

# Early and locally advanced breast cancer: diagnosis and management

## Search strategies

*NICE guideline tbc*

*Search strategies*

*November 2017*

*Draft for Consultation*

*Evidence reviews were developed by  
National Guideline Alliance hosted by the  
Royal College of Obstetricians and  
Gynaecologists*



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# Appendix F: Clinical evidence search strategies

## F.1 Surgical margins

Review question: Do tumour-free tissue margins wider than 0mm reduce local recurrence for people with invasive breast cancer and/or ductal carcinoma in situ (DCIS) treated with breast conserving surgery?

### F.1.1 Database: Medline & Embase (Multifile)

Last searched on Embase 1974 to 2017 January 29, Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations and Ovid MEDLINE(R) 1946 to Present. Date of last search: 30 January 2017.

#	Searches
1	exp breast cancer/ use oomezd
2	exp breast carcinoma/ use oomezd
3	exp medullary carcinoma/ use oomezd
4	exp intraductal carcinoma/ use oomezd
5	exp breast tumor/ use oomezd
6	exp Breast Neoplasms/ use prmz
7	exp "Neoplasms, Ductal, Lobular, and Medullary"/ use prmz
8	Carcinoma, Intraductal, Noninfiltrating/ use prmz
9	Carcinoma, Lobular/ use prmz
10	Carcinoma, Medullary/ use prmz
11	1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10
12	exp breast/ use oomezd
13	exp Breast/ use prmz
14	breast.tw.
15	12 or 13 or 14
16	(breast adj milk).tw.
17	(breast adj tender\$.tw.
18	16 or 17
19	15 not 18
20	exp neoplasm/ use oomezd
21	exp Neoplasms/ use prmz
22	20 or 21
23	19 and 22
24	(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. use oomezd
25	(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. use oomezd
26	(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)).mp. use prmz

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#	Searches
27	(mammar\$ adj5 (neoplasm\$ or cancer\$ or tumo?r\$ or carcinoma\$ or adenocarcinoma\$ or sarcoma\$ or leiomyosarcoma\$ or dcis or duct\$ or infiltrat\$ or intraduct\$ or lobul\$ or medullary or tubular)).mp. use prmz
28	exp Paget nipple disease/ use oomezd
29	Paget's Disease, Mammary/ use prmz
30	(paget\$ and (breast\$ or mammary or nipple\$)).tw.
31	23 or 24 or 25 or 26 or 27 or 28 or 29 or 30
32	11 or 31
33	(duct\$ carcinoma\$-in-situ or duct\$ carcinoma\$ in-situ or duct\$ carcinoma\$ in situ or DCIS).tw.
34	32 or 33
35	Mastectomy, Segmental/ use prmz
36	partial mastectomy/ use oomezd
37	(segmentectom\$ or post?segmentectom\$).tw.
38	(lumpectom\$ or post?lumpectom\$).tw.
39	(quadrectom\$ or post?quadrectom\$).tw.
40	((local or limited or sector or segment\$ or partial) adj2 (excision or resection)).tw.
41	((partial or segment\$) adj2 (mammectom\$ or mastectomy\$)).tw.
42	(breast adj conserv\$).mp.
43	breast?conserv\$.mp.
44	(conserv\$ adj2 (surgery or therapy)).tw.
45	excision alone.tw.
46	35 or 36 or 37 or 38 or 39 or 40 or 41 or 42 or 43 or 44 or 45
47	Reoperation/ use prmz
48	reoperation/ use oomezd
49	(re-operat\$ or reoperat\$ or re-excis\$ or reexcis\$).tw.
50	Neoplasm Recurrence, Local/ use prmz
51	tumor recurrence/ use oomezd
52	(local adj (failure or relaps\$ or recurrence\$)).tw.
53	ipsilateral breast tumo?r recurren\$.tw.
54	ipsilateral breast tumo?r relaps\$.tw.
55	IBTR.tw.
56	(recurrence free survival or RFS).tw.
57	exp Patient Satisfaction/ use prmz
58	exp patient satisfaction/ use oomezd
59	(patient adj3 (satisf\$ or attitude\$ or preference\$)).tw.
60	47 or 48 or 49 or 50 or 51 or 52 or 53 or 54 or 55 or 56 or 57 or 58 or 59
61	margin\$.tw.
62	34 and 46 and 60 and 61
63	margin\$.m_titl.
64	34 and 46 and 63
65	62 or 64
66	remove duplicates from 65



## F.1.2 Database: Cochrane Library via Wiley Online

Date of last search: 30 January 2017

#	Searches
#1	MeSH descriptor: [Breast Neoplasms] explode all trees
#2	MeSH descriptor: [Neoplasms, Ductal, Lobular, and Medullary] explode all trees
#3	MeSH descriptor: [Carcinoma, Intraductal, Noninfiltrating] explode all trees
#4	MeSH descriptor: [Carcinoma, Lobular] this term only
#5	MeSH descriptor: [Carcinoma, Medullary] this term only
#6	#1 or #2 or #3 or #4 or #5
#7	MeSH descriptor: [Breast] explode all trees
#8	breast:ti,ab,kw (Word variations have been searched)
#9	#7 or #8
#10	(breast next milk):ti,ab,kw (Word variations have been searched)
#11	(breast next tender*):ti,ab,kw (Word variations have been searched)
#12	#10 or #11
#13	#9 not #12
#14	MeSH descriptor: [Neoplasms] explode all trees
#15	#13 and #14
#16	(breast* near/5 (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)):ti,ab,kw (Word variations have been searched)
#17	(mammar* near/5 (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)):ti,ab,kw (Word variations have been searched)
#18	MeSH descriptor: [Paget's Disease, Mammary] this term only
#19	(paget* and (breast* or mammary or nipple*)):ti,ab,kw (Word variations have been searched)
#20	#15 or #16 or #17 or #18 or #19
#21	#6 or #20
#22	MeSH descriptor: [Mastectomy, Segmental] this term only
#23	(segmentectom* or post segmentectom* or post-segmentectom* or postsegmentectom*):ti,ab,kw (Word variations have been searched)
#24	(lumpectom* or post lumpectom* or post-lumpectom* or postlumpectom*):ti,ab,kw (Word variations have been searched)
#25	(quadrectom* or post quadrectom* or post-quadrectom* or postquadrectom*):ti,ab,kw (Word variations have been searched)
#26	((local or limited or sector or partial or segment\$) near/2 (excision or resection)):ti,ab,kw (Word variations have been searched)
#27	((partial or segment*) near/2 (mammectom* or mastectomy*)):ti,ab,kw (Word variations have been searched)
#28	(breast next conserv*):ti,ab,kw (Word variations have been searched)
#29	(conserv* near/2 (surgery or therapy)):ti,ab,kw (Word variations have been searched)
#30	excision alone:ti,ab,kw (Word variations have been searched)
#31	#22 or #23 or #24 or #25 or #26 or #27 or #28 or #29 or #30
#32	MeSH descriptor: [Reoperation] explode all trees
#33	(re-operat* or reoperat* or re-excise* or reexcise*):ti,ab,kw (Word variations have been searched)
#34	MeSH descriptor: [Neoplasm Recurrence, Local] explode all trees
#35	(local next (failure or relaps* or recurrence*)):ti,ab,kw (Word variations have been searched)
#36	(ipsilateral near/3 (relaps* or recurren*)):ti,ab,kw (Word variations have been searched)

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#	Searches
#37	IBTR:ti,ab,kw (Word variations have been searched)
#38	(recurrence free survival or RFS):ti,ab,kw (Word variations have been searched)
#39	MeSH descriptor: [Patient Satisfaction] explode all trees
#40	(patient near/3 (satisf* or attitude* or preference*)):ti,ab,kw (Word variations have been searched)
#41	#32 or #33 or #34 or #35 or #36 or #37 or #38 or #39 or #40
#42	margin*:ti,ab,kw (Word variations have been searched)
#43	#21 and #31 and #41 and #42
#44	margin*:ti (Word variations have been searched)
#45	#21 and #31 and #44
#46	#43 or #45

## F.2 Axillary treatment

Review question: Is there a subgroup of people who do not need axillary treatment when the axilla has been found to contain metastatic disease?

### F.2.1 Database: Medline

Last searched on: **Epub Ahead of Print, In-Process & Other Non-Indexed Citations, Ovid MEDLINE(R) Daily and Ovid MEDLINE(R) 1946 to Present.**

Date of last search: 26 September 2017

#	Searches
1	exp Breast Neoplasms/
2	exp "Neoplasms, Ductal, Lobular, and Medullary"/
3	exp Fibrocystic Breast Disease/
4	or/1-3
5	exp Breast/
6	breast.tw.
7	5 or 6
8	(breast adj milk).ti,ab,sh.
9	(breast adj tender\$).ti,ab,sh.
10	8 or 9
11	7 not 10
12	exp Neoplasms/
13	11 and 12
14	exp Lymphedema/
15	14 and 11
16	(breast adj25 neoplasm\$).ti,ab,sh.
17	(breast adj25 cancer\$).ti,ab,sh.
18	(breast adj25 tumour\$).ti,ab,sh.
19	(breast adj25 tumor\$).ti,ab,sh.
20	(breast adj25 carcinoma\$).ti,ab,sh.
21	(breast adj25 adenocarcinoma\$).ti,ab,sh.
22	(breast adj25 sarcoma\$).ti,ab,sh.
23	(breast adj50 dcis).ti,ab,sh.

#	Searches
24	(breast adj25 ductal).ti,ab,sh.
25	(breast adj25 infiltrating).ti,ab,sh.
26	(breast adj25 intraductal).ti,ab,sh.
27	(breast adj25 lobular).ti,ab,sh.
28	(breast adj25 medullary).ti,ab,sh.
29	or/16-28
30	4 or 13 or 15 or 29
31	exp Mastectomy/
32	30 or 31
33	(mammary adj25 neoplasm\$).ti,ab,sh.
34	(mammary adj25 cancer\$).ti,ab,sh.
35	(mammary adj25 tumour\$).ti,ab,sh.
36	(mammary adj25 tumor\$).ti,ab,sh.
37	(mammary adj25 carcinoma\$).ti,ab,sh.
38	(mammary adj25 adenocarcinoma\$).ti,ab,sh.
39	(mammary adj25 sarcoma\$).ti,ab,sh.
40	(mammary adj50 dcis).ti,ab,sh.
41	(mammary adj25 ductal).ti,ab,sh.
42	(mammary adj25 infiltrating).ti,ab,sh.
43	(mammary adj25 intraductal).ti,ab,sh.
44	(mammary adj25 lobular).ti,ab,sh.
45	(mammary adj25 medullary).ti,ab,sh.
46	or/33-45
47	32 or 46
48	exp Breast Self-Examination/
49	(breast adj25 self\$).ti,ab,sh.
50	(breast adj25 screen\$).ti,ab,sh.
51	exp Mammography/
52	or/47-51
53	mammograph\$.tw.
54	53 and 11
55	52 or 54
56	exp Sentinel Lymph Node Biopsy/
57	(sentinel adj2 node).mp.
58	(SN or SNB or SLN or SLNB).mp.
59	exp Axilla/
60	exp Neoplasm Staging/
61	exp Lymph Node Excision/
62	lymphadenectomy.mp.
63	(axill\$ adj3 (surg\$ or sampl\$ or stag\$)).mp.
64	((block or lymph node or axillary) adj dissection).mp.
65	((block or lymph node or axillary) adj clearance).mp.
66	or/56-65
67	55 and 66
68	Meta-Analysis/

#	Searches
69	Meta-Analysis as Topic/
70	(meta analy* or metanaly* or metaanaly*).ti,ab.
71	((systematic* or evidence*) adj2 (review* or overview*)).ti,ab.
72	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
73	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
74	(search* adj4 literature).ab.
75	(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.
76	cochrane.jw.
77	68 or 69 or 70 or 71 or 72 or 73 or 74 or 75 or 76
78	randomized controlled trial.pt.
79	controlled clinical trial.pt.
80	randomized controlled trials.sh.
81	random allocation.sh.
82	double-blind method.sh.
83	single-blind method.sh.
84	or/78-83
85	clinical trial.pt.
86	exp Clinical Trials/
87	(clin\$ adj25 trial\$).ti,ab.
88	((singl\$ or doubl\$ or trebl\$ or tripl\$) adj25 (blind\$ or mask\$)).ti,ab.
89	placebos.sh.
90	placebo\$.ti,ab.
91	random\$.ti,ab.
92	research design.sh.
93	or/85-92
94	84 or 93
95	67 and 94
96	(animals not humans).sh.
97	95 not 96
98	67 and 77
99	97 or 98
100	(2015* or 2016* or 2017*).dc,ed,yr.
101	99 and 100 [Then general exclusions filter applied]

## F.2.2 Database: Embase

Last searched on **Embase Classic+Embase** 1947 to 2017 September 25.

Date of last search: 26 September 2017.

#	Searches
1	exp breast cancer/
2	exp breast carcinoma/
3	exp medullary carcinoma/
4	exp intraductal carcinoma/
5	exp breast tumor/

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#	Searches
6	1 or 2 or 3 or 4 or 5
7	exp breast/
8	breast.tw.
9	7 or 8
10	(breast adj milk).tw.
11	(breast adj tender\$.tw.
12	10 or 11
13	9 not 12
14	exp neoplasm/
15	13 and 14
16	(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.
17	(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.
18	exp Paget nipple disease/
19	(paget\$ and (breast\$ or mammary or nipple\$)).tw.
20	15 or 16 or 17 or 18 or 19
21	6 or 20
22	exp sentinel lymph node biopsy/
23	(sentinel adj2 node).mp.
24	(SN or SNB or SLN or SLNB).mp.
25	exp axilla/
26	exp cancer staging/
27	exp lymph node dissection/
28	lymphadenectomy.mp.
29	(axill\$ adj3 (surg\$ or sampl\$ or stag\$)).mp.
30	((block or lymph node or axillary) adj dissection).mp.
31	((block or lymph node or axillary) adj clearance).mp.
32	22 or 23 or 24 or 25 or 26 or 27 or 28 or 29 or 30 or 31
33	21 and 32
34	systematic review/
35	meta-analysis/
36	(meta analy* or metanaly* or metaanaly*).ti,ab.
37	((systematic or evidence) adj2 (review* or overview*)).ti,ab.
38	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
39	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
40	(search* adj4 literature).ab.
41	(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.
42	((pool* or combined) adj2 (data or trials or studies or results)).ab.
43	cochrane.jw.
44	34 or 35 or 36 or 37 or 38 or 39 or 40 or 41 or 42 or 43
45	random*.ti,ab.
46	factorial*.ti,ab.

#	Searches
47	(crossover* or cross over*).ti,ab.
48	((doubl* or singl*) adj blind*).ti,ab.
49	(assign* or allocat* or volunteer* or placebo*).ti,ab.
50	crossover procedure/
51	single blind procedure/
52	randomized controlled trial/
53	double blind procedure/
54	45 or 46 or 47 or 48 or 49 or 50 or 51 or 52 or 53
55	33 and 44
56	33 and 54
57	55 or 56
58	(2015* or 2016* or 2017*).dd,em,yr.
59	57 and 58 [Then general exclusions filter applied]

### F.2.3 Database: Cochrane Library via Wiley Online

Date of last search: 26 September 2017

#	Searches
#1	MeSH descriptor: [Breast Neoplasms] explode all trees
#2	breast near cancer*.ti,ab,kw (Word variations have been searched)
#3	breast near neoplasm*.ti,ab,kw (Word variations have been searched)
#4	breast near carcinoma*.ti,ab,kw (Word variations have been searched)
#5	breast near tumour*.ti,ab,kw (Word variations have been searched)
#6	breast near tumor*.ti,ab,kw (Word variations have been searched)
#7	#1 or #2 or #3 or #4 or #5 or #6
#8	MeSH descriptor: [Sentinel Lymph Node Biopsy] explode all trees
#9	sentinel lymph node biopsy or SLNB or SNB or SLN or (sentinel near node):ti,ab,kw (Word variations have been searched)
#10	MeSH descriptor: [Axilla] explode all trees
#11	axilla* near (surg* or sampl* or stag*):ti,ab,kw (Word variations have been searched)
#12	MeSH descriptor: [Neoplasm Staging] explode all trees
#13	MeSH descriptor: [Lymph Node Excision] explode all trees
#14	"lymphadenectomy":ti,ab,kw (Word variations have been searched)
#15	(block or lymph node or axillary) near dissection:ti,ab,kw (Word variations have been searched)
#16	(block or lymph node or axillary) near clearance:ti,ab,kw (Word variations have been searched)
#17	#8 or #9 or #10 or #11 or #12 or #13 or #14 or #15 or #16
#18	#7 and #17 Publication Year from 2015 to 2017

## F.3 Lymphoedema prevention

Review question: What are the best strategies for preventing lymphoedema after axillary intervention?

### F.3.1 Database: Medline & Embase (Multifile)

Last searched on **Embase** 1974 to 2017 October 10, **Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations and Ovid MEDLINE(R)** 1946 to Present.

Date of last search: 11 October 2017.

#	Searches
1	exp breast cancer/ use oomezd
2	exp breast carcinoma/ use oomezd
3	exp medullary carcinoma/ use oomezd
4	exp intraductal carcinoma/ use oomezd
5	exp breast tumor/ use oomezd
6	exp Breast Neoplasms/ use prmz
7	exp "Neoplasms, Ductal, Lobular, and Medullary"/ use prmz
8	Carcinoma, Intraductal, Noninfiltrating/ use prmz
9	Carcinoma, Lobular/ use prmz
10	Carcinoma, Medullary/ use prmz
11	1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10
12	exp breast/ use oomezd
13	exp Breast/ use prmz
14	breast.tw.
15	12 or 13 or 14
16	(breast adj milk).tw.
17	(breast adj tender\$).tw.
18	16 or 17
19	15 not 18
20	exp neoplasm/ use oomezd
21	exp Neoplasms/ use prmz
22	20 or 21
23	19 and 22
24	(breast\$ adj5 (neoplasm\$ or cancer\$ or tumor?r\$ or carcinoma\$ or adenocarcinoma\$ or sarcoma\$ or leiomyosarcoma\$ or dcis or duct\$ or infiltrat\$ or intraduct\$ or lobul\$ or medullary or tubular)).tw. use oomezd
25	(mammar\$ adj5 (neoplasm\$ or cancer\$ or tumor?r\$ or carcinoma\$ or adenocarcinoma\$ or sarcoma\$ or leiomyosarcoma\$ or dcis or duct\$ or infiltrat\$ or intraduct\$ or lobul\$ or medullary or tubular)).tw. use oomezd
26	(breast\$ adj5 (neoplasm\$ or cancer\$ or tumor?r\$ or carcinoma\$ or adenocarcinoma\$ or sarcoma\$ or leiomyosarcoma\$ or dcis or duct\$ or infiltrat\$ or intraduct\$ or lobul\$ or medullary or tubular)).mp. use prmz
27	(mammar\$ adj5 (neoplasm\$ or cancer\$ or tumor?r\$ or carcinoma\$ or adenocarcinoma\$ or sarcoma\$ or leiomyosarcoma\$ or dcis or duct\$ or infiltrat\$ or intraduct\$ or lobul\$ or medullary or tubular)).mp. use prmz
28	exp Paget nipple disease/ use oomezd
29	Paget's Disease, Mammary/ use prmz
30	(paget\$ and (breast\$ or mammary or nipple\$)).tw.
31	23 or 24 or 25 or 26 or 27 or 28 or 29 or 30
32	11 or 31
33	exp Lymphedema/ use prmz
34	exp lymphedema/ use oomezd

#	Searches
35	arm edema/ use oemezd
36	(arm\$ adj4 (morbid\$ or swell\$ or swollen or pain\$ or oedem\$ or edem\$)).mp.
37	(upper limb\$ adj4 (morbid\$ or swell\$ or swollen or pain\$ or oedem\$ or edem\$)).mp.
38	(lymph\$ adj4 (oedem\$ or edem\$)).tw.
39	(lymph?ed\$ or elephantiasis).mp.
40	Edema/ use prmz
41	edema/ use oemezd
42	(upper limb\$ or arm\$).mp.
43	40 or 41
44	42 and 43
45	33 or 34 or 35 or 36 or 37 or 38 or 39 or 44
46	32 and 45
47	limit 46 to yr="2008 -Current" [Then general exclusions filter applied]

### F.3.2 Database: Cochrane Library via Wiley Online

Date of last search: 11 October 2017

#	Searches
#1	MeSH descriptor: [Breast Neoplasms] explode all trees
#2	MeSH descriptor: [Neoplasms, Ductal, Lobular, and Medullary] explode all trees
#3	MeSH descriptor: [Carcinoma, Intraductal, Noninfiltrating] explode all trees
#4	MeSH descriptor: [Carcinoma, Lobular] this term only
#5	MeSH descriptor: [Carcinoma, Medullary] this term only
#6	#1 or #2 or #3 or #4 or #5
#7	MeSH descriptor: [Breast] explode all trees
#8	breast:ti,ab,kw (Word variations have been searched)
#9	#7 or #8
#10	(breast next milk):ti,ab,kw (Word variations have been searched)
#11	(breast next tender*):ti,ab,kw (Word variations have been searched)
#12	#10 or #11
#13	#9 not #12
#14	MeSH descriptor: [Neoplasms] explode all trees
#15	#13 and #14
#16	(breast* near/5 (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)):ti,ab,kw (Word variations have been searched)
#17	(mammar* near/5 (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)):ti,ab,kw (Word variations have been searched)
#18	MeSH descriptor: [Paget's Disease, Mammary] this term only
#19	(paget* and (breast* or mammary or nipple*)):ti,ab,kw (Word variations have been searched)
#20	#15 or #16 or #17 or #18 or #19
#21	#6 or #20
#22	MeSH descriptor: [Lymphedema] explode all trees
#23	(lymphed* or lymphoed* or elephantiasis):ti,ab,kw (Word variations have been searched)
#24	(arm* near/4 (morbid* or swell* or swollen or pain* or oedem* or edem*)):ti,ab,kw (Word

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#	Searches
	variations have been searched)
#25	(upper limb* near/4 (morbid* or swell* or swollen or pain* or oedem* or edem*)):ti,ab,kw (Word variations have been searched)
#26	(lymph* near/4 (oedem* or edem*)):ti,ab,kw (Word variations have been searched)
#27	MeSH descriptor: [Edema] explode all trees
#28	(upper limb* or arm*):ti,ab,kw (Word variations have been searched)
#29	#27 and #28
#30	#22 or #23 or #24 or #25 or #26 or #29
#31	#21 and #30 Publication Year from 2008 to 2017

### F.3.3 Database: Cinahl Plus

Date of last search: 11 October 2017

#	Searches
S8	S3 AND S6 [Limiters - Publication Year: 2008-2017]
S7	S3 AND S6
S6	S4 OR S5
S5	(( TI lymphoedema or AB lymphoedema ) or ( TI lymphedema or AB lymphedema ) or ( TI lymph* edema or AB lymph* edema ) ) or ( TI elephantiasis or AB elephantiasis ) )
S4	(MM "Lymphedema")
S3	S1 OR S2
S2	(( ( TI breast cancer* or AB breast cancer* ) or ( TI breast tumor* or AB breast tumor* ) ) or ( ( TI breast tumour* or AB breast tumour* ) or ( TI mammary neoplasm* or AB mammary neoplasm* ) or ( TI mammary carcinoma* or AB mammary carcinoma* ) or ( TI breast neoplasm* or AB breast neoplasm* ) or ( TI breast carcinoma* or AB breast carcinoma* ) )
S1	(MM "Breast Neoplasms")

### F.3.4 Database: AMED

Last searched on **OID AMED (Allied and Complementary Medicine)** 1985 to present.

