
The American College of Radiology
National Mammography
Database
(NMD)

Data Dictionary
Version 3.0

May 2, 2017



American College of Radiology
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NMD Data Dictionary Version 3.0

Revisions

Date	Description of Revisions
May 2, 2017	Original issue

NMD DATA DICTIONARY - VERSION 3.0

Audit parameters

NMD Field Number(s): 1

NMD Field Name: NMD file version number

Description: NMD file version number

Use: Required

Response: Must be 3.0

Values: 3.0

NMD Field Number(s): 2

NMD Field Name: Laterality of audit data

Description: Indicates whether the audit captures separate-breast assessment data or patient-level assessment data

Use: Required

Response: Indicate whether audit data are reported at breast or patient level.

Values:

- 1 Separate-breast assessment data
 - 2 Patient-level assessment data
-

NMD DATA DICTIONARY - VERSION 3.0

NMD Field Number(s): 3

NMD Field Name: Combination examinations

Description: Indicates whether the audit captures data for each component of combination examinations (e.g., separate assessments for mammography and ultrasound components), or for the combination examination only

Use: Required

Response: Indicate whether audit data are reported at component level or combination level.

Values:

- 1 Component-level assessment data
 - 2 Combination-level assessment data
-

NMD Field Number(s): 4

NMD Field Name: Standard screening mammography imaging

Mammography only

Description: Indicates how the facility defines standard screening mammography images

Use: Required

Response: Select one.

Values: The BI-RADS® standard is in “ACR Practice Guideline for the Performance of Screening and Diagnostic Mammography” (1 CC and 1 MLO per breast), including additional images only as needed to overcome technical deficiency or inadequate tissue coverage.

- 1 BI-RADS® standard screening mammography imaging is performed.
 - 2 Mammography imaging other than BI-RADS® standard screening mammography imaging is performed.
-

NMD DATA DICTIONARY - VERSION 3.0

- 3 The facility does not perform screening mammography imaging.

NMD Field Number(s): 5

NMD Field Name: Standard screening ultrasound imaging

Ultrasound only

Description: Indicates whether the facility defines standard screening ultrasound images as defined in BI-RADS® 5th Ed.

Use: Required

Response: Select one.

Values: See BI-RADS® 5th Ed. Introduction to Follow-Up and Outcome Monitoring section (recording 1 image for each breast quadrant and the retroareolar region, hence 5 images per breast), including additional images only as needed to overcome technical deficiency

- 1 The BI-RADS®-recommended definition of recording standard screening ultrasound images is in use.
- 2 A definition of recording standard screening ultrasound images other than the BI-RADS®-recommended definition is in use.
- 3 The facility does not perform screening ultrasound imaging.

NMD DATA DICTIONARY - VERSION 3.0

Patient Demographic Data

NMD Field Number(s): 6

NMD Field Name: Patient identifier

Description: Unique patient identifier within the facility

Use: Required if Social Security Number is not reported; optional otherwise

Response: Indicate patient identifier.

Values: Any value up to 50 characters in length

NMD Field Number(s): 7

NMD Field Name: Patient Social Security Number

Description: Patient Social Security Number

Use: Required if patient identifier is not reported; optional otherwise

Response: Indicate patient Social Security Number.

Values: Any valid Social Security Number in nnn-nn-nnnn format

NMD Field Number(s): 8

NMD Field Name: Patient date of birth

Description: Patient date of birth

Use: Required

Response: Indicate patient's date of birth.

Values: Any valid date in mm/dd/yyyy format

NMD DATA DICTIONARY - VERSION 3.0

NMD Field Number(s): 9

NMD Field Name: Patient sex

Description: Patient sex

Use: Required

Response: Select one.

Values:

- 1 Male
- 2 Female
- 9 Unknown

NMD DATA DICTIONARY - VERSION 3.0

Physician Data

NMD Field Number(s): 10-12

NMD Field Name: Physician identifier

Description: Unique identifier of the interpreting physician, such as the National Provider Identifier

Use: Optional

Response: Indicate one unique identifier for each interpreting physician taking responsibility for the assessment.

Values: Any value up to 10 characters in length

NMD Field Number(s): 13-15

NMD Field Name: Physician-level assessment - Left breast

Description: Assessment made by an individual physician when double reading - Left breast

Use: Required if a physician identifier is reported and the physician's assessment differs from the final assessment assigned to the examination; not applicable if a physician identifier is not reported; optional otherwise

Response: Select one.

Values:

Incomplete Assessment

Do not include incomplete assessments needing comparison with prior studies or technical recall examinations in audit data.

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- 0 Category 0:
(Mammography only)
Incomplete - Need
additional imaging
evaluation and/or prior
mammograms for
comparison
(Ultrasound and MRI only)
Incomplete - Need
additional imaging
evaluation
- Final Assessment
- | | |
|---|---|
| 1 Category 1: Negative | Essentially 0% likelihood of malignancy |
| 2 Category 2: Benign | Essentially 0% likelihood of malignancy |
| 3 Category 3: Probably benign | > 0% but \leq 2% likelihood of malignancy |
| 4 Category 4: Suspicious | > 2% but < 95% likelihood of malignancy |
| 5 Category 5: Highly suggestive of malignancy | \geq 95% likelihood of malignancy |
| 6 Category 6: Known biopsy-proven malignancy | |

NMD DATA DICTIONARY - VERSION 3.0

NMD Field Number(s): 16-18

NMD Field Name: Physician-level assessment - Left breast - Subcategory of category 4

Mammography and ultrasound only

Description: Subcategory of a category 4 assessment made by an individual physician when double reading - Left breast

Use: Optional if a category 4 physician-level assessment is reported; not applicable otherwise

Response: Select one.

