



UM-CDG-033 Breast Imaging

Approved By:
Director, Health Services

Effective Date:
10/22/2025

This Policy applies to all SECUR affiliates, associates, and subsidiaries.

Approved by Courtney Gonzales, Director of Health Services on behalf of the Utilization Management Committee.

PURPOSE

This coverage determination guideline serves to address diagnostic breast imaging utilized when there are signs and/or symptoms suggestive of breast cancer or a history of breast cancer exists. A variety of techniques may be utilized.

For SECUR Health Plan members, National Coverage Determinations (NCD) and Local Coverage Determinations (LCD) will be applied to requests when applicable. SECUR Health Plan Coverage Determination Guidelines (CDG) will be utilized in the absence of an appropriate NCD and/or LCD.

DEFINITIONS

Mammography: most widely used imaging modality for the detection of breast cancer that uses a specialized x-ray that is transmitted through breast and surrounding tissue and produces two dimensional images. Images may be recorded using digital detectors known as full field digital mammography (FFDM).

Contrast Enhanced Mammogram: uses intravenous administration of contrast dye containing iodine to enhance visibility of breast lesions and highlight areas with unusual blood flow. May also be referred to as contrast enhanced spectral mammography or contrast enhanced digital mammography.

Digital Breast Tomosynthesis (DBT): three-dimensional breast imaging technique based on two dimensional FFDM mammography that is similar to computed tomography (CT) scan that only contain images of the breast(s).

Magnetic Resonance Imaging (MRI): creates images of the breast(s) by measuring changes in the movement of protons in fat and water with the application of changing magnetic fields.

Computer-aided Detection (CAD): software systems, CADe [detection] and CADx [diagnosis] assess images for patters that may represent microcalcifications or masses indicative of breast cancer. This method is intended a second examination of images and does not replace a radiologist.

Positron Emission Tomography (PET): generates three-dimensional images of tissue metabolism by using a radioactive tracer that is thought to accumulate in rapidly dividing and metabolizing tissue, such as tumors.

Ultrasonography (Ultrasound): uses high energy sound waves to create echoes that form images of tissues or organs.

Optoacoustic Ultrasound: non-invasive scan that combines the use of light and conventional ultrasound to produce high-resolution images that purportedly identify submillimeter vascular structures and tumors as small as 3 mm.

Tactile Breast Imaging: uses a hand-held device which integrates ultrasound shear-wave elastography with computer-aided sensors to produce a map of abnormal breast tissues and masses.

Three-Dimensional Computed Tomography (3D CT): uses x-ray and computers to produce thin cross-sectional views or slices of the body.

Artificial Intelligence (AI) Software: alleged to automatically detect and characterize suspicious soft tissue

lesions and calcifications from mammography/DBT or compare fibroglandular volume calculations from ultrasound images to assess the likelihood of malignance.

Electrical Impedance Tomography (EIT): involves the transmission of electrical currents into the body via a handheld device and electrode placed on the arm.

Molecular Breast Imaging (MBI): nuclear medicine scan that may be performed following abnormal or inconclusive mammography to determine the need for biopsy.

Optical Imaging: non-invasive test conducted by shining high intensity infrared light through the breast or reflecting such light off the breast.

Thermography (digital infrared thermal imaging): uses an infrared camera to detect temperature differences within breast tissue.

POLICY

Diagnostic Mammography

SECUR Health Plan will consider diagnostic mammography with or without the use of CAD, contrast enhancement, or DBT as medically necessary when the following are met:

1. Breast abnormality as indicated by one or more of the following:
 - Abnormal findings identified on ultrasound or mammography, or
 - Abnormal nipple and/or areolar symptoms, or
 - Axillary lymphadenopathy of undetermined origin, or
 - Benign, biopsy proven, breast disease, or
 - Breast abnormality on clinical exam, or
 - Breast implant rupture, known or suspected, or
 - Short interval (6 months or less) follow up necessary for unresolved clinical/radiographic concern(s), or
 - Suspected inflammatory breast cancer (IBC), or
2. Known breast cancer and one or more of the following:
 - Assessment of tumor response to preoperative chemotherapy to determine appropriateness of breast conserving surgery, or
 - Following initial treatment for breast cancer, or
 - Post-excision to determine adequacy of excision, or
 - Post radiation therapy, or
3. Occult breast cancer suspected as indicated by diagnosis of adenocarcinoma or carcinoma not otherwise specified and no palpable breast mass suitable for biopsy, or
4. Repeat evaluation indicated by a change in clinical status or following a core needle biopsy of nonmalignant breast mass or re-imaging prior to or following an invasive procedure.