Date of last search: 11 October 2017

#	Searches
1	exp breast neoplasms/
2	(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.
3	(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.
4	(paget\$ and (breast\$ or mammary or nipple\$)).tw.
5	1 or 2 or 3 or 4
6	exp Lymphedema/
7	(lymph?ed\$ or elephantiasis).tw.
8	(arm\$ adj4 (morbid\$ or swell\$ or swollen or pain\$ or oedem\$ or edem\$)).tw.
9	(upper limb\$ adj4 (morbid\$ or swell\$ or swollen or pain\$ or oedem\$ or edem\$)).tw.
10	(lymph\$ adj4 (oedem\$ or edem\$)).tw.
11	Edema/
12	(upper limb\$ or arm\$).tw.

#	Searches
13	11 and 12
14	6 or 7 or 8 or 9 or 10 or 13
15	5 and 14
16	limit 15 to yr="2008 -Current"

### F.3.5 Database: PsycINFO

Last searched on **OID PsycINFO 1806 to present.**

Date of last search: 11 October 2017

#	Searches
1	exp breast neoplasms/
2	(breast\$ adj5 (neoplasm\$ or cancer\$ or tumo?r\$ or carcinoma\$ or adenocarcinoma\$ or sarcoma\$ or leiomyosarcoma\$ or dcis or duct\$ or infiltrat\$ or intraduct\$ or lobul\$ or medullary or tubular)).tw.
3	(mammar\$ adj5 (neoplasm\$ or cancer\$ or tumo?r\$ or carcinoma\$ or adenocarcinoma\$ or sarcoma\$ or leiomyosarcoma\$ or dcis or duct\$ or infiltrat\$ or intraduct\$ or lobul\$ or medullary or tubular)).tw.
4	(paget\$ and (breast\$ or mammary or nipple\$)).tw.
5	1 or 2 or 3 or 4
6	exp Lymphedema/
7	(lymph?ed\$ or elephantiasis).tw.
8	(arm\$ adj4 (morbid\$ or swell\$ or swollen or pain\$ or oedem\$ or edem\$)).tw.
9	(upper limb\$ adj4 (morbid\$ or swell\$ or swollen or pain\$ or oedem\$ or edem\$)).tw.
10	(lymph\$ adj4 (oedem\$ or edem\$)).tw.
11	Edema/
12	(upper limb\$ or arm\$).tw.
13	11 and 12
14	6 or 7 or 8 or 9 or 10 or 13
15	5 and 14
16	limit 15 to yr="2008 -Current"

## F.4 Progesterone receptor testing

Review question: Is there a benefit of progesterone receptor (PR) testing for adjuvant chemotherapy planning?

### F.4.1 Database: Medline & Embase (Multifile)

Last searched on **Embase 1974 to 2017 March 03, Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations and Ovid MEDLINE(R) 1946 to Present.**

Date of last search: 6 March 2017.

#	Searches
1	exp breast cancer/ use oomezd
2	exp breast carcinoma/ use oomezd
3	exp medullary carcinoma/ use oomezd
4	exp intraductal carcinoma/ use oomezd
5	exp breast tumor/ use oomezd

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#	Searches
6	exp Breast Neoplasms/ use prmz
7	exp "Neoplasms, Ductal, Lobular, and Medullary"/ use prmz
8	Carcinoma, Intraductal, Noninfiltrating/ use prmz
9	Carcinoma, Lobular/ use prmz
10	Carcinoma, Medullary/ use prmz
11	1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10
12	exp breast/ use oomezd
13	exp Breast/ use prmz
14	breast.tw.
15	12 or 13 or 14
16	(breast adj milk).tw.
17	(breast adj tender\$.tw.
18	16 or 17
19	15 not 18
20	exp neoplasm/ use oomezd
21	exp Neoplasms/ use prmz
22	20 or 21
23	19 and 22
24	(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. use oomezd
25	(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. use oomezd
26	(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)).mp. use prmz
27	(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)).mp. use prmz
28	exp Paget nipple disease/ use oomezd
29	Paget's Disease, Mammary/ use prmz
30	(paget\$ and (breast\$ or mammary or nipple\$)).tw.
31	23 or 24 or 25 or 26 or 27 or 28 or 29 or 30
32	11 or 31
33	Receptors, Progesterone/ use prmz
34	progesterone receptor/ use oomezd
35	((progesteron\$ or progestin or PgR or PR) adj3 (status or test\$ or level\$ or receptor\$ or expression)).ti,ab.
36	((PR adj2 positiv\$) or (PR adj2 negativ\$) or (PgR adj2 positiv\$) or (PgR adj2 negativ\$) or (progesteron\$ adj2 positiv\$) or (progesteron\$ adj2 negativ\$) or (progestin adj2 negativ\$) or (progestin adj2 positiv\$)).ti,ab.
37	(progesteron\$ or progestin or PgR or PR).m_titl.
38	33 or 34 or 35 or 36 or 37
39	32 and 38
40	limit 39 to yr="1984 -Current"
41	limit 40 to RCTs and SRs, and general exclusions filter applied

## F.4.2 Database: Cochrane Library via Wiley Online

Date of last search: 6 March 2017.

#	Searches
#1	MeSH descriptor: [Breast Neoplasms] explode all trees
#2	MeSH descriptor: [Neoplasms, Ductal, Lobular, and Medullary] explode all trees
#3	MeSH descriptor: [Carcinoma, Intraductal, Noninfiltrating] explode all trees
#4	MeSH descriptor: [Carcinoma, Lobular] this term only
#5	MeSH descriptor: [Carcinoma, Medullary] this term only
#6	#1 or #2 or #3 or #4 or #5
#7	MeSH descriptor: [Breast] explode all trees
#8	breast:ti,ab,kw (Word variations have been searched)
#9	#7 or #8
#10	(breast next milk):ti,ab,kw (Word variations have been searched)
#11	(breast next tender*):ti,ab,kw (Word variations have been searched)
#12	#10 or #11
#13	#9 not #12
#14	MeSH descriptor: [Neoplasms] explode all trees
#15	#13 and #14
#16	(breast* near/5 (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)):ti,ab,kw (Word variations have been searched)
#17	(mammar* near/5 (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)):ti,ab,kw (Word variations have been searched)
#18	MeSH descriptor: [Paget's Disease, Mammary] this term only
#19	(paget* and (breast* or mammary or nipple*)):ti,ab,kw (Word variations have been searched)
#20	#15 or #16 or #17 or #18 or #19
#21	#6 or #20
#22	MeSH descriptor: [Receptors, Progesterone] explode all trees
#23	((progesteron* or progestin or PgR or PR) near/3 (status or test* or level* or receptor* or expression)):ti,ab,kw (Word variations have been searched)
#24	((PR near/2 positiv*) or (PR near/2 negativ*) or (PgR near/2 positiv*) or (PgR near/2 negativ*) or (progesteron* near/2 positiv*) or (progesteron* near/2 negativ*) or (progestin near/2 negativ*) or (progestin near/2 positiv*)):ti,ab,kw (Word variations have been searched)
#25	(progesterone* or progestin or PgR or PR):ti (Word variations have been searched)
#26	#22 or #23 or #24 or #25
#27	#21 and #26

## F.5 Prognostic tools

Review question: What predictive prognostic tools, excluding gene profiling tests, should be used for determining adjuvant systemic therapy?

### F.5.1 Database: Medline & Embase (Multifile)

Last searched on **Embase** 1974 to 2017 September 20, **Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations and Ovid MEDLINE(R)** 1946 to Present.

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Date of last search: 22 September 2017

#	Searches
1	exp breast cancer/ use oomezd
2	exp breast carcinoma/ use oomezd
3	exp medullary carcinoma/ use oomezd
4	exp intraductal carcinoma/ use oomezd
5	exp breast tumor/ use oomezd
6	exp Breast Neoplasms/ use prmz
7	exp "Neoplasms, Ductal, Lobular, and Medullary"/ use prmz
8	Carcinoma, Intraductal, Noninfiltrating/ use prmz
9	Carcinoma, Lobular/ use prmz
10	Carcinoma, Medullary/ use prmz
11	1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10
12	exp breast/ use oomezd
13	exp Breast/ use prmz
14	breast.tw.
15	12 or 13 or 14
16	(breast adj milk).tw.
17	(breast adj tender\$).tw.
18	16 or 17
19	15 not 18
20	exp neoplasm/ use oomezd
21	exp Neoplasms/ use prmz
22	20 or 21
23	19 and 22
24	(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. use oomezd
25	(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. use oomezd
26	(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)).mp. use prmz
27	(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)).mp. use prmz
28	exp Paget nipple disease/ use oomezd
29	Paget's Disease, Mammary/ use prmz
30	(paget\$ and (breast\$ or mammary or nipple\$)).tw.
31	23 or 24 or 25 or 26 or 27 or 28 or 29 or 30
32	11 or 31
33	(adjuvant\$ adj (online or model\$ or program\$ or tool\$)).tw.
34	"www.adjuvantonline.com".tw.
35	adjuvant?online\$.tw.
36	(PREDICT adj2 (online or model\$ or program\$ or tool\$ or estimat\$)).tw.
37	"www.predict.nhs.uk".tw.
38	(predict adj plus).tw.

#	Searches
39	(prognost\$ adj index).tw.
40	"Nottingham Prognostic Index".tw.
41	NPI.tw.
42	FinProg\$.tw.
43	CancerMath\$.tw.
44	"www.CancerMath.net".tw.
45	33 or 34 or 35 or 36 or 37 or 38 or 39 or 40 or 41 or 42 or 43 or 44
46	32 and 45
47	limit 46 to yr="1982 -Current"
48	decision support system/ use oomezd
49	Decision Making, Computer-Assisted/ use prmz
50	computer/ use oomezd
51	Computers/ use prmz
52	clinical decision support system/ use oomezd
53	Decision Support Systems, Clinical/ use prmz
54	computer program/ use oomezd
55	Software/ use prmz
56	Decision Support Techniques/ use prmz
57	*decision making/ use oomezd
58	medical decision making/ use oomezd
59	clinical decision making/ use oomezd
60	Decision Making/ use prmz
61	48 or 49 or 50 or 51 or 52 or 53 or 54 or 55 or 56 or 57 or 58 or 59 or 60
62	adjuvant\$.tw.
63	32 and 61 and 62
64	limit 63 to yr="2007 -Current"
65	survival/ use oomezd
66	survival analysis/ use prmz
67	65 or 66
68	Internet/ use prmz
69	internet/ use oomezd
70	Databases, factual/ use prmz
71	*data base/ use oomezd
72	Online systems/ use prmz
73	online system/ use oomezd
74	Web browser/ use prmz
75	web browser/ use oomezd
76	User computer interface/ use prmz
77	computer interface/ use oomezd
78	68 or 69 or 70 or 71 or 72 or 73 or 74 or 75 or 76 or 77
79	32 and 67 and 78
80	limit 79 to yr="1982 -Current"
81	47 or 64 or 80
82	remove duplicates from 81 [Then general exclusions filter applied]

## F.5.2 Database: Cochrane Library via Wiley Online

Date of last search: 22 September 2017.

#	Searches
#1	MeSH descriptor: [Breast Neoplasms] explode all trees
#2	MeSH descriptor: [Neoplasms, Ductal, Lobular, and Medullary] explode all trees
#3	MeSH descriptor: [Carcinoma, Intraductal, Noninfiltrating] explode all trees
#4	MeSH descriptor: [Carcinoma, Lobular] this term only
#5	MeSH descriptor: [Carcinoma, Medullary] this term only
#6	#1 or #2 or #3 or #4 or #5
#7	MeSH descriptor: [Breast] explode all trees
#8	breast:ti,ab,kw (Word variations have been searched)
#9	#7 or #8
#10	(breast next milk):ti,ab,kw (Word variations have been searched)
#11	(breast next tender*):ti,ab,kw (Word variations have been searched)
#12	#10 or #11
#13	#9 not #12
#14	MeSH descriptor: [Neoplasms] explode all trees
#15	#13 and #14
#16	(breast* near/5 (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)):ti,ab,kw (Word variations have been searched)
#17	(mammar* near/5 (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)):ti,ab,kw (Word variations have been searched)
#18	MeSH descriptor: [Paget's Disease, Mammary] this term only
#19	(paget* and (breast* or mammary or nipple*)):ti,ab,kw (Word variations have been searched)
#20	#15 or #16 or #17 or #18 or #19
#21	#6 or #20
#22	(adjuvant* next (online or model* or program* or tool*)):ti,ab,kw (Word variations have been searched)
#23	"www.adjuvantonline.com":ti,ab,kw (Word variations have been searched)
#24	adjuvantonline*:ti,ab,kw (Word variations have been searched)
#25	(PREDICT near/2 (online or model* or program* or tool* or estimat*)):ti,ab,kw (Word variations have been searched)
#26	"www.predict.nhs.uk":ti,ab,kw (Word variations have been searched)
#27	(predict next plus):ti,ab,kw (Word variations have been searched)
#28	(prognost* next index):ti,ab,kw (Word variations have been searched)
#29	"Nottingham Prognostic Index":ti,ab,kw (Word variations have been searched)
#30	NPI:ti,ab,kw (Word variations have been searched)
#31	FinProg*:ti,ab,kw (Word variations have been searched)
#32	CancerMath*:ti,ab,kw (Word variations have been searched)
#33	"www.CancerMath.net":ti,ab,kw (Word variations have been searched)
#34	#22 or #23 or #24 or #25 or #26 or #27 or #28 or #29 or #30 or #31 or #32 or #33
#35	#21 and #34 Publication Year from 1982 to 2017
#36	MeSH descriptor: [Decision Making, Computer-Assisted] explode all trees
#37	MeSH descriptor: [Computers] explode all trees
#38	MeSH descriptor: [Decision Support Systems, Clinical] explode all trees

#	Searches
#39	MeSH descriptor: [Software] explode all trees
#40	MeSH descriptor: [Decision Support Techniques] explode all trees
#41	MeSH descriptor: [Decision Making] explode all trees
#42	#36 or #37 or #38 or #39 or #40 or #41
#43	adjuvant*:ti,ab,kw (Word variations have been searched)
#44	#21 and #42 and #43 Publication Year from 2007 to 2017
#45	MeSH descriptor: [Survival Analysis] explode all trees
#46	MeSH descriptor: [Internet] explode all trees
#47	MeSH descriptor: [Databases, Factual] explode all trees
#48	MeSH descriptor: [Online Systems] explode all trees
#49	MeSH descriptor: [Web Browser] explode all trees
#50	MeSH descriptor: [User-Computer Interface] explode all trees
#51	#46 or #47 or #48 or #49 or #50
#52	#21 and #45 and #51 Publication Year from 1982 to 2017
#53	#35 or #44 or #52

## F.6 Duration of endocrine therapy

Review question: What is the optimal duration of adjuvant endocrine therapy for people with oestrogen-receptor positive breast cancer?

### F.6.1 Database: Medline

Last searched on **Epub Ahead of Print, In-Process & Other Non-Indexed Citations, Ovid MEDLINE(R) Daily and Ovid MEDLINE(R) 1946 to Present.**

Date of last search: 27 September 2017

#	Searches
1	exp Breast Neoplasms/
2	exp "Neoplasms, Ductal, Lobular, and Medullary"/
3	Carcinoma, Intraductal, Noninfiltrating/
4	Carcinoma, Lobular/
5	Carcinoma, Medullary/
6	1 or 2 or 3 or 4 or 5
7	exp Breast/
8	breast.tw.
9	7 or 8
10	(breast adj milk).tw.
11	(breast adj tender\$.tw.
12	10 or 11
13	9 not 12
14	exp Neoplasms/
15	13 and 14
16	(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)).mp.
17	(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

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#	Searches
	tubular)).mp.
18	Paget's Disease, Mammary/
19	(paget\$ and (breast\$ or mammary or nipple\$)).tw.
20	15 or 16 or 17 or 18 or 19
21	6 or 20
22	exp Aromatase Inhibitors/
23	aromatase inhibitor\$.mp.
24	anastrazole.mp.
25	arimidex.mp.
26	letrozole.mp.
27	femara.mp.
28	exemestane.mp.
29	aromasin.mp.
30	Tamoxifen/
31	(Nolvadex or tamoxifen\$).mp.
32	or/22-31
33	21 and 32
34	Time Factors/
35	(duration\$ or timing).tw.
36	(sequenc\$ or sequential).tw.
37	extended.tw.
38	(continu\$ or stop\$).tw.
39	((optimal or different) adj (regimen\$ or treatment or therapy or course)).tw.
40	(length adj2 (regimen\$ or treatment or therapy or course)).tw.
41	or/34-40
42	33 and 41
43	("MA.17" or MA17 or ATTOM or ATLAS).tw.
44	21 and 43
45	42 or 44
46	limit 45 to yr="1996 -Current"
47	Limit 46 to RCTs and SRs, and general exclusions filter applied

## F.6.2 Database: Embase

Last searched on **Embase Classic+Embase** 1947 to 2017 September 26.

Date of last search: 27 September 2017

#	Searches
1	exp breast cancer/
2	exp breast carcinoma/
3	exp medullary carcinoma/
4	exp intraductal carcinoma/
5	exp breast tumor/
6	1 or 2 or 3 or 4 or 5
7	exp breast/
8	breast.tw.

#	Searches
9	7 or 8
10	(breast adj milk).tw.
11	(breast adj tender\$.tw.
12	10 or 11
13	9 not 12
14	exp neoplasm/
15	13 and 14
16	(breast\$ adj5 (neoplasm\$ or cancer\$ or tumor?r\$ or carcinoma\$ or adenocarcinoma\$ or sarcoma\$ or leiomyosarcoma\$ or dcis or duct\$ or infiltrat\$ or intraduct\$ or lobul\$ or medullary or tubular)).tw.
17	(mammar\$ adj5 (neoplasm\$ or cancer\$ or tumor?r\$ or carcinoma\$ or adenocarcinoma\$ or sarcoma\$ or leiomyosarcoma\$ or dcis or duct\$ or infiltrat\$ or intraduct\$ or lobul\$ or medullary or tubular)).tw.
18	exp Paget nipple disease/
19	(paget\$ and (breast\$ or mammary or nipple\$)).tw.
20	15 or 16 or 17 or 18 or 19
21	6 or 20
22	exp aromatase inhibitor/
23	aromatase inhibitor\$.mp.
24	anastrozole.mp.
25	arimidex.mp.
26	letrozole.mp.
27	femara.mp.
28	exemestane.mp.
29	aromasin.mp.
30	tamoxifen/
31	(Nolvadex or tamoxifen\$.mp.
32	or/22-31
33	21 and 32
34	time factor/
35	(duration\$ or timing).tw.
36	(sequenc\$ or sequential).tw.
37	extended.tw.
38	(continu\$ or stop\$).tw.
39	((optimal or different) adj (regimen\$ or treatment or therapy or course)).tw.
40	(length adj2 (regimen\$ or treatment or therapy or course)).tw.
41	or/34-40
42	33 and 41
43	("MA.17" or MA17 or ATTOM or ATLAS).tw.
44	21 and 43
45	42 or 44
46	limit 45 to yr="1996 -Current"
47	Limit 46 to RCTs and SRs, and general exclusions filter applied

### F.6.3 Database: Cochrane Library via Wiley Online

Date of last search: 27 September 2017

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#	Searches
#1	MeSH descriptor: [Breast Neoplasms] explode all trees
#2	MeSH descriptor: [Neoplasms, Ductal, Lobular, and Medullary] explode all trees
#3	MeSH descriptor: [Carcinoma, Intraductal, Noninfiltrating] explode all trees
#4	MeSH descriptor: [Carcinoma, Lobular] this term only
#5	MeSH descriptor: [Carcinoma, Medullary] this term only
#6	#1 or #2 or #3 or #4 or #5
#7	MeSH descriptor: [Breast] explode all trees
#8	breast:ti,ab,kw (Word variations have been searched)
#9	#7 or #8
#10	(breast next milk):ti,ab,kw (Word variations have been searched)
#11	(breast next tender*):ti,ab,kw (Word variations have been searched)
#12	#10 or #11
#13	#9 not #12
#14	MeSH descriptor: [Neoplasms] explode all trees
#15	#13 and #14
#16	(breast* near/5 (neoplasm* or cancer* or tumor?r* or carcinoma* or adenocarcinoma* or sarcoma* or leiomyosarcoma* or dcis or duct* or infiltrat* or intraduct* or lobul* or medullary or tubular)):ti,ab,kw (Word variations have been searched)
#17	(mammary* near/5 (neoplasm* or cancer* or tumor?r* or carcinoma* or adenocarcinoma* or sarcoma* or leiomyosarcoma* or dcis or duct* or infiltrat* or intraduct* or lobul* or medullary or tubular)):ti,ab,kw (Word variations have been searched)
#18	MeSH descriptor: [Paget's Disease, Mammary] this term only
#19	(paget* and (breast* or mammary or nipple*)):ti,ab,kw (Word variations have been searched)
#20	#15 or #16 or #17 or #18 or #19
#21	#6 or #20
#22	MeSH descriptor: [Aromatase Inhibitors] explode all trees
#23	aromatase inhibitor*:ti,ab,kw (Word variations have been searched)
#24	(anastrozole or arimidex or letrozole or femara or exemestane or aromasin):ti,ab,kw (Word variations have been searched)
#25	MeSH descriptor: [Tamoxifen] this term only
#26	(Nolvadex or tamoxifen*):ti,ab,kw (Word variations have been searched)
#27	#22 or #23 or #24 or #25 or #26
#28	#21 and #27
#29	MeSH descriptor: [Time Factors] this term only
#30	(duration* or timing):ti,ab,kw (Word variations have been searched)
#31	(sequenc* or sequential):ti,ab,kw (Word variations have been searched)
#32	extended:ti,ab,kw (Word variations have been searched)
#33	(continu* or stop*):ti,ab,kw (Word variations have been searched)
#34	((optimal or different) next (regimen* or treatment or therapy or course)):ti,ab,kw (Word variations have been searched)
#35	(length near/2 (regimen* or treatment or therapy or course)):ti,ab,kw (Word variations have been searched)
#36	#29 or #30 or #31 or #32 or #33 or #34 or #35
#37	#28 and #36
#38	(MA.17 or MA17 or ATTOM or ATLAS):ti,ab,kw (Word variations have been searched)
#39	#21 and #38
#40	#37 or #39 Publication Year from 1996 to 2017

## F.7 Ovarian suppression

Review question: What is the effectiveness of ovarian suppression in addition to endocrine therapy in pre-menopausal women with oestrogen-positive breast cancer?