Values:

- | | | |
|---|--|---|
| A | Category 4A: Low suspicion for malignancy | > 2% to ≤ 10% likelihood of malignancy |
| B | Category 4B: Moderate suspicion for malignancy | > 10% to ≤ 50% likelihood of malignancy |
| C | Category 4C: High suspicion for malignancy | > 50% to < 95% likelihood of malignancy |
-

NMD Field Number(s): 19-21

NMD Field Name: Physician-level assessment - Right breast

Description: Assessment made by an individual physician when double reading - Right breast

Use: Required if a physician identifier is reported and the physician's assessment differs from the final assessment assigned to the examination; not applicable if a physician identifier is not reported; optional otherwise

Response: Select one.

Values:

- | | |
|-----------------------|---|
| Incomplete Assessment | Do not include incomplete assessments needing comparison with prior studies or technical recall examinations in audit data. |
|-----------------------|---|

NMD DATA DICTIONARY - VERSION 3.0

- 0 Category 0:
(Mammography only)
Incomplete - Need
additional imaging
evaluation and/or prior
mammograms for
comparison
(Ultrasound and MRI only)
Incomplete - Need
additional imaging
evaluation
- Final Assessment
- | | |
|---|---|
| 1 Category 1: Negative | Essentially 0% likelihood of malignancy |
| 2 Category 2: Benign | Essentially 0% likelihood of malignancy |
| 3 Category 3: Probably benign | > 0% but \leq 2% likelihood of malignancy |
| 4 Category 4: Suspicious | > 2% but < 95% likelihood of malignancy |
| 5 Category 5: Highly suggestive of malignancy | \geq 95% likelihood of malignancy |
| 6 Category 6: Known biopsy-proven malignancy | |

NMD DATA DICTIONARY - VERSION 3.0

NMD Field Number(s): 22-24

NMD Field Name: Physician-level assessment - Right breast -
Subcategory of category 4

Mammography and ultrasound only

Description: Subcategory of a category 4 assessment made by an individual physician when double reading - Right breast

Use: Optional if a category 4 physician-level assessment is reported; not applicable otherwise

Response: Select one.

Values:

- | | | |
|---|--|---|
| A | Category 4A: Low suspicion for malignancy | > 2% to ≤ 10% likelihood of malignancy |
| B | Category 4B: Moderate suspicion for malignancy | > 10% to ≤ 50% likelihood of malignancy |
| C | Category 4C: High suspicion for malignancy | > 50% to < 95% likelihood of malignancy |
-

NMD Field Number(s): 25-27

NMD Field Name: Physician-level assessment - Patient level

Description: Assessment made by an individual physician when double reading - Patient level

Use: Required if a physician identifier is reported and the physician's assessment differs from the final assessment assigned to the examination; not applicable if a physician identifier is not reported; optional otherwise

Response: Select one.

Values:

- | | |
|-----------------------|---|
| Incomplete Assessment | Do not include incomplete assessments needing comparison with prior studies or technical recall examinations in audit data. |
|-----------------------|---|

NMD DATA DICTIONARY - VERSION 3.0

- 0 Category 0:
(Mammography only)
Incomplete - Need
additional imaging
evaluation and/or prior
mammograms for
comparison
(Ultrasound and MRI only)
Incomplete - Need
additional imaging
evaluation
- Final Assessment
- | | | |
|---|---|---|
| 1 | Category 1: Negative | Essentially 0% likelihood of malignancy |
| 2 | Category 2: Benign | Essentially 0% likelihood of malignancy |
| 3 | Category 3: Probably benign | > 0% but \leq 2% likelihood of malignancy |
| 4 | Category 4: Suspicious | > 2% but < 95% likelihood of malignancy |
| 5 | Category 5: Highly suggestive of malignancy | \geq 95% likelihood of malignancy |
| 6 | Category 6: Known biopsy-proven malignancy | |

NMD DATA DICTIONARY - VERSION 3.0

NMD Field Number(s): 28-30

NMD Field Name: Physician-level assessment - Patient level -
Subcategory of category 4

Mammography and ultrasound only

Description: Subcategory of a category 4 assessment made by an individual physician when double reading - Patient level

Use: Optional if a category 4 physician-level assessment is reported; not applicable otherwise

Response: Select one.

Values:

- | | | |
|---|--|---|
| A | Category 4A: Low suspicion for malignancy | > 2% to ≤ 10% likelihood of malignancy |
| B | Category 4B: Moderate suspicion for malignancy | > 10% to ≤ 50% likelihood of malignancy |
| C | Category 4C: High suspicion for malignancy | > 50% to < 95% likelihood of malignancy |

NMD DATA DICTIONARY - VERSION 3.0

Patient History for this Examination

NMD Field Number(s): 31

NMD Field Name: First examination ever

Description: Indicates whether this is the patient's first-ever breast imaging examination, including mammograms

Use: Required for the more complete audit; optional otherwise

Response: Select one.

Values:

0 No

1 Yes

9 Not sure / Unknown

NMD Field Number(s): 32

NMD Field Name: Date of previous examination

Description: Date of the patient's most recent breast imaging examination, including mammograms

Use: Required for the more complete audit if known; optional for the basic clinically relevant audit if known; not applicable otherwise

Response: Indicate date of previous examination.

Values: Any valid date in mm/dd/yyyy format

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NMD Field Number(s): 33

NMD Field Name: Time since previous examination

Description: Time interval since the patient's most recent breast imaging examination, including mammograms

Use: Required for more complete audit if this is not the patient's first-ever examination and the date of the previous examination was not reported; optional otherwise

Response: Select one.

Values:

- 1 ≤ 6 months
- 2 ≤ 1 year but > 6 months
- 3 ≤ 2 years but > 1 year
- 4 > 2 years
- 99 Not sure / Unknown / Not applicable

NMD Field Number(s): 34

NMD Field Name: Personal history of breast cancer

Description: Personal history of breast cancer

Use: Required for the more complete audit; optional otherwise

Response: Select one.

Values:

- 0 No
- 1 Yes
- 9 Not sure / Unknown

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NMD Field Number(s): 35

NMD Field Name: Breast cancer in first-degree relative - premenopausal

Description: Mother, sister, or daughter with history of premenopausal breast cancer

Use: Required for the more complete audit; optional otherwise

Response: Select one.

