.
21. (exemestane\$ or aromasin\$).tw.
22. anastrazole\$.tw.
23. letrozol\$.tw.
24. or/12-23
25. 11 and 24
26. (ae or to or po or co).fs.
27. (safe or safety).tw.
28. side effect\$.tw.
29. ((adverse or undesirable or harms\$ or serious or toxic) adj3 (effect\$ or reaction\$ or event\$ or outcome\$)).tw.
30. exp product surveillance, postmarketing/
31. exp adverse drug reaction reporting systems/
32. exp clinical trials, phase iv/
33. exp poisoning/
34. exp substance-related disorders/
35. exp drug toxicity/
36. exp abnormalities, drug induced/
37. exp drug monitoring/
38. exp drug hypersensitivity/
39. (toxicity or complication\$ or noxious or tolerability).tw.

- 40. exp Postoperative Complications/
- 41. exp Intraoperative Complications/
- 42. or/26-41
- 43. 25 and 42
- 44. limit 43 to yr="2003 -Current"

10. Health Economics searches

(Other searches were performed by the Swansea University Health Economics team)

Part One – Chemoprevention of familial breast cancer

Database name	Dates Covered	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	2003-current	24	8	31/10/2011
<i>Embase</i>	2003-current	251	13	31/10/2011

Total references retrieved after duplicates removed: 14

Part Two – Chemoprevention of breast cancer with adverse effects filter

Database name	Dates Covered	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	2003-current	75	39	01/11/2011
<i>Embase</i>	2003-current	667	87	01/11/2011

Total references retrieved after duplicates removed: 87

Update Searches:

Part One:

Database name	Dates Covered	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	/09/2011-09/07/2012	5	3	09/07/2012
<i>Embase</i>	/09/2011-09/07/2012	3	0	09/07/2012

Total references retrieved after duplicates removed: 4

Part Two:

Database name	Dates Covered	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	/09/2011-09/07/2012	6	3	09/07/2012
<i>Embase</i>	/09/2011-09/07/2012	23	3	09/07/2012

Total references retrieved after duplicates removed: 4

11. Update Searches

Part One:

Database name	Dates Covered	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	27/09/2011-09/07/2012	227	22	09/07/2012
<i>Premedline</i>	27/09/2011-09/07/2012	6	4	09/07/2012
<i>Embase</i>	09/2011-07/2012	84	3	09/07/2012
<i>Cochrane Library</i>	09/2011-07/2012	9	2	09/07/2012
<i>Web of Science (SCI & SSCI) and ISI Proceedings</i>	09/2011-07/2012	331	8	09/07/2012

Premedline: 1 new reference added 10/09/2012

Total References retrieved (after de-duplication): 35

Part Two:

Database name	Dates Covered	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	27/09/2011-09/07/2012	224	53	09/07/2012
<i>Premedline</i>	27/09/2011-09/07/2012	6	3	09/07/2012
<i>Embase</i>	09/2011-07/2012	152	23	09/07/2012
<i>Cochrane Library</i>	09/2011-07/2012	26	13	09/07/2012
<i>Web of Science (SCI & SSCI) and ISI Proceedings</i>	09/2011-07/2012	114	28	09/07/2012

Premedline: 1 new reference added 10/09/2012

Medline: 1 new reference added 17/09/2012

Embase: 1 new reference added 17/09/2012

Embase: 2 new references added 24/09/2012

Premedline: 2 new references added 24/09/2012

Total number of references (after de-duplication):96

NATIONAL COLLABORATING CENTRE FOR CANCER

Clinical Guideline: Familial Breast Cancer

Literature search summary

Question title: Specific surveillance needs of women with no personal history of breast cancer

Question no: D

12. Literature search details

Database name	Dates Covered	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	2003-current	1823	205	23/11/11
<i>Premedline</i>	2003-current	115	16	23/11/11
<i>Embase</i>	2003-current	4376	245	29/11/11
<i>Cochrane Library</i>	2003-current	48	10	29/11/11
<i>Web of Science (SCI & SSCI) and ISI Proceedings</i>	2003-current	3462	193	01/12/11

1 2001 study added 10/09/2012

Total References retrieved (after de-duplication): 401

Medline search strategy (*This search strategy is adapted to each database.*)