### F.7.1 Database: Medline

Last searched on **Epub Ahead of Print, In-Process & Other Non-Indexed Citations, Ovid MEDLINE(R) Daily and Ovid MEDLINE(R) 1946 to Present.**

Date of last search: 28 September 2017

#	Searches
1	exp Breast Neoplasms/
2	exp "Neoplasms, Ductal, Lobular, and Medullary"/
3	Carcinoma, Intraductal, Noninfiltrating/
4	Carcinoma, Lobular/
5	Carcinoma, Medullary/
6	1 or 2 or 3 or 4 or 5
7	exp Breast/
8	breast.tw.
9	7 or 8
10	(breast adj milk).tw.
11	(breast adj tender\$).tw.
12	10 or 11
13	9 not 12
14	exp Neoplasms/
15	13 and 14
16	(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)).mp.
17	(mammary\$ 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)).mp.
18	Paget's Disease, Mammary/
19	(paget\$ and (breast\$ or mammary or nipple\$)).tw.
20	15 or 16 or 17 or 18 or 19
21	6 or 20
22	exp Ovariectomy/
23	(ovariectom\$ or oophorectom\$).ti,ab.
24	(removal adj3 ovar\$).ti,ab.
25	((radiation or irradiation or radiotherap\$) adj3 ovar\$).ti,ab.
26	exp Ovary/
27	exp Radiation/
28	(ovar\$ adj3 (suppress\$ or ablat\$)).ti,ab.
29	26 and 27
30	22 or 23 or 24 or 25 or 28 or 29
31	21 and 30
32	Luteinizing Hormone/
33	lutein\$ hormon\$ releas\$.mp.

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#	Searches
34	(LHRH\$ or LH-RH\$).mp.
35	exp Gonadotropin-Releasing Hormone/
36	gonadotrop\$ releas\$ hormon\$.mp.
37	(GnRH\$ or GnRHA\$).mp.
38	(goserelin\$ or zolade\$ or novgos or buserelin\$ or suprefact or suprecur or leuprolid\$ or leuprorelin\$ or lupron or nafarelin\$ or synarel or triptorelin\$ or decapeptyl or gonapeptyl).mp.
39	(hormon\$ adj3 (suppress\$ or ablat\$)).mp.
40	32 or 33 or 34 or 35 or 36 or 37 or 38 or 39
41	21 and 40
42	31 or 41
43	limit 42 to yr="1992 -Current"
44	Limit 43 to RCTs and SRs, and general exclusions filter applied

### F.7.2 Database: Embase

Last searched on **Embase Classic+Embase** 1947 to 2017 September 27.

Date of last search: 28 September 2017

#	Searches
1	exp breast cancer/
2	exp breast carcinoma/
3	exp medullary carcinoma/
4	exp intraductal carcinoma/
5	exp breast tumor/
6	1 or 2 or 3 or 4 or 5
7	exp breast/
8	breast.tw.
9	7 or 8
10	(breast adj milk).tw.
11	(breast adj tender\$).tw.
12	10 or 11
13	9 not 12
14	exp neoplasm/
15	13 and 14
16	(breast\$ adj5 (neoplasm\$ or cancer\$ or tumo?r\$ or carcinoma\$ or adenocarcinoma\$ or sarcoma\$ or leiomyosarcoma\$ or dcis or duct\$ or infiltrat\$ or intraduct\$ or lobul\$ or medullary or tubular)).tw.
17	(mammar\$ adj5 (neoplasm\$ or cancer\$ or tumo?r\$ or carcinoma\$ or adenocarcinoma\$ or sarcoma\$ or leiomyosarcoma\$ or dcis or duct\$ or infiltrat\$ or intraduct\$ or lobul\$ or medullary or tubular)).tw.
18	exp Paget nipple disease/
19	(paget\$ and (breast\$ or mammary or nipple\$)).tw.
20	15 or 16 or 17 or 18 or 19
21	6 or 20
22	exp ovariectomy/
23	(ovariectom\$ or oophorectom\$).ti,ab.
24	(removal adj3 ovar\$).ti,ab.

#	Searches
25	((radiation or irradiation or radiotherap\$) adj3 ovar\$).ti,ab.
26	exp ovary/
27	exp radiation/
28	(ovar\$ adj3 (suppress\$ or ablat\$)).ti,ab.
29	26 and 27
30	22 or 23 or 24 or 25 or 28 or 29
31	21 and 30
32	exp gonadorelin/
33	lutein\$ hormon\$ releas\$.mp.
34	(LHRH\$ or LH-RH\$).mp.
35	exp growth hormone releasing factor/
36	gonadotrop\$ releas\$ hormon\$.mp.
37	(GnRH\$ or GnRHA\$).mp.
38	(goserelin\$ or zolade\$ or novgos or buserelin\$ or suprefact or suprecur or leuprolid\$ or leuprorelin\$ or lupron or nafarelin\$ or synarel or triptorelin\$ or decapeptyl or gonapeptyl).mp.
39	(hormon\$ adj3 (suppress\$ or ablat\$)).mp.
40	32 or 33 or 34 or 35 or 36 or 37 or 38 or 39
41	21 and 40
42	31 or 41
43	limit 42 to yr="1992 -Current"
44	Limit 43 to RCTs and SRs, and general exclusions filter applied

### F.7.3 Database: Cochrane Library via Wiley Online

Date of last search: 28 September 2017

#	Searches
#1	MeSH descriptor: [Breast Neoplasms] explode all trees
#2	MeSH descriptor: [Neoplasms, Ductal, Lobular, and Medullary] explode all trees
#3	MeSH descriptor: [Carcinoma, Intraductal, Noninfiltrating] explode all trees
#4	MeSH descriptor: [Carcinoma, Lobular] this term only
#5	MeSH descriptor: [Carcinoma, Medullary] this term only
#6	#1 or #2 or #3 or #4 or #5
#7	MeSH descriptor: [Breast] explode all trees
#8	breast:ti,ab,kw (Word variations have been searched)
#9	#7 or #8
#10	(breast next milk):ti,ab,kw (Word variations have been searched)
#11	(breast next tender*):ti,ab,kw (Word variations have been searched)
#12	#10 or #11
#13	#9 not #12
#14	MeSH descriptor: [Neoplasms] explode all trees
#15	#13 and #14
#16	(breast* near/5 (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)):ti,ab,kw (Word variations have been searched)
#17	(mammar* near/5 (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)):ti,ab,kw (Word variations have been searched)

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#	Searches
#18	MeSH descriptor: [Paget's Disease, Mammary] this term only
#19	(paget* and (breast* or mammary or nipple*)):ti,ab,kw (Word variations have been searched)
#20	#15 or #16 or #17 or #18 or #19
#21	#6 or #20
#22	MeSH descriptor: [Ovariectomy] explode all trees
#23	(ovariectom* or oophorectom*):ti,ab,kw (Word variations have been searched)
#24	(removal near/3 ovar*):ti,ab,kw (Word variations have been searched)
#25	((radiation or irradiation or radiotherap*) near/3 ovar*):ti,ab,kw (Word variations have been searched)
#26	MeSH descriptor: [Ovary] explode all trees
#27	MeSH descriptor: [Radiation] explode all trees
#28	(ovar* near/3 (suppress* or ablat*)):ti,ab,kw (Word variations have been searched)
#29	#26 and #27
#30	#22 or #23 or #24 or #25 or #28 or #29
#31	#21 and #30
#32	MeSH descriptor: [Luteinizing Hormone] explode all trees
#33	lutein* hormon* releas*:ti,ab,kw (Word variations have been searched)
#34	(LHRH* or LH-RH*):ti,ab,kw (Word variations have been searched)
#35	MeSH descriptor: [Gonadotropin-Releasing Hormone] explode all trees
#36	gonadotrop* releas* hormon*:ti,ab,kw (Word variations have been searched)
#37	(GnRH* or GnRHA*):ti,ab,kw (Word variations have been searched)
#38	(goserelin* or zolade* or novgos or buserelin* or suprefact or suprecur or leuprolid* or leuprorelin* or lupron or nafarelin* or synarel or triptorelin* or decapeptyl or gonapeptyl):ti,ab,kw (Word variations have been searched)
#39	(hormon* near/3 (suppress* or ablat*)):ti,ab,kw (Word variations have been searched)
#40	#32 or #33 or #34 or #35 or #36 or #37 or #38 or #39
#41	#21 and #40
#42	#31 or #41 Publication Year from 1992 to 2016

## F.8 Chemoprevention

Review question: What is the role of chemoprevention in women following initial treatment for ductal carcinoma in situ (DCIS)?

### F.8.1 Database: Medline & Embase (Multifile)

Last searched on **Embase** 1974 to 2017 March 28, **Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations and Ovid MEDLINE(R)** 1946 to Present.

Date of last search: 29 March 2017.

#	Searches
1	exp breast cancer/ use oomezd
2	exp breast carcinoma/ use oomezd
3	exp medullary carcinoma/ use oomezd
4	exp intraductal carcinoma/ use oomezd
5	exp breast tumor/ use oomezd
6	exp Breast Neoplasms/ use prmz

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#	Searches
7	exp "Neoplasms, Ductal, Lobular, and Medullary"/ use prmz
8	Carcinoma, Intraductal, Noninfiltrating/ use prmz
9	Carcinoma, Lobular/ use prmz
10	Carcinoma, Medullary/ use prmz
11	1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10
12	exp breast/ use oomezd
13	exp Breast/ use prmz
14	breast.tw.
15	12 or 13 or 14
16	(breast adj milk).tw.
17	(breast adj tender\$.tw.
18	16 or 17
19	15 not 18
20	exp neoplasm/ use oomezd
21	exp Neoplasms/ use prmz
22	20 or 21
23	19 and 22
24	(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. use oomezd
25	(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. use oomezd
26	(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)).mp. use prmz
27	(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)).mp. use prmz
28	exp Paget nipple disease/ use oomezd
29	Paget's Disease, Mammary/ use prmz
30	(paget\$ and (breast\$ or mammary or nipple\$)).tw.
31	23 or 24 or 25 or 26 or 27 or 28 or 29 or 30
32	11 or 31
33	Tamoxifen/ use prmz
34	tamoxifen/ use oomezd
35	(Nolvadex\$ or tamoxifen\$.mp.
36	exp Aromatase Inhibitors/ use prmz
37	exp aromatase inhibitor/ use oomezd
38	aromatase inhibitor\$.mp.
39	(anastrozol\$ or arimidex\$ or letrozol\$ or femara\$ or exemestan\$ or aromasin\$.mp.
40	exp Selective Estrogen Receptor Modulators/ use prmz
41	Raloxifene Hydrochloride/ use prmz
42	exp selective estrogen receptor modulator/ use oomezd
43	raloxifene/ use oomezd
44	(raloxifen\$ or evista\$.mp.
45	33 or 34 or 35 or 36 or 37 or 38 or 39 or 40 or 41 or 42 or 43 or 44



#	Searches
46	32 and 45
47	exp Primary Prevention/ use prmz
48	exp Chemoprevention/ use prmz
49	exp primary prevention/ use oomezd
50	exp chemoprophylaxis/ use oomezd
51	(chemoprevent\$ or chemoprophylax\$).tw.
52	(prevent\$ adj3 (breast\$ adj2 (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.
53	(prevent\$ adj3 (mammar\$ adj2 (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.
54	47 or 48 or 49 or 50 or 51 or 52 or 53
55	46 and 54
56	remove duplicates from 55
57	prevent\$.m_titl.
58	46 and 57
59	56 or 58
60	remove duplicates from 59
61	Limit 60 to RCTs and SRs, and general exclusions filter applied

## F.8.2 Database: Cochrane Library via Wiley Online

Date of last search: 29 March 2017.

#	Searches
#1	MeSH descriptor: [Breast Neoplasms] explode all trees
#2	MeSH descriptor: [Neoplasms, Ductal, Lobular, and Medullary] explode all trees
#3	MeSH descriptor: [Carcinoma, Intraductal, Noninfiltrating] explode all trees
#4	MeSH descriptor: [Carcinoma, Lobular] this term only
#5	MeSH descriptor: [Carcinoma, Medullary] this term only
#6	#1 or #2 or #3 or #4 or #5
#7	MeSH descriptor: [Breast] explode all trees
#8	breast:ti,ab,kw (Word variations have been searched)
#9	#7 or #8
#10	(breast next milk):ti,ab,kw (Word variations have been searched)
#11	(breast next tender*):ti,ab,kw (Word variations have been searched)
#12	#10 or #11
#13	#9 not #12
#14	MeSH descriptor: [Neoplasms] explode all trees
#15	#13 and #14
#16	(breast* near/5 (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)):ti,ab,kw (Word variations have been searched)
#17	(mammar* near/5 (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)):ti,ab,kw (Word variations have been searched)
#18	MeSH descriptor: [Paget's Disease, Mammary] this term only
#19	(paget* and (breast* or mammary or nipple*)):ti,ab,kw (Word variations have been

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#	Searches
	searched)
#20	#15 or #16 or #17 or #18 or #19
#21	#6 or #20
#22	MeSH descriptor: [Aromatase Inhibitors] explode all trees
#23	aromatase inhibitor*:ti,ab,kw (Word variations have been searched)
#24	(anastrozol* or arimidex* or letrozol* or femara* or exemestan* or aromasin*):ti,ab,kw (Word variations have been searched)
#25	MeSH descriptor: [Tamoxifen] this term only
#26	(Nolvadex* or tamoxifen*):ti,ab,kw (Word variations have been searched)
#27	MeSH descriptor: [Selective Estrogen Receptor Modulators] explode all trees
#28	MeSH descriptor: [Raloxifene Hydrochloride] explode all trees
#29	(raloxifen* or evista*):ti,ab,kw (Word variations have been searched)
#30	#22 or #23 or #24 or #25 or #26 or #27 or #28 or #29
#31	#21 and #30
#32	MeSH descriptor: [Primary Prevention] explode all trees
#33	MeSH descriptor: [Chemoprevention] explode all trees
#34	(chemoprevent* or chemoprophylax*):ti,ab,kw (Word variations have been searched)
#35	(prevent* near/3 (breast* near/2 (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))):ti,ab,kw (Word variations have been searched)
#36	(prevent* near/3 (mammar* near/2 (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))):ti,ab,kw (Word variations have been searched)
#37	prevent*:ti (Word variations have been searched)
#38	#32 or #33 or #34 or #35 or #36 or #37
#39	#31 and #38

## F.9 Taxanes

Review Question: Which people with early and locally advanced breast cancer would benefit from the addition of taxanes to anthracycline based adjuvant chemotherapy?

### F.9.1 Database: Medline & Embase (Multifile)

Last searched on **Embase** 1974 to 2017 September 20, **Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations and Ovid MEDLINE(R)** 1946 to Present.

Date of last search: 25 September 2017.

#	Searches
1	exp breast cancer/ use oomezd
2	exp breast carcinoma/ use oomezd
3	exp medullary carcinoma/ use oomezd
4	exp intraductal carcinoma/ use oomezd
5	exp breast tumor/ use oomezd
6	exp Breast Neoplasms/ use prmz
7	exp "Neoplasms, Ductal, Lobular, and Medullary"/ use prmz
8	Carcinoma, Intraductal, Noninfiltrating/ use prmz
9	Carcinoma, Lobular/ use prmz

#	Searches
10	Carcinoma, Medullary/ use prmz
11	1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10
12	exp breast/ use oomezd
13	exp Breast/ use prmz
14	breast.tw.
15	12 or 13 or 14
16	(breast adj milk).tw.
17	(breast adj tender\$.tw.
18	16 or 17
19	15 not 18
20	exp neoplasm/ use oomezd
21	exp Neoplasms/ use prmz
22	20 or 21
23	19 and 22
24	(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. use oomezd
25	(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. use oomezd
26	(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)).mp. use prmz
27	(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)).mp. use prmz
28	exp Paget nipple disease/ use oomezd
29	Paget's Disease, Mammary/ use prmz
30	(paget\$ and (breast\$ or mammary or nipple\$)).tw.
31	23 or 24 or 25 or 26 or 27 or 28 or 29 or 30
32	11 or 31
33	exp Paclitaxel/ use prmz
34	paclitaxel/ use oomezd
35	docetaxel/ use oomezd
36	(docetaxel\$ or taxotere\$.tw.
37	(nsc-125973 or nsc125973).tw.
38	("Abi 007" or Abi007).tw.
39	(Bms 181339 or Bms181339).tw.
40	(paclitax\$ or taxol or anzatax\$ or onxol\$ or paxen\$ or praxel\$ or abraxan\$ or coroxan\$ or genexol\$ or hunxol\$ or intaxel\$ or paxceed\$ or yewtaxan\$.tw.
41	taxane\$.tw.
42	33 or 34 or 35 or 36 or 37 or 38 or 39 or 40 or 41
43	Adjuvant Chemotherapy/ use prmz
44	adjuvant therapy/ use oomezd
45	(postoperat\$ or post-operat\$ or post operat\$ or postsurg\$ or post-surg\$ or post surg\$.tw.
46	(adjuvant\$ or adjunct or auxiliary).tw.
47	((after or follow\$) adj (surg\$ or operat\$)).tw.

#	Searches
48	(concurrent\$ or sequential\$ or polychemotherap\$).tw.
49	43 or 44 or 45 or 46 or 47 or 48
50	32 and 42 and 49
51	limit 50 to yr="2006 -Current"
52	remove duplicates from 51
53	Limit 60 to RCTs and SRs, and general exclusions filter applied

## F.9.2 Database: Cochrane Library via Wiley Online

Date of last search: 25 September 2017

#	Searches
#1	MeSH descriptor: [Breast Neoplasms] explode all trees
#2	MeSH descriptor: [Neoplasms, Ductal, Lobular, and Medullary] explode all trees
#3	MeSH descriptor: [Carcinoma, Intraductal, Noninfiltrating] explode all trees
#4	MeSH descriptor: [Carcinoma, Lobular] this term only
#5	MeSH descriptor: [Carcinoma, Medullary] this term only
#6	#1 or #2 or #3 or #4 or #5
#7	MeSH descriptor: [Breast] explode all trees
#8	breast:ti,ab,kw (Word variations have been searched)
#9	#7 or #8
#10	(breast next milk):ti,ab,kw (Word variations have been searched)
#11	(breast next tender*):ti,ab,kw (Word variations have been searched)
#12	#10 or #11
#13	#9 not #12
#14	MeSH descriptor: [Neoplasms] explode all trees
#15	#13 and #14
#16	(breast* near/5 (neoplasm* or cancer* or tumo?r* or carcinoma* or adenocarcinoma* or sarcoma* or leiomyosarcoma* or dcis or duct* or infiltrat* or intraduct* or lobul* or medullary or tubular)):ti,ab,kw (Word variations have been searched)
#17	(mammar* near/5 (neoplasm* or cancer* or tumo?r* or carcinoma* or adenocarcinoma* or sarcoma* or leiomyosarcoma* or dcis or duct* or infiltrat* or intraduct* or lobul* or medullary or tubular)):ti,ab,kw (Word variations have been searched)
#18	MeSH descriptor: [Paget's Disease, Mammary] this term only
#19	(paget* and (breast* or mammary or nipple*)):ti,ab,kw (Word variations have been searched)
#20	#15 or #16 or #17 or #18 or #19
#21	#6 or #20
#22	MeSH descriptor: [Paclitaxel] explode all trees
#23	(docetaxel* or taxotere*):ti,ab,kw (Word variations have been searched)
#24	("Abi 007" or Abi007):ti,ab,kw (Word variations have been searched)
#25	(paclitax* or taxol or anzatax* or onxol* or paxen* or praxel* or abraxan* or coroxan* or genexol* or hunxol* or intaxel* or paxceed* or yewtaxan*):ti,ab,kw (Word variations have been searched)
#26	#22 or #23 or #24 or #25
#27	#21 and #26 Publication Year from 2006 to 2017

## F.10 Trastuzumab

Review question: Which people with T1 N0 human epidermal growth receptor 2 (HER2)-positive breast cancers benefit from adjuvant trastuzumab in combination with chemotherapy?

### F.10.1 Database: Medline & Embase (Multifile)

Last searched on **Embase** 1974 to 2017 February 06, **Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations and Ovid MEDLINE(R)** 1946 to Present.