Values:

- 0 No
- 1 Yes
- 2 A first-degree relative has a history of breast cancer; unsure whether premenopausal or postmenopausal
- 9 Unsure whether any first-degree relative has a history of breast cancer

NMD Field Number(s): 36

NMD Field Name: Breast cancer in first-degree relative - postmenopausal

Description: Mother, sister, or daughter with history of postmenopausal breast cancer

Use: Required for the more complete audit; optional otherwise

Response: Select one.

Values:

- 0 No
- 1 Yes
- 2 A first-degree relative has a history of breast cancer; unsure whether premenopausal or postmenopausal

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9 Unsure whether any first-degree relative has a history of breast cancer

NMD Field Number(s): 37

NMD Field Name: Family history of breast cancer, other than first-degree relative

Description: Family history of breast cancer, other than mother, sister or daughter

Use: Required for the more complete audit; optional otherwise

Response: Select one.

Values:

0 No

1 Yes

9 Not sure / Unknown

NMD Field Number(s): 38

NMD Field Name: Personal history of ovarian cancer

Description: Personal history of ovarian cancer

Use: Required for the more complete audit; optional otherwise

Response: Select one.

Values:

0 No

1 Yes

9 Not sure / Unknown

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NMD Field Number(s): 39

NMD Field Name: Family history of ovarian cancer

Description: Family history of ovarian cancer

Use: Required for the more complete audit; optional otherwise

Response: Select one.

Values:

0 No

1 Yes

9 Not sure / Unknown

NMD Field Number(s): 40

NMD Field Name: Previous biopsy-proved hyperplasia with cellular atypia

Description: Personal history of biopsy-proved hyperplasia with cellular atypia

Use: Required for the more complete audit; optional otherwise

Response: Select one.

Values:

0 No

1 Yes

9 Not sure / Unknown

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NMD Field Number(s): 41

NMD Field Name: Previous lobular carcinoma in situ (LCIS)

Description: Personal history of lobular carcinoma in situ (LCIS)

Use: Required for the more complete audit; optional otherwise

Response: Select one.

Values:

0 No

1 Yes

9 Not sure / Unknown

NMD Field Number(s): 42

NMD Field Name: Hormone replacement therapy

Description: Personal history of hormone replacement therapy

Use: Required for the more complete audit; optional otherwise

Response: Select one.

Values:

0 No

1 Yes

9 Not sure / Unknown

NMD DATA DICTIONARY - VERSION 3.0

Study Data for this Examination

NMD Field Number(s): 43

NMD Field Name: Date of examination

Description: Date of examination

Use: Required

Response: Indicate date of examination.

Values: Any valid date in mm/dd/yyyy format

NMD Field Number(s): 44

NMD Field Name: Indication for examination

Description: Indication or reason for the examination

Use: Required

Response: Select one.

Values:

- 1 Screening
 - 2 Diagnostic - evaluation of an abnormal finding at screening
 - 3 Diagnostic - surveillance imaging for a probably benign finding or following breast conservation treatment
 - 4 Diagnostic - evaluation of a breast problem - palpable abnormality
 - 5 Diagnostic - evaluation of a breast problem - other
 - 99 Unknown
-

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NMD Field Number(s): 45

NMD Field Name: Modality

Description: Modality or modalities used for the examination

Use: Required

Response: Select one.

Values:

1 Mammography

2 Ultrasound

3 MRI

The following terms are valid only when data for combination examinations are reported at the combination level, i.e., not at the component level.

4 Mammography / Ultrasound

5 Mammography / MRI

6 Ultrasound / MRI

7 Mammography / Ultrasound / MRI

NMD Field Number(s): 46

NMD Field Name: Use of computer-aided detection (CAD) - Additional views

Mammography only

Description: Indicates whether computer-aided detection was used for additional views

Use: Optional

Response: Select one.

Values:

0 No

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1 Yes

NMD Field Number(s): 47

NMD Field Name: Use of tomosynthesis

Mammography only

Description: Indicates whether tomosynthesis was used

Use: Optional

Response: Select one.

Values:

0 No

1 Yes

NMD Field Number(s): 48

NMD Field Name: Use of computer-aided detection (CAD) - Standard views

Mammography only

Description: Indicates whether computer-aided detection was used for standard views

Use: Optional

Response: Select one.

Values:

0 No

1 Yes

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NMD Field Number(s): 49

NMD Field Name: Film or digital

Mammography only

Description: Indicates whether the image was recorded on film or digitally

Use: Optional

Response: Select one.

Values:

- 1 Film
 - 2 Digital
-

NMD Field Number(s): 50

NMD Field Name: Additional imaging

***Screening mammography and
ultrasound only***

Description: Indicates whether additional imaging was performed

Use: Required

Response: Select one.

Values:

- 1 Standard imaging only
- 2 Standard plus additional imaging
- 99 Unknown / Not applicable

NMD DATA DICTIONARY - VERSION 3.0

Breast Tissue

NMD Field Number(s): 51

NMD Field Name: Breast composition - Left breast

Mammography only

Description: Visually estimated content of fibroglandular-density tissue within the breast

Use: Required if audit data are reported at breast level, and right breast composition is not reported; optional otherwise

Response: Select one.

Values:

- 1 a. The breast is almost entirely fatty.
- 2 b. There are scattered areas of fibroglandular density.
- 3 c. The breast is heterogeneously dense, which may obscure small masses.
- 4 d. The breast is extremely dense, which lowers the sensitivity of mammography.
- 99 Unknown

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NMD Field Number(s): 52

NMD Field Name: Breast composition - Right breast

Mammography only

Description: Visually estimated content of fibroglandular-density tissue within the breast

Use: Required if audit data are reported at breast level, and left breast composition is not reported; optional otherwise

Response: Select one.