1. exp breast neoplasms/
2. exp "Neoplasms, Ductal, Lobular, and Medullary"/
3. ((breast or mammary) adj3 (cancer\$ or tumour\$ or tumor\$ or neoplasm\$ or carcinoma\$ or adenocarcinoma\$ or metasta\$ or dcis)).tw.
4. or/1-3
5. exp Ovarian Neoplasms/
6. (ovar\$ adj3 (cancer\$ or tumour\$ or tumor\$ or neoplasm\$ or carcinoma\$ or metasta\$)).tw.
7. 5 or 6
8. 4 or 7
9. (familial or family histor\$).tw.
10. (heredit\$ or inherit\$ or predispos\$).tw.
11. exp Genetics/
12. genetic\$.tw.
13. (gene or genes or mutation\$).tw.
14. Genetic Screening/
15. exp Genetic Predisposition to Disease/
16. exp Neoplastic Syndromes, Hereditary/
17. Genetic Counseling/
18. exp Genetic Techniques/
19. (BRCA1 or BRCA2 or TP53).tw.
20. Genes, BRCA1/ or Genes, BRCA2/ or Genes, p53/
21. ((high adj risk) or (increas\$ adj risk)).tw.
22. or/9-21

23. 8 and 22
24. exp Mammography/
25. (breast\$ and screen\$).ti.
26. (mammogra\$ or echomammogra\$).tw.
27. Ultrasonography, Mammary/
28. (ultraso\$ or sonogra\$ or echosonogra\$).tw.
29. Magnetic Resonance Imaging/
30. "magnetic resonance imag\$".tw.
31. MRI.tw.
32. ((non-invasive\$ or noninvasive\$) and (imag\$ or diagnos\$)).tw.
33. Mass Screening/
34. surveillance.tw.
35. Physical Examination/
36. Breast self-examination/
37. ("physical exam\$" or "self exam\$" or "self-exam\$" or "clinical exam\$" or "breast exam\$").tw.
38. or/24-37
39. 23 and 38
40. limit 39 to yr="2003 -Current"

Notes:

A date limit of 2003 was applied.

No search filters were applied.

13. Health Economics searches

(Other database searches were performed by the Swansea University Health Economics team)

Database name	Dates Covered	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	1970-current	80	17	01/12/11
<i>Embase</i>	1970-current	350	27	01/12/11

Total references retrieved after duplicates removed: 33

14. Update Searches

Database name	Dates Covered	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	23/11/2011-17/07/2012	255	41	17/07/2012
<i>Premedline</i>	23/11/2011-17/07/2012	3	0	17/07/2012
<i>Embase</i>	11/2011-07/2012	121	22	17/07/2012
<i>Cochrane Library</i>	11/2011-07/2012	12	3	09/07/2012

Web of Science (SCI & SSCI) and ISI Proceedings	12/2011-07/2012	355	31	23/07/2012
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Medline: 1 new references added 06/09/2012
 Medline: 1 new reference added 10/09/2012
 Embase: 1 new reference added 10/09/2012
 Embase: 1 new reference added 17/09/2012
 Embase: 1 new reference added 18/09/2012
 Medline: 1 new reference added 24/09/2012

Total references retrieved after duplicates removed: 77

Health Economics:

Database name	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	8	3	17/07/2012
<i>Embase</i>	9	1	17/07/2012

Total references retrieved after duplicates removed: 4

NATIONAL COLLABORATING CENTRE FOR CANCER

Clinical Guideline: Familial Breast Cancer

Literature search summary

Question title: What are the risks and benefits of HRT for women under the age of 50, with a BRCA1 or BRCA2 mutation who have undergone a bilateral salpingo-oophorectomy?

Question no: E

15. Literature search details

Database name	Dates Covered	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	1995-current	133	27	05/09/2011
<i>Premedline</i>	1995-current	3	1	05/09/2011
<i>Embase</i>	1995-current	247	25	06/09/2011
<i>Cochrane Library</i>	1995-current	11	1	06/09/2011
<i>Web of Science (SCI & SSCI) and ISI Proceedings</i>	1995-current	220	30	07/09/2011
<i>PsycInfo</i>	1995-current	5	2	06/09/2011

Total References retrieved (after de-duplication): 49

Medline search strategy (*This search strategy is adapted to each database.*)

1. exp breast neoplasms/
2. exp "Neoplasms, Ductal, Lobular, and Medullary"/
3. ((breast or mammary) adj3 (cancer\$ or tumour\$ or tumor\$ or neoplas\$ or carcinoma\$ or adenocarcinoma\$ or metasta\$ or dcis)).tw.
4. or/1-3
5. exp Ovarian Neoplasms/
6. (ovar\$ adj3 (cancer\$ or tumour\$ or tumor\$ or neoplas\$ or carcinoma\$ or metasta\$)).tw.
7. 5 or 6
8. 4 or 7
9. (familial or family histor\$).tw.
10. (heredit\$ or inherit\$ or predispos\$).tw.
11. exp Genetics/
12. genetic\$.tw.
13. (gene or genes or mutation\$).tw.
14. Genetic Screening/
15. exp Genetic Predisposition to Disease/
16. exp Neoplastic Syndromes, Hereditary/
17. Genetic Counseling/
18. exp Genetic Techniques/
19. (BRCA1 or BRCA2 or TP53).tw.
20. Genes, BRCA1/ or Genes, BRCA2/ or Genes, p53/
21. ((high adj risk) or (increas\$ adj risk)).tw.