Date of last search: 7 February 2017

#	Searches
1	exp breast cancer/ use oomezd
2	exp breast carcinoma/ use oomezd
3	exp medullary carcinoma/ use oomezd
4	exp intraductal carcinoma/ use oomezd
5	exp breast tumor/ use oomezd
6	exp Breast Neoplasms/ use prmz
7	exp "Neoplasms, Ductal, Lobular, and Medullary"/ use prmz
8	Carcinoma, Intraductal, Noninfiltrating/ use prmz
9	Carcinoma, Lobular/ use prmz
10	Carcinoma, Medullary/ use prmz
11	1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10
12	exp breast/ use oomezd
13	exp Breast/ use prmz
14	breast.tw.
15	12 or 13 or 14
16	(breast adj milk).tw.
17	(breast adj tender\$.tw.
18	16 or 17
19	15 not 18
20	exp neoplasm/ use oomezd
21	exp Neoplasms/ use prmz
22	20 or 21
23	19 and 22
24	(breast\$ adj5 (neoplasm\$ or cancer\$ or tumor?r\$ or carcinoma\$ or adenocarcinoma\$ or sarcoma\$ or leiomyosarcoma\$ or dcis or duct\$ or infiltrat\$ or intraduct\$ or lobul\$ or medullary or tubular)).tw. use oomezd
25	(mammar\$ adj5 (neoplasm\$ or cancer\$ or tumor?r\$ or carcinoma\$ or adenocarcinoma\$ or sarcoma\$ or leiomyosarcoma\$ or dcis or duct\$ or infiltrat\$ or intraduct\$ or lobul\$ or medullary or tubular)).tw. use oomezd
26	(breast\$ adj5 (neoplasm\$ or cancer\$ or tumor?r\$ or carcinoma\$ or adenocarcinoma\$ or sarcoma\$ or leiomyosarcoma\$ or dcis or duct\$ or infiltrat\$ or intraduct\$ or lobul\$ or medullary or tubular)).mp. use prmz
27	(mammar\$ adj5 (neoplasm\$ or cancer\$ or tumor?r\$ or carcinoma\$ or adenocarcinoma\$ or sarcoma\$ or leiomyosarcoma\$ or dcis or duct\$ or infiltrat\$ or intraduct\$ or lobul\$ or medullary or tubular)).mp. use prmz
28	exp Paget nipple disease/ use oomezd
29	Paget's Disease, Mammary/ use prmz

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#	Searches
30	(paget\$ and (breast\$ or mammary or nipple\$)).tw.
31	23 or 24 or 25 or 26 or 27 or 28 or 29 or 30
32	11 or 31
33	Trastuzumab/ use prmz
34	trastuzumab/ use oomezd
35	(trastuzumab or herceptin or haerceptin).tw.
36	33 or 34 or 35
37	32 and 36
38	"stage 1".tw.
39	"stage I".tw.
40	(pT1\$ or T1\$).tw.
41	(pN0\$ or N0\$).tw.
42	M0\$.tw.
43	(small adj4 (neoplasm\$ or cancer\$ or tumo?r\$ or carcinoma\$)).tw.
44	(non-metastatic or nonmetastatic).tw.
45	((node or nodal) adj3 negative).tw.
46	38 or 39 or 40 or 41 or 42 or 43 or 44 or 45
47	37 and 46
48	(adjuvant adj trastuzumab).tw.
49	pT1a-bN0M0.tw.
50	T1N0M0.tw.
51	(infracentimetri\$ or centrimetri\$).tw.
52	48 or 49 or 50 or 51
53	32 and 52
54	47 or 53
55	limit 54 to yr="2008 -Current"
56	remove duplicates from 55 [Then general exclusions filter applied]

## F.10.2 Database: Cochrane Library via Wiley Online

Date of last search: 7 February 2017.

#	Searches
#1	MeSH descriptor: [Breast Neoplasms] explode all trees
#2	MeSH descriptor: [Neoplasms, Ductal, Lobular, and Medullary] explode all trees
#3	MeSH descriptor: [Carcinoma, Intraductal, Noninfiltrating] explode all trees
#4	MeSH descriptor: [Carcinoma, Lobular] this term only
#5	MeSH descriptor: [Carcinoma, Medullary] this term only
#6	#1 or #2 or #3 or #4 or #5
#7	MeSH descriptor: [Breast] explode all trees
#8	breast:ti,ab,kw (Word variations have been searched)
#9	#7 or #8
#10	(breast next milk):ti,ab,kw (Word variations have been searched)
#11	(breast next tender*):ti,ab,kw (Word variations have been searched)
#12	#10 or #11
#13	#9 not #12
#14	MeSH descriptor: [Neoplasms] explode all trees

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#	Searches
#15	#13 and #14
#16	(breast* near/5 (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)):ti,ab,kw (Word variations have been searched)
#17	(mammary* near/5 (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)):ti,ab,kw (Word variations have been searched)
#18	MeSH descriptor: [Paget's Disease, Mammary] this term only
#19	(paget* and (breast* or mammary or nipple*)):ti,ab,kw (Word variations have been searched)
#20	#15 or #16 or #17 or #18 or #19
#21	#6 or #20
#22	MeSH descriptor: [Trastuzumab] explode all trees
#23	(trastuzumab or herceptin or haerceptin):ti,ab,kw (Word variations have been searched)
#24	#22 or #23
#25	#21 and #24 Publication Year from 2008 to 2017

## F.11 Bisphosphonates

Review question: What are the indications for using adjuvant bisphosphonates in people with early and locally advanced breast cancer?

### F.11.1 Database: Medline & Embase (Multifile)

Last searched on **Embase** 1974 to 2017 September 21, **Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations and Ovid MEDLINE(R)** 1946 to Present.

Date of last search: 25 September 2017

#	Searches
1	exp breast cancer/ use oomezd
2	exp breast carcinoma/ use oomezd
3	exp medullary carcinoma/ use oomezd
4	exp intraductal carcinoma/ use oomezd
5	exp breast tumor/ use oomezd
6	exp Breast Neoplasms/ use prmz
7	exp "Neoplasms, Ductal, Lobular, and Medullary"/ use prmz
8	Carcinoma, Intraductal, Noninfiltrating/ use prmz
9	Carcinoma, Lobular/ use prmz
10	Carcinoma, Medullary/ use prmz
11	1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10
12	exp breast/ use oomezd
13	exp Breast/ use prmz
14	breast.tw.
15	12 or 13 or 14
16	(breast adj milk).tw.
17	(breast adj tender\$).tw.
18	16 or 17
19	15 not 18

#	Searches
20	exp neoplasm/ use oomezd
21	exp Neoplasms/ use prmz
22	20 or 21
23	19 and 22
24	(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. use oomezd
25	(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. use oomezd
26	(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)).mp. use prmz
27	(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)).mp. use prmz
28	exp Paget nipple disease/ use oomezd
29	Paget's Disease, Mammary/ use prmz
30	(paget\$ and (breast\$ or mammary or nipple\$)).tw.
31	23 or 24 or 25 or 26 or 27 or 28 or 29 or 30
32	11 or 31
33	exp Diphosphonates/ use prmz
34	exp Organophosphorus Compounds/ use prmz
35	exp Phosphoric Acids/ use prmz
36	exp bisphosphonic acid derivative/ use oomezd
37	exp organophosphorus compound/ use oomezd
38	exp phosphoric acid/ use oomezd
39	(bisphosphonat\$ or diphosphonat\$).af.
40	Alendronate/ use prmz
41	alendronic acid/ use oomezd
42	(alendron\$ or aledron\$ or fosamax or adrona or alendros or dronal).af.
43	Clodronic Acid/ use prmz
44	clodronic acid/ use oomezd
45	(clodron\$ or bonefos or liron or ascredar or lodronat or lytos or ostac or clastoban or clasteon or difosfonal or ossiten or mebonat).af.
46	pamidronic acid/ use oomezd
47	(pamidron\$ or APD or aredia).af.
48	ibandronic acid/ use oomezd
49	(ibandron\$ or bondronat).af.
50	zoledronic acid/ use oomezd
51	(zoledron\$ or zometa).af.
52	Risedronate Sodium/ use prmz
53	risedronic acid/ use oomezd
54	(risedron\$ or risodron\$ or actonel).af.
55	Etidronic Acid/ use prmz
56	etidronic acid/ use oomezd
57	(etidron\$ or didron\$ or difosfen or osteodidronel or osteum).af.



#	Searches
58	"disodium dihydrogen(1-hydroxyethylidene)diphosphonate".af.
59	tiludronic acid/ use oomezd
60	(tiludron\$ or skelid).af.
61	neridronic acid/ use oomezd
62	(neridron\$ or AHDP).af.
63	olpadronic acid/ use oomezd
64	(olpadron\$ or OPD).af.
65	"(3-dimethylamino-1-hydroxypropylidene)bisphosphonate".af.
66	incadronic acid/ use oomezd
67	(incadron\$ or cimadronate or YM175 or YM 175).af.
68	minodronic acid/ use oomezd
69	(minodron\$ or YM529 or YM 529).af.
70	or/33-69
71	32 and 70
72	limit 71 to yr="2008 -Current"
73	Limit 72 to RCTs and SRs, and general exclusions filter applied

## F.11.2 Database: Cochrane Library via Wiley Online

Date of last search: 25 September 2017

#	Searches
#1	MeSH descriptor: [Breast Neoplasms] explode all trees
#2	MeSH descriptor: [Neoplasms, Ductal, Lobular, and Medullary] explode all trees
#3	MeSH descriptor: [Carcinoma, Intraductal, Noninfiltrating] explode all trees
#4	MeSH descriptor: [Carcinoma, Lobular] this term only
#5	MeSH descriptor: [Carcinoma, Medullary] this term only
#6	#1 or #2 or #3 or #4 or #5
#7	MeSH descriptor: [Breast] explode all trees
#8	breast:ti,ab,kw (Word variations have been searched)
#9	#7 or #8
#10	(breast next milk):ti,ab,kw (Word variations have been searched)
#11	(breast next tender*):ti,ab,kw (Word variations have been searched)
#12	#10 or #11
#13	#9 not #12
#14	MeSH descriptor: [Neoplasms] explode all trees
#15	#13 and #14
#16	(breast* near/5 (neoplasm* or cancer* or tumor?r* or carcinoma* or adenocarcinoma* or sarcoma* or leiomyosarcoma* or dcis or duct* or infiltrat* or intraduct* or lobul* or medullary or tubular)):ti,ab,kw (Word variations have been searched)
#17	(mammar* near/5 (neoplasm* or cancer* or tumor?r* or carcinoma* or adenocarcinoma* or sarcoma* or leiomyosarcoma* or dcis or duct* or infiltrat* or intraduct* or lobul* or medullary or tubular)):ti,ab,kw (Word variations have been searched)
#18	MeSH descriptor: [Paget's Disease, Mammary] this term only
#19	(paget* and (breast* or mammary or nipple*)):ti,ab,kw (Word variations have been searched)
#20	#15 or #16 or #17 or #18 or #19
#21	#6 or #20

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#	Searches
#22	MeSH descriptor: [Diphosphonates] explode all trees
#23	MeSH descriptor: [Organophosphorus Compounds] explode all trees
#24	MeSH descriptor: [Phosphoric Acids] explode all trees
#25	(bisphosphonat* or diphosphonat*):ti,ab,kw (Word variations have been searched)
#26	MeSH descriptor: [Alendronate] this term only
#27	(alendron* or aledron* or fosamax or adrona or alendros or dronal):ti,ab,kw (Word variations have been searched)
#28	MeSH descriptor: [Clodronic Acid] this term only
#29	(clodron* or bonefos or loron or ascredar or lodronat or lytos or ostac or clastoban or clasteon or difosfonal or ossiten or mebonat):ti,ab,kw (Word variations have been searched)
#30	(pamidron* or APD or aredia):ti,ab,kw (Word variations have been searched)
#31	(ibandron* or bondronat):ti,ab,kw (Word variations have been searched)
#32	(zoledron* or zometa):ti,ab,kw (Word variations have been searched)
#33	MeSH descriptor: [Risedronate Sodium] explode all trees
#34	(risedron* or risodron* or actonel):ti,ab,kw (Word variations have been searched)
#35	MeSH descriptor: [Etidronic Acid] explode all trees
#36	(etidron* or didron* or difosfen or osteodidronel or osteum):ti,ab,kw (Word variations have been searched)
#37	(tiludron* or skelid or neridron* or AHDP or olpadron* or OPD):ti,ab,kw (Word variations have been searched)
#38	(incadron* or cimadronate or YM175 or "YM 175"):ti,ab,kw (Word variations have been searched)
#39	(minodron* or YM529 or "YM 529"):ti,ab,kw (Word variations have been searched)
#40	#22 or #23 or #24 or #25 or #26 or #27 or #28 or #29 or #30 or #31 or #32 or #33 or #34 or #35 or #36 or #37 or #38 or #39
#41	#21 and #40 Publication Year from 2008 to 2017

## F.12 Heart sparing radiotherapy

Review question: What radiotherapy techniques are effective for excluding the heart from the radiation field without compromising coverage of the whole breast target volume for people with early or locally advanced breast cancer?

### F.12.1 Database: Medline & Embase (Multifile)

Last searched on **Embase** 1974 to 2017 July 10, **Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations and Ovid MEDLINE(R)** 1946 to Present.

Date of last search: 11 July 2017

#	Searches
1	exp breast cancer/ use oomezd
2	exp breast carcinoma/ use oomezd
3	exp medullary carcinoma/ use oomezd
4	exp intraductal carcinoma/ use oomezd
5	exp breast tumor/ use oomezd
6	exp Breast Neoplasms/ use prmz
7	exp "Neoplasms, Ductal, Lobular, and Medullary"/ use prmz
8	Carcinoma, Intraductal, Noninfiltrating/ use prmz
9	Carcinoma, Lobular/ use prmz

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#	Searches
10	Carcinoma, Medullary/ use prmz
11	1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10
12	exp breast/ use oomezd
13	exp Breast/ use prmz
14	breast.tw.
15	12 or 13 or 14
16	(breast adj milk).tw.
17	(breast adj tender\$.tw.
18	16 or 17
19	15 not 18
20	exp neoplasm/ use oomezd
21	exp Neoplasms/ use prmz
22	20 or 21
23	19 and 22
24	(breast\$ adj5 (neoplasm\$ or cancer\$ or tumo?r\$ or carcinoma\$ or adenocarcinoma\$ or sarcoma\$ or leiomyosarcoma\$ or dcis or duct\$ or infiltrat\$ or intraduct\$ or lobul\$ or medullary or tubular)).tw. use oomezd
25	(mammar\$ adj5 (neoplasm\$ or cancer\$ or tumo?r\$ or carcinoma\$ or adenocarcinoma\$ or sarcoma\$ or leiomyosarcoma\$ or dcis or duct\$ or infiltrat\$ or intraduct\$ or lobul\$ or medullary or tubular)).tw. use oomezd
26	(breast\$ adj5 (neoplasm\$ or cancer\$ or tumo?r\$ or carcinoma\$ or adenocarcinoma\$ or sarcoma\$ or leiomyosarcoma\$ or dcis or duct\$ or infiltrat\$ or intraduct\$ or lobul\$ or medullary or tubular)).mp. use prmz
27	(mammar\$ adj5 (neoplasm\$ or cancer\$ or tumo?r\$ or carcinoma\$ or adenocarcinoma\$ or sarcoma\$ or leiomyosarcoma\$ or dcis or duct\$ or infiltrat\$ or intraduct\$ or lobul\$ or medullary or tubular)).mp. use prmz
28	exp Paget nipple disease/ use oomezd
29	Paget's Disease, Mammary/ use prmz
30	(paget\$ and (breast\$ or mammary or nipple\$)).tw.
31	23 or 24 or 25 or 26 or 27 or 28 or 29 or 30
32	11 or 31
33	exp Radiotherapy/ use prmz
34	exp radiotherapy/ use oomezd
35	radiotherapy.fs.
36	(radiotherap\$ or radiat\$ or irradiat\$ or brachytherap\$ or tomotherap\$.mp.
37	(fractionat\$ or hyperfractionat\$ or hypofractionat\$.mp.
38	33 or 34 or 35 or 36 or 37
39	(deep adj3 (inspirat\$ or inhal\$) adj3 breath\$.mp.
40	DIBH.mp.
41	(breath\$ adj hold\$.mp.
42	(deep adj (inspirat\$ or inhal\$)).mp.
43	((inspirat\$ or inhal\$) adj breath\$.mp.
44	((respirat\$ or inspirat\$) adj3 (gated or gating)).mp.
45	((respirat\$ or inspirat\$) adj3 (manoeuv\$ or motion\$ or synchron\$)).mp.
46	((free or active) adj3 breath\$.mp.
47	Breath-Holding/ use prmz
48	breath-holding/ use oomezd

#	Searches
49	*Respiration/ use prmz
50	*breathing/ use oomezd
51	(prone adj4 (position\$ or radiotherap\$ or radiation\$ or irradiation\$ or planning or set-up or setup)).mp.
52	Prone Position/ use prmz
53	prone position/ use oomezd
54	shielding.mp.
55	Radiation Protection/ use prmz
56	radiation shield/ use oomezd
57	((proton\$ or photon\$) adj3 (therap\$ or treatment\$ or radiotherap\$ or radiation\$ or irradiation\$ or RT or beam\$ or field\$)).tw.
58	Proton Therapy/ use prmz
59	proton therapy/ use oomezd
60	39 or 40 or 41 or 42 or 43 or 44 or 45 or 46 or 47 or 48 or 49 or 50 or 51 or 52 or 53 or 54 or 55 or 56 or 57 or 58 or 59
61	32 and 38 and 60
62	Heart/ use prmz
63	heart/ use oomezd
64	((heart\$ or cardiac\$ or cardio\$) adj3 (morbidity or mortality or toxicity or event\$ or effect\$ or sequelae\$)).mp.
65	62 or 63 or 64
66	32 and 38 and 65
67	Heart/re use prmz
68	((heart\$ or cardiac\$) adj3 (sparing or protect\$ or avoid\$ or displac\$ or dose)).mp. [mp=ti, ab, hw, tn, ot, dm, mf, dv, kw, fx, nm, kf, px, rx, ui, sy]
69	67 or 68
70	32 and 38 and 69
71	61 or 66 or 70
72	(left adj side\$).ti.
73	32 and 38 and 72
74	71 or 73
75	limit 74 to yr="1996 -Current"
76	remove duplicates from 75 [Then general exclusions filter applied]

## F.12.2 Database: Cochrane Library via Wiley Online

Date of last search: 11 July 2017

#	Searches
#1	MeSH descriptor: [Breast Neoplasms] explode all trees
#2	MeSH descriptor: [Neoplasms, Ductal, Lobular, and Medullary] explode all trees
#3	MeSH descriptor: [Carcinoma, Intraductal, Noninfiltrating] explode all trees
#4	MeSH descriptor: [Carcinoma, Lobular] this term only
#5	MeSH descriptor: [Carcinoma, Medullary] this term only
#6	#1 or #2 or #3 or #4 or #5
#7	MeSH descriptor: [Breast] explode all trees
#8	breast:ti,ab,kw (Word variations have been searched)
#9	#7 or #8

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#	Searches
#10	(breast next milk):ti,ab,kw (Word variations have been searched)
#11	(breast next tender*):ti,ab,kw (Word variations have been searched)
#12	#10 or #11
#13	#9 not #12
#14	MeSH descriptor: [Neoplasms] explode all trees
#15	#13 and #14
#16	(breast* near/5 (neoplasm* or cancer* or tumo?r* or carcinoma* or adenocarcinoma* or sarcoma* or leiomyosarcoma* or dcis or duct* or infiltrat* or intraduct* or lobul* or medullary or tubular)):ti,ab,kw (Word variations have been searched)
#17	(mammar* near/5 (neoplasm* or cancer* or tumo?r* or carcinoma* or adenocarcinoma* or sarcoma* or leiomyosarcoma* or dcis or duct* or infiltrat* or intraduct* or lobul* or medullary or tubular)):ti,ab,kw (Word variations have been searched)
#18	MeSH descriptor: [Paget's Disease, Mammary] this term only
#19	(paget* and (breast* or mammary or nipple*)):ti,ab,kw (Word variations have been searched)
#20	#15 or #16 or #17 or #18 or #19
#21	#6 or #20
#22	(deep near/3 (inspirat* or inhal*) near/3 breath*):ti,ab,kw (Word variations have been searched)
#23	DIBH:ti,ab,kw (Word variations have been searched)
#24	(breath* next hold*):ti,ab,kw (Word variations have been searched)
#25	(deep next (inspirat* or inhal*)):ti,ab,kw (Word variations have been searched)
#26	((inspirat* or inhal*) next breath*):ti,ab,kw (Word variations have been searched)
#27	((respirat* or inspirat*) near/3 (gated or gating or manoeuv* or motion* or synchron*)):ti,ab,kw (Word variations have been searched)
#28	((free or active) near/3 breath*):ti,ab,kw (Word variations have been searched)
#29	MeSH descriptor: [Breath-Holding] explode all trees
#30	MeSH descriptor: [Respiration] this term only
#31	(prone near/4 (position* or radiotherap* or radiation* or irradiation* or planning or set-up or setup)):ti,ab,kw (Word variations have been searched)
#32	MeSH descriptor: [Prone Position] explode all trees
#33	shielding:ti,ab,kw (Word variations have been searched)
#34	MeSH descriptor: [Radiation Protection] explode all trees
#35	((proton* or photon*) near/3 (therap* or treatment* or radiotherap* or radiation* or irradiation* or RT or beam* or field*)):ti,ab,kw (Word variations have been searched)
#36	MeSH descriptor: [Proton Therapy] explode all trees
#37	#22 or #23 or #24 or #25 or #26 or #27 or #28 or #29 or #30 or #31 or #32 or #33 or #34 or #35 or #36
#38	#21 and #37
#39	MeSH descriptor: [Radiotherapy] explode all trees
#40	(radiotherap* or radiat* or irradiat* or brachytherap* or tomotherap* or fractionat* or hyperfractionat* or hypofractionat*):ti,ab,kw (Word variations have been searched)
#41	#39 or #40
#42	MeSH descriptor: [Heart] explode all trees
#43	((heart* or cardiac* or cardio*) near/3 (morbidity or mortality or toxicity or event* or effect* or sequelae*)):ti,ab,kw (Word variations have been searched)
#44	#42 or #43
#45	#21 and #41 and #44

#	Searches
#46	MeSH descriptor: [Heart] explode all trees and with qualifier(s): [Radiation effects - RE]
#47	((heart* or cardiac*) near/3 (sparing or protect* or avoid* or displac* or dose)):ti,ab,kw (Word variations have been searched)
#48	#46 or #47
#49	#21 and #48
#50	#38 or #45 or #49
#51	(left next side*):ti,ab,kw (Word variations have been searched)
#52	#21 and #41 and #51
#53	#50 or #52 Publication Year from 1996 to 2017

## F.13 Breast radiotherapy after breast-conserving surgery

Review question: Is there a subgroup of people with early invasive breast cancer who do not need breast radiotherapy after breast-conserving surgery?