Values:

- 1 a. The breast is almost entirely fatty.
- 2 b. There are scattered areas of fibroglandular density.
- 3 c. The breast is heterogeneously dense, which may obscure small masses.
- 4 d. The breast is extremely dense, which lowers the sensitivity of mammography.
- 99 Unknown

NMD Field Number(s): 53

NMD Field Name: Breast composition - Patient level

Mammography only

Description: Visually estimated content of fibroglandular-density tissue within the breasts. If the breasts are not of apparently equal density, the denser breast should be used to categorize breast density.

Use: Required if audit data are reported at patient level; optional otherwise

Response: Select one.

Values:

- 1 a. The breasts are almost entirely fatty.

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- 2 b. There are scattered areas of fibroglandular density.
- 3 c. The breasts are heterogeneously dense, which may obscure small masses.
- 4 d. The breasts are extremely dense, which lowers the sensitivity of mammography.
- 99 Unknown

NMD Field Number(s): 54

NMD Field Name: Tissue composition - Left breast

Ultrasound screening only

Description: The background echotexture of the breast may affect the sensitivity of breast sonograms for lesion detection.

Use: Required if audit data are reported at breast level, and right breast tissue composition is not reported; optional otherwise

Response: Select one.

Values:

- 1 a. Homogeneous background echotexture — fat
- 2 b. Homogeneous background echotexture — fibroglandular
- 3 c. Heterogeneous background echotexture
- 99 Unknown

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NMD Field Number(s): 55

NMD Field Name: Tissue composition - Right breast

Ultrasound screening only

Description: The background echotexture of the breast may affect the sensitivity of breast sonograms for lesion detection.

Use: Required if audit data are reported at breast level, and left breast tissue composition is not reported; optional otherwise

Response: Select one.

Values:

- 1 a. Homogeneous background echotexture — fat
 - 2 b. Homogeneous background echotexture — fibroglandular
 - 3 c. Heterogeneous background echotexture
 - 99 Unknown
-

NMD Field Number(s): 56

NMD Field Name: Tissue composition - Patient level

Ultrasound screening only

Description: The background echotexture of the breast may affect the sensitivity of breast sonograms for lesion detection.

Use: Required if audit data are reported at patient level; optional otherwise

Response: Select one.

Values:

- 1 a. Homogeneous background echotexture — fat
 - 2 b. Homogeneous background echotexture — fibroglandular
 - 3 c. Heterogeneous background echotexture
-

NMD DATA DICTIONARY - VERSION 3.0

99 Unknown

NMD Field Number(s): 57

NMD Field Name: Amount of fibroglandular tissue (FGT) - Left breast

MRI only

Description: Assessed on fat-saturated T1W imaging or non-fat-saturated T1W imaging

Use: Required if audit data are reported at breast level, and amount of FGT in the right breast is not reported; optional otherwise

Response: Select one.

Values:

- 1 a. Almost entirely fat
- 2 b. Scattered fibroglandular tissue
- 3 c. Heterogeneous fibroglandular tissue
- 4 d. Extreme fibroglandular tissue
- 99 Unknown

NMD Field Number(s): 58

NMD Field Name: Amount of fibroglandular tissue (FGT) - Right breast

MRI only

Description: Assessed on fat-saturated T1W imaging or non-fat-saturated T1W imaging

Use: Required if audit data are reported at breast level, and amount of FGT in the left breast is not reported; optional otherwise

Response: Select one.

Values:

- 1 a. Almost entirely fat
- 2 b. Scattered fibroglandular tissue
- 3 c. Heterogeneous fibroglandular tissue

NMD DATA DICTIONARY - VERSION 3.0

4 d. Extreme fibroglandular tissue

99 Unknown

NMD Field Number(s): 59

NMD Field Name: Amount of fibroglandular tissue (FGT) - Patient level

MRI only

Description: Assessed on fat-saturated T1W imaging or non-fat-saturated T1W imaging

Use: Required if audit data are reported at patient level; optional otherwise

Response: Select one.

Values:

- 1 a. Almost entirely fat
- 2 b. Scattered fibroglandular tissue
- 3 c. Heterogeneous fibroglandular tissue
- 4 d. Extreme fibroglandular tissue
- 99 Unknown

NMD Field Number(s): 60

NMD Field Name: Background parenchymal enhancement (BPE): Level - Left breast

MRI only

Description: Background parenchymal enhancement (BPE): Level - Left breast

Use: Required if audit data are reported at breast level, and BPE for the right breast is not reported; optional otherwise

Response: Select one.

Values:

- 1 Minimal
- 2 Mild

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- 3 Moderate
- 4 Marked
- 99 Unknown

NMD Field Number(s): 61

NMD Field Name: Background parenchymal enhancement (BPE): Level - Right breast

MRI only

Description: Background parenchymal enhancement (BPE): Level - Right breast

Use: Required if audit data are reported at breast level, and BPE for the left breast is not reported; optional otherwise

Response: Select one.

Values:

- 1 Minimal
- 2 Mild
- 3 Moderate
- 4 Marked
- 99 Unknown

NMD Field Number(s): 62

NMD Field Name: Background parenchymal enhancement (BPE): Level - Patient level

MRI only

Description: Background parenchymal enhancement (BPE): Level - Patient level

Use: Required if audit data are reported at patient level; optional otherwise

Response: Select one.

Values:

- 1 Minimal

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- 2 Mild
- 3 Moderate
- 4 Marked
- 99 Unknown

NMD Field Number(s): 63

**NMD Field Name: Background parenchymal enhancement (BPE):
Symmetric or asymmetric**

MRI only

Description: Background parenchymal enhancement (BPE): Symmetric or asymmetric

Use: Required for bilateral scans; not applicable otherwise

Response: Select one.

Values:

- 1 Symmetric
- 2 Asymmetric
- 99 Unknown / Not applicable

NMD DATA DICTIONARY - VERSION 3.0

Findings

NMD Field Number(s): 64

NMD Field Name: Assessment - Left breast

Description: Assessment - Left breast

Use: Required if audit data are reported at breast level, and right breast assessment is not reported; optional otherwise

Response: Select one.