Diagnostic MRI

SECUR Health Plan will consider breast MRI, with or without the use of CAD, medically necessary when the following is met:

1. Breast abnormality evaluation is needed, indicated by one or more of the following:
 - Anatomic guidance during biopsy of a breast lesion, or
 - Breast implant complication suspected, or
 - Nipple discharge present and etiology was indeterminate on mammography or ultrasound, or
 - Positive axillary nodes without a known primary cancer source, or
 - Suspected Paget disease of the breast and negative mammogram, or
 - Equivocal mammogram results and the member is a candidate for MRI-directed needle biopsy,

nonpalpable breast lesion not visible on ultrasound and not amenable to fine needle biopsy, and ultrasound findings are indeterminate

2. Known breast cancer and one or more of the following:
 - Assessment of tumor response to preoperative chemotherapy to determine appropriateness of breast conserving surgery, or
 - Confirmed diagnosis of Paget disease to define, extend, or identify additional disease, or
 - Evaluation for suspected cancer recurrence, or
 - Evaluation of newly diagnosed member with a negative or indeterminate mammogram result for contralateral breast involvement, or
 - Further evaluation of invasive breast cancer, or
 - Locoregional staging when there is a high risk or suspicion of occult disease, or
 - Postsurgical follow up as indicated by assessment for residual disease with close or positive margins following lumpectomy, or surveillance in contralateral breast in a member at high risk, or suspected tumor recurrence at lumpectomy site with negative or equivocal mammogram, or
3. Occult breast cancer suspected as indicated by all the following:
 - Diagnosis of adenocarcinoma or carcinoma, not otherwise specified, and
 - Mammogram and breast ultrasound show no evidence of cancer, and
 - No palpable breast mass suitable for biopsy, or
4. Repeat evaluation required as indicated by one or more of the following:
 - Change in clinical status, or
 - Following a core needle biopsy, or
 - Re-imaging prior to or following an invasive procedure

Screening MRI

SECUR Health Plan considers breast MRI, with or without the use of CAD, medically necessary when the following is met:

1. Absence of prior breast or ovarian cancer and one or more of the following:
 - Carrier of pathogenic or likely pathogenic variant high risk breast cancer gene, or
 - Individual has a diagnosis of or has a first degree relative with Bannayan-Riley-Ruvalcaba syndrome, Cowden syndrome, hereditary diffuse gastric cancer with pathogenic or likely pathogenic variant of CDH1 gene, or Li-Fraumeni syndrome and/or Peutz-Jeghers syndrome, or
 - Lifetime risk estimated at greater than or equal to 20% based on familial risk stratification tool, or
 - Other high risk family history indicated by at least one first, second, or third degree relative with male breast cancer, or member has a first degree relative who is a carrier of pathogenic or likely pathogenic variant high risk breast cancer gene BRCA1 or BRCA2, or previous radiation to the chest between ages 10-30.

PET Scan

SECUR Health Plan considers PET scan of the breast medically necessary when the following is met:

1. Additional imaging information is required for one or more of the following:
 - Equivocal or suspicious findings on MRI, or
 - Locally advanced breast cancer, or
 - Planned invasive diagnostic or therapeutic procedures for breast cancer where assessment is needed for identifying appropriateness or anatomic location, or
 - Subsequent staging/restaging is needed for diagnosed breast cancer or for monitoring treatment response

SECUR Health Plan considers the following as not medically necessary for any member:

1. 3D CT
2. AI software used in conjunction with mammography, DBT, or ultrasound
3. CAD for breast ultrasonography
4. Electrical impedance tomography (EIT)
5. Molecular breast imaging
6. Optoacoustic ultrasound
7. Tactile breast imaging

References:

1. American Cancer Society (ACS). American Cancer Society guidelines for breast cancer screening with MRI as an adjunct to mammography. <https://www.cancer.org>. Published March/April 2007. Updated December 31, 2008.
2. American College of Obstetricians and Gynecologists (ACOG). Committee Opinion. Hereditary cancer syndromes and risk assessment. <https://www.acog.org>. Published December 2019. Updated 2020.
3. American College of Obstetricians and Gynecologists (ACOG). Practice Bulletin. Diagnosis and management of benign breast disorders. <https://www.acog.org>. Published June 2016. Updated 2023.
4. American College of Obstetricians and Gynecologists (ACOG). Practice Bulletin. Hereditary breast and ovarian cancer syndrome. <https://www.acog.org>. Published September 2017. Updated 2021.
5. American College of Obstetricians and Gynecologists (ACOG). Technology Assessment. Digital breast tomosynthesis. <https://www.acog.org>. Published June 2013. Updated 2024.
6. American College of Radiology (ACR). ACR Appropriateness Criteria. Breast implant evaluation. <https://www.acr.org>. Updated 2023.
7. American College of Radiology (ACR). ACR Appropriateness Criteria. Breast pain. <https://www.acr.org>. Updated 2018.
8. American College of Radiology (ACR). ACR Appropriateness Criteria. Evaluation of nipple discharge. <https://www.acr.org>. Updated 2022.
9. American College of Radiology (ACR). ACR Appropriateness Criteria. Evaluation of the symptomatic male breast. <https://www.acr.org>. Updated 2018.
10. American College of Radiology (ACR). ACR Appropriateness Criteria. Female breast cancer screening. <https://www.acr.org>. Updated 2023.
11. American College of Radiology (ACR). ACR Appropriateness Criteria. Imaging after breast surgery. <https://www.acr.org>. Published 2022.
12. American College of Radiology (ACR). ACR Appropriateness Criteria. Imaging after mastectomy and breast reconstruction. <https://www.acr.org>. Published 2020.
13. American College of Radiology (ACR). ACR Appropriateness Criteria. Imaging of invasive breast cancer. <https://www.acr.org>. Published 2023.
14. American College of Radiology (ACR). ACR Appropriateness Criteria. Monitoring response to neoadjuvant systemic therapy for breast cancer. <https://www.acr.org>. Updated 2022.
15. American College of Radiology (ACR). ACR Appropriateness Criteria. Palpable breast masses. <https://www.acr.org>. Updated 2022.
16. American College of Radiology (ACR). ACR BI-RADS Atlas: Breast imaging reporting and data system 2013. 5th ed. Breast MRI. <https://www.acr.org>. Published 2013.
17. American College of Radiology (ACR). ACR BI-RADS Atlas: Breast imaging reporting and data system 2013. 5th ed. Contrast enhanced mammography (CEM): a supplement to ACR BI-RADS Mammography 2013. <https://www.acr.org>. Published 2022.
18. American College of Radiology (ACR). ACR BI-RADS Atlas: Breast imaging reporting and data

