Supplemental Appendix A – Search strategies

Embase (Ovid): 2007 – 2017 November 30
Searched: 1.12.17
1 exp breast tumor/ (463769)
2 (breast$ adj5 (neoplas$ or cancer$ or tumo?r$ or metasta$ or carcinoma$ or adenocarcinoma$ or sarcoma$ or dcis or ductal or infiltrat$ or intraductal$ or lobular or medullary)).ti,ab,ot,hw. (531644)
3 (mammar$ adj5 (neoplas$ or cancer$ or tumo?r$ or metasta$ or carcinoma$ or adenocarcinoma$ or sarcoma$ or dcis or ductal or infiltrat$ or intraductal$ or lobular or medullary)).ti,ab,ot,hw. (40034)
4 or/1-3 (545595)
5 BRCA1 protein/ (14048)
6 BRCA2 protein/ (10148)
7 (BRCA or gBRCA or BRCA1 or BRCA2 or BRCAI or BRCAII or BRCC or BRCC1 or BRCCI or BRCC2 or BRCCII or BROVCA or BROVCA1 or BROVCAI or BROVCA2 or BROVCAI or "BR/OVCA" or "BR/OVCA1" or "BR/OVCAI" or "BR/OVCA2" or "BR/OVCAII" or "BRCA1/2").ti,ab,ot,hw. (29506)
8 (Familial or “family history” or heredit$ or inherit$ or predispo$ or susceptib$).ti,ab,ot,hw. (1259663)
9 exp genetic predisposition to disease/ (121699)
10 Gene mutation/ (363425)
11 (genetic or gene or genes).ti,ab,ot,hw. (3724768)
12 or/5-11 (4410577)
13 4 and 12 (144186)
14 (clinical adj3 pathway).ti,ab,ot,kw. (4461)
15 (clinical adj3 pathways).ti,ab,ot,kw. (4080)
16 (practice adj3 parameter).ti,ab,ot,kw. (683)
17 (practice adj3 parameters).ti,ab,ot,kw. (1398)
18 care pathway.ti,ab,ot,kw. (3434)
19 care pathways.ti,ab,ot,kw. (2651)
20 guidance.ti,ab,ot. (125968)
21 guideline$.ti,ot. (85931)
22 practice guideline/ or clinical pathway/ or clinical protocol/ or consensus development/ or nursing protocol/ (428129)
23 or/14-22 (575234)
24 13 and 23 (2888)
25 animal/ (1820404)
26 animal experiment/ (2184261)
27 (rat or rats or mouse or mice or murine or rodent or rodents or hamster or hamsters or pig or pigs or porcine or rabbit or rabbits or animal or animals or dogs or dog or cats or cow or bovine or sheep or ovine or monkey or monkeys).ti,ab,ot,hw. (6680449)
28 or/25-27 (6680449)
29 exp human/ (19265608)
30 human experiment/ (399595)
31 or/29-30 (19267146)
32 28 not (28 and 31) (5204339)
33 (letter or editorial or note).pt. (2255258)
34 24 not (32 or 33) (2585)
35  limit 34 to yr="2007 -Current" (2098)

Pragmatic filter based on MEDLINE filter at:
http://libguides.sph.uth.tmc.edu/ovid_medline_filters 16.12.15