Values:

Incomplete Assessment

Do not include incomplete assessments needing comparison with prior studies or technical recall examinations in audit data.

- 0 Category 0:
(Mammography only)
Incomplete - Need additional imaging evaluation and/or prior mammograms for comparison
(Ultrasound and MRI only)
Incomplete - Need additional imaging evaluation

Final Assessment

- 1 Category 1: Negative
Essentially 0% likelihood of malignancy
- 2 Category 2: Benign
Essentially 0% likelihood of malignancy
- 3 Category 3: Probably benign
> 0% but ≤ 2% likelihood of malignancy
- 4 Category 4: Suspicious
> 2% but < 95% likelihood of malignancy

NMD DATA DICTIONARY - VERSION 3.0

- 5 Category 5: Highly suggestive of malignancy $\geq 95\%$ likelihood of malignancy
- 6 Category 6: Known biopsy-proven malignancy

NMD Field Number(s): 65

NMD Field Name: Assessment - Left breast - Subcategory of category 4

Description: Assessment - Left breast - Subcategory of category 4

Use: Optional if a category 4 assessment is reported; not applicable otherwise

Response: Select one.

Values:

- A Category 4A: Low suspicion for malignancy $> 2\%$ to $\leq 10\%$ likelihood of malignancy
- B Category 4B: Moderate suspicion for malignancy $> 10\%$ to $\leq 50\%$ likelihood of malignancy
- C Category 4C: High suspicion for malignancy $> 50\%$ to $< 95\%$ likelihood of malignancy

NMD Field Number(s): 66

NMD Field Name: Assessment - Right breast

Description: Assessment - Right breast

Use: Required if audit data are reported at breast level, and left breast assessment is not reported; optional otherwise

Response: Select one.

Values:

- Incomplete Assessment
Do not include incomplete assessments needing comparison with prior studies or technical recall examinations in audit data.

NMD DATA DICTIONARY - VERSION 3.0

- | | | |
|---|---|---|
| 0 | Category 0:
(Mammography only)
Incomplete - Need
additional imaging
evaluation and/or prior
mammograms for
comparison
(Ultrasound and MRI only)
Incomplete - Need
additional imaging
evaluation

Final Assessment | |
| 1 | Category 1: Negative | Essentially 0% likelihood of malignancy |
| 2 | Category 2: Benign | Essentially 0% likelihood of malignancy |
| 3 | Category 3: Probably benign | > 0% but ≤ 2% likelihood of malignancy |
| 4 | Category 4: Suspicious | > 2% but < 95% likelihood of malignancy |
| 5 | Category 5: Highly suggestive of malignancy | ≥ 95% likelihood of malignancy |
| 6 | Category 6: Known biopsy-proven malignancy | |

NMD Field Number(s): 67

NMD Field Name: Assessment - Right breast - Subcategory of category 4

Description: Assessment - Right breast - Subcategory of category 4

Use: Optional if a category 4 assessment is reported; not applicable otherwise

Response: Select one.

Values:

- | | | |
|---|---|--|
| A | Category 4A: Low suspicion for malignancy | > 2% to ≤ 10% likelihood of malignancy |
|---|---|--|

NMD DATA DICTIONARY - VERSION 3.0

- B Category 4B: Moderate suspicion for malignancy > 10% to ≤ 50% likelihood of malignancy
- C Category 4C: High suspicion for malignancy > 50% to < 95% likelihood of malignancy
-

NMD Field Number(s): 68

NMD Field Name: Assessment - Patient level

Description: Assessment - Patient level

Use: Required if audit data are reported at patient level; optional otherwise

Response: Select one.

Values:

Incomplete Assessment

Do not include incomplete assessments needing comparison with prior studies or technical recall examinations in audit data.

- 0 Category 0:
(Mammography only)
Incomplete - Need additional imaging evaluation and/or prior mammograms for comparison
(Ultrasound and MRI only)
Incomplete - Need additional imaging evaluation

Final Assessment

- 1 Category 1: Negative Essentially 0% likelihood of malignancy
- 2 Category 2: Benign Essentially 0% likelihood of malignancy
- 3 Category 3: Probably benign > 0% but ≤ 2% likelihood of malignancy

NMD DATA DICTIONARY - VERSION 3.0

- | | | |
|---|---|---|
| 4 | Category 4: Suspicious | > 2% but < 95% likelihood of malignancy |
| 5 | Category 5: Highly suggestive of malignancy | ≥ 95% likelihood of malignancy |
| 6 | Category 6: Known biopsy-proven malignancy | |

NMD Field Number(s): 69

NMD Field Name: **Assessment - Patient level - Subcategory of category 4**

Description: Assessment - Patient level - Subcategory of category 4

Use: Optional if a category 4 assessment is reported; not applicable otherwise

Response: Select one.

Values:

- | | | |
|---|--|---|
| A | Category 4A: Low suspicion for malignancy | > 2% to ≤ 10% likelihood of malignancy |
| B | Category 4B: Moderate suspicion for malignancy | > 10% to ≤ 50% likelihood of malignancy |
| C | Category 4C: High suspicion for malignancy | > 50% to < 95% likelihood of malignancy |

NMD DATA DICTIONARY - VERSION 3.0

NMD Field Number(s): 70

NMD Field Name: Overall assessment - Left breast

Description: Overall assessment for combinations of diagnostic breast imaging examinations, performed concurrently (e.g., mammography / ultrasound) - Left breast

Use: Required if component of combination examination; optional otherwise

Response: Select one.

Values:

Incomplete Assessment

Do not include incomplete assessments needing comparison with prior studies or technical recall examinations in audit data.