- 22. or/9-21
- 23. 8 and 22
- 24. Ovariectomy/
- 25. (ovariectom\$ or oophorectom\$).tw.
- 26. (ovar\$ removal or ovar\$ surger\$ or ovar\$ ablat\$).tw.
- 27. (prophylactic adj surger\$).tw.
- 28. or/24-27
- 29. 23 and 28
- 30. exp Hormone Replacement Therapy/
- 31. ((hormon\$ or oestrogen\$ or estrogen\$ or oestradiol or estradiol or progesterone\$ or progestin) and replacement).tw.
- 32. hormone substitution.tw.
- 33. hrt.tw.
- 34. ((hormon\$ or oestrogen\$ or estrogen\$ or oestradiol or estradiol or progesterone\$ or progestin) adj2 (therap\$ or treatment\$)).tw.
- 35. or/30-34
- 36. 29 and 35
- 37. limit 36 to yr="1995 -Current"

Notes:

A date limit of 1995 was applied by advice of the GDG, as before 1995 no large scale genetic testing was available.

No search filters were applied.

16. Health Economics searches

(Other database searches were performed by the Swansea University Health Economics team)

Database name	Dates Covered	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	1995-current	7	0	07/09/2011
<i>Embase</i>	1995-current	16	0	07/09//2011

Total references retrieved after duplicates removed: 0

17. Update Searches

Database name	Dates Covered	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	05/09/2011-04/07/2012	10	3	04/07/2012
<i>Premedline</i>	05/09/2011-04/07/2012	5	0	04/07/2012
<i>Embase</i>	09/2011-07/2012	3	1	04/07/2012
<i>Cochrane Library</i>	09/2011-07/2012	1	0	04/07/2012

Web of Science (SCI & SSCI) and ISI Proceedings	09/2011-07/2012	5	2	04/07/2012
PsycInfo	09/2011-07/2012	0	0	04/07/2012

Premedline: 1 new reference added 05/09/2012

Total References retrieved (after de-duplication): 6

Health Economics Update Searches:

Database name	No of references found	No of references retrieved	Finish date of search
Medline	0	0	04/07/2012
Embase	0	0	04/07/2012

Total References retrived (after de-duplication): 0

NATIONAL COLLABORATING CENTRE FOR CANCER

Clinical Guideline: Familial Breast Cancer

Literature search summary

Question title: Does knowing the mutation status of a patient prior to treatment impact the rate of uptake of different treatment options and subsequently the outcome of the different treatment options?

Question no: G1

18. Literature search details

Database name	Dates Covered	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	1998-current	611	77	22/02/2012
<i>Premedline</i>	1998-current	21	3	22/02/2012
<i>Embase</i>	1998-current	1173	79	29/02/2012
<i>Cochrane Library</i>	1998-current	90	0	29/02/2012
<i>Web of Science (SCI & SSCI) and ISI Proceedings</i>	1998-current	708	47	05/03/2012

Total References retrieved (after duplicates removed): 130

Medline search strategy (*This search strategy is adapted to each database.*)

1. exp breast neoplasms/
2. exp "Neoplasms, Ductal, Lobular, and Medullary"/
3. ((breast or mammary) adj3 (cancer\$ or tumour\$ or tumor\$ or neoplasm\$ or carcinoma\$ or adenocarcinoma\$ or metasta\$ or dcis)).tw.
4. or/1-3
5. exp Ovarian Neoplasms/
6. (ovar\$ adj3 (cancer\$ or tumour\$ or tumor\$ or neoplasm\$ or carcinoma\$ or metasta\$)).tw.
7. 5 or 6
8. 4 or 7
9. (familial or family histor\$).tw.
10. (heredit\$ or inherit\$ or predispos\$).tw.
11. exp Genetics/
12. genetic\$.tw.
13. (gene or genes or mutation\$).tw.
14. Genetic Screening/
15. exp Genetic Predisposition to Disease/
16. exp Neoplastic Syndromes, Hereditary/
17. Genetic Counseling/
18. exp Genetic Techniques/
19. (BRCA1 or BRCA2 or TP53).tw.
20. Genes, BRCA1/ or Genes, BRCA2/ or Genes, p53/
21. ((high adj risk) or (increas\$ adj risk)).tw.
22. or/9-21
23. 8 and 22