Medline (Ovid): 2007 – November Week 4 2017

Searched: 1.12.17

1  exp Breast Neoplasms/ (279375)
2  Carcinoma, Ductal, Breast/ (15527)
3  exp breast/ (44903)
4  exp neoplasms/ (3234699)
5  3 and 4 (26145)
6  (breast$ adj5 (neoplas$ or cancer$ or tumo?$ or metasta$ or carcinoma$ or adenocarcinoma$ or sarcoma$ or dcis or ductal or infiltrat$ or intraductal$ or lobular or medullary)).ti,ab,ot,hw. (337274)
7  (mammar$ adj5 (neoplas$ or cancer$ or tumo?$ or metasta$ or carcinoma$ or adenocarcinoma$ or sarcoma$ or dcis or ductal or infiltrat$ or intraductal$ or lobular or medullary)).ti,ab,ot,hw. (41298)
8  or/1-2,5-7 (360595)
9  BRCA1 Protein/ (5254)
10  Genes, BRCA1/ (6024)
11  BRCA2 Protein/ (3767)
12  Genes, BRCA2/ (3852)
13  (BRCA or gBRCA or BRCA1 or BRCA2 or BRCAI or BRCAII or BRCC or BRCC1 or BRCCI or BRCC2 or BRCCII or BROVCA or BROVCA1 or BROVCAI or BROVCA2 or BROVCAII or "BR/OVCA" or "BR/OVCA1" or "BR/OVCAI" or "BR/OVCA2" or "BR/OVCAII" or "BRCA1/2").ti,ab,ot,hw. (16712)
14  (Familial or "family history" or heredit$ or inherit$ or predispo$ or susceptib$).ti,ab,ot,hw. (808247)
15  exp Genetic Predisposition to Disease/ (132716)
16  (genetic or gene or genes).ti,ab,ot,hw. (2901259)
17  or/9-16 (3336828)
18  8 and 17 (85515)
19  (clinical adj3 pathway).ti,ab,kw. (2460)
20  (clinical adj3 pathways).ti,ab,kw. (2430)
21  (practice adj3 parameter).ti,ab,kw. (452)
22  (practice adj3 parameters).ti,ab,kw. (950)
23  algorithms/ (237741)
24  care pathway.ti,ab,kw. (1524)
25  care pathways.ti,ab,kw. (1310)
26  clinical protocols/ or Consensus/ (36137)
27  Consensus Development Conference.pt. (11445)
28  Consensus Development Conference, NIH.pt. (802)
29  Consensus Development Conferences as Topic/ (2408)
30  Consensus Development Conferences, NIH as Topic/ (352)
31  critical pathway/ (6245)
32  guidance.ti,ab. (80460)
33  guideline*.ti. (60953)
34  guidelines as topic/ or practice guidelines as topic/ or Health Planning Guidelines/ or practice guideline/ (175321)
35  or/19-34 (542930)
limit 39 to yr="2007 -Current" (1528)

Pragmatic filter based on MEDLINE filter at:
http://libguides.sph.uth.tmc.edu/ovid_medline_filters 16.12.15

Medline Epub Ahead of Priint(Ovid): 2007 – November 30 2017
Medline In-Process & Other Non-Indexed Citations (Ovid): 2007 – November 30 2017
Medline Daily Update (Ovid): 2007 – November 22 2017

Searched: 1.12.17

1 exp Breast Neoplasms/ (119)
2 Carcinoma, Ductal, Breast/ (4)
3 exp breast/ (15)
4 exp neoplasms/ (1099)
5 3 and 4 (9)
6 (breast$ adj5 (neoplas$ or cancer$ or tumor$ or metasta$ or carcinoma$ or adenocarcinoma$ or sarcoma$ or dcis or ductal or infiltrat$ or intraductal$ or lobular or medullary)).ti,ab,ot,hw. (34535)
7 (mammar$ adj5 (neoplas$ or cancer$ or tumor$ or metasta$ or carcinoma$ or adenocarcinoma$ or sarcoma$ or dcis or ductal or infiltrat$ or intraductal$ or lobular or medullary)).ti,ab,ot,hw. (1712)
8 or/1-2,5-7 (35323)
9 BRCA1 Protein/ (3)
10 Genes, BRCA1/ (3)
11 BRCA2 Protein/ (1)
12 Genes, BRCA2/ (2)
13 (BRCA or gBRCA or BRCA1 or BRCA2 or BRCAI or BRCAII or BRCC or BRCC1 or BRCCI or BRCC2 or BRCCII or BROVCA or BROVCA1 or BROVCAI or BROVCAII or "BR/OVCA" or "BR/OVCA1" or "BR/OVCAI" or "BR/OVCA2" or "BR/OVCAII" or "BRCA1/2").ti,ab,ot,hw. (2011)
14 (Familial or "family history" or heredit$ or inherit$ or predispo$ or susceptib$).ti,ab,ot,hw. (76908)
15 exp Genetic Predisposition to Disease/ (18)
16 (genetic or gene or genes).ti,ab,ot,hw. (221041)
17 or/9-16 (272252)
18 8 and 17 (7265)
19 (clinical adj3 pathway).ti,ab,kw. (399)
20 (clinical adj3 pathways).ti,ab,kw. (396)
21 (practice adj3 parameter).ti,ab,kw. (35)
22 (practice adj3 parameters).ti,ab,kw. (79)
23 algorithms/ (34)
24 care pathway.ti,ab,kw. (365)
25 care pathways.ti,ab,kw. (328)
26 clinical protocols/ or Consensus/ (9)
27 Consensus Development Conference.pt. (12)
28 Consensus Development Conference, NIH.pt. (3)
29 Consensus Development Conferences as Topic/ (0)
Pragmatic filter based on MEDLINE filter at:
http://libguides.sph.uth.tmc.edu/ovid_medline_filters 16.12.15