0 Category 0: Incomplete - Need additional imaging evaluation

Final Assessment

1 Category 1: Negative

Essentially 0% likelihood of malignancy

2 Category 2: Benign

Essentially 0% likelihood of malignancy

3 Category 3: Probably benign

> 0% but ≤ 2% likelihood of malignancy

4 Category 4: Suspicious

> 2% but < 95% likelihood of malignancy

5 Category 5: Highly suggestive of malignancy

≥ 95% likelihood of malignancy

6 Category 6: Known biopsy-proven malignancy

NMD DATA DICTIONARY - VERSION 3.0

NMD Field Number(s): 71

NMD Field Name: Overall assessment - Left breast - Subcategory of category 4

Description: Overall assessment for combinations of diagnostic breast imaging examinations, performed concurrently (e.g., mammography / ultrasound) - Left breast - Subcategory of category 4

Use: Optional if a category 4 assessment is reported; not applicable otherwise

Response: Select one.

Values:

- | | | |
|---|--|---|
| A | Category 4A: Low suspicion for malignancy | > 2% to ≤ 10% likelihood of malignancy |
| B | Category 4B: Moderate suspicion for malignancy | > 10% to ≤ 50% likelihood of malignancy |
| C | Category 4C: High suspicion for malignancy | > 50% to < 95% likelihood of malignancy |
-

NMD Field Number(s): 72

NMD Field Name: Overall assessment - Right breast

Description: Overall assessment for combinations of diagnostic breast imaging examinations, performed concurrently (e.g., mammography / ultrasound) - Right breast

Use: Required if component of combination examination; optional otherwise

Response: Select one.

Values:

- | | | |
|---|---|---|
| | Incomplete Assessment | Do not include incomplete assessments needing comparison with prior studies or technical recall examinations in audit data. |
| 0 | Category 0: Incomplete - Need additional imaging evaluation | |
-

NMD DATA DICTIONARY - VERSION 3.0

Final Assessment

- | | | |
|---|---|---|
| 1 | Category 1: Negative | Essentially 0% likelihood of malignancy |
| 2 | Category 2: Benign | Essentially 0% likelihood of malignancy |
| 3 | Category 3: Probably benign | > 0% but ≤ 2% likelihood of malignancy |
| 4 | Category 4: Suspicious | > 2% but < 95% likelihood of malignancy |
| 5 | Category 5: Highly suggestive of malignancy | ≥ 95% likelihood of malignancy |
| 6 | Category 6: Known biopsy-proven malignancy | |

NMD Field Number(s): 73

NMD Field Name: Overall assessment - Right breast - Subcategory of category 4

Description: Overall assessment for combinations of diagnostic breast imaging examinations, performed concurrently (e.g., mammography / ultrasound) - Right breast - Subcategory of category 4

Use: Optional if a category 4 assessment is reported; not applicable otherwise

Response: Select one.

Values:

- | | | |
|---|--|---|
| A | Category 4A: Low suspicion for malignancy | > 2% to ≤ 10% likelihood of malignancy |
| B | Category 4B: Moderate suspicion for malignancy | > 10% to ≤ 50% likelihood of malignancy |
| C | Category 4C: High suspicion for malignancy | > 50% to < 95% likelihood of malignancy |

NMD DATA DICTIONARY - VERSION 3.0

NMD Field Number(s): 74

NMD Field Name: Overall assessment - Patient level

Description: Overall assessment for combinations of diagnostic breast imaging examinations, performed concurrently (e.g., mammography / ultrasound) - Patient level

Use: Required if component of combination examination; optional otherwise

Response: Select one.

Values:

Incomplete Assessment

Do not include incomplete assessments needing comparison with prior studies or technical recall examinations in audit data.

0 Category 0: Incomplete - Need additional imaging evaluation

Final Assessment

1 Category 1: Negative

Essentially 0% likelihood of malignancy

2 Category 2: Benign

Essentially 0% likelihood of malignancy

3 Category 3: Probably benign

> 0% but ≤ 2% likelihood of malignancy

4 Category 4: Suspicious

> 2% but < 95% likelihood of malignancy

5 Category 5: Highly suggestive of malignancy

≥ 95% likelihood of malignancy

6 Category 6: Known biopsy-proven malignancy

NMD DATA DICTIONARY - VERSION 3.0

NMD Field Number(s): 75

NMD Field Name: Overall assessment - Patient level - Subcategory of category 4

Description: Overall assessment for combinations of diagnostic breast imaging examinations, performed concurrently (e.g., mammography / ultrasound) - Patient level - Subcategory of category 4

Use: Optional if a category 4 assessment is reported; not applicable otherwise

Response: Select one.

Values:

- | | | |
|---|--|---|
| A | Category 4A: Low suspicion for malignancy | > 2% to ≤ 10% likelihood of malignancy |
| B | Category 4B: Moderate suspicion for malignancy | > 10% to ≤ 50% likelihood of malignancy |
| C | Category 4C: High suspicion for malignancy | > 50% to < 95% likelihood of malignancy |
-

NMD Field Number(s): 76

NMD Field Name: Management - Left breast

Description: Management - Left breast

Use: Required if audit data are reported at breast level, and management for the right breast is not reported

Response: Select one.

Values:

- | | | |
|---|--------------------|---|
| 1 | (Mammography only) | Recall for additional imaging and/or comparison with prior examination(s) |
| | (Ultrasound only) | Recall for additional imaging |
| | (MRI only) | Recommend additional imaging: Mammogram or targeted ultrasound |
-

NMD DATA DICTIONARY - VERSION 3.0

2	(Mammography only)	Routine mammography screening
	(Ultrasound only)	Routine screening
	(MRI only)	Routine breast MRI screening if cumulative lifetime risk \geq 20%
3	(Mammography only)	Short-interval (6-month) follow-up or continued surveillance mammography
	(Ultrasound only)	Short-interval (6-month) follow-up or continued surveillance
	(MRI only)	Short-interval (6-month) follow-up
4	(All modalities)	Tissue diagnosis
5	(All modalities)	Surgical excision when clinically appropriate
6	(All modalities)	Other

NMD Field Number(s): 77

NMD Field Name: Management - Right breast

Description: Management - Right breast

Use: Required if audit data are reported at breast level, and management for the left breast is not reported

Response: Select one.