24. exp Mastectomy/
25. mastectom\$.tw.
26. mammoplast\$.tw.
27. mammoplast\$.tw.
28. mamnectom\$.tw.
29. or/24-28
30. *Ovariectomy/
31. (oophorectom\$ or salpingoophorectom\$).tw.
32. 30 or 31
33. Surgery/
34. (risk reduc\$ adj surger\$).tw.
35. (breast conserv\$ adj surger\$).tw.
36. or/33-35
37. Antineoplastic Combined Chemotherapy Protocols/
38. chemotherap\$.tw.
39. exp Antineoplastic Agents/
40. or/37-39
41. exp Radiotherapy/
42. radiotherap\$.tw.
43. (radiation adj (therap\$ or treatment\$)).tw.
44. or/41-43
45. ((therap\$ or treatment\$) adj adjuvant).tw.
46. Combined Modality Therapy/
47. 45 or 46
48. 29 or 32 or 36 or 40 or 44 or 47
49. 23 and 48
50. ((breast or mammary) adj3 (cancer\$ or tumour\$ or tumor\$ or neoplasm\$ or carcinoma\$ or adenocarcinoma\$ or metasta\$ or dcis)).tw.
51. (primary or first or new or prior).tw.
52. 50 and 51
53. 49 and 52
54. (mutation\$ or BRCA1 or BRCA2 or TP53).tw.
55. (gene\$ adj status).tw.
56. exp Mutation/
57. genes, brca1/ or genes, brca2/
58. brca1 protein/ or brca2 protein/
59. Tumor Suppressor Protein p53/tu [Therapeutic Use]
60. Genes, p53/
61. or/54-60
62. 53 and 61

Notes:

19. Health Economics searches

(Other searches were performed by the Swansea University Health Economics team)

Database name	Dates Covered	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	1998-current	3	1	22/02/2012
<i>Embase</i>	1998-current	31	1	05/03/2012
Total references retrieved (after duplicates removed): 2				

20. Update Searches

Database name	Dates Covered	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	01/02/2012-18/07/2012	26	2	18/07/2012
<i>Premedline</i>	01/02/2012-18/07/2012	16	1	18/07/2012
<i>Embase</i>	02/2012-07/2012	25	1	18/07/2012
<i>Cochrane Library</i>	02/2012-07/2012	2	0	
<i>Web of Science (SCI & SSCI) and ISI Proceedings</i>	02/2012-07/2012	54	7	23/07/2012

Total references retrieved after duplicates removed: 8

Health Economics:

Database name	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	0	0	18/07/2012
<i>Embase</i>	0	0	18/07/2012
Total references retrieved after duplicates removed: 0			

NATIONAL COLLABORATING CENTRE FOR CANCER

Clinical Guideline: Familial Breast Cancer

Literature search summary

Question title: Who should discuss the implications of genetic testing with the patient and when is the most appropriate time for such a discussion to occur?

Question no: G2

21. Literature search details

Database name	Dates Covered	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	1996-current	521	65	27/03/2012
<i>Premedline</i>	1996-current	25	0	27/03/2012
<i>Embase</i>	1996-current	662	58	18/04/2012
<i>Cochrane Library</i>	1996-current	129	4	28/03/2012
<i>Web of Science (SCI & SSCI) and ISI Proceedings</i>	1996-current	807	98	18/04/2012
<i>PsycInfo</i>	1996-current	38	9	28/03/2012
<i>CINAHL</i>	1996-current	443	36	28/03/2012

Total References retrieved (after duplicates removed): 201

Medline search strategy for Part One (*This search strategy is adapted to each database.*)

1. exp breast neoplasms/
2. exp "Neoplasms, Ductal, Lobular, and Medullary"/
3. ((breast or mammary) adj3 (cancer\$ or tumour\$ or tumor\$ or neoplasm\$ or carcinoma\$ or adenocarcinoma\$ or metasta\$ or dcis)).tw.
4. or/1-3
5. exp Ovarian Neoplasms/
6. (ovar\$ adj3 (cancer\$ or tumour\$ or tumor\$ or neoplasm\$ or carcinoma\$ or metasta\$)).tw.
7. 5 or 6
8. 4 or 7
9. (familial or family histor\$).tw.
10. (heredit\$ or inherit\$ or predispos\$).tw.
11. exp Genetics/
12. genetic\$.tw.
13. (gene or genes or mutation\$).tw.
14. Genetic Screening/
15. exp Genetic Predisposition to Disease/
16. exp Neoplastic Syndromes, Hereditary/
17. Genetic Counseling/
18. exp Genetic Techniques/
19. (BRCA1 or BRCA2 or TP53).tw.
20. Genes, BRCA1/ or Genes, BRCA2/ or Genes, p53/
21. ((high adj risk) or (increas\$ adj risk)).tw.