### F.13.1 Database: Medline

Database: **Epub Ahead of Print, In-Process & Other Non-Indexed Citations, Ovid MEDLINE(R) Daily and Ovid MEDLINE(R) 1946 to Present.**

Date of last search: 18 November 2016

#	Searches
1	exp Breast Neoplasms/
2	exp "Neoplasms, Ductal, Lobular, and Medullary"/
3	Carcinoma, Intraductal, Noninfiltrating/
4	Carcinoma, Lobular/
5	Carcinoma, Medullary/
6	1 or 2 or 3 or 4 or 5
7	exp Breast/
8	breast.tw.
9	7 or 8
10	(breast adj milk).tw.
11	(breast adj tender\$).tw.
12	10 or 11
13	9 not 12
14	exp Neoplasms/
15	13 and 14
16	(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)).mp.
17	(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)).mp.
18	Paget's Disease, Mammary/
19	(paget\$ and (breast\$ or mammary or nipple\$)).tw.
20	15 or 16 or 17 or 18 or 19
21	6 or 20
22	Mastectomy, Segmental/

#	Searches
23	(segmentectom\$ or post?segmentectom\$).tw.
24	(lumpectom\$ or post?lumpectom\$).tw.
25	(quadrectom\$ or post?quadrectom\$).tw.
26	((local or limited) adj2 (excision or resection)).tw.
27	((partial or segment\$) adj2 (mammectom\$ or mastectomy\$)).tw.
28	(breast adj conserv\$).mp.
29	breast?conserv\$.mp.
30	(conserv\$ adj2 (surgery or therapy)).tw.
31	22 or 23 or 24 or 25 or 26 or 27 or 28 or 29 or 30
32	exp Radiotherapy/
33	radiotherapy.fs.
34	(radiotherap\$ or radiat\$ or irradiat\$ or brachytherap\$ or tomotherap\$).mp.
35	(fractionat\$ or hyperfractionat\$ or hypofractionat\$).mp.
36	32 or 33 or 34 or 35
37	21 and 31 and 36
38	limit 37 to yr="2008 -Current"
39	Limit 38 to RCTs and SRs, and general exclusions filter applied

### F.13.2 Database: Embase

Database: **Embase Classic+Embase** 1947 to 2016 Week 45.

Date of last search: 18 November 2016

#	Searches
1	exp breast cancer/
2	exp breast carcinoma/
3	exp medullary carcinoma/
4	exp intraductal carcinoma/
5	exp breast tumor/
6	1 or 2 or 3 or 4 or 5
7	exp breast/
8	breast.tw.
9	7 or 8
10	(breast adj milk).tw.
11	(breast adj tender\$).tw.
12	10 or 11
13	9 not 12
14	exp neoplasm/
15	13 and 14
16	(breast\$ adj5 (neoplasm\$ or cancer\$ or tumo?r\$ or carcinoma\$ or adenocarcinoma\$ or sarcoma\$ or leiomyosarcoma\$ or dcis or duct\$ or infiltrat\$ or intraduct\$ or lobul\$ or medullary or tubular)).tw.
17	(mammar\$ adj5 (neoplasm\$ or cancer\$ or tumo?r\$ or carcinoma\$ or adenocarcinoma\$ or sarcoma\$ or leiomyosarcoma\$ or dcis or duct\$ or infiltrat\$ or intraduct\$ or lobul\$ or medullary or tubular)).tw.
18	exp Paget nipple disease/
19	(paget\$ and (breast\$ or mammary or nipple\$)).tw.

#	Searches
20	15 or 16 or 17 or 18 or 19
21	6 or 20
22	partial mastectomy/
23	segmental mastectomy/
24	(segmentectom\$ or post?segmentectom\$).tw.
25	(lumpectom\$ or post?lumpectom\$).tw.
26	(quadrectom\$ or post?quadrectom\$).tw.
27	((local or limited) adj2 (excision or resection)).tw.
28	((partial or segment\$) adj2 (mammectom\$ or mastectomy\$)).tw.
29	(breast adj conserv\$).mp.
30	breast?conserv\$.mp.
31	(conserv\$ adj2 (surgery or therapy)).tw.
32	22 or 23 or 24 or 25 or 26 or 27 or 28 or 29 or 30 or 31
33	exp radiotherapy/
34	radiotherapy.fs.
35	(radiotherap\$ or radiat\$ or irradiat\$ or brachytherap\$ or tomotherap\$).mp.
36	(fractionat\$ or hyperfractionat\$ or hypofractionat\$).mp.
37	33 or 34 or 35 or 36
38	21 and 32 and 37
39	limit 38 to yr="2008 -Current"
40	Limit 38 to RCTs and SRs, and general exclusions filter applied

### F.13.3 Database: Cochrane Library via Wiley Online

Date of last search: 18 November 2016

#	Searches
#1	MeSH descriptor: [Breast Neoplasms] explode all trees
#2	MeSH descriptor: [Neoplasms, Ductal, Lobular, and Medullary] explode all trees
#3	MeSH descriptor: [Carcinoma, Intraductal, Noninfiltrating] explode all trees
#4	MeSH descriptor: [Carcinoma, Lobular] this term only
#5	MeSH descriptor: [Carcinoma, Medullary] this term only
#6	#1 or #2 or #3 or #4 or #5
#7	MeSH descriptor: [Breast] explode all trees
#8	breast:ti,ab,kw (Word variations have been searched)
#9	#7 or #8
#10	(breast next milk):ti,ab,kw (Word variations have been searched)
#11	(breast next tender*):ti,ab,kw (Word variations have been searched)
#12	#10 or #11
#13	#9 not #12
#14	MeSH descriptor: [Neoplasms] explode all trees
#15	#13 and #14
#16	(breast* near/5 (neoplasm* or cancer* or tumo?r* or carcinoma* or adenocarcinoma* or sarcoma* or leiomyosarcoma* or dcis or duct* or infiltrat* or intraduct* or lobul* or medullary or tubular)):ti,ab,kw (Word variations have been searched)
#17	(mammar* near/5 (neoplasm* or cancer* or tumo?r* or carcinoma* or adenocarcinoma* or sarcoma* or leiomyosarcoma* or dcis or duct* or infiltrat* or intraduct* or lobul* or medullary or tubular)):ti,ab,kw (Word variations have been searched)

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#	Searches
#18	MeSH descriptor: [Paget's Disease, Mammary] this term only
#19	(paget* and (breast* or mammary or nipple*)):ti,ab,kw (Word variations have been searched)
#20	#15 or #16 or #17 or #18 or #19
#21	#6 or #20
#22	MeSH descriptor: [Mastectomy, Segmental] this term only
#23	(segmentectom* or post segmentectom* or post-segmentectom* or postsegmentectom*):ti,ab,kw (Word variations have been searched)
#24	(lumpectom* or post lumpectom* or post-lumpectom* or postlumpectom*):ti,ab,kw (Word variations have been searched)
#25	(quadrectom* or post quadrectom* or post-quadrectom* or postquadrectom*):ti,ab,kw (Word variations have been searched)
#26	((local or limited) near/2 (excision or resection)):ti,ab,kw (Word variations have been searched)
#27	((partial or segment*) near/2 (mammectom* or mastectomy*)):ti,ab,kw (Word variations have been searched)
#28	(breast next conserv*):ti,ab,kw (Word variations have been searched)
#29	(conserv* near/2 (surgery or therapy)):ti,ab,kw (Word variations have been searched)
#30	#22 or #23 or #24 or #25 or #26 or #27 or #28 or #29
#31	MeSH descriptor: [Radiotherapy] explode all trees
#32	(radiotherap* or radiat* or irradiat* or brachytherap* or tomotherap*):ti,ab,kw (Word variations have been searched)
#33	(fractionat* or hyperfractionat* or hypofractionat*):ti,ab,kw (Word variations have been searched)
#34	#31 or #32 or #33
#35	#21 and #30 and #34 Publication Year from 2008 to 2016

## F.14 Partial breast radiotherapy

Review Question: Is there a subgroup of women with early invasive breast cancer for whom partial breast radiotherapy is an equally effective alternative to whole breast radiotherapy after breast-conserving surgery?

### F.14.1 Database: Medline & Embase (Multifile)

Database: Last searched on **Embase** 1974 to 2017 August 03, **Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations and Ovid MEDLINE(R)** 1946 to Present

Date of last search: 4 August 2017

#	Searches
1	exp breast cancer/ use oomezd
2	exp breast carcinoma/ use oomezd
3	exp medullary carcinoma/ use oomezd
4	exp intraductal carcinoma/ use oomezd
5	exp breast tumor/ use oomezd
6	exp Breast Neoplasms/ use prmz
7	exp "Neoplasms, Ductal, Lobular, and Medullary"/ use prmz
8	Carcinoma, Intraductal, Noninfiltrating/ use prmz
9	Carcinoma, Lobular/ use prmz
10	Carcinoma, Medullary/ use prmz

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#	Searches
11	1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10
12	exp breast/ use oomezd
13	exp Breast/ use prmz
14	breast.tw.
15	12 or 13 or 14
16	(breast adj milk).tw.
17	(breast adj tender\$).tw.
18	16 or 17
19	15 not 18
20	exp neoplasm/ use oomezd
21	exp Neoplasms/ use prmz
22	20 or 21
23	19 and 22
24	(breast\$ adj5 (neoplasm\$ or cancer\$ or tumor?r\$ or carcinoma\$ or adenocarcinoma\$ or sarcoma\$ or leiomyosarcoma\$ or dcis or duct\$ or infiltrat\$ or intraduct\$ or lobul\$ or medullary or tubular)).tw. use oomezd
25	(mammar\$ adj5 (neoplasm\$ or cancer\$ or tumor?r\$ or carcinoma\$ or adenocarcinoma\$ or sarcoma\$ or leiomyosarcoma\$ or dcis or duct\$ or infiltrat\$ or intraduct\$ or lobul\$ or medullary or tubular)).tw. use oomezd
26	(breast\$ adj5 (neoplasm\$ or cancer\$ or tumor?r\$ or carcinoma\$ or adenocarcinoma\$ or sarcoma\$ or leiomyosarcoma\$ or dcis or duct\$ or infiltrat\$ or intraduct\$ or lobul\$ or medullary or tubular)).mp. use prmz
27	(mammar\$ adj5 (neoplasm\$ or cancer\$ or tumor?r\$ or carcinoma\$ or adenocarcinoma\$ or sarcoma\$ or leiomyosarcoma\$ or dcis or duct\$ or infiltrat\$ or intraduct\$ or lobul\$ or medullary or tubular)).mp. use prmz
28	exp Paget nipple disease/ use oomezd
29	Paget's Disease, Mammary/ use prmz
30	(paget\$ and (breast\$ or mammary or nipple\$)).tw.
31	23 or 24 or 25 or 26 or 27 or 28 or 29 or 30
32	11 or 31
33	Brachytherapy/ use prmz
34	*brachytherapy/ use oomezd
35	Radiotherapy, Conformal/ use prmz
36	conformal radiotherapy/ use oomezd
37	Radiotherapy, Intensity-Modulated/ use prmz
38	*intensity modulated radiation therapy/ use oomezd
39	((partial\$ or whole\$) adj breast\$).tw.
40	((accelerat\$ or target\$) adj3 (radiat\$ or irradiat\$ or radiotherap\$ or radiosurg\$ or brachytherap\$)).tw.
41	(APBI\$ or PBI\$ or WBI\$).tw.
42	((intraoperativ\$ or intra-operativ\$) adj3 (radiat\$ or irradiat\$ or radiotherap\$ or radiosurg\$ or brachytherap\$)).tw.
43	IORT\$.tw.
44	mammosite.tw.
45	brachytherap\$.tw.
46	(intensit\$ adj modulat\$).tw.
47	IMRT\$.tw.

#	Searches
48	("3D conformal" or "3-D conformal").tw.
49	33 or 34 or 35 or 36 or 37 or 38 or 39 or 40 or 41 or 42 or 43 or 44 or 45 or 46 or 47 or 48
50	32 and 49
51	limit 50 to yr="1996 -Current"
52	remove duplicates from 51
53	Limit 52 to RCTs and SRs, and general exclusions filter applied

## F.14.2 Database: Cochrane Library via Wiley Online

Date of last search: 4 August 2017

#	Searches
#1	MeSH descriptor: [Breast Neoplasms] explode all trees
#2	MeSH descriptor: [Neoplasms, Ductal, Lobular, and Medullary] explode all trees
#3	MeSH descriptor: [Carcinoma, Intraductal, Noninfiltrating] explode all trees
#4	MeSH descriptor: [Carcinoma, Lobular] this term only
#5	MeSH descriptor: [Carcinoma, Medullary] this term only
#6	#1 or #2 or #3 or #4 or #5
#7	MeSH descriptor: [Breast] explode all trees
#8	breast:ti,ab,kw (Word variations have been searched)
#9	#7 or #8
#10	(breast next milk):ti,ab,kw (Word variations have been searched)
#11	(breast next tender*):ti,ab,kw (Word variations have been searched)
#12	#10 or #11
#13	#9 not #12
#14	MeSH descriptor: [Neoplasms] explode all trees
#15	#13 and #14
#16	(breast* near/5 (neoplasm* or cancer* or tumo?r* or carcinoma* or adenocarcinoma* or sarcoma* or leiomyosarcoma* or dcis or duct* or infiltrat* or intraduct* or lobul* or medullary or tubular)):ti,ab,kw (Word variations have been searched)
#17	(mammar* near/5 (neoplasm* or cancer* or tumo?r* or carcinoma* or adenocarcinoma* or sarcoma* or leiomyosarcoma* or dcis or duct* or infiltrat* or intraduct* or lobul* or medullary or tubular)):ti,ab,kw (Word variations have been searched)
#18	MeSH descriptor: [Paget's Disease, Mammary] this term only
#19	(paget* and (breast* or mammary or nipple*)):ti,ab,kw (Word variations have been searched)
#20	#15 or #16 or #17 or #18 or #19
#21	#6 or #20
#22	MeSH descriptor: [Brachytherapy] explode all trees
#23	MeSH descriptor: [Radiotherapy, Conformal] explode all trees
#24	MeSH descriptor: [Radiotherapy, Intensity-Modulated] explode all trees
#25	((partial* or whole*) next breast*):ti,ab,kw (Word variations have been searched)
#26	((accelerat* or target*) near/3 (radiat* or irradiat* or radiotherap* or radiosurg* or brachytherap*)):ti,ab,kw (Word variations have been searched)
#27	(APBI* or PBI* or WBI*):ti,ab,kw (Word variations have been searched)
#28	((intraoperativ* or intra-operativ*) near/3 (radiat* or irradiat* or radiotherap* or radiosurg* or brachytherap*)):ti,ab,kw (Word variations have been searched)
#29	IORT*:ti,ab,kw (Word variations have been searched)
#30	mammosite:ti,ab,kw (Word variations have been searched)

#	Searches
#31	brachytherap*:ti,ab,kw (Word variations have been searched)
#32	(intensit* next modulat*):ti,ab,kw (Word variations have been searched)
#33	IMRT\$:ti,ab,kw (Word variations have been searched)
#34	((3D* or 3-D*) next conformal):ti,ab,kw (Word variations have been searched)
#35	#22 or #23 or #24 or #25 or #26 or #27 or #28 or #29 or #30 or #31 or #32 or #33 or #34
#36	#21 and #35

## F.15 Radiotherapy to the internal mammary nodes

Review question: What are the indications for radiotherapy to internal mammary nodes?

### F.15.1 Database: Medline

Last searched on **Epub Ahead of Print, In-Process & Other Non-Indexed Citations, Ovid MEDLINE(R) Daily and Ovid MEDLINE(R) 1946 to Present.**

Date of last search: 5 January 2017

#	Searches
1	exp Breast Neoplasms/
2	exp "Neoplasms, Ductal, Lobular, and Medullary"/
3	Carcinoma, Intraductal, Noninfiltrating/
4	Carcinoma, Lobular/
5	Carcinoma, Medullary/
6	1 or 2 or 3 or 4 or 5
7	exp Breast/
8	breast.tw.
9	7 or 8
10	(breast adj milk).tw.
11	(breast adj tender\$).tw.
12	10 or 11
13	9 not 12
14	exp Neoplasms/
15	13 and 14
16	(breast\$ adj5 (neoplasm\$ or cancer\$ or tumor?r\$ or carcinoma\$ or adenocarcinoma\$ or sarcoma\$ or leiomyosarcoma\$ or dcis or duct\$ or infiltrat\$ or intraduct\$ or lobul\$ or medullary or tubular)).mp.
17	(mammar\$ adj5 (neoplasm\$ or cancer\$ or tumor?r\$ or carcinoma\$ or adenocarcinoma\$ or sarcoma\$ or leiomyosarcoma\$ or dcis or duct\$ or infiltrat\$ or intraduct\$ or lobul\$ or medullary or tubular)).mp.
18	Paget's Disease, Mammary/
19	(paget\$ and (breast\$ or mammary or nipple\$)).tw.
20	15 or 16 or 17 or 18 or 19
21	6 or 20
22	exp Radiotherapy/
23	radiotherapy.fs.
24	(radiotherap\$ or radiat\$ or irradiat\$ or brachytherap\$ or tomotherap\$).mp.
25	(fractionat\$ or hyperfractionat\$ or hypofractionat\$).mp.
26	22 or 23 or 24 or 25

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#	Searches
27	21 and 26
28	Axilla/
29	Lymph Nodes/
30	Lymphatic Metastasis/
31	internal mammary.mp.
32	(supraclavicular or supraclavicule).mp.
33	28 or 29 or 30 or 31 or 32
34	27 and 33
35	((regional or node or nodal or lymph\$ or axill\$ or supraclavicul\$ or internal mammary or IMN) adj3 (radiotherap\$ or radiat\$ or irradiat\$ or RT or brachytherap\$ or tomotherap\$ or fractionat\$ or hyperfractionat\$ or hypofractionat\$)).tw.
36	Lymphatic Metastasis/rt [Radiotherapy]
37	35 or 36
38	21 and 37
39	34 or 38
40	limit 39 to yr="2006 -Current"
41	Limit 40 to RCTs and SRs, and general exclusions filter applied

### F.15.2 Database: Embase

Last searched on **Embase Classic+Embase** 1947 to 2017 January 04.

Date of last search: 5 January 2017

#	Searches
1	exp breast cancer/
2	exp breast carcinoma/
3	exp medullary carcinoma/
4	exp intraductal carcinoma/
5	exp breast tumor/
6	1 or 2 or 3 or 4 or 5
7	exp breast/
8	breast.tw.
9	7 or 8
10	(breast adj milk).tw.
11	(breast adj tender\$).tw.
12	10 or 11
13	9 not 12
14	exp neoplasm/
15	13 and 14
16	(breast\$ adj5 (neoplasm\$ or cancer\$ or tumo?r\$ or carcinoma\$ or adenocarcinoma\$ or sarcoma\$ or leiomyosarcoma\$ or dcis or duct\$ or infiltrat\$ or intraduct\$ or lobul\$ or medullary or tubular)).tw.
17	(mammar\$ adj5 (neoplasm\$ or cancer\$ or tumo?r\$ or carcinoma\$ or adenocarcinoma\$ or sarcoma\$ or leiomyosarcoma\$ or dcis or duct\$ or infiltrat\$ or intraduct\$ or lobul\$ or medullary or tubular)).tw.
18	exp Paget nipple disease/
19	(paget\$ and (breast\$ or mammary or nipple\$)).tw.
20	15 or 16 or 17 or 18 or 19

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#	Searches
21	6 or 20
22	exp radiotherapy/
23	radiotherapy.fs.
24	(radiotherap\$ or radiat\$ or irradiat\$ or brachytherap\$ or tomotherap\$).mp.
25	(fractionat\$ or hyperfractionat\$ or hypofractionat\$).mp.
26	22 or 23 or 24 or 25
27	21 and 26
28	axilla/
29	lymph node/
30	lymph node metastasis/
31	internal mammary.mp.
32	(supraclavicular or supraclavicule).mp.
33	28 or 29 or 30 or 31 or 32
34	27 and 33
35	((regional or node or nodal or lymph\$ or axill\$ or supraclavicul\$ or internal mammary or IMN) adj3 (radiotherap\$ or radiat\$ or irradiat\$ or RT or brachytherap\$ or tomotherap\$ or fractionat\$ or hyperfractionat\$ or hypofractionat\$)).tw.
36	lymph node metastasis/rt [Radiotherapy]
37	35 or 36
38	21 and 37
39	34 or 38
40	limit 39 to yr="2006 -Current"
41	Limit 40 to RCTs and SRs, and general exclusions filter applied

### F.15.3 Database: Cochrane Library via Wiley Online

Date of last search: 5 January 2017

#	Searches
#1	MeSH descriptor: [Breast Neoplasms] explode all trees
#2	MeSH descriptor: [Neoplasms, Ductal, Lobular, and Medullary] explode all trees
#3	MeSH descriptor: [Carcinoma, Intraductal, Noninfiltrating] explode all trees
#4	MeSH descriptor: [Carcinoma, Lobular] this term only
#5	MeSH descriptor: [Carcinoma, Medullary] this term only
#6	#1 or #2 or #3 or #4 or #5
#7	MeSH descriptor: [Breast] explode all trees
#8	breast:ti,ab,kw (Word variations have been searched)
#9	#7 or #8
#10	(breast next milk):ti,ab,kw (Word variations have been searched)
#11	(breast next tender*):ti,ab,kw (Word variations have been searched)
#12	#10 or #11
#13	#9 not #12
#14	MeSH descriptor: [Neoplasms] explode all trees
#15	#13 and #14
#16	(breast* near/5 (neoplasm* or cancer* or tumo?r* or carcinoma* or adenocarcinoma* or sarcoma* or leiomyosarcoma* or dcis or duct* or infiltrat* or intraduct* or lobul* or medullary or tubular)):ti,ab,kw (Word variations have been searched)
#17	(mammar* near/5 (neoplasm* or cancer* or tumo?r* or carcinoma* or adenocarcinoma* or

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#	Searches
	sarcoma* or leiomyosarcoma* or dcis or duct* or infiltrat* or intraduct* or lobul* or medullary or tubular):ti,ab,kw (Word variations have been searched)
#18	MeSH descriptor: [Paget's Disease, Mammary] this term only
#19	(paget* and (breast* or mammary or nipple*)):ti,ab,kw (Word variations have been searched)
#20	#15 or #16 or #17 or #18 or #19
#21	#6 or #20
#22	MeSH descriptor: [Radiotherapy] explode all trees
#23	(radiotherap* or radiat* or irradiat* or brachytherap* or tomotherap*):ti,ab,kw (Word variations have been searched)
#24	(fractionat* or hyperfractionat* or hypofractionat*):ti,ab,kw (Word variations have been searched)
#25	#22 or #23 or #24
#26	#21 and #25
#27	MeSH descriptor: [Axilla] this term only
#28	MeSH descriptor: [Lymph Nodes] this term only
#29	MeSH descriptor: [Lymphatic Metastasis] this term only
#30	internal mammary:ti,ab,kw (Word variations have been searched)
#31	(supraclavicular or supraclavicle):ti,ab,kw (Word variations have been searched)
#32	#27 or #28 or #29 or #30 or #31
#33	#26 and #32
#34	((regional or node or nodal or lymph* or axill* or supraclavicul* or internal mammary or IMN) near/3 (radiotherap* or radiat* or irradiat* or RT or brachytherap* or tomotherap* or fractionat* or hyperfractionat* or hypofractionat*)):ti,ab,kw (Word variations have been searched)
#35	MeSH descriptor: [Lymphatic Metastasis] explode all trees and with qualifier(s): [Radiotherapy - RT]
#36	#34 or #35
#37	#21 and #36
#38	#33 or #37 Publication Year from 2006 to 2017

## F.16 Post-mastectomy radiotherapy

Review question: What are the indications for post mastectomy radiotherapy for people with early and locally advanced breast cancer?