Values:

1	(Mammography only)	Recall for additional imaging and/or comparison with prior examination(s)
	(Ultrasound only)	Recall for additional imaging
	(MRI only)	Recommend additional imaging: Mammogram or targeted ultrasound
2	(Mammography only)	Routine mammography screening

NMD DATA DICTIONARY - VERSION 3.0

	(Ultrasound only)	Routine screening
	(MRI only)	Routine breast MRI screening if cumulative lifetime risk \geq 20%
3	(Mammography only)	Short-interval (6-month) follow-up or continued surveillance mammography
	(Ultrasound only)	Short-interval (6-month) follow-up or continued surveillance
	(MRI only)	Short-interval (6-month) follow-up
4	(All modalities)	Tissue diagnosis
5	(All modalities)	Surgical excision when clinically appropriate
6	(All modalities)	Other

NMD Field Number(s): 78

NMD Field Name: Management - Patient level

Description: Management - Patient level

Use: Required if audit data are reported at patient level; optional otherwise

Response: Select one.

Values:

	1 (Mammography only)	Recall for additional imaging and/or comparison with prior examination(s)
	(Ultrasound only)	Recall for additional imaging
	(MRI only)	Recommend additional imaging: Mammogram or targeted ultrasound
2	(Mammography only)	Routine mammography screening
	(Ultrasound only)	Routine screening

NMD DATA DICTIONARY - VERSION 3.0

	(MRI only)	Routine breast MRI screening if cumulative lifetime risk \geq 20%
3	(Mammography only)	Short-interval (6-month) follow-up or continued surveillance mammography
	(Ultrasound only)	Short-interval (6-month) follow-up or continued surveillance
	(MRI only)	Short-interval (6-month) follow-up
4	(All modalities)	Tissue diagnosis
5	(All modalities)	Surgical excision when clinically appropriate
6	(All modalities)	Other

NMD DATA DICTIONARY - VERSION 3.0

Pathology Data

NMD Field Number(s): 79

NMD Field Name: Date of biopsy

Description: Date of biopsy

Use: Required if biopsy performed; not applicable otherwise

Response: Indicate date of biopsy.

Values: Any valid date in mm/dd/yyyy format

NMD Field Number(s): 80

NMD Field Name: Biopsy procedure

Description: Biopsy procedure

Use: Required

Response: Select one.

Values:

- 1 Fine needle aspiration cytology
- 2 Core biopsy
- 3 Cyst aspiration - diagnostic
- 4 Incisional biopsy
- 5 Excisional biopsy
- 6 Mastectomy
- 99 Not applicable / Not available

NMD DATA DICTIONARY - VERSION 3.0

NMD Field Number(s): 81

NMD Field Name: Classification of lesion

Description: Classification of lesion

Use: Required

Response: Select one per lesion reported. Refer to Pathology Code Appendix for classification by pathology code.

Values:

- 1 Benign
 - 2 High Risk
 - 3 Malignant
 - 99 Not applicable / Not available
-

NMD Field Number(s): 82

NMD Field Name: Malignancy type

Description: Malignancy type

Use: Required

Response: Select one. Refer to Pathology Code Appendix for malignancy type by pathology code.

Values:

- 1 Invasive
- 2 DCIS
- 88 Other
- 99 Not applicable / Not available

NMD DATA DICTIONARY - VERSION 3.0

NMD Field Number(s): 83

NMD Field Name: Pathological size of tumor

Description: Pathological size of tumor

Use: Required if breast cancer pathology identified; not applicable otherwise

Response: Indicate tumor size in mm.

Values: 0 - 999.9

NMD Field Number(s): 84

NMD Field Name: Histology grade

Description: Histology grade. For invasive carcinomas, the AJCC Cancer Staging Manual, 7th Edition (2010), recommends using the Nottingham combined histologic grade (Elston-Ellis modification of the Scarff-Bloom-Richardson grading system).

Use: Required

Response: Select one.

Values:

- 0 Invasive carcinoma: GX - Grade cannot be assessed
 - 1 Invasive carcinoma: G1 - Low combined histologic grade (favorable)
 - 2 Invasive carcinoma: G2 - Intermediate combined histologic grade (moderately favorable)
 - 3 Invasive carcinoma: G3 - High combined histologic grade (unfavorable)
 - 4 DCIS: Low grade
 - 5 DCIS: Intermediate grade
-

NMD DATA DICTIONARY - VERSION 3.0

6 DCIS: High grade

99 Not applicable / Not available

NMD Field Number(s): 85

NMD Field Name: Nodes removed

Description: Nodes removed

Use: Required

Response: Indicate number of nodes removed.

Values: Any integer between 0 and 99

NMD Field Number(s): 86

NMD Field Name: Nodes positive

Description: The number of nodes removed that were positive for breast cancer.

Use: Required if "Nodes removed" > 0; not applicable otherwise

Response: Indicate number of nodes positive for cancer.

Values: Any integer between 0 and 99

NMD Field Number(s): 87

NMD Field Name: Tumor stage

Description: Tumor stage as defined in the AJCC Cancer Staging Manual, 7th Edition (2010).

Use: Required

Response: Select one.

Values:

0 Stage 0

1A Stage IA

NMD DATA DICTIONARY - VERSION 3.0

- 1B Stage IB
- 2A Stage IIA
- 2B Stage IIB
- 3A Stage IIIA
- 3B Stage IIIB
- 3C Stage IIIC
- 4 Stage IV
- 99 Not applicable / Not available

NMD Field Number(s): 88

NMD Field Name: Primary tumor

Description: Primary tumor as defined in the AJCC Cancer Staging Manual, 7th Edition (2010)

Use: Required

Response: Select one.

Values:

- 1 TX
- 2 T0
- 3 Tis
- 4 Tis (DCIS)
- 5 Tis (LCIS)
- 6 Tis (Paget's)
- 7 T1
- 8 T1mi
- 9 T1a
- 10 T1b

NMD DATA DICTIONARY - VERSION 3.0

- 11 T1c
- 12 T2
- 13 T3
- 14 T4
- 15 T4a
- 16 T4b
- 17 T4c
- 18 T4d
- 99 Not applicable / Not available

NMD Field Number(s): 89

NMD Field Name: Regional lymph nodes

Description: Regional lymph nodes as defined in the AJCC Cancer Staging Manual, 7th Edition (2010)

Use: Required

Response: Select one.