22. or/9-21
23. 8 and 22
24. ((breast or mammary) adj3 (cancer\$ or tumour\$ or tumor\$ or neoplasm\$ or carcinoma\$ or adenocarcinoma\$ or metasta\$ or dcis)).tw.
25. (primary or first or new).tw.
26. 24 and 25
27. 23 and 26
28. (mutation\$ or BRCA1 or BRCA2 or TP53).tw.
29. (gene\$ adj status).tw.
30. genes, brca1/ or genes, brca2/
31. brca1 protein/ or brca2 protein/
32. Tumor Suppressor Protein p53/
33. Genes, p53/
34. exp Mutation/
35. or/28-34
36. 27 and 35
37. exp Medical Staff/
38. exp Nurses/
39. exp Physicians/
40. exp Family/
41. Patient Care Team/
42. 37 or 38 or 39 or 40 or 41
43. (surgeon\$ or specialist\$ or doctor\$ or physician\$ or clinician\$ or oncologist\$ or MDT\$ or nurse\$ or health\$ worker\$ or health\$ professional\$ or general practioner\$ or gp).tw.
44. (geneticist\$ or counsel?or\$).tw.
45. (famil\$ or relati\$).tw.
46. 43 or 44 or 45
47. 42 or 46
48. 36 and 47
49. Patient Education as Topic/
50. Attitude of Health Personnel/
51. Physician-Patient Relations/
52. Nurse-Patient Relations/
53. Patient Participation/
54. exp Patient Satisfaction/
55. Professional-Family Relations/
56. exp Decision Making/
57. exp Ethics, Medical/
58. (discuss\$ or disseminat\$ or inform\$ or communicat\$ or interview\$ or counsel\$ or talk\$ or tell\$ or decid\$ or decision\$ or written or document\$).tw.
59. or/49-58
60. 48 and 59

Notes:

22. Health Economics searches

(Other searches were performed by the Swansea University Health Economics team)

Database name	Dates Covered	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	1996-current	19	4	23/04/2012
<i>Embase</i>	1996-current	33	4	23/04/2012

Total references retrieved (after duplicates removed): 7

23. Update Searches

Database name	Dates Covered	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	01/02/2012-17/07/2012	15	2	18/07/2012
<i>Premedline</i>	01/02/2012-17/07/2012	25	8	18/07/2012
<i>Embase</i>	02/2012-07/2012	9	1	18/07/2012
<i>PsycInfo</i>		4	1	24/07/2012
<i>Cochrane Library</i>	02/2012-07/2012	20	1	23/07/2012
<i>Web of Science (SCI & SSCI) and ISI Proceedings</i>	02/2012-07/2012	42	7	23/07/2012
<i>CINAHL</i>	02/2012-07/2012	5	1	25/07/2012

Premedline: 1 new reference added 31/07/2012

Premedline: 1 new reference added 05/09/2012

Premedline: 1 new reference added 06/09/2012

Total references retrieved after duplicates removed: 26

Health Economics:

Database name	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	0	0	18/07/2012
<i>Embase</i>	0	0	18/07/2012

Total references retrieved after duplicates removed: 0

NATIONAL COLLABORATING CENTRE FOR CANCER

Clinical Guideline: Familial Breast Cancer

Literature search summary

Question title: Risk-reducing breast or ovarian surgery: At what level of risk of future primary breast cancer, and in what circumstances, should the option of risk-reducing surgery be discussed?

Question no: H1

24. Literature search details

Database name	Dates Covered	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	All dates	350	55	01/02/2012
<i>Premedline</i>	All dates	13	2	06/02/2012
<i>Embase</i>	All dates	562	51	08/02/2012
<i>Cochrane Library</i>	All dates	49	6	06/02/2012
<i>Web of Science (SCI & SSCI) and ISI Proceedings</i>	All dates	636	46	07/02/2012

Total References retrieved (after duplicates removed): 99

Medline search strategy (*This search strategy is adapted to each database.*)

1. exp breast neoplasms/
2. exp "Neoplasms, Ductal, Lobular, and Medullary"/
3. ((breast or mammary) adj3 (cancer\$ or tumour\$ or tumor\$ or neoplasm\$ or carcinoma\$ or adenocarcinoma\$ or metasta\$ or dcis)).tw.
4. or/1-3
5. exp Ovarian Neoplasms/
6. (ovar\$ adj3 (cancer\$ or tumour\$ or tumor\$ or neoplasm\$ or carcinoma\$ or metasta\$)).tw.
7. 5 or 6
8. 4 or 7
9. (familial or (family adj histor\$)).tw.
10. (hereditary or inherit\$).tw.
11. exp Genetics/
12. genetic\$.tw.
13. (gene or genes).tw.
14. Genetic Screening/
15. exp Genetic Predisposition to Disease/
16. Genetic Counseling/
17. exp Genetic Techniques/
18. (BRCA1 or BRCA2 or TP53).tw.
19. ((high adj risk) or (increas\$ adj risk)).tw.
20. or/9-19
21. 8 and 20