CDSR (Wiley): Issue 11 of 12, November 2017
DARE (Wiley): Issue 2 of 4, April 2015
Searches: 30.11.17

#1 MeSH descriptor: [Breast Neoplasms] explode all trees 10474
#2 MeSH descriptor: [Breast] explode all trees 734
#3 MeSH descriptor: [Neoplasms] explode all trees 63175
#4 #2 and #3 335
#5 (breast) near/5 (neoplasm* or cancer* or tumor* or metastas* or carcinoma* or adenocarcinoma* or sarcoma* or dcis or ductal or infiltrat* or intraductal* or lobular or medullary):ti,ab,kw 26077
#6 (mammary) near/5 (neoplasm* or cancer* or tumor* or metastas* or carcinoma* or adenocarcinoma* or sarcoma* or dcis or ductal or infiltrat* or intraductal* or lobular or medullary):ti,ab,kw 204
#7 #1 or #4 or #5 or #6 26142
#8 MeSH descriptor: [Genes, BRCA1] this term only 105
#9 MeSH descriptor: [Genes, BRCA2] this term only 79
#10 MeSH descriptor: [BRCA1 Protein] explode all trees 59
#11 MeSH descriptor: [BRCA2 Protein] explode all trees 50
#12 (BRCA or gBRCA or BRCA1 or BRCA2 or BRCAI or BRCAII or BRCC or BRCC1 or BRCCI or BRCC2 or BRCCII or BROVCA or BROVCA1 or BROVCAI or BROVCA2 or BROVCAII or "BR/OVCA" or "BR/OVCA1" or "BR/OVCA1" or "BR/OVCA2" or "BR/OVCAII" or "BRCA1/2") 696
#13 (Familial or "family history" or heredit* or inherit* or predispo* or susceptib*) 23412
#14 MeSH descriptor: [Genetic Predisposition to Disease] explode all trees 1718
#15 (genetic or gene or genes) 33930
#16 #8 or #9 or #10 or #11 or #12 or #13 or #14 or #15 50043
#17 #7 and #16 Publication Year from 2007 to 2017 2455

CDSR = 60
DARE = 82
CENTRAL = 2185
Method Studies = 9
HTA = 59
CINAHL (EBSCO): 2007 – 1 December 2017
Searched: 1.12.17

S1 breast neoplasms 44,031
S2 MH breast 2,343
S3 MH neoplasms 40,035
S4 S2 OR S3 42,354

S5 TI ((breast) N5 (neoplasm* or cancer* or tumo?r* or metastast* or carcinoma* or adenocarcinoma* or sarcoma* or dcis or ductal or infiltrat* or intraductal* or lobular or medullary) 28,520
AB ((breast) N5 (neoplasm* or cancer* or tumo?r* or metastast* or carcinoma* or adenocarcinoma* or sarcoma* or dcis or ductal or infiltrat* or intraductal* or lobular or medullary) 24,668

S6 TI ((mammar*) N5 (neoplasm* or cancer* or tumo?r* or metastast* or carcinoma* or adenocarcinoma* or sarcoma* or dcis or ductal or infiltrat* or intraductal* or lobular or medullary) 107
AB ((mammar*) N5 (neoplasm* or cancer* or tumo?r* or metastast* or carcinoma* or adenocarcinoma* or sarcoma* or dcis or ductal or infiltrat* or intraductal* or lobular or medullary) 247

S7 S1 OR S4 OR S5 OR S6 OR S7 OR S8 89,730
S10 (MH "Hereditary Breast and Ovarian Cancer Syndrome") OR (MH "Genes, BRCA") 1,143

S11 BROVCA1 or BROVCA2 or BROVCAII or "BR/OVCA" or "BR/OVCA1" or "BR/OVCA1" or "BR/OVCA2" or "BR/OVCAII" or "BRCA1/2" 1,002
AB BRC2 or BRCA1 or BRCA2 or BRCAI or BRCAII or BRCC or BRCCI or BRCC1 or BRCC2 or BRCCI or BROVCA or BROVCAII or "BR/OVCA" or "BR/OVCA1" or "BR/OVCA1" or "BR/OVCA2" or "BR/OVCAII" or "BRCA1/2" 1,094

