**Literature Search**

**ACR Appropriateness Criteria®**

**Supplemental Breast Cancer Screening Based on Breast Density**

Literature Search Performed on: 03/15/2024

Beginning Date: January 2018

End Date: February 2024

Database: Ovid MEDLINE(R) ALL <1946 to March 07, 2024>

**Search Strategy**

1 Technetium Tc 99m Sestamibi/ or Fluorodeoxyglucose F18/ or Positron-Emission Tomography/ or Mammography/ or (positron emission tomography or FDG-PET or F-18 FDG or dedicated breast or DbPET or sestamibi or MBI or BSGI or molecular breast imaging or CEM or CESM or CEDM or contrast enhanced mammography or contrast enhanced digital mammography).ti,ab,kw. (172546)

2 (dense breasts or nondense breasts or heterogeneously dense or extremely dense or density).ti,ab,kw. (797019)

3 (supplemental screen* or screening* or screen*).ti,ab,kw. (1017492)

4 (average risk or intermediate risk or high risk).ti,ab,kw. (390205)

5 breast*.ti,ab,kw. (573816)

6 (Breast and screen* and cancer and NCCN and ("National Comprehensive Cancer Network" or practice* or guideline*)).ti,ab,kw. (84)

7 1 and 2 and 3 and 4 and 5 (214)

8 limit 7 to (abstracts and english language and humans and yr="2018 -Current") (99)

9 limit 8 to female (99)

10 limit 9 to "all child (0 to 18 years)" (2)

11 9 not 10 (97)

12 6 or 11 (180)

13 12 not (case report* or case stud* or comment* or editor* or letter* or news).ti. (179)

14 remove duplicates from 13 (178)

---

Literature Search Performed on: 02/08/2024

Beginning Date: January 2018

End Date: January 2024

Database: Ovid MEDLINE(R) ALL <1946 to February 06, 2024>

**Search Strategy**

1 exp Diagnostic Imaging/ or Technetium Tc 99m Sestamibi/ or Fluorodeoxyglucose F18/ (2951527)

2 Breast/ (45939)

3 Breast Neoplasms/ (337672)

4 Breast Density/ (1597)

5 "Early Detection of Cancer"/ (39447)

6 Mass Screening/ (117241)

7 Carcinoma, Intraductal, Noninfiltrating/ (10785)

8 (dense breasts or nondense breasts or heterogeneously dense or extremely dense or density).ti,ab,kw. (793160)

9 (supplemental screen* or screening* or screen*).ti,ab,kw. (1011537)

10 (average risk or intermediate risk or high risk).ti,ab,kw. (388005)

11 breast*.ti,ab,kw. (571088)

12 (ultrasound* or ultrasonograph* or DBT or tomosynthesis or mammography or MR* or "magnetic resonance imaging" or abbreviated or "AB-MRI" or "fast MRI" or "FDG-PET" or dedicated or dbPET or sestamibi or MBI or "molecular breast imaging" or protocol or CEM or CESM or ABUS).ti,ab,kw. (2276265)

13 2 and 3 (26866)

14 2 and 4 (574)

15 3 and 4 (1409)

16 13 and (5 or 6 or 7) (2844)

17 14 and (5 or 6 or 7) (173)

18 15 and (5 or 6 or 7) (531)

**Literature Search**

**ACR Appropriateness Criteria®**

**Supplemental Breast Cancer Screening Based on Breast Density**

19 2 and (5 or 6 or 7) (2977)

20 3 and (5 or 6 or 7) (25986)

21 4 and (5 or 6 or 7) (547)

22 16 or 17 or 18 or 19 or 20 or 21 (26133)

23 (22 and 1) or (22 and 12) (14430)

24 Practice Guideline/ and breast.ti. and screen*.ti. and (cancer or guideline* or bulletin* or recommendation* or standard* practice* or society or association or college or SBI or SNMMI or EANM or NCCN or ESMO or ASCO).ti,ab,kw. (58)

25 23 or 24 (14449)

26 limit 25 to (abstracts and english language and humans and yr="2018 -Current") (2881)

27 limit 26 to female (2834)

28 limit 27 to "all child (0 to 18 years)" (79)

29 27 not 28 (2755)

30 limit 29 to case reports (44)

31 29 not 30 (2711)

32 remove duplicates from 31 (2699)

**Summary**

| **Source** | **#Unique Refs** | **#Retained Refs** |
|---|---|---|
| Old bibliography | 71 | 13 |
| Literature Search(es) | 2785 | 0 |
| Author Added | 13 | 13 |
| Supporting Docs | 1 | 0 |
| Total | | 26 |

References from the literature search that were not retained had a poor study design, were not relevant to the topic, or had unclear or biased results.