- 22. exp Mastectomy/
- 23. mastectom\$.tw.
- 24. mammaplast\$.tw.
- 25. mammoplast\$.tw.
- 26. mamnectom\$.tw.
- 27. or/22-26
- 28. *Ovariectomy/
- 29. (oophorectom\$ or ovariectom\$ or salpingoophorectom\$).tw.
- 30. 28 or 29
- 31. ((risk reduc\$ or preventive or prophylactic) adj surg\$).tw.
- 32. 27 or 30 or 31
- 33. 21 and 32
- 34. ((breast or mammary) adj3 (cancer\$ or tumour\$ or tumor\$ or neoplasm\$ or carcinoma\$ or adenocarcinoma\$ or metasta\$ or dcis) adj3 (diagnos\$ or confirm\$ or past or histor\$ or affect\$)).tw.
- 35. 33 and 34
- 36. risk\$.tw.
- 37. 35 and 36

Notes:

No search filters were applied.

25. Health Economics searches

(Other database searches were performed by the Swansea University Health Economics team)

Database name	Dates Covered	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	All dates	11	3	06/02/2012
<i>Embase</i>	All dates	26	2	08/02/2012
Total references retrieved after duplicates removed: 4				

26. Update Searches

Database name	Dates Covered	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	01/02/2012-17/07/2012	11	3	17/07/2012
<i>Premedline</i>	01/02/2012-17/07/2012	13	2	17/07/2012
<i>Embase</i>	02/2012-07/2012	16	3	17/07/2012
<i>Cochrane Library</i>	02/2012-07/2012	10	0	23/07/2012
<i>Web of Science (SCI & SSCI) and ISI Proceedings</i>	02/2012-072012	12	2	23/07/2012

Premedline: 2 references added 10/09/2012

Total references retrieved after duplicates removed: 10

Health Economics:

Database name	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	0	0	17/07/2012
<i>Embase</i>	1	0	17/07/2012

Total references retrieved after duplicates removed: 0

NATIONAL COLLABORATING CENTRE FOR CANCER

Clinical Guideline: Familial Breast Cancer

Literature search summary

Question title: Risk-reducing breast or ovarian surgery: In what circumstances is offering risk-reducing surgery not appropriate?

Question no: H2

27. Literature search details

Database name	Dates Covered	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	All dates	466	73	23/01/2012
<i>Premedline</i>	All dates	21	2	23/01/2012
<i>Embase</i>	All dates	733	75	24/01/2012
<i>Cochrane Library</i>	All dates	51	5	25/01/2012
<i>Web of Science (SCI & SSCI) and ISI Proceedings</i>	All dates	723	48	25/01/2012

Total References retrieved (after duplicates removed): 127

Medline search strategy (*This search strategy is adapted to each database.*)

1. exp breast neoplasms/
2. exp "Neoplasms, Ductal, Lobular, and Medullary"/
3. ((breast or mammary) adj3 (cancer\$ or tumour\$ or tumor\$ or neoplasm\$ or carcinoma\$ or adenocarcinoma\$ or metasta\$ or dcis)).tw.
4. or/1-3
5. exp Ovarian Neoplasms/
6. (ovar\$ adj3 (cancer\$ or tumour\$ or tumor\$ or neoplasm\$ or carcinoma\$ or metasta\$)).tw.
7. 5 or 6
8. 4 or 7
9. (familial or (family adj histor\$)).tw.
10. (hereditary or inherit\$).tw.
11. exp Genetics/
12. genetic\$.tw.
13. (gene or genes).tw.
14. Genetic Screening/
15. exp Genetic Predisposition to Disease/
16. Genetic Counseling/
17. exp Genetic Techniques/
18. (BRCA1 or BRCA2 or TP53).tw.
19. ((high adj risk) or (increas\$ adj risk)).tw.
20. or/9-19
21. 8 and 20

- 22. exp Mastectomy/
- 23. mastectom\$.tw.
- 24. mammaplast\$.tw.
- 25. mammoplast\$.tw.
- 26. mamnectom\$.tw.
- 27. or/22-26
- 28. *Ovariectomy/
- 29. (oophorectom\$ or ovariectom\$ or salpingoophorectom\$).tw.
- 30. 28 or 29
- 31. ((risk reduc\$ or preventive or prophylactic) adj surg\$).tw.
- 32. 27 or 30 or 31
- 33. 21 and 32
- 34. ((breast or mammary) adj3 (cancer\$ or tumour\$ or tumor\$ or neoplasm\$ or carcinoma\$ or adenocarcinoma\$ or metasta\$ or dcis) adj3 (diagnos\$ or confirm\$ or past or histor\$ or affect\$)).tw.
- 35. 33 and 34

Notes:

No search filters were applied .