- system 2013. 5th ed. Mammography. <https://www.acr.org>. Published 2013.
19. American College of Radiology (ACR). ACR practice parameter for the performance of contrast-enhanced magnetic resonance imaging (MRI) of the breast. <https://www.acr.org>. Published 2004. Updated 2023.
 20. American College of Radiology (ACR). ACR practice parameter for the performance of digital breast tomosynthesis (DBT). <https://www.acr.org>. Published 2018. Updated 2023.
 21. American College of Radiology (ACR). ACR practice parameter for the performance of molecular breast imaging (MBI) using a dedicated gamma camera. <https://www.acr.org>. Published 2017. Updated 2022.
 22. American College of Radiology (ACR). ACR practice parameter for the performance of screening and diagnostic mammography. <https://www.acr.org>. Published 2008. Updated 2023.
 23. American Society for Radiation Oncology (ASTRO). Management of hereditary breast cancer: American Society of Clinical Oncology, American Society for Radiation Oncology, and Society of Surgical Oncology guideline. <https://www.astro.org>. Published April 4, 2020.
 24. American Society of Breast Surgeons (ASBS). Consensus guideline on diagnostic and screening magnetic resonance imaging of the breast. <https://www.breastsurgeons.org>. Published June 22, 2017.
 25. American Society of Clinical Oncology (ASCO). Management of male breast cancer: ASCO guideline. <https://www.asco.org>. Published February 14, 2020.
 26. American Society of Plastic Surgeons (ASPS). ASPS statement on breast implant associated-squamous cell carcinoma (BIA-SCC). <https://www.plasticsurgery.org>. Published September 8, 2022.
 27. Centers for Medicare & Medicaid Services (CMS). Medicare Benefit Policy Manual. Preventive and screening services. <https://www.cms.gov>. Published April 1, 2008. Updated October 12, 2023.
 28. Centers for Medicare & Medicaid Services (CMS). Local Coverage Article (LCA). Billing and coding: Independent diagnostic testing facilities (IDTF) (A53252). <https://www.cms.gov>. Published October 1, 2015. Updated April 25, 2024.
 29. Centers for Medicare & Medicaid Services (CMS). Local Coverage Article (LCA). Billing and coding: Independent diagnostic testing facilities (IDTF) (A57807). <https://www.cms.gov>. Published October 3, 2018. Updated April 25, 2024.
 30. Centers for Medicare & Medicaid Services (CMS). Local Coverage Article (LCA). Billing and coding: Independent diagnostic testing facilities (IDTF) (A58559). <https://www.cms.gov>. Published April 1, 2021. Updated March 21, 2024.
 31. Centers for Medicare & Medicaid Services (CMS). Local Coverage Article (LCA). Billing and coding: Tomosynthesis-guided breast biopsy (A57848). <https://www.cms.gov>. Published January 1, 2020. Updated January 1, 2023.
 32. Centers for Medicare & Medicaid Services (CMS). Local Coverage Article (LCA). Billing and coding: Tomosynthesis-guided breast biopsy (A57849). <https://www.cms.gov>. Published January 1, 2020. Updated January 1, 2023.
 33. Centers for Medicare & Medicaid Services (CMS). Local Coverage Article (LCA). Independent diagnostic testing facilities- physician supervision and technician requirements (A54953). <https://www.cms.gov>. Published April 1, 2016. Updated January 1, 2024.
 34. Centers for Medicare & Medicaid Services (CMS). Local Coverage Determination (LCD). Breast imaging: breast echography (sonography)/breast MRI/ductography (L33585). <https://www.cms.gov>. Published October 1, 2015. Updated October 24, 2019.
 35. Centers for Medicare & Medicaid Services (CMS). Local Coverage Determination (LCD). Breast imaging mammography/breast echography (sonography)/breast MRI/ductography (L33950). <https://www.cms.gov>. Published October 1, 2015. Updated December 7, 2023.
 36. Centers for Medicare & Medicaid Services (CMS). Local Coverage Determination (LCD). Positron emission tomography (PET) scan for inflammation and infection (L39521).