### F.16.1 Database: Medline & Embase (Multifile)

Last searched on **Embase** 1974 to 2017 March 01, **Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations and Ovid MEDLINE(R)** 1946 to Present.

Date of final search: 2 March 2017

#	Searches
1	exp breast cancer/ use oomezd
2	exp breast carcinoma/ use oomezd
3	exp medullary carcinoma/ use oomezd
4	exp intraductal carcinoma/ use oomezd
5	exp breast tumor/ use oomezd
6	exp Breast Neoplasms/ use prmz
7	exp "Neoplasms, Ductal, Lobular, and Medullary"/ use prmz
8	Carcinoma, Intraductal, Noninfiltrating/ use prmz

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#	Searches
9	Carcinoma, Lobular/ use prmz
10	Carcinoma, Medullary/ use prmz
11	1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10
12	exp breast/ use oomezd
13	exp Breast/ use prmz
14	breast.tw.
15	12 or 13 or 14
16	(breast adj milk).tw.
17	(breast adj tender\$).tw.
18	16 or 17
19	15 not 18
20	exp neoplasm/ use oomezd
21	exp Neoplasms/ use prmz
22	20 or 21
23	19 and 22
24	(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. use oomezd
25	(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. use oomezd
26	(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)).mp. use prmz
27	(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)).mp. use prmz
28	exp Paget nipple disease/ use oomezd
29	Paget's Disease, Mammary/ use prmz
30	(paget\$ and (breast\$ or mammary or nipple\$)).tw.
31	23 or 24 or 25 or 26 or 27 or 28 or 29 or 30
32	11 or 31
33	exp Radiotherapy/ use prmz
34	exp radiotherapy/ use oomezd
35	radiotherapy.fs.
36	(radiotherap\$ or radiat\$ or irradiat\$ or brachytherap\$ or tomotherap\$).mp.
37	(fractionat\$ or hyperfractionat\$ or hypofractionat\$).mp.
38	33 or 34 or 35 or 36 or 37
39	exp Mastectomy/ use prmz
40	exp mastectomy/ use oomezd
41	(mastectom\$ or post?mastectom\$ or post-mastectom\$ or postmastectom\$).mp.
42	(mammectom\$ or post?mammectom\$ or post-mammectom\$ or postmammectom\$).mp.
43	39 or 40 or 41 or 42
44	32 and 38 and 43
45	limit 44 to yr="1990 -Current"
46	remove duplicates from 45
47	Limit 46 to RCTs and SRs, and general exclusions filter applied



## F.16.2 Database: Cochrane Library via Wiley Online

Date of last search: 2 March 2017

#	Searches
#1	MeSH descriptor: [Breast Neoplasms] explode all trees
#2	MeSH descriptor: [Neoplasms, Ductal, Lobular, and Medullary] explode all trees
#3	MeSH descriptor: [Carcinoma, Intraductal, Noninfiltrating] explode all trees
#4	MeSH descriptor: [Carcinoma, Lobular] this term only
#5	MeSH descriptor: [Carcinoma, Medullary] this term only
#6	#1 or #2 or #3 or #4 or #5
#7	MeSH descriptor: [Breast] explode all trees
#8	breast:ti,ab,kw (Word variations have been searched)
#9	#7 or #8
#10	(breast next milk):ti,ab,kw (Word variations have been searched)
#11	(breast next tender*):ti,ab,kw (Word variations have been searched)
#12	#10 or #11
#13	#9 not #12
#14	MeSH descriptor: [Neoplasms] explode all trees
#15	#13 and #14
#16	(breast* near/5 (neoplasm* or cancer* or tumo?* or carcinoma* or adenocarcinoma* or sarcoma* or leiomyosarcoma* or dcis or duct* or infiltrat* or intraduct* or lobul* or medullary or tubular)):ti,ab,kw (Word variations have been searched)
#17	(mammar* near/5 (neoplasm* or cancer* or tumo?* or carcinoma* or adenocarcinoma* or sarcoma* or leiomyosarcoma* or dcis or duct* or infiltrat* or intraduct* or lobul* or medullary or tubular)):ti,ab,kw (Word variations have been searched)
#18	MeSH descriptor: [Paget's Disease, Mammary] this term only
#19	(paget* and (breast* or mammary or nipple*)):ti,ab,kw (Word variations have been searched)
#20	#15 or #16 or #17 or #18 or #19
#21	#6 or #20
#22	MeSH descriptor: [Radiotherapy] explode all trees
#23	(radiotherap* or radiat* or irradiat* or brachytherap* or tomotherap*):ti,ab,kw (Word variations have been searched)
#24	(fractionat* or hyperfractionat* or hypofractionat*):ti,ab,kw (Word variations have been searched)
#25	#22 or #23 or #24
#26	MeSH descriptor: [Mastectomy] explode all trees
#27	(mastectom* or post?mastectom* or post-mastectom* or postmastectom*):ti,ab,kw (Word variations have been searched)
#28	(mammectom* or post?mammectom* or post-mammectom* or postmammectom*):ti,ab,kw (Word variations have been searched)
#29	#26 or #27 or #28
#30	#21 and #25 and #29 Publication Year from 1990 to 2017

## F.17 Immediate versus delayed reconstruction

Review question: Should the potential need for radiotherapy preclude immediate breast reconstruction?

**F.17.1 Database: Medline & Embase (Multifile)**

Last searched on **Embase** 1974 to 2017 March 08, **Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations and Ovid MEDLINE(R)** 1946 to Present.

Date of last search: 9 March 2017

#	Searches
1	exp breast cancer/ use oomezd
2	exp breast carcinoma/ use oomezd
3	exp medullary carcinoma/ use oomezd
4	exp intraductal carcinoma/ use oomezd
5	exp breast tumor/ use oomezd
6	exp Breast Neoplasms/ use prmz
7	exp "Neoplasms, Ductal, Lobular, and Medullary"/ use prmz
8	Carcinoma, Intraductal, Noninfiltrating/ use prmz
9	Carcinoma, Lobular/ use prmz
10	Carcinoma, Medullary/ use prmz
11	1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10
12	exp breast/ use oomezd
13	exp Breast/ use prmz
14	breast.tw.
15	12 or 13 or 14
16	(breast adj milk).tw.
17	(breast adj tender\$).tw.
18	16 or 17
19	15 not 18
20	exp neoplasm/ use oomezd
21	exp Neoplasms/ use prmz
22	20 or 21
23	19 and 22
24	(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. use oomezd
25	(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. use oomezd
26	(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)).mp. use prmz
27	(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)).mp. use prmz
28	exp Paget nipple disease/ use oomezd
29	Paget's Disease, Mammary/ use prmz
30	(paget\$ and (breast\$ or mammary or nipple\$)).tw.
31	23 or 24 or 25 or 26 or 27 or 28 or 29 or 30
32	11 or 31
33	exp Radiotherapy/ use prmz
34	exp radiotherapy/ use oomezd

#	Searches
35	radiotherapy.fs.
36	(radiotherap\$ or radiat\$ or irradiat\$ or brachytherap\$ or tomotherap\$).mp.
37	(fractionat\$ or hyperfractionat\$ or hypofractionat\$).mp.
38	33 or 34 or 35 or 36 or 37
39	exp Mammoplasty/ use pmz
40	exp breast reconstruction/ use oomezd
41	exp breast endoprosthesis/ use oomezd
42	exp Reconstructive Surgical Procedures/ use pmz
43	exp Surgery, Plastic/ use pmz
44	plastic surgery/ use oomezd
45	exp Breast Implants/ use pmz
46	exp breast implant/ use oomezd
47	exp "Prostheses and Implants"/ use pmz
48	exp "prostheses and orthoses"/ use oomezd
49	exp Surgical Flaps/ use pmz
50	exp surgical flaps/ use oomezd
51	(mammoplast\$ or mammoplast*).tw.
52	(breast adj6 reconstruct\$).tw.
53	((immediat\$ or delay\$) adj6 reconstruct\$).tw.
54	or/39-53
55	32 and 38 and 54
56	(immediate\$ adj3 breast adj3 reconstruct\$).tw.
57	(delay\$ adj3 breast adj3 reconstruct\$).tw.
58	55 or 56 or 57
59	limit 58 to yr="2008 -Current"
60	remove duplicates from 59 [Then general exclusions filter applied]

### F.17.2 Database: Cochrane Library via Wiley Online

Date of last search: 9 March 2017

#	Searches
#1	MeSH descriptor: [Breast Neoplasms] explode all trees
#2	MeSH descriptor: [Neoplasms, Ductal, Lobular, and Medullary] explode all trees
#3	MeSH descriptor: [Carcinoma, Intraductal, Noninfiltrating] explode all trees
#4	MeSH descriptor: [Carcinoma, Lobular] this term only
#5	MeSH descriptor: [Carcinoma, Medullary] this term only
#6	#1 or #2 or #3 or #4 or #5
#7	MeSH descriptor: [Breast] explode all trees
#8	breast:ti,ab,kw (Word variations have been searched)
#9	#7 or #8
#10	(breast next milk):ti,ab,kw (Word variations have been searched)
#11	(breast next tender*):ti,ab,kw (Word variations have been searched)
#12	#10 or #11
#13	#9 not #12
#14	MeSH descriptor: [Neoplasms] explode all trees
#15	#13 and #14

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#	Searches
#16	(breast* near/5 (neoplasm* or cancer* or tumo?r* or carcinoma* or adenocarcinoma* or sarcoma* or leiomyosarcoma* or dcis or duct* or infiltrat* or intraduct* or lobul* or medullary or tubular)):ti,ab,kw (Word variations have been searched)
#17	(mammar* near/5 (neoplasm* or cancer* or tumo?r* or carcinoma* or adenocarcinoma* or sarcoma* or leiomyosarcoma* or dcis or duct* or infiltrat* or intraduct* or lobul* or medullary or tubular)):ti,ab,kw (Word variations have been searched)
#18	MeSH descriptor: [Paget's Disease, Mammary] this term only
#19	(paget* and (breast* or mammary or nipple*)):ti,ab,kw (Word variations have been searched)
#20	#15 or #16 or #17 or #18 or #19
#21	#6 or #20
#22	MeSH descriptor: [Radiotherapy] explode all trees
#23	(radiotherap* or radiat* or irradiat* or brachytherap* or tomotherap*):ti,ab,kw (Word variations have been searched)
#24	(fractionat* or hyperfractionat* or hypofractionat*):ti,ab,kw (Word variations have been searched)
#25	#22 or #23 or #24
#26	MeSH descriptor: [Mammoplasty] explode all trees
#27	MeSH descriptor: [Reconstructive Surgical Procedures] explode all trees
#28	MeSH descriptor: [Surgery, Plastic] explode all trees
#29	MeSH descriptor: [Breast Implants] explode all trees
#30	MeSH descriptor: [Prostheses and Implants] explode all trees
#31	MeSH descriptor: [Surgical Flaps] explode all trees
#32	(mammoplast* or mammoplast*):ti,ab,kw (Word variations have been searched)
#33	(breast near/6 reconstruct*):ti,ab,kw (Word variations have been searched)
#34	#26 or #27 or #28 or #29 or #30 or #31 or #32 or #33
#35	#21 and #25 and #34
#36	(immediate* near/6 breast near/6 reconstruct*):ti,ab,kw (Word variations have been searched)
#37	(delay* near/6 breast near/6 reconstruct*):ti,ab,kw (Word variations have been searched)
#38	((immediat* or delay*) near/6 reconstruct*):ti,ab,kw (Word variations have been searched)
#39	#21 and #38
#40	#36 or #37 or #39
#41	#35 or #40 Publication Year from 2008 to 2017

## F.18 Neoadjuvant chemotherapy

Review question: What is the effectiveness of neoadjuvant chemotherapy?

### F.18.1 Database: Medline & Embase (Multifile)

Last searched on **Embase** 1974 to 2017 September 27, **Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations and Ovid MEDLINE(R)** 1946 to Present.

Date of last search: 28 September 2017

#	Searches
1	exp breast cancer/ use oomezd
2	exp breast carcinoma/ use oomezd
3	exp medullary carcinoma/ use oomezd
4	exp intraductal carcinoma/ use oomezd

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#	Searches
5	exp breast tumor/ use oomezd
6	exp Breast Neoplasms/ use prmz
7	exp "Neoplasms, Ductal, Lobular, and Medullary"/ use prmz
8	Carcinoma, Intraductal, Noninfiltrating/ use prmz
9	Carcinoma, Lobular/ use prmz
10	Carcinoma, Medullary/ use prmz
11	1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10
12	exp breast/ use oomezd
13	exp Breast/ use prmz
14	breast.tw.
15	12 or 13 or 14
16	(breast adj milk).tw.
17	(breast adj tender\$).tw.
18	16 or 17
19	15 not 18
20	exp neoplasm/ use oomezd
21	exp Neoplasms/ use prmz
22	20 or 21
23	19 and 22
24	(breast\$ adj5 (neoplasm\$ or cancer\$ or tumo?r\$ or carcinoma\$ or adenocarcinoma\$ or sarcoma\$ or leiomyosarcoma\$ or dcis or duct\$ or infiltrat\$ or intraduct\$ or lobul\$ or medullary or tubular)).tw. use oomezd
25	(mammar\$ adj5 (neoplasm\$ or cancer\$ or tumo?r\$ or carcinoma\$ or adenocarcinoma\$ or sarcoma\$ or leiomyosarcoma\$ or dcis or duct\$ or infiltrat\$ or intraduct\$ or lobul\$ or medullary or tubular)).tw. use oomezd
26	(breast\$ adj5 (neoplasm\$ or cancer\$ or tumo?r\$ or carcinoma\$ or adenocarcinoma\$ or sarcoma\$ or leiomyosarcoma\$ or dcis or duct\$ or infiltrat\$ or intraduct\$ or lobul\$ or medullary or tubular)).mp. use prmz
27	(mammar\$ adj5 (neoplasm\$ or cancer\$ or tumo?r\$ or carcinoma\$ or adenocarcinoma\$ or sarcoma\$ or leiomyosarcoma\$ or dcis or duct\$ or infiltrat\$ or intraduct\$ or lobul\$ or medullary or tubular)).mp. use prmz
28	exp Paget nipple disease/ use oomezd
29	Paget's Disease, Mammary/ use prmz
30	(paget\$ and (breast\$ or mammary or nipple\$)).tw.
31	23 or 24 or 25 or 26 or 27 or 28 or 29 or 30
32	11 or 31
33	Neoadjuvant Therapy/ use prmz
34	neoadjuvant therapy/ use oomezd
35	neoadjuvant\$.mp.
36	(primary adj3 (chemotherap\$ or therap\$ or treatment\$)).mp.
37	(induct\$ adj3 (chemotherap\$ or therap\$ or treatment\$)).mp.
38	((perioperat\$ or peri-operat\$ or peri operat\$ or perisurg\$ or peri-surg\$ or peri surg\$ or preoperat\$ or pre-operat\$ or presurg\$ or pre-surg\$) adj3 (chemotherap\$ or therap\$ or treatment\$)).mp.
39	(initial adj3 (therap\$ or treatment\$)).mp.
40	(primary adj3 surg\$).mp.
41	33 or 34 or 35 or 36 or 37 or 38 or 39 or 40

#	Searches
42	32 and 41
43	exp Anthracyclines/ use prmz
44	exp anthracycline/ use oomezd
45	doxorubicin/ use oomezd
46	epirubicin/ use oomezd
47	idarubicin/ use oomezd
48	daunorubicin/ use oomezd
49	Mitoxantrone/ use prmz
50	mitoxantrone/ use oomezd
51	anthracyclin\$.mp.
52	(doxorubicin\$ or adriamycin\$ or doxil or caelyx or myocet or rubex or epirubicin\$ or ellence or idarubicin\$ or Zavedos or daunorubicin\$ or daunomycin\$ or cerubidin\$ or mitoxantron\$ or novantrone).mp.
53	43 or 44 or 45 or 46 or 47 or 48 or 49 or 50 or 51 or 52
54	42 and 53
55	(anthracyclin\$ or doxorubicin\$ or adriamycin\$ or doxil or caelyx or myocet or rubex or epirubicin\$ or ellence or idarubicin\$ or Zavedos or daunorubicin\$ or daunomycin\$ or cerubidin\$ or mitoxantron\$ or novantrone).m_titl.
56	(mastectom\$ or mamnectom\$ or surg\$).m_titl.
57	32 and 55 and 56
58	54 or 57
59	limit 58 to yr="1997 -Current"
60	remove duplicates from 59
61	Limit 60 to RCTs and SRs, and general exclusions filter applied

## F.18.2 Database: Cochrane Library via Wiley Online

Date of last search: 28 September 2017

#	Searches
#1	MeSH descriptor: [Breast Neoplasms] explode all trees
#2	MeSH descriptor: [Neoplasms, Ductal, Lobular, and Medullary] explode all trees
#3	MeSH descriptor: [Carcinoma, Intraductal, Noninfiltrating] explode all trees
#4	MeSH descriptor: [Carcinoma, Lobular] this term only
#5	MeSH descriptor: [Carcinoma, Medullary] this term only
#6	#1 or #2 or #3 or #4 or #5
#7	MeSH descriptor: [Breast] explode all trees
#8	breast:ti,ab,kw (Word variations have been searched)
#9	#7 or #8
#10	(breast next milk):ti,ab,kw (Word variations have been searched)
#11	(breast next tender*):ti,ab,kw (Word variations have been searched)
#12	#10 or #11
#13	#9 not #12
#14	MeSH descriptor: [Neoplasms] explode all trees
#15	#13 and #14
#16	(breast* near/5 (neoplasm* or cancer* or tumo?r* or carcinoma* or adenocarcinoma* or sarcoma* or leiomyosarcoma* or dcis or duct* or infiltrat* or intraduct* or lobul* or medullary or tubular)):ti,ab,kw (Word variations have been searched)

#	Searches
#17	(mammar* near/5 (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)):ti,ab,kw (Word variations have been searched)
#18	MeSH descriptor: [Paget's Disease, Mammary] this term only
#19	(paget* and (breast* or mammary or nipple*)):ti,ab,kw (Word variations have been searched)
#20	#15 or #16 or #17 or #18 or #19
#21	#6 or #20
#22	MeSH descriptor: [Neoadjuvant Therapy] explode all trees
#23	neoadjuvant*:ti,ab,kw (Word variations have been searched)
#24	((perioperat* or peri-operat* or peri operat* or perisurg* or peri-surg* or peri surg* or preoperat* or pre-operat* or presurg* or pre-surg* or primary or induct*) near/3 (chemotherap* or therap* or treatment*)):ti,ab,kw (Word variations have been searched)
#25	((primary or induct*) near/3 (chemotherap* or therap* or treatment*)):ti,ab,kw (Word variations have been searched)
#26	(initial near/3 (therap* or treatment*)):ti,ab,kw (Word variations have been searched)
#27	(primary near/3 surg*):ti,ab,kw (Word variations have been searched)
#28	#22 or #23 or #24 or #25 or #26 or #27
#29	MeSH descriptor: [Anthracyclines] explode all trees
#30	MeSH descriptor: [Mitoxantrone] explode all trees
#31	(anthracycline* or doxorubicin* or adriamycin* or doxil or caelyx or myocet or rubex or epirubicin* or ellence or idarubicin* or Zavedos or daunorubicin* or daunomycin* or cerubidin* or mitoxantron* or novantrone):ti,ab,kw (Word variations have been searched)
#32	#29 or #30 or #31
#33	#21 and #28 and #32
#34	(anthracycline* or doxorubicin* or adriamycin* or doxil or caelyx or myocet or rubex or epirubicin* or ellence or idarubicin* or Zavedos or daunorubicin* or daunomycin* or cerubidin* or mitoxantron* or novantrone):ti (Word variations have been searched)
#35	(mastectom* or mamectom* or surg*):ti,ab,kw (Word variations have been searched)
#36	#21 and #34 and #35
#37	#33 or #36

## F.19 Neoadjuvant endocrine therapy

Review question: Is there a benefit for neoadjuvant endocrine therapy for people with early and locally advanced breast cancer?