28. Health Economics searches

(Other database searches were performed by the Swansea University Health Economics team)

Database name	Dates Covered	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	All dates	12	4	30/01/2012
<i>Embase</i>	All dates	32	4	30/01/2012

Total references retrieved after duplicates removed: 7

29. Update Searches

Database name	Dates Covered	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	01/02/2012-17/07/2012	92	14	17/07/2012
<i>Premedline</i>	01/02/2012-17/07/2012	50	14	17/07/2012
<i>Embase</i>	02/2012-07/2012	20	2	17/07/2012
<i>Cochrane Library</i>	02/2012-07/2012	10	0	23/07/2012
<i>Web of Science (SCI & SSCI) and ISI Proceedings</i>	02/2012-07/2012	64	7	23/07/2012

Premedline: 2 references added 05/09/2012

Premedline: 1 reference added 10/09/2012

Total references retrieved after duplicates removed: 34

Health Economics:

Database name	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	2	0	17/07/2012
<i>Embase</i>	1	0	17/07/2012

Total references retrieved after duplicates removed: 0

NATIONAL COLLABORATING CENTRE FOR CANCER

Clinical Guideline: Familial Breast Cancer

Literature search summary

Question title: What are the specific surveillance needs of people with a personal history of breast cancer and a familial risk, who have not undergone a risk reducing mastectomy?

Question no: I

30. Literature search details

Database name	Dates Covered	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	1970-current	1520	59	15/11/2011
<i>Premedline</i>	1970-current	69	1	15/11/2011
<i>Embase</i>	1970-current	2341	33	16/11/2011
<i>Cochrane Library</i>	1970-current	54	7	21/11/2011
<i>Web of Science (SCI & SSCI) and ISI Proceedings</i>	1970-current	2523	27	16/11/2011

Total References retrieved (after de-duplication): 109

Medline search strategy (*This search strategy is adapted to each database.*)

1. exp breast neoplasms/
2. exp "Neoplasms, Ductal, Lobular, and Medullary"/
3. ((breast or mammary) adj3 (cancer\$ or tumour\$ or tumor\$ or neoplasm\$ or carcinoma\$ or adenocarcinoma\$ or metasta\$ or dcis)).tw.
4. or/1-3
5. exp Ovarian Neoplasms/
6. (ovar\$ adj3 (cancer\$ or tumour\$ or tumor\$ or neoplasm\$ or carcinoma\$ or metasta\$)).tw.
7. 5 or 6
8. 4 or 7
9. (familial or (family adj histor\$)).tw.
10. (hereditary or inherit\$).tw.
11. exp Genetics/
12. genetic\$.tw.
13. (gene or genes).tw.
14. Genetic Screening/
15. exp Genetic Predisposition to Disease/
16. Genetic Counseling/
17. exp Genetic Techniques/
18. (BRCA1 or BRCA2 or TP53).tw.
19. or/9-18
20. 8 and 19
21. Neoplasms, Second Primary/
22. Neoplasm Recurrence, Local/

- 23. 21 or 22
- 24. exp Breast Neoplasms/
- 25. exp "Neoplasms, Ductal, Lobular, and Medullary"/
- 26. 24 or 25
- 27. 23 and 26
- 28. (breast\$ adj3 (neoplasm\$ or cancer\$ or tumo?r\$ or carcinoma\$ or adenocarcinoma\$)).tw.
- 29. (mammar\$ adj3 (neoplasm\$ or cancer\$ or tumo?r\$ or carcinoma\$ or adenocarcinoma\$)).tw.
- 30. 28 or 29
- 31. ("second primar\$" or secondary or recurren\$ or metachronous or ipsilateral or history).tw.
- 32. 30 and 31
- 33. 27 or 32
- 34. 20 and 33
- 35. exp Mammography/
- 36. (breast\$ and screen\$).ti.
- 37. mammogra\$.tw.
- 38. Ultrasonography, Mammary/
- 39. (ultraso\$ or sonogra\$ or echosonogra\$).tw.
- 40. Magnetic Resonance Imaging/
- 41. "magnetic resonance imag\$".tw.
- 42. MRI.tw.
- 43. ((non-invasive\$ or noninvasive\$) and (imag\$ or diagnos\$)).tw.
- 44. Mass Screening/
- 45. surveillance.tw.
- 46. Physical Examination/
- 47. Breast self-examination/
- 48. ("physical exam\$" or "self exam\$" or "self-exam\$" or "clinical exam\$" or "breast exam\$").tw.
- 49. or/35-48
- 50. 34 and 49

Notes:

A date limit of 1970 was applied by advice of the GDG, as before 1970 it is unlikely surveillance studies were published.

No search filters were applied.