- <https://www.cms.gov>. Published August 13, 2023.
37. Centers for Medicare & Medicaid Services (CMS). National Coverage Determination (NCD). Magnetic resonance imaging (220.2). <https://www.cms.gov>. Published December 10, 2018.
 38. Centers for Medicare & Medicaid Services (CMS). National Coverage Determination (NCD). Mammograms (220.4). <https://www.cms.gov>. Published May 15, 1978.
 39. Centers for Medicare and Medicaid Services (CMS). National Coverage Determination (NCD). Positron emission tomography (FDG) for oncologic conditions (220.6.17). <https://www.cms.gov>. Published June 11, 2013.
 40. Centers for Medicare and Medicaid Services (CMS). National Coverage Determination (NCD). Ultrasound Diagnostic Procedures (220.5). <https://www.cms.gov>. Published May 22, 2007.
 41. Centers for Medicare and Medicaid Services (CMS). National Coverage Determination (NCD). Thermography (220.11). <https://www.cms.gov>. Published December 21, 1992.
 42. ECRI Institute. Clinical Evidence Assessment. Breast computed tomography for diagnosing breast cancer and ductal carcinoma in situ. <https://www.ecri.org>. Published November 30, 2020.
 43. ECRI Institute. Clinical Evidence Assessment. Imagio Breast Imaging System (Seno Medical Instruments, Inc.) for evaluating breast lesions. <https://www.ecri.org>. Published November 9, 2022.
 44. ECRI Institute. Clinical Evidence Assessment. Paige Breast System (Paige AI, Inc.) for identifying suspicious breast lesions. <https://www.ecri.org>. Published August 1, 2023.
 45. ECRI Institute. Clinical Evidence Assessment. Shear-wave ultrasound elastography for aiding breast cancer diagnosis. <https://www.ecri.org>. Published January 30, 2014. Updated January 7, 2022.
 46. ECRI Institute. Evidence Report. Breast-specific gamma imaging for breast cancer. <https://www.ecri.org>. Published March 22, 2013.
 47. ECRI Institute. Hotline Response. Selection criteria for magnetic resonance imaging for breast cancer screening. <https://www.ecri.org>. Published February 5, 2020.
 48. ECRI Institute. Product Brief (ARCHIVED). Koning Breast CT (Koning Corp.) for three-dimensional diagnostic imaging. <https://www.ecri.org>. Published September 8, 2015.
 49. Hayes, Inc. Evidence Analysis Research Brief. Contrast enhanced spectral mammography for breast cancer screening in patients at average risk. <https://evidence.hayesinc.com>. Published July 31, 2023.
 50. Hayes, Inc. Evidence Analysis Research Brief. Contrast enhanced spectral mammography for breast cancer screening in patients at high risk. <https://evidence.hayesinc.com>. Published July 20, 2023.
 51. Hayes, Inc. Health Technology Brief. Combined positron emission tomography and magnetic resonance imaging for breast cancer staging. <https://evidence.hayesinc.com>. Published March 24, 2016. Updated April 13, 2018.
 52. Hayes, Inc. Health Technology Brief. Digital infrared imaging (thermography) for the detection of breast cancer. <https://evidence.hayesinc.com>. Published July 7, 2006. Updated July 23, 2008.
 53. Hayes, Inc. Health Technology Brief. Magnetic resonance imaging (MRI) for surveillance for breast cancer recurrence following mastectomy and breast reconstruction. <https://evidence.hayesinc.com>. Published August 21, 2014. Updated July 12, 2016.
 54. Hayes, Inc. Medical Technology Directory. Computer-aided detection (CADe) and computer-aided diagnosis (CADx) for mammography. <https://evidence.hayesinc.com>. Published April 27, 2011. Updated April 10, 2015.
 55. Hayes, Inc. Medical Technology Directory. Computer-aided detection (CADx) systems for breast ultrasonography: cancer detection and diagnosis. <https://evidence.hayesinc.com>. Published August 31, 2011. Updated July 10, 2015.
 56. Hayes, Inc. Medical Technology Directory. Digital breast tomosynthesis for breast cancer diagnosis and screening. <https://evidence.hayesinc.com>. Published October 24, 2017. Updated December 3, 2021.