### F.19.1 Database: Medline & Embase (Multifile)

Last searched on **Embase** 1974 to 2017 September 28, **Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations** and **Ovid MEDLINE(R)** 1946 to Present.

Date of last search: 29 September 2017

#	Searches
1	exp breast cancer/ use oomezd
2	exp breast carcinoma/ use oomezd
3	exp medullary carcinoma/ use oomezd
4	exp intraductal carcinoma/ use oomezd
5	exp breast tumor/ use oomezd
6	exp Breast Neoplasms/ use prmz

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#	Searches
7	exp "Neoplasms, Ductal, Lobular, and Medullary"/ use prmz
8	Carcinoma, Intraductal, Noninfiltrating/ use prmz
9	Carcinoma, Lobular/ use prmz
10	Carcinoma, Medullary/ use prmz
11	1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10
12	exp breast/ use oomezd
13	exp Breast/ use prmz
14	breast.tw.
15	12 or 13 or 14
16	(breast adj milk).tw.
17	(breast adj tender\$.tw.
18	16 or 17
19	15 not 18
20	exp neoplasm/ use oomezd
21	exp Neoplasms/ use prmz
22	20 or 21
23	19 and 22
24	(breast\$ adj5 (neoplasm\$ or cancer\$ or tumor?r\$ or carcinoma\$ or adenocarcinoma\$ or sarcoma\$ or leiomyosarcoma\$ or dcis or duct\$ or infiltrat\$ or intraduct\$ or lobul\$ or medullary or tubular)).tw. use oomezd
25	(mammary\$ adj5 (neoplasm\$ or cancer\$ or tumor?r\$ or carcinoma\$ or adenocarcinoma\$ or sarcoma\$ or leiomyosarcoma\$ or dcis or duct\$ or infiltrat\$ or intraduct\$ or lobul\$ or medullary or tubular)).tw. use oomezd
26	(breast\$ adj5 (neoplasm\$ or cancer\$ or tumor?r\$ or carcinoma\$ or adenocarcinoma\$ or sarcoma\$ or leiomyosarcoma\$ or dcis or duct\$ or infiltrat\$ or intraduct\$ or lobul\$ or medullary or tubular)).mp. use prmz
27	(mammary\$ adj5 (neoplasm\$ or cancer\$ or tumor?r\$ or carcinoma\$ or adenocarcinoma\$ or sarcoma\$ or leiomyosarcoma\$ or dcis or duct\$ or infiltrat\$ or intraduct\$ or lobul\$ or medullary or tubular)).mp. use prmz
28	exp Paget nipple disease/ use oomezd
29	Paget's Disease, Mammary/ use prmz
30	(paget\$ and (breast\$ or mammary or nipple\$)).tw.
31	23 or 24 or 25 or 26 or 27 or 28 or 29 or 30
32	11 or 31
33	Neoadjuvant Therapy/ use prmz
34	neoadjuvant therapy/ use oomezd
35	neoadjuvant\$.tw.
36	(primary adj3 (chemotherap\$ or therap\$ or treatment\$)).tw.
37	(induct\$ adj3 (chemotherap\$ or therap\$ or treatment\$)).tw.
38	((perioperat\$ or peri-operat\$ or peri operat\$ or perisurg\$ or peri-surg\$ or peri surg\$ or preoperat\$ or pre-operat\$ or presurg\$ or pre-surg\$) adj3 (chemotherap\$ or therap\$ or treatment\$)).tw.
39	33 or 34 or 35 or 36 or 37 or 38
40	32 and 39
41	exp Aromatase Inhibitors/ use prmz
42	exp aromatase inhibitor/ use oomezd
43	aromatase inhibitor\$.mp.



#	Searches
44	anastrazole.mp.
45	arimidex.mp.
46	letrozole.mp.
47	femara.mp.
48	exemestane.mp.
49	aromasin.mp.
50	Tamoxifen/ use prmz
51	tamoxifen/ use oemezd
52	(Nolvadex or tamoxifen\$.mp.
53	41 or 42 or 43 or 44 or 45 or 46 or 47 or 48 or 49 or 50 or 51 or 52
54	40 and 53
55	((perioperat\$ or peri-operat\$ or peri operat\$ or perisurg\$ or peri-surg\$ or peri surg\$ or preoperat\$ or pre-operat\$ or presurg\$ or pre-surg\$) adj3 (tamoxifen\$ or aromatase\$ or AI\$)).tw.
56	32 and 55
57	54 or 56
58	(initial adj3 (therap\$ or treatment\$)).tw.
59	(primary adj3 surg\$).tw.
60	58 or 59
61	32 and 53 and 60
62	(aromatase inhibitor\$ or anastrazole or arimidex or letrozole or femara or exemestane or aromasin or Nolvadex or tamoxifen\$.m_titl.
63	(mastectom\$ or mamectom\$ or surg\$).m_titl.
64	32 and 62 and 63
65	57 or 61 or 64
66	limit 65 to yr="1997 -Current" [Then general exclusions filter applied]

### F.19.2 Database: Cochrane Library via Wiley Online

Date of last search: 29 September 2017

#	Searches
#1	MeSH descriptor: [Breast Neoplasms] explode all trees
#2	MeSH descriptor: [Neoplasms, Ductal, Lobular, and Medullary] explode all trees
#3	MeSH descriptor: [Carcinoma, Intraductal, Noninfiltrating] explode all trees
#4	MeSH descriptor: [Carcinoma, Lobular] this term only
#5	MeSH descriptor: [Carcinoma, Medullary] this term only
#6	#1 or #2 or #3 or #4 or #5
#7	MeSH descriptor: [Breast] explode all trees
#8	breast:ti,ab,kw (Word variations have been searched)
#9	#7 or #8
#10	(breast next milk):ti,ab,kw (Word variations have been searched)
#11	(breast next tender*):ti,ab,kw (Word variations have been searched)
#12	#10 or #11
#13	#9 not #12
#14	MeSH descriptor: [Neoplasms] explode all trees
#15	#13 and #14

#	Searches
#16	(breast* near/5 (neoplasm* or cancer* or tumo?r* or carcinoma* or adenocarcinoma* or sarcoma* or leiomyosarcoma* or dcis or duct* or infiltrat* or intraduct* or lobul* or medullary or tubular)):ti,ab,kw (Word variations have been searched)
#17	(mammar* near/5 (neoplasm* or cancer* or tumo?r* or carcinoma* or adenocarcinoma* or sarcoma* or leiomyosarcoma* or dcis or duct* or infiltrat* or intraduct* or lobul* or medullary or tubular)):ti,ab,kw (Word variations have been searched)
#18	MeSH descriptor: [Paget's Disease, Mammary] this term only
#19	(paget* and (breast* or mammary or nipple*)):ti,ab,kw (Word variations have been searched)
#20	#15 or #16 or #17 or #18 or #19
#21	#6 or #20
#22	MeSH descriptor: [Neoadjuvant Therapy] explode all trees
#23	neoadjuvant*:ti,ab,kw (Word variations have been searched)
#24	((perioperat* or peri-operat* or peri operat* or perisurg* or peri-surg* or peri surg* or preoperat* or pre-operat* or presurg* or pre-surg* or primary or induct*) near/3 (chemotherap* or therap* or treatment*)):ti,ab,kw (Word variations have been searched)
#25	((primary or induct*) near/3 (chemotherap* or therap* or treatment*)):ti,ab,kw (Word variations have been searched)
#26	#22 or #23 or #24 or #25
#27	MeSH descriptor: [Aromatase Inhibitors] explode all trees
#28	aromatase inhibitor*:ti,ab,kw (Word variations have been searched)
#29	(anastrozole or arimidex or letrozole or femara or exemestane or aromasin):ti,ab,kw (Word variations have been searched)
#30	MeSH descriptor: [Tamoxifen] this term only
#31	(Nolvadex or tamoxifen*):ti,ab,kw (Word variations have been searched)
#32	#27 or #28 or #29 or #30 or #31
#33	#21 and #26 and #32
#34	((perioperat* or peri-operat* or peri operat* or perisurg* or peri-surg* or peri surg* or preoperat* or pre-operat* or presurg* or pre-surg*) near/3 (tamoxifen* or aromatase* or AI*)):ti,ab,kw (Word variations have been searched)
#35	#21 and #34
#36	#33 or #35
#37	(initial near/3 (therap* or treatment*)):ti,ab,kw (Word variations have been searched)
#38	(primary near/3 surg*):ti,ab,kw (Word variations have been searched)
#39	#37 or #38
#40	#21 and #32 and #39
#41	(aromatase inhibitor* or anastrozole or arimidex or letrozole or femara or exemestane or aromasin or Nolvadex or tamoxifen*):ti (Word variations have been searched)
#42	(mastectom* or mamectom* or surg*):ti (Word variations have been searched)
#43	#21 and #41 and #42
#44	#36 or #40 or #43

## F.20 Post neoadjuvant chemotherapy post-mastectomy radiotherapy

Review question: What are the indications for post mastectomy radiotherapy following neoadjuvant systemic therapy?

**F.20.1 Database: Medline & Embase (Multifile)**

Last searched on **Embase** 1974 to 2017 September 27, **Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations and Ovid MEDLINE(R)** 1946 to Present.

Date of last search: 28 September 2017

#	Searches
1	exp breast cancer/ use oomezd
2	exp breast carcinoma/ use oomezd
3	exp medullary carcinoma/ use oomezd
4	exp intraductal carcinoma/ use oomezd
5	exp breast tumor/ use oomezd
6	exp Breast Neoplasms/ use prmz
7	exp "Neoplasms, Ductal, Lobular, and Medullary"/ use prmz
8	Carcinoma, Intraductal, Noninfiltrating/ use prmz
9	Carcinoma, Lobular/ use prmz
10	Carcinoma, Medullary/ use prmz
11	1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10
12	exp breast/ use oomezd
13	exp Breast/ use prmz
14	breast.tw.
15	12 or 13 or 14
16	(breast adj milk).tw.
17	(breast adj tender\$.tw.
18	16 or 17
19	15 not 18
20	exp neoplasm/ use oomezd
21	exp Neoplasms/ use prmz
22	20 or 21
23	19 and 22
24	(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. use oomezd
25	(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. use oomezd
26	(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)).mp. use prmz
27	(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)).mp. use prmz
28	exp Paget nipple disease/ use oomezd
29	Paget's Disease, Mammary/ use prmz
30	(paget\$ and (breast\$ or mammary or nipple\$)).tw.
31	23 or 24 or 25 or 26 or 27 or 28 or 29 or 30
32	11 or 31
33	exp Radiotherapy/ use prmz
34	exp radiotherapy/ use oomezd

#	Searches
35	radiotherapy.fs.
36	(radiotherap\$ or radiat\$ or irradiat\$ or brachytherap\$ or tomotherap\$).mp.
37	(fractionat\$ or hyperfractionat\$ or hypofractionat\$).mp.
38	33 or 34 or 35 or 36 or 37
39	exp Mastectomy/ use prmz
40	exp mastectomy/ use oomezd
41	(mastectom\$ or post?mastectom\$ or post-mastectom\$ or postmastectom\$).mp.
42	(mammectom\$ or post?mammectom\$ or post-mammectom\$ or postmammectom\$).mp.
43	39 or 40 or 41 or 42
44	32 and 38 and 43
45	Neoadjuvant Therapy/ use prmz
46	neoadjuvant therapy/ use oomezd
47	neoadjuvant\$.tw.
48	(primary adj3 (chemotherap\$ or therap\$ or treatment\$)).tw.
49	(induct\$ adj3 (chemotherap\$ or therap\$ or treatment\$)).tw.
50	((perioperat\$ or peri-operat\$ or peri operat\$ or perisurg\$ or peri-surg\$ or peri surg\$ or preoperat\$ or pre-operat\$ or presurg\$ or pre-surg\$) adj3 (chemotherap\$ or therap\$ or treatment\$)).tw.
51	or/45-50
52	44 and 51
53	remove duplicates from 52
54	limit 53 to yr="1990 -Current"

## F.20.2 Database: Cochrane Library via Wiley Online

Date of last search: 28 September 2017.

#	Searches
#1	MeSH descriptor: [Breast Neoplasms] explode all trees
#2	MeSH descriptor: [Neoplasms, Ductal, Lobular, and Medullary] explode all trees
#3	MeSH descriptor: [Carcinoma, Intraductal, Noninfiltrating] explode all trees
#4	MeSH descriptor: [Carcinoma, Lobular] this term only
#5	MeSH descriptor: [Carcinoma, Medullary] this term only
#6	#1 or #2 or #3 or #4 or #5
#7	MeSH descriptor: [Breast] explode all trees
#8	breast:ti,ab,kw (Word variations have been searched)
#9	#7 or #8
#10	(breast next milk):ti,ab,kw (Word variations have been searched)
#11	(breast next tender*):ti,ab,kw (Word variations have been searched)
#12	#10 or #11
#13	#9 not #12
#14	MeSH descriptor: [Neoplasms] explode all trees
#15	#13 and #14
#16	(breast* near/5 (neoplasm* or cancer* or tumo?r* or carcinoma* or adenocarcinoma* or sarcoma* or leiomyosarcoma* or dcis or duct* or infiltrat* or intraduct* or lobul* or medullary or tubular)):ti,ab,kw (Word variations have been searched)
#17	(mammar* near/5 (neoplasm* or cancer* or tumo?r* or carcinoma* or adenocarcinoma* or sarcoma* or leiomyosarcoma* or dcis or duct* or infiltrat* or intraduct* or lobul* or medullary

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#	Searches
	or tubular)):ti,ab,kw (Word variations have been searched)
#18	MeSH descriptor: [Paget's Disease, Mammary] this term only
#19	(paget* and (breast* or mammary or nipple*)):ti,ab,kw (Word variations have been searched)
#20	#15 or #16 or #17 or #18 or #19
#21	#6 or #20
#22	MeSH descriptor: [Radiotherapy] explode all trees
#23	(radiotherap* or radiat* or irradiat* or brachytherap* or tomotherap*):ti,ab,kw (Word variations have been searched)
#24	(fractionat* or hyperfractionat* or hypofractionat*):ti,ab,kw (Word variations have been searched)
#25	#22 or #23 or #24
#26	MeSH descriptor: [Mastectomy] explode all trees
#27	(mastectom* or post?mastectom* or post-mastectom* or postmastectom*):ti,ab,kw (Word variations have been searched)
#28	(mammectom* or post?mammectom* or post-mammectom* or postmammectom*):ti,ab,kw (Word variations have been searched)
#29	#26 or #27 or #28
#30	#21 and #25 and #29 Publication Year from 1990 to 2017
#31	MeSH descriptor: [Neoadjuvant Therapy] explode all trees
#32	neoadjuvant*:ti,ab,kw (Word variations have been searched)
#33	((perioperat* or peri-operat* or peri operat* or perisurg* or peri-surg* or peri surg* or preoperat* or pre-operat* or presurg* or pre-surg* or primary or induct*) near/3 (chemotherap* or therap* or treatment*)):ti,ab,kw (Word variations have been searched)
#34	#31 or #32 or #33
#35	#30 and #34

## F.21 Platinum chemotherapy

Review question: Do people with triple negative or BRCA germ line mutation with early and locally advanced breast cancer benefit from the addition of a platinum to anthracycline ( $\pm$  taxanes) based neo-adjuvant chemotherapy?

### F.21.1 Database: Medline & Embase (Multifile)

Last searched on **Embase** 1974 to 2017 September 27, **Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations and Ovid MEDLINE(R)** 1946 to Present.

Date of last search: 28 September 2017.

#	Searches
1	exp breast cancer/ use oomezd
2	exp breast carcinoma/ use oomezd
3	exp medullary carcinoma/ use oomezd
4	exp intraductal carcinoma/ use oomezd
5	exp breast tumor/ use oomezd
6	exp Breast Neoplasms/ use prmz
7	exp "Neoplasms, Ductal, Lobular, and Medullary"/ use prmz
8	Carcinoma, Intraductal, Noninfiltrating/ use prmz
9	Carcinoma, Lobular/ use prmz

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#	Searches
10	Carcinoma, Medullary/ use prmz
11	1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10
12	exp breast/ use oomezd
13	exp Breast/ use prmz
14	breast.tw.
15	12 or 13 or 14
16	(breast adj milk).tw.
17	(breast adj tender\$.tw.
18	16 or 17
19	15 not 18
20	exp neoplasm/ use oomezd
21	exp Neoplasms/ use prmz
22	20 or 21
23	19 and 22
24	(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. use oomezd
25	(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. use oomezd
26	(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)).mp. use prmz
27	(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)).mp. use prmz
28	exp Paget nipple disease/ use oomezd
29	Paget's Disease, Mammary/ use prmz
30	(paget\$ and (breast\$ or mammary or nipple\$)).tw.
31	23 or 24 or 25 or 26 or 27 or 28 or 29 or 30
32	11 or 31
33	Neoadjuvant Therapy/ use prmz
34	neoadjuvant therapy/ use oomezd
35	neoadjuvant\$.tw.
36	(primary adj3 (chemotherap\$ or therap\$ or treatment\$)).tw.
37	(induct\$ adj3 (chemotherap\$ or therap\$ or treatment\$)).tw.
38	((perioperat\$ or peri-operat\$ or peri operat\$ or perisurg\$ or peri-surg\$ or peri surg\$ or preoperat\$ or pre-operat\$ or presurg\$ or pre-surg\$) adj3 (chemotherap\$ or therap\$ or treatment\$)).tw.
39	33 or 34 or 35 or 36 or 37 or 38
40	Cisplatin/ use prmz
41	cisplatin/ use oomezd
42	Carboplatin/ use prmz
43	carboplatin/ use oomezd
44	Platinum/ use prmz
45	Platinum Compounds/ use prmz
46	platinum/ use oomezd

#	Searches
47	platinum derivative/ use oemezd
48	(platin\$ or cisplatin\$ or platinol\$ or carboplatin\$ or paraplatin\$ or platidium\$).tw.
49	(nsc-119875 or nsc-241240 or cbdca or jm-8).tw.
50	(biocisplatinum or dichlorodiammineplatinum or diamminedichloroplatinum).tw.
51	(cis-diamminedichloroplatinum or cis-dichlorodiammineplatinum or cis-platinum).tw.
52	40 or 41 or 42 or 43 or 44 or 45 or 46 or 47 or 48 or 49 or 50 or 51
53	Triple Negative Breast Neoplasms/ use prmz
54	triple negative breast cancer/ use oemezd
55	((triple or double) adj3 negativ\$).tw.
56	TNBC.tw.
57	(basal\$ adj (like\$ or type\$ or subtype\$)).tw.
58	(BRCA\$ adj (mutat\$ or alter\$)).tw.
59	55 or 57 or 58
60	32 and 59
61	53 or 54 or 56 or 60
62	32 and 39 and 52
63	32 and 52 and 61
64	62 or 63
65	limit 64 to yr="1995 -Current"
66	remove duplicates from 65
67	Limit 66 to RCTs and SRs, and general exclusions filter applied

## F.21.2 Database: Cochrane Library via Wiley Online

Date of last search: 28 September 2017.

#	Searches
#1	MeSH descriptor: [Breast Neoplasms] explode all trees
#2	MeSH descriptor: [Neoplasms, Ductal, Lobular, and Medullary] explode all trees
#3	MeSH descriptor: [Carcinoma, Intraductal, Noninfiltrating] explode all trees
#4	MeSH descriptor: [Carcinoma, Lobular] this term only
#5	MeSH descriptor: [Carcinoma, Medullary] this term only
#6	#1 or #2 or #3 or #4 or #5
#7	MeSH descriptor: [Breast] explode all trees
#8	breast:ti,ab,kw (Word variations have been searched)
#9	#7 or #8
#10	(breast next milk):ti,ab,kw (Word variations have been searched)
#11	(breast next tender*):ti,ab,kw (Word variations have been searched)
#12	#10 or #11
#13	#9 not #12
#14	MeSH descriptor: [Neoplasms] explode all trees
#15	#13 and #14
#16	(breast* near/5 (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)):ti,ab,kw (Word variations have been searched)
#17	(mammar* near/5 (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)):ti,ab,kw (Word variations have been searched)

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#	Searches
#18	MeSH descriptor: [Paget's Disease, Mammary] this term only
#19	(paget* and (breast* or mammary or nipple*)):ti,ab,kw (Word variations have been searched)
#20	#15 or #16 or #17 or #18 or #19
#21	#6 or #20
#22	MeSH descriptor: [Cisplatin] explode all trees
#23	MeSH descriptor: [Carboplatin] explode all trees
#24	MeSH descriptor: [Platinum] explode all trees
#25	MeSH descriptor: [Platinum Compounds] explode all trees
#26	(platin* or cisplatin* or platino* or carboplatin* or paraplatin* or platidiam*):ti,ab,kw (Word variations have been searched)
#27	(nsc-119875 or nsc-241240 or cbdca or jm-8):ti,ab,kw (Word variations have been searched)
#28	(biocisplatinum or dichlorodiammineplatinum or diamminedichloroplatinum):ti,ab,kw (Word variations have been searched)
#29	(cis-diamminedichloroplatinum or cis-dichlorodiammineplatinum or cis-platinum):ti,ab,kw (Word variations have been searched)
#30	#22 or #23 or #24 or #25 or #26 or #27 or #28 or #29
#31	#21 and #30 Publication Year from 1995 to 2017

## F.22 Lifestyle

Review question: What lifestyle changes improve breast cancer-specific outcomes in people treated for early and locally advanced breast cancer?