31. Health Economics searches

(Other database searches were performed by the Swansea University Health Economics team)

Database name	Dates Covered	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	1970-current	63	8	21/11/2011
<i>Embase</i>	1970-current	209	8	21/11/2011

Total references retrieved after duplicates removed: 12

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32. Update Searches:

Database name	Dates Covered	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	21/11/2011-17/07/2012	88	20	17/07/2012
<i>Premedline</i>	21/11/2011-17/07/2012	2	1	17/07/2012
<i>Embase</i>	11/2011-07/2012	94	18	17/07/2012
<i>Cochrane Library</i>	11/2011-07/2012	12	2	09/07/2012
<i>Web of Science (SCI & SSCI) and ISI Proceedings</i>	11/2011-07/2012	142	9	23/07/2012

Embase: 1 new reference added 17/09/2012

Embase: 1 new reference added 18/09/2012

Total references retrieved after duplicates removed: 42

Health Economics:

Other database searches were performed by the Swansea University Health Economics team)

Database name	Dates Covered	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>		4	2	17/07/2012
<i>Embase</i>		4	0	17/07/2012

Total references retrieved after duplicates removed: 2

NATIONAL COLLABORATING CENTRE FOR CANCER

Clinical Guideline: Familial Breast Cancer

Literature search summary

Question title: What is the effectiveness of mastectomy compared with breast conserving surgery plus radiotherapy for people with newly diagnosed breast cancer of high grade ductal carcinoma in situ (DCIS) with a TP53 mutation or at high risk of TP53 mutation?

Question no: J

33. Literature search details

Database name	Dates Covered	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	1970-current	108	8	09/01/2012
<i>Premedline</i>	1970-current	0	0	09/01/2012
<i>Embase</i>	1970-current	356	9	09/01/2012
<i>Cochrane Library</i>	1970-current	44	1	09/01/2012
<i>Web of Science (SCI & SSCI) and ISI Proceedings</i>	1970-current	26	3	09/01/2012

Total References retrieved (after de-duplication): 15

Medline search strategy (*This search strategy is adapted to each database.*)

1. exp breast neoplasms/
2. exp "Neoplasms, Ductal, Lobular, and Medullary"/
3. ((breast or mammary) adj3 (cancer\$ or tumour\$ or tumor\$ or neoplasm\$ or carcinoma\$ or adenocarcinoma\$ or metasta\$ or dcis)).tw.
4. or/1-3
5. exp Ovarian Neoplasms/
6. (ovar\$ adj3 (cancer\$ or tumour\$ or tumor\$ or neoplasm\$ or carcinoma\$ or metasta\$)).tw.
7. 5 or 6
8. 4 or 7
9. Tumor Suppressor Protein p53/
10. Genes, p53/
11. (TP53 or P53 gene).tw.
12. Li-Fraumeni Syndrome/
13. or/9-12
14. 8 and 13
15. exp Mastectomy/
16. (mastectomy\$ or mammaplast\$ or mammoplast\$ or mammectom\$).tw.
17. 15 or 16
18. (risk reduc\$ adj surg\$).tw.
19. (breast conserv\$ adj surg\$).tw.
20. (breast sparing adj surg\$).tw.
21. ((local excision or segmental or partial or limited) adj2 (surg\$ or resection\$ or mastectom\$)).tw.

- 22. lumpectom\$.tw.
- 23. segmentectom\$.tw.
- 24. or/18-23
- 25. exp radiotherapy/
- 26. radiotherap\$.tw.
- 27. (radiation adj (therap\$ or treatment\$)).tw.
- 28. irradiati\$.tw.
- 29. 25 or 26 or 27 or 28
- 30. 24 and 29
- 31. 17 or 30
- 32. 14 and 31

Notes:

No search filters were applied.

34. Health Economics searches

(Other database searches were performed by the Swansea University Health Economics team)

Database name	Dates Covered	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	1970-current	0	0	09/01/12
<i>Embase</i>	1970-current	2	0	09/01/12

Total references retrieved after duplicates removed: 0

35. Update searches

Database name	Dates Covered	No of references found	No of references retrieved	Finish date of search
<i>Medline</i>	09/01/2012-09/07/2012	1	0	17/07/2012
<i>Premedline</i>	09/01/2012-09/07/2012	0	0	17/07/2012
<i>Embase</i>	01/2012-07/2012	6	0	17/07/2012
<i>Cochrane Library</i>	01/2012-07/2012	6	0	09/07/2012
<i>Web of Science (SCI & SSCI) and ISI Proceedings</i>	01/2011-07/2012	5	0	23/07/2012

Total references retrieved after duplicates removed: 1

Health Economics:

Database name	No of references found	No of references retrieved

Medline	0	17/07/2012
Embase	0	17/07/2012
<i>Total references retrieved after duplicates removed: 0</i>		