57. Hayes, Inc. Medical Technology Directory. Magnetic resonance imaging for breast cancer screening in women at high risk. <https://evidence.hayesinc.com>. Published May 21, 2007. Updated July 14, 2011.
58. Hayes, Inc. Medical Technology Directory. Positron emission tomography (PET) for breast cancer. <https://evidence.hayesinc.com>. Published August 19, 2003. Updated January 10, 2008.
59. Lee J, Kang B, Kim S, Park G. Evaluation of computer-aided detection (CAD) in screening automated breast ultrasound based on characteristics of marks and false-positive marks. *Diagnostics*. 2022;12(3):583.
60. MCG Health. Breast MRI. <https://Humana and subsidiaries.access.mcg.com/index>.
61. MCG Health. Breast ultrasound. <https://Humana and subsidiaries.access.mcg.com/index>.
62. MCG Health. Mammography. <https://Humana and subsidiaries.access.mcg.com/index>.
63. MCG Health. Tumor imaging positron emission tomography (PET) and PET-CT. <https://Humana and subsidiaries.access.mcg.com/index>.
64. National Comprehensive Cancer Network (NCCN). NCCN Clinical Practice Guidelines in Oncology. Breast cancer screening and diagnosis. <https://www.nccn.org>. Updated June 17, 2024.
65. National Comprehensive Cancer Network (NCCN). NCCN Clinical Practice Guidelines in Oncology. Genetic/familial high-risk assessment: breast, ovarian, and pancreatic. <https://www.nccn.org>. Updated February 12, 2024.
66. Niu S, Huang J, Li J, et al. Application of ultrasound artificial intelligence in the differential diagnosis between benign and malignant breast lesions of B-RADS 4A. *BMC Cancer*. 2020;20:1-7.
67. Rezanejad Gatabi Z, Mirhoseini M, Khajeali N, Rezanezhad Gatabi I, Dabbahianamiri M, Dorri S. The accuracy of electrical impedance tomography for breast cancer detection: a systematic review and meta-analysis. *Breast J*. 2022;2022:1-9.
68. Society of Nuclear Medicine & Molecular Imaging (SNMMI). Appropriate Use Criteria for FDG PET/CT in restaging and treatment response assessment of malignant disease. <https://www.snmmi.org>. Published July 20, 2017.
69. UpToDate, Inc. Approach to the patient following treatment for breast cancer. <https://www.uptodate.com>. Updated May 2024.
70. UpToDate, Inc. Breast cancer in men. <https://www.uptodate.com>. Updated May 16, 2024.
71. UpToDate, Inc. Breast cysts: clinical manifestations, diagnosis, and management. <https://www.uptodate.com>. Updated May 2024.
72. UpToDate, Inc. Breast ductal carcinoma in situ: epidemiology, clinical manifestations, and diagnosis. <https://www.uptodate.com>. Updated May 2024.
73. UpToDate, Inc. Breast pain. <https://www.uptodate.com>. Updated May 2024.
74. UpToDate, Inc. Breast sarcoma: epidemiology, risk factors, clinical presentation, diagnosis, and staging. <https://www.uptodate.com>. Updated May 2024.
75. UpToDate, Inc. Cancer risks and management of BRCA1/2 carriers without cancer. <https://www.uptodate.com>. Updated May 2024.
76. UpToDate, Inc. Clinical manifestations and evaluation of locoregional recurrences of breast cancer. <https://www.uptodate.com>. Updated May 2024.
77. UpToDate, Inc. Clinical manifestations, differential diagnosis, and clinical evaluation of a palpable breast mass. <https://www.uptodate.com>. Updated May 2024.
78. UpToDate, Inc. Diagnostic evaluation of suspected breast cancer. <https://www.uptodate.com>. Updated May 2024.
79. UpToDate, Inc. Inflammatory breast cancer: clinical features and treatment. <https://www.uptodate.com>. Updated May 2024.
80. UpToDate, Inc. Li-Fraumeni syndrome. <https://www.uptodate.com>. Updated May 2024.
81. UpToDate, Inc. MRI of the breast and emerging technologies. <https://www.uptodate.com>. Updated

May 2024.

82. UpToDate, Inc. Nipple discharge. <https://www.uptodate.com>. Updated May 2024.
83. UpToDate, Inc. Overview of hereditary breast and ovarian cancer syndromes. <https://www.uptodate.com>. Updated May 2024.
84. UpToDate, Inc. Overview of long-term complications of therapy in breast cancer survivors and patterns of relapse. <https://www.uptodate.com>. Updated July 2023.
85. UpToDate, Inc. Paget disease of the breast (PDB). <https://www.uptodate.com>. Updated May 2024.
86. UpToDate, Inc. Peutz-Jeghers syndrome: clinical manifestations, diagnosis, and management. <https://www.uptodate.com>. Updated May 2024.

87. UpToDate, Inc. Phyllodes tumors of the breast. <https://www.uptodate.com>. Updated May 2024.
88. UpToDate, Inc. Screening for breast cancer: strategies and recommendations. <https://www.uptodate.com>. Updated June 24, 2024.
89. US Food & Drug Administration (FDA). Safety Communication (ARCHIVED). FDA warns thermography should not be used in place of mammography to detect, diagnose or screen for breast cancer. <https://www.fda.gov>. Published February 25, 2019.
90. US Preventive Services Task Force (USPSTF). Recommendation Statement. Risk assessment, genetic counseling, and genetic testing for BRCA-related cancer. <https://www.uspreventiveservicestaskforce.org>. Published August 20, 2019.
91. Yoon JH, Strand F, Baltzer PA, et al. Standalone AI for breast cancer detection at screening digital mammography and digital breast tomosynthesis: a systematic review and meta-analysis. *Radiology*. 2023;307(5):1-10.