S12 TI Familial or "family history" or heredit* or inherit* or predispo* or susceptib* 9,959
S14 AB Familial or "family history" or heredit* or inherit* or predispo* or susceptib* 39,390

S15 (MH "Polymorphism, Genetic") 10,449
S16 TI genetic or gene or genes 23,249
S17 AB genetic or gene or genes 52,549
S18 S10 OR S11 OR S12 OR S13 OR S14 OR S15 OR S16 OR S17 97,676
S19 S9 AND S18 7,018
S20 TI (clinical N3 pathway*) OR AB (clinical N3 pathway*) 1,512
S21 TI (practice N3 parameter*) OR AB (practice N3 parameter*) 418
S22 MH algorithms 12,295
S23 TI "care pathway"* OR AB "care pathway"* 1,592
S24 MH consensus 599
S25 TI clinical protocol* OR AB clinical protocol* 2,356
S26 TX "Consensus Development Conference" 140
S27 MH critical pathway 0
S28 TI "critical pathway"* OR AB "critical pathway"* 409
S29 TI guidance OR AB guidance OR TI guideline* OR AB guideline* 87,340
   ((breast neoplasms) AND (S20 OR S21 OR S22 OR S23 OR S24 OR
S30 S25 OR S26 OR S27 OR S28 OR S29)) AND (S20 OR S21 OR S22
OR S23 OR S24 OR S25 OR S26 OR S27 OR S28 OR S29)
S31 S20 OR S21 OR S22 OR S23 OR S24 OR S25 OR S26 OR S27 OR
S28 OR S29 OR S30 104,506
S32 (S20 OR S21 OR S22 OR S23 OR S24 OR S25 OR S26 OR S27 OR
S28 OR S29 OR S30) AND (S19 AND S31) 360
(S20 OR S21 OR S22 OR S23 OR S24 OR S25 OR S26 OR S27 OR
S28 OR S29 OR S30) AND (S19 AND S31) 279
Limiters - Published Date: 20070101-20171231
Search modes - Boolean/Phrase

KSR Evidence (KSR Ltd)
Search: 1.12.17
   (breast* AND (neoplas* or cancer* or tumors* or tumor* or metastas* or
1 carcinoma* or adenocarcinoma* or sarcoma* or dcis or ductal or infiltrat* or
intraductal* or lobular or medullary)) in All text 893
   (mammar* AND (neoplas* or cancer* or tumors* or tumor* or metastas* or
2 carcinoma* or adenocarcinoma* or sarcoma* or dcis or ductal or infiltrat* or
intraductal* or lobular or medullary)) in All text 14
3 #1 or #2 895
(BRCA or gBRCA or BRCA1 or BRCA2 or BRCAI or BRCAII or BRCC or
4 BRCC1 or BRCCI or BRCCII or BROVCA or BROVCA1 or
BROVCAI or BROVCA2 or BROVCAII or "BR/OVCA" or "BR/OVCA1" or
"BR/OVCAI" or "BR/OVCA2" or "BR/OVCAII" or "BRCA1/2") in All text 23
(Familial or "family history" or heredit* or inherit* or predispo* or suscep	ib*)
5 in All text 1192
6 (genetic or gene or genes) in All text 1540
7 #4 or #5 or #6 1814
8 #3 and #7 51

National Institute for Health and Care Excellence (NICE): www.nice.org.uk/
Search: 29.1.17

Search terms | Hits
--- | ---
Filtered by NICE Guidance/ Conditions and diseases / Cancer / 2/29
Breast cancer – scanned for BRCA or BRCC – limited to 2007 - current

National Guideline Clearinghouse: [www.guideline.gov](http://www.guideline.gov/)
Searched: 29.11.17

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<thead>
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<th>Search terms</th>
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<tbody>
<tr>
<td>(breast* OR mammar*) AND (brca* OR brcc*)</td>
<td>19</td>
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Guidelines International Network (GIN): [www.g-i-n.net](http://www.g-i-n.net)
Strategy: SDK_Pfizer_BRCA_Guidelines_GIN1

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<td>Breast neoplasms/</td>
<td>160 / 163</td>
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<tr>
<td>(breast* OR mammary*) AND (cancer* OR tumors* OR tumor* OR neoplasm*) AND (brca* OR brcc*)</td>
<td>263 / 269</td>
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<tr>
<td>Total</td>
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<tr>
<td>Total after deduplication against each other</td>
<td>263</td>
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<tr>
<td>2007-current</td>
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NHS Evidence: [www.evidence.nhs.uk](http://www.evidence.nhs.uk)
Searched 29.11.17

