OVERVIEW
Digital breast tomosynthesis (also referred to as “3-Dimensional mammography” 3D mammography), uses modified digital mammography equipment to obtain additional radiographic data that are used to reconstruct cross-sectional “slices” of breast tissue. Tomosynthesis may improve the accuracy of digital mammography by reducing problems caused by overlapping tissue. Tomosynthesis typically involves additional imaging time and radiation exposure, although recent improvements may change this.

MEDICAL CRITERIA
Not applicable

PRIOR AUTHORIZATION
Not applicable

POLICY STATEMENT
BlueCHiP for Medicare and Commercial Products
Digital breast tomosynthesis is a covered service but providers will not be separately reimbursed for this service.

COVERAGE
Benefits may vary between groups/contracts. Please refer to the appropriate Benefit Booklet, Evidence of Coverage, or Subscriber Agreement for applicable radiology services/benefits.

BACKGROUND
Conventional mammography produces 2-dimensional (2D) images of the breast. Overlapping tissue on a 2D image can mask suspicious lesions or make benign tissue appear suspicious, particularly in women with dense breast tissue. As a result, women may be recalled for additional mammographic spot views. Inaccurate results may lead to unnecessary biopsies and emotional stress, or to a potential delay in diagnosis. Spot views often are used to evaluate microcalcifications, opacities, or architectural distortions; to distinguish masses from overlapping tissue; and to view possible findings close to the chest wall or in the retro-areolar area behind the nipple. The National Cancer Institute reports that approximately 20% of cancers are missed at mammography screening. Average recall rates are approximately 10%, with an average cancer detection rate of 4.7 per 1000 screening mammography examinations. The Mammography Quality Standards Act (MQSA) audit guidelines anticipate 2 to 10 cancers detected per 1000 screening mammograms. Interval cancers, which are detected between screenings, tend to have poorer prognoses.

Digital breast tomosynthesis (DBT) was developed to improve the accuracy of mammography by capturing a group of tomograms of the breast, further clarifying areas of overlapping tissue. Developers proposed that its use would result in increased sensitivity and specificity, as well as fewer recalls due to inconclusive results. DBT produces multiple low-dose images per view along an arc over the breast. During breast tomosynthesis, the compressed breast remains stationary while the x-ray tube moves approximately 1° for each image in a 15° to 50° arc, acquiring 11 to 49 images. These images are projected as cross-sectional “slices” of the breast, with each slice typically 1-mm thick. Adding breast tomosynthesis takes about 10 seconds per view. In 1 study in a research setting, mean time (SD) for interpretation of results was 1.22 (1.15) minutes for digital mammography and 2.39 (1.65) minutes for combined digital mammography and breast tomosynthesis.
conventional 2D mammography, breast compression helps decrease tissue overlap and improve visibility. By reducing problems with overlapping tissue, compression with breast tomosynthesis may be reduced by up to 50%. This change could result in improved patient satisfaction.

A machine equipped with breast tomosynthesis can perform 2D digital mammography, DBT, or a combination of both 2D mammography and DBT during a single compression. Radiation exposure from tomosynthesis is roughly equivalent to mammography. Therefore, adding tomosynthesis to mammography doubles the radiation dose, although it still is below the maximum allowable dose established in the MQSA. In May 2013, FDA approved new tomosynthesis software that permits creation of 2D images (called C-View) from images obtained during tomosynthesis. As a result, 2D mammography may become unnecessary, thereby lowering radiation dose. In other words, it is possible that only the tomosynthesis procedure will be needed, with the ability to create both conventional 2D and DBT images. It is too early to gauge how traditional mammography plus tomosynthesis compares with C-View plus tomosynthesis.

CODING
BlueCHiP for Medicare and Commercial Products
The following services are covered and providers will not be separately reimbursed. These codes are reported in addition to the appropriate breast mammography code (CPT codes 77065 - 77067 Previous codes deleted 12/31/2017: G0202 - G0206)

77061 Digital breast tomosynthesis; unilateral
77062 Digital breast tomosynthesis; bilateral
G0279 Diagnostic digital breast tomosynthesis, unilateral or bilateral (file in addition to the Diagnostic Mammography - code for BlueCHiP for Medicare)
77063 Screening Digital Breast Tomosynthesis, Bilateral (file in addition to the Screening Mammography code)

RELATED POLICIES
None

PUBLISHED
Provider Update, April 2018
Provider Update, May 2017
Provider Update, May 2016
Provider Update, January 2015
Provider Update, May 2013
Provider Update, April 2012

REFERENCES


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