### F.22.1 Database: Medline & Embase (Multifile)

Last searched on **Embase** 1974 to 2017 September 12, **Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations and Ovid MEDLINE(R)** 1946 to Present.

Date of last search: 13 September 2017.

#	Searches
1	exp breast cancer/ use oomezd
2	exp breast carcinoma/ use oomezd
3	exp medullary carcinoma/ use oomezd
4	exp intraductal carcinoma/ use oomezd
5	exp breast tumor/ use oomezd
6	exp Breast Neoplasms/ use prmz
7	exp "Neoplasms, Ductal, Lobular, and Medullary"/ use prmz
8	Carcinoma, Intraductal, Noninfiltrating/ use prmz
9	Carcinoma, Lobular/ use prmz
10	Carcinoma, Medullary/ use prmz
11	1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10
12	exp breast/ use oomezd
13	exp Breast/ use prmz
14	breast.tw.
15	12 or 13 or 14
16	(breast adj milk).tw.

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#	Searches
17	(breast adj tender\$.tw.
18	16 or 17
19	15 not 18
20	exp neoplasm/ use oomezd
21	exp Neoplasms/ use prmz
22	20 or 21
23	19 and 22
24	(breast\$ adj5 (neoplasm\$ or cancer\$ or tumo?r\$ or carcinoma\$ or adenocarcinoma\$ or sarcoma\$ or leiomyosarcoma\$ or dcis or duct\$ or infiltrat\$ or intraduct\$ or lobul\$ or medullary or tubular)).tw. use oomezd
25	(mammar\$ adj5 (neoplasm\$ or cancer\$ or tumo?r\$ or carcinoma\$ or adenocarcinoma\$ or sarcoma\$ or leiomyosarcoma\$ or dcis or duct\$ or infiltrat\$ or intraduct\$ or lobul\$ or medullary or tubular)).tw. use oomezd
26	(breast\$ adj5 (neoplasm\$ or cancer\$ or tumo?r\$ or carcinoma\$ or adenocarcinoma\$ or sarcoma\$ or leiomyosarcoma\$ or dcis or duct\$ or infiltrat\$ or intraduct\$ or lobul\$ or medullary or tubular)).mp. use prmz
27	(mammar\$ adj5 (neoplasm\$ or cancer\$ or tumo?r\$ or carcinoma\$ or adenocarcinoma\$ or sarcoma\$ or leiomyosarcoma\$ or dcis or duct\$ or infiltrat\$ or intraduct\$ or lobul\$ or medullary or tubular)).mp. use prmz
28	exp Paget nipple disease/ use oomezd
29	Paget's Disease, Mammary/ use prmz
30	(paget\$ and (breast\$ or mammary or nipple\$)).tw.
31	23 or 24 or 25 or 26 or 27 or 28 or 29 or 30
32	11 or 31
33	exp Smoking Cessation/ use prmz
34	exp "Tobacco Use Cessation"/ use prmz
35	exp "Tobacco Use Cessation Products"/ use prmz
36	exp "Tobacco Use Disorder"/ use prmz
37	Smoking/pc, th use prmz
38	exp smoking cessation/ use oomezd
39	exp nicotine gum/ use oomezd
40	exp smoking/pc, th use oomezd
41	(smoking adj3 (cessation or ceas\$ or intervention or withdrawal or quit\$ or stop\$ or reduc\$)).tw.
42	Weight Loss/ use prmz
43	weight reduction/ use oomezd
44	Weight Reduction Programs/ use prmz
45	weight loss program/ use oomezd
46	((caloric or hypocaloric) adj2 (restrict* or diet*)).tw.
47	(weight adj3 (los\$ or reduc\$ or manag\$ or intervention)).tw.
48	exp Diet Therapy/ use prmz
49	exp diet therapy/ use oomezd
50	Energy Intake/ use prmz
51	dietary intake/ use oomezd
52	(diet\$ adj3 (manag\$ or intervention or modif\$)).tw.
53	((health\$ adj eat\$) or (eat\$ adj health\$)).tw.
54	(balanced adj diet\$.tw.

#	Searches
55	Alcohol Drinking/ use prmz
56	exp Drinking Behavior/ use prmz
57	drinking behavior/ use oomezd
58	((alcohol\$ or drink\$) adj3 (cessation or ceas\$ or intervention or withdrawal or quit\$ or stop\$)).tw.
59	((alcohol\$ or drink\$) adj (level\$ or consumption)).tw.
60	exp Life Style/ use prmz
61	exp lifestyle/ use oomezd
62	lifestyle modification/ use oomezd
63	((lifestyle\$ or life-style\$) adj3 (advice\$ or intervention\$ or modif\$ or change\$ or recommend\$)).tw.
64	Health Behavior/ use prmz
65	health behavior/ use oomezd
66	exp Cognitive Therapy/ use prmz
67	*Behavior Therapy/ use prmz
68	exp cognitive behavioral therapy/ use oomezd
69	*behavior therapy/ use oomezd
70	((behaviour\$ or behavior\$ or psycholog\$) adj3 (advice\$ or intervention\$ or modif\$ or change\$ or recommend\$)).tw.
71	Stress, Psychological/ use prmz
72	exp Adaptation, Psychological/ use prmz
73	exp Mind-Body Therapies/ use prmz
74	stress management/ use oomezd
75	adaptive behavior/ use oomezd
76	alternative medicine/ use oomezd
77	(stress adj3 (manag\$ or intervention\$ or recommend\$)).tw.
78	exp Exercise/ use prmz
79	exp Exercise Movement Techniques/ use prmz
80	exp Exercise Therapy/ use prmz
81	exp exercise/ use oomezd
82	exp kinesiotherapy/ use oomezd
83	exp physical activity/ use oomezd
84	((exercis\$ or activit\$) adj3 (advice\$ or intervention\$ or modif\$ or change\$ or recommend\$ or manag\$)).tw.
85	or/33-84
86	32 and 85
87	quality-adjusted life years/ use prmz
88	quality adjusted life year/ use oomezd
89	"quality of life index"/ use oomezd
90	short form 12/ or short form 20/ or short form 36/ or short form 8/ use oomezd
91	sickness impact profile/ use prmz
92	sickness impact profile/ use oomezd
93	(quality adj2 (wellbeing or well being)).ti,ab.
94	sickness impact profile.ti,ab.
95	disability adjusted life.ti,ab.
96	(qal* or qtime* or qwb* or daly*).ti,ab.

#	Searches
97	(euroqol* or eq5d* or eq 5*).ti,ab.
98	(qol* or hql* or hqol* or h qol* or hrqol* or hr qol*).ti,ab.
99	(health utility* or utility score* or disutilit* or utility value*).ti,ab.
100	(hui or hui1 or hui2 or hui3).ti,ab.
101	(health* year* equivalent* or hye or hyes).ti,ab.
102	discrete choice*.ti,ab.
103	rosser.ti,ab.
104	(willingness to pay or time tradeoff or time trade off or tto or standard gamble*).ti,ab.
105	(sf36* or sf 36* or short form 36* or shortform 36* or shortform36*).ti,ab.
106	(sf20 or sf 20 or short form 20 or shortform 20 or shortform20).ti,ab.
107	(sf12* or sf 12* or short form 12* or shortform 12* or shortform12*).ti,ab.
108	(sf8* or sf 8* or short form 8* or shortform 8* or shortform8*).ti,ab.
109	(sf6* or sf 6* or short form 6* or shortform 6* or shortform6*).ti,ab.
110	87 or 88 or 89 or 90 or 91 or 92 or 93 or 94 or 95 or 96 or 97 or 98 or 99 or 100 or 101 or 102 or 103 or 104 or 105 or 106 or 107 or 108 or 109
111	disease-free survival/ use prmz
112	disease free survival/ use oomezd
113	recurrence free survival/ use oomezd
114	(disease\$ adj free\$ adj surviv\$).tw.
115	(relaps\$ adj free\$ adj surviv\$).tw.
116	(recurren\$ adj free\$ adj surviv\$).tw.
117	(DFS or DF SR).tw.
118	(RFS or RF SR).tw.
119	((disease\$ adj free\$) or (relaps\$ adj free\$) or (recurren\$ adj free\$)).tw.
120	*cancer survival/ use oomezd
121	cancer specific survival/ use oomezd
122	(breast\$ adj cancer\$ adj survival).tw.
123	(breast\$ adj cancer\$ adj specific\$).tw.
124	111 or 112 or 113 or 114 or 115 or 116 or 117 or 118 or 119 or 120 or 121 or 122 or 123
125	meta-analysis/
126	meta-analysis as topic/
127	systematic review/
128	meta-analysis/
129	(meta analy* or metanaly* or metaanaly*).ti,ab.
130	((systematic or evidence) adj2 (review* or overview*)).ti,ab.
131	((systematic* or evidence*) adj2 (review* or overview*)).ti,ab.
132	(reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab.
133	(search strategy or search criteria or systematic search or study selection or data extraction).ab.
134	(search* adj4 literature).ab.
135	(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.
136	cochrane.jw.
137	((pool* or combined) adj2 (data or trials or studies or results)).ab.
138	or/125-126,129,131-136 use prmz
139	or/127-130,132-137 use oomezd

#	Searches
140	138 or 139
141	86 and 110
142	86 and 124
143	86 and 140
144	survival.tw.
145	143 and 144
146	141 or 142 or 145
147	remove duplicates from 146 [and general exclusions filter applied]

## F.22.2 Database: Cochrane Library via Wiley Online

Date of last search: 13 September 2017

#	Searches
#1	MeSH descriptor: [Breast Neoplasms] explode all trees
#2	MeSH descriptor: [Neoplasms, Ductal, Lobular, and Medullary] explode all trees
#3	MeSH descriptor: [Carcinoma, Intraductal, Noninfiltrating] explode all trees
#4	MeSH descriptor: [Carcinoma, Lobular] this term only
#5	MeSH descriptor: [Carcinoma, Medullary] this term only
#6	#1 or #2 or #3 or #4 or #5
#7	MeSH descriptor: [Breast] explode all trees
#8	breast:ti,ab,kw (Word variations have been searched)
#9	#7 or #8
#10	(breast next milk):ti,ab,kw (Word variations have been searched)
#11	(breast next tender*):ti,ab,kw (Word variations have been searched)
#12	#10 or #11
#13	#9 not #12
#14	MeSH descriptor: [Neoplasms] explode all trees
#15	#13 and #14
#16	(breast* near/5 (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)):ti,ab,kw (Word variations have been searched)
#17	(mammar* near/5 (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)):ti,ab,kw (Word variations have been searched)
#18	MeSH descriptor: [Paget's Disease, Mammary] this term only
#19	(paget* and (breast* or mammary or nipple*)):ti,ab,kw (Word variations have been searched)
#20	#15 or #16 or #17 or #18 or #19
#21	#6 or #20
#22	MeSH descriptor: [Smoking Cessation] explode all trees
#23	MeSH descriptor: [Tobacco Use Cessation] explode all trees
#24	MeSH descriptor: [Tobacco Use Cessation Products] explode all trees
#25	MeSH descriptor: [Tobacco Use Disorder] explode all trees
#26	(smoking near/3 (cessation or ceas* or intervention or withdrawal or quit* or stop* or reduc*)):ti,ab,kw (Word variations have been searched)
#27	MeSH descriptor: [Weight Loss] this term only
#28	MeSH descriptor: [Weight Reduction Programs] this term only

#	Searches
#29	(weight near/3 (los* or reduc* or manag* or intervention)):ti,ab,kw (Word variations have been searched)
#30	((caloric or hypocaloric) near/2 (restrict* or diet*)):ti,ab,kw (Word variations have been searched)
#31	MeSH descriptor: [Diet Therapy] explode all trees
#32	MeSH descriptor: [Energy Intake] this term only
#33	(diet* near/3 (manag* or intervention or modif*)):ti,ab,kw (Word variations have been searched)
#34	((health* next eat* or (eat* next health*)):ti,ab,kw (Word variations have been searched)
#35	(balanced next diet*):ti,ab,kw (Word variations have been searched)
#36	MeSH descriptor: [Alcohol Drinking] this term only
#37	MeSH descriptor: [Drinking Behavior] explode all trees
#38	((alcohol* or drink*) near/3 (cessation or ceas* or intervention or withdrawal or quit* or stop*)):ti,ab,kw (Word variations have been searched)
#39	((alcohol* or drink*) next (level* or consumption)):ti,ab,kw (Word variations have been searched)
#40	MeSH descriptor: [Life Style] explode all trees
#41	((lifestyle* or life-style*) near/3 (advice* or intervention* or modif* or change* or recommend*)):ti,ab,kw (Word variations have been searched)
#42	MeSH descriptor: [Health Behavior] this term only
#43	MeSH descriptor: [Cognitive Therapy] explode all trees
#44	MeSH descriptor: [Behavior Therapy] this term only
#45	((behaviour* or behavior* or psycholog*) near/3 (advice* or intervention* or modif* or change* or recommend*)):ti,ab,kw (Word variations have been searched)
#46	MeSH descriptor: [Stress, Psychological] this term only
#47	MeSH descriptor: [Adaptation, Psychological] explode all trees
#48	MeSH descriptor: [Mind-Body Therapies] explode all trees
#49	(stress near/3 (manag* or intervention* or recommend*)):ti,ab,kw (Word variations have been searched)
#50	MeSH descriptor: [Exercise] explode all trees
#51	MeSH descriptor: [Exercise Movement Techniques] explode all trees
#52	MeSH descriptor: [Exercise Therapy] explode all trees
#53	((exercis* or activit*) near/3 (advice* or intervention* or modif* or change* or recommend* or manag*)):ti,ab,kw (Word variations have been searched)
#54	#22 or #23 or #24 or #25 or #26 or #27 or #28 or #29 or #30 or #31 or #32 or #33 or #34 or #35 or #36 or #37 or #38 or #39 or #40 or #41 or #42 or #43 or #44 or #45 or #46 or #47 or #48 or #49 or #50 or #51 or #52 or #53
#55	#21 and #54

## Appendix G: Health economics global search

### G.1 Database: Medline

Last searched on **Epub Ahead of Print, In-Process & Other Non-Indexed Citations, Ovid MEDLINE(R) Daily and Ovid MEDLINE(R) 1946 to Present.**

Date of last search: 29 September 2017.

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#	Searches
1	exp Breast Neoplasms/
2	exp "Neoplasms, Ductal, Lobular, and Medullary"/
3	Carcinoma, Intraductal, Noninfiltrating/
4	Carcinoma, Lobular/
5	Carcinoma, Medullary/
6	1 or 2 or 3 or 4 or 5
7	exp Breast/
8	breast.tw.
9	7 or 8
10	(breast adj milk).tw.
11	(breast adj tender\$.tw.
12	10 or 11
13	9 not 12
14	exp Neoplasms/
15	13 and 14
16	(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)).mp.
17	(mammary\$ 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)).mp.
18	Paget's Disease, Mammary/
19	(paget\$ and (breast\$ or mammary or nipple\$)).tw.
20	15 or 16 or 17 or 18 or 19
21	6 or 20
22	Economics/
23	"costs and cost analysis"/
24	Cost allocation/
25	Cost-benefit analysis/
26	Cost control/
27	Cost savings/
28	Cost of illness/
29	Cost sharing/
30	"deductibles and coinsurance"/
31	Medical savings accounts/
32	Health care costs/
33	Direct service costs/
34	Drug costs/
35	Employer health costs/
36	Hospital costs/
37	Health expenditures/
38	Capital expenditures/
39	Value of life/
40	exp economics, hospital/
41	exp economics, medical/
42	Economics, nursing/

#	Searches
43	Economics, pharmaceutical/
44	exp "fees and charges"/
45	exp budgets/
46	(low adj cost).mp.
47	(high adj cost).mp.
48	(health?care adj cost\$).mp.
49	(fiscal or funding or financial or finance).tw.
50	(cost adj estimate\$).mp.
51	(cost adj variable).mp.
52	(unit adj cost\$).mp.
53	(economic\$ or pharmacoeconomic\$ or price\$ or pricing).tw.
54	22 or 23 or 24 or 25 or 26 or 27 or 28 or 29 or 30 or 31 or 32 or 33 or 34 or 35 or 36 or 37 or 38 or 39 or 40 or 41 or 42 or 43 or 44 or 45 or 46 or 47 or 48 or 49 or 50 or 51 or 52 or 53
55	letter.pt.
56	editorial.pt.
57	historical article.pt.
58	55 or 56 or 57
59	54 not 58
60	21 and 59

## G.2 Database: Health Technology Assessment

Last searched on **Health Technology Assessment Database: Issue 4 of 4, October 2016** via Wiley Online.

Date of last search: 29 September 2017

#	Searches
#1	MeSH descriptor: [Breast Neoplasms] explode all trees
#2	MeSH descriptor: [Neoplasms, Ductal, Lobular, and Medullary] explode all trees
#3	MeSH descriptor: [Carcinoma, Intraductal, Noninfiltrating] explode all trees
#4	MeSH descriptor: [Carcinoma, Lobular] this term only
#5	MeSH descriptor: [Carcinoma, Medullary] this term only
#6	#1 or #2 or #3 or #4 or #5
#7	MeSH descriptor: [Breast] explode all trees
#8	breast:ti,ab,kw (Word variations have been searched)
#9	#7 or #8
#10	(breast next milk):ti,ab,kw (Word variations have been searched)
#11	(breast next tender*):ti,ab,kw (Word variations have been searched)
#12	#10 or #11
#13	#9 not #12
#14	MeSH descriptor: [Neoplasms] explode all trees
#15	#13 and #14
#16	(breast* near/5 (neoplasm* or cancer* or tumo?r* or carcinoma* or adenocarcinoma* or sarcoma* or leiomyosarcoma* or dcis or duct* or infiltrat* or intraduct* or lobul* or medullary or tubular)):ti,ab,kw (Word variations have been searched)
#17	(mammar* near/5 (neoplasm* or cancer* or tumo?r* or carcinoma* or adenocarcinoma* or

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#	Searches
	sarcoma* or leiomyosarcoma* or dcis or duct* or infiltrat* or intraduct* or lobul* or medullary or tubular):ti,ab,kw (Word variations have been searched)
#18	MeSH descriptor: [Paget's Disease, Mammary] this term only
#19	(paget* and (breast* or mammary or nipple*)):ti,ab,kw (Word variations have been searched)
#20	#15 or #16 or #17 or #18 or #19
#21	#6 or #20

### G.3 Database: NHS Economic Evaluation Database

Last searched on **NHS Economic Evaluation Database: Issue 2 of 4, April 2015** via Wiley Online.

Date of last search: 29 September 2017

#	Searches
#1	MeSH descriptor: [Breast Neoplasms] explode all trees
#2	MeSH descriptor: [Neoplasms, Ductal, Lobular, and Medullary] explode all trees
#3	MeSH descriptor: [Carcinoma, Intraductal, Noninfiltrating] explode all trees
#4	MeSH descriptor: [Carcinoma, Lobular] this term only
#5	MeSH descriptor: [Carcinoma, Medullary] this term only
#6	#1 or #2 or #3 or #4 or #5
#7	MeSH descriptor: [Breast] explode all trees
#8	breast:ti,ab,kw (Word variations have been searched)
#9	#7 or #8
#10	(breast next milk):ti,ab,kw (Word variations have been searched)
#11	(breast next tender*):ti,ab,kw (Word variations have been searched)
#12	#10 or #11
#13	#9 not #12
#14	MeSH descriptor: [Neoplasms] explode all trees
#15	#13 and #14
#16	(breast* near/5 (neoplasm* or cancer* or tumo?* or carcinoma* or adenocarcinoma* or sarcoma* or leiomyosarcoma* or dcis or duct* or infiltrat* or intraduct* or lobul* or medullary or tubular)):ti,ab,kw (Word variations have been searched)
#17	(mammar* near/5 (neoplasm* or cancer* or tumo?* or carcinoma* or adenocarcinoma* or sarcoma* or leiomyosarcoma* or dcis or duct* or infiltrat* or intraduct* or lobul* or medullary or tubular)):ti,ab,kw (Word variations have been searched)
#18	MeSH descriptor: [Paget's Disease, Mammary] this term only
#19	(paget* and (breast* or mammary or nipple*)):ti,ab,kw (Word variations have been searched)
#20	#15 or #16 or #17 or #18 or #19
#21	#6 or #20

### G.4 Database: Embase

Last searched on **OVID Embase** 1974 to 2017 September 28.

Date of last search: 29 September 2017.

#	Searches
1	exp breast cancer/

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#	Searches
2	exp breast carcinoma/
3	exp medullary carcinoma/
4	exp intraductal carcinoma/
5	exp breast tumor/
6	1 or 2 or 3 or 4 or 5
7	exp breast/
8	breast.tw.
9	7 or 8
10	(breast adj milk).tw.
11	(breast adj tender\$.tw.
12	10 or 11
13	9 not 12
14	exp neoplasm/
15	13 and 14
16	(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.
17	(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.
18	exp Paget nipple disease/
19	(paget\$ and (breast\$ or mammary or nipple\$)).tw.
20	15 or 16 or 17 or 18 or 19
21	6 or 20
22	"Cost Benefit Analysis"/
23	"Cost Effectiveness Analysis"/
24	"Cost Minimization Analysis"/
25	"Cost of Illness"/
26	"Cost Control"/
27	"Cost Utility Analysis"/
28	Economic Aspect/
29	"COST"/
30	Financial Management/
31	"Health Care Cost"/
32	exp "Hospital Cost"/
33	Economic Evaluation/
34	Health Economics/
35	(fiscal or financial or finance\$ or funding).tw.
36	(cost adj estimate\$.tw.
37	(cost adj variable\$.tw.
38	(unit adj cost\$.tw.
39	(health?care adj cost\$.tw.
40	(economic\$ or price\$ or pricing).tw.
41	22 or 23 or 24 or 25 or 26 or 27 or 28 or 29 or 30 or 31 or 32 or 33 or 34 or 35 or 36 or 37 or 38 or 39 or 40
42	letter.pt.

#	Searches
43	editorial.pt.
44	42 or 43
45	41 not 44
46	21 and 45