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<tr>
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<tr>
<td>(breast* OR mammar*) AND (neoplasm* OR cancer* OR tumor* OR tumors* OR metasta* OR carcinoma* OR adenocarcinoma* OR sarcoma* OR dcis OR ductal OR infiltrat* OR intraductal* OR lobular OR medullary) AND (brca* OR brcc*) – filtered to guidance, 2007 – current</td>
<td>44</td>
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European Society for Medical Oncology: [www.esmo.org](http://www.esmo.org)
Searched 29.11.17

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<td>RM Partners Accountable Cancer Network: <a href="http://www.rmpartners.cancervanguard.nhs.uk">www.rmpartners.cancervanguard.nhs.uk</a> (was London Cancer Alliance)</td>
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<th>American Society of Clinical Oncology: <a href="http://www.asco.org/">www.asco.org/</a></th>
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<tr>
<td>Filtered by Guidelines, Tools, &amp; Resources / Guidelines by Clinical Area / Breast Cancer – results scanned for BRCA or BRCC</td>
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<td><strong>Search terms – Current guidelines</strong></td>
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<td><strong>Search terms</strong></td>
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<td>Filtered by Health Professionals / Protocols and Guidelines – Breast Cancer – results scanned for BRCA or BRCC</td>
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<th>The Institute of Cancer Research: <a href="http://www.icr.ac.uk">www.icr.ac.uk</a></th>
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British Columbia Cancer Agency: [www.bccancer.bc.ca/health-professionals/clinical-resources/cancer-management-guidelines](http://www.bccancer.bc.ca/health-professionals/clinical-resources/cancer-management-guidelines)

**Searched 30.11.17**

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**Searched 5.12.17**

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**Searched 5.12.17**

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American Cancer Society ([https://www.cancer.org](https://www.cancer.org))
Searched 5.12.17

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<td>Filtered by Information for health professionals / Prevention and Early Detection Guidelines / Breast cancer – results scanned for BRCA or BRCC</td>
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<tr>
<td>Filtered by Information for health professionals / American Cancer Society survivorship guidelines / Breast cancer – results scanned for BRCA or BRCC</td>
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Searched 5.12.17

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<tr>
<td>&quot;breast cancer&quot; and (guideline or guidance) – scanned for BRCA or BRCC</td>
<td>12/74</td>
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Northern Light Life Sciences Conference Abstracts (Ovid): 2016-2017 Week 47
Searched: 5.12.17

1 (breast$ adj5 (neoplas$ or cancer$ or tumo?r$ or metasta$ or carcinoma$ or adenocarcinoma$ or sarcoma$ or dcis or ductal or infiltrat$ or intraductal$ or lobular or medullary)).ti,ab. (59371)
2 (mammar$ adj5 (neoplas$ or cancer$ or tumo?r$ or metasta$ or carcinoma$ or adenocarcinoma$ or sarcoma$ or dcis or ductal or infiltrat$ or intraductal$ or lobular or medullary)).ti,ab. (2646)
3 or/1-2 (60193)
4 (BRCA or gBRCA or BRCA1 or BRCAI or BRCAII or BRCC or BRCC1 or BRCC1 or BRCC2 or BRCCII or BROVCA or BROVCA1 or BROVCAI or BROVCA2 or BROVCAII or "BR/OVCA" or "BR/OVCA1" or "BR/OVCA1" or "BR/OVCA2" or "BR/OVCA1" or "BR/OVCA2" or "BR/OVCA1" or "BRCA1/2").ti,ab. (4304)
5 (Familial or "family history" or heredit$ or inherit$ or predispo$ or susceptib$).ti,ab. (79231)
6 (genetic or gene or genes).ti,ab. (246171)
7 or/4-6 (294579)
8 (clinical adj3 pathway).ti,ab. (623)
9 (clinical adj3 pathways).ti,ab. (451)
10 (practice adj3 parameter).ti,ab. (24)
11 (practice adj3 parameters).ti,ab. (76)
12 care pathway.ti,ab. (579)
13 care pathways.ti,ab. (291)
14 guideline$.ti,ab. (14959)
15 or/8-15 (55793)
16 3 and 7 and 16 (360)
18 limit 17 to yr="2016 -Current" (57)
NCCN 21st Annual Conference ([http://www.jnccn.org/content/14/5S/e1.full.pdf+html](http://www.jnccn.org/content/14/5S/e1.full.pdf+html))

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