Values:

- 1 NX
- 2 N0
- 3 N1
- 4 N2
- 5 N2a
- 6 N2b
- 7 N3
- 8 N3a
- 9 N3b

NMD DATA DICTIONARY - VERSION 3.0

10 N3c

99 Not applicable / Not available

NMD Field Number(s): 90

NMD Field Name: Distant metastases

Description: Distant metastases as defined in the AJCC Cancer Staging Manual, 7th Edition (2010)

Use: Required

Response: Select one.

Values:

1 M0

2 cM0(i+)

3 M1

99 Not applicable / Not available

NMD DATA DICTIONARY - VERSION 3.0

PATHOLOGY CODE APPENDIX

Benign:

AB	Abscess
AD	Adenosis
AL	Adenolipoma
AM	Apocrine Metaplasia
AME	Adenomyoepithelioma
AMY	Amyloid (tumor)
ANA	Angiolipoma
ANH	Axillary node with reactive lymphoid hyperplasia
BAN	Benign axillary node
BC	Benign cyst
BCB	Benign cyst with blood
BCL	Benign Calcifications
CP	Intracystic papilloma
DE	Duct ectasia
DF	Diabetic fibrous mastopathy
DHU	Ductal hyperplasia, Usual
EBT	Ectopic (accessory) breast tissue
EC	Epidermal inclusion cyst
FA	Fibroadenoma
FAH	Fibroadenomatoid hyperplasia
FAL	Fibroadenolipoma
FB	Foreign body (reaction)
FC	Fibrocystic change
FF	Focal fibrosis
FM	Fibromatosis
FN	Fat necrosis
GA	Galactocele
GC	Granular cell tumor
GF	Giant fibroadenoma
GYN	Gynecomastia
HA	Hamartoma
HE	Hemangioma
HES	Hemangioma – nonparenchymal, subcutaneous
HEV	Hemangioma - venous
HM	Hematoma
IF	Inflammation
IMN	Intramammary lymph node
IN	Infarct
IP	Intraductal papilloma
JF	Juvenile fibroadenoma
JP	Juvenile papillomatosis
LA	Lactating adenoma
LB	Lipoma of the breast
LC	Lactational change
LM	Leiomyoma
MFB	Myofibroblastoma
MGA	Microglandular adenosis
MIP	Multiple intraductal papillomas
NA	No abnormality
NBT	Normal breast tissue
NFA	Neurofibroma
NFS	Neurofibromatosis
NPA	Nipple adenoma

Benign (continued):

PA	Papilloma
PL	Pleomorphic adenoma
PLC	Pseudolactational change
PSH	Pseudoangiomatous stromal hyperplasia
RS	Radial scar
SA	Sclerosing adenosis
SE	Seroma
SG	Silicone granuloma
ST	Scar tissue
TA	Tubular adenoma
High Risk:	
ADH	Atypical ductal hyperplasia
AH	Atypical hyperplasia
ALH	Atypical lobular hyperplasia
FEA	Flat epithelial atypia
LS	Lobular carcinoma in-situ (LCIS)
PDP	Peripheral duct papillomas
PLS	Pleomorphic lobular carcinoma in-situ
PT	Phyllodes tumor-Benign

Malignant - Invasive:

ADC	Adenoid cystic carcinoma
AP	Apocrine carcinoma
AS	Angiosarcoma
CC	Mucinous (colloid) carcinoma
CED	Carcinoma with endocrine differentiation
FS	Fibrosarcoma
GRC	Glycogen-rich carcinoma
HAP	Hemangiopericytoma
ICC	Invasive cribriform carcinoma
ICP	Intracystic papillary carcinoma (may be either invasive or DCIS)
ID	Invasive ductal carcinoma
IL	Invasive lobular carcinoma
IMC	Invasive mammary carcinoma
INC	Inflammatory carcinoma
IPC	Invasive papillary carcinoma
LMS	Leiomyosarcoma
LPS	Liposarcoma
LRC	Lipid-rich (lipid-secreting) carcinoma
LVI	Lymphovascular invasion
MC	Medullary carcinoma
SC	Signet ring cell carcinoma
SJC	Secretory carcinoma
TC	Tubular carcinoma

Malignant – Non-Invasive:

DCS	Ductal carcinoma in situ
DCL	Ductal carcinoma in situ low nuclear grade
DCI	Ductal carcinoma in situ intermediate nuclear grade
DCH	Ductal carcinoma in situ high nuclear grade
ICP	Intracystic papillary carcinoma
PC	Papillary carcinoma in-situ

Malignant - Other

ANL	Axillary node with lymphoma
ANM	Axillary nodal with metastatic carcinoma
BCN	Basal cell carcinoma of the nipple
HL	Hodgkin's lymphoma
LI	Leukemic infiltration
LY	Lymphoma
MAN	Occult carcinoma presenting with axillary lymph node metastases
MB	Metastatic cancer to the breast
MBC	Metastatic cancer to the breast from the colon
MBL	Metastatic cancer to the breast from the lung
MBM	Metastatic melanoma to the breast
MBO	Metastatic cancer to the breast from the ovary
MBS	Metastatic sarcoma to the breast
MIM	Metastasis to an intramammary lymph node
MMN	Malignant melanoma of the nipple
MPC	Metaplastic carcinoma
NHL	Non-Hodgkin lymphoma
NMS	Neoplasm of the mammary skin
OS	Osteosarcoma
PD	Paget's disease (of the nipple)
PLS	Plasmacytoma
PTB	Phyllodes tumor – borderline
PTM	Phyllodes tumor – malignant
PUS	Pleomorphic undifferentiated sarcoma
SCN	Squamous cell carcinoma of the nipple
SQ	Squamous cell carcinoma