eMeasure Title	**Breast Cancer Screening**		
eMeasure Identifier (Measure Authoring Tool)	125	eMeasure Version number	6.2.000
NQF Number	2372	GUID	19783c1b-4fd1-46c1-8a96-a2f192b97ee0
Measurement Period	January 1, 20XX through December 31, 20XX		
Measure Steward	National Committee for Quality Assurance		
Measure Developer	National Committee for Quality Assurance		
Endorsed By	National Quality Forum		
Description	Percentage of women 50-74 years of age who had a mammogram to screen for breast cancer		
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Measure Scoring	Proportion		
Measure Type	Process		
Stratification	None		
Risk Adjustment	None		
Rate Aggregation	None		
Rationale	Breast cancer is one of the most common types of cancers, accounting for a quarter of all new cancer diagnoses for women in the U.S. (BreastCancer.Org, 2011). It ranks as the second leading cause of cancer-related mortality in women, accounting for nearly 40,000 estimated deaths in 2013 (American Cancer Society, 2011). According to the National Cancer Institute's Surveillance Epidemiology and End Results program, the chance of a woman being diagnosed with breast cancer in a given year increases with age. By age 30, it is one in 2,212. By age 40, the chances increase to one in 235, by age 50, it becomes one in 54, and, by age 60, it is one in 25. From 2004 to 2008, the median age at the time of breast cancer diagnosis was 61 years among adult women (Tangka et al, 2010). In the U.S., costs associated with a diagnosis of breast cancer range from $451 to $2,520, factoring in continued testing, multiple office visits, and varying procedures. The total costs related to breast cancer add up to nearly $7 billion per year in the U.S., including $2 billion spent on late-stage treatment (Lavigne et al, 2008; Boykoff et al, 2009).		
Clinical Recommendation	The U.S. Preventive Services Task Force (USPSTF) recommends biennial screening mammography for women aged 50-74 years (B recommendation). The decision to start regular, biennial screening mammography before the age of 50		

Statement	years should be an individual one and take patient context into account, including the patient's values regarding specific benefits and harms (C recommendation). The Task Force concludes the evidence is insufficient to assess the additional benefits and harms of screening mammography in women 75 years and older (I statement). U.S. Preventive Services Task Force (2009) Grade: B recommendation. The USPSTF recommends biennial screening mammography for women aged 50 to 74 years. Grade: C recommendation. The decision to start regular, biennial screening mammography before the age of 50 years should be an individual one and take patient context into account, including the patient's values regarding specific benefits and harms. Grade: I Statement. The USPSTF concludes that the current evidence is insufficient to assess the additional benefits and harms of screening mammography in women 75 years or older. Grade: D recommendation. The USPSTF recommends against teaching breast self-examination (BSE). Grade: I Statement. The USPSTF concludes that the current evidence is insufficient to assess the additional benefits and harms of clinical breast examination (CBE) beyond screening mammography in women 40 years or older. Grade: I Statement. The USPSTF concludes that the current evidence is insufficient to assess the additional benefits and harms of either digital mammography or magnetic resonance imaging (MRI) instead of film mammography as screening modalities for breast cancer.
Improvement Notation	Higher score equals better quality
Reference	American Cancer Society. 2010. Cancer Facts & Figures 2010. Atlanta: American Cancer Society.
Reference	National Cancer Institute. 2010. "Breast Cancer Screening." http://www.cancer.gov/cancertopics/pdq/screening/breast/healthprofessional
Reference	National Business Group on Health. 2011. Pathways to Managing Cancer in the Workplace. Washington: National Business Group on Health.
Reference	U.S. Preventive Services Task Force (USPSTF). 2009. 1) "Screening for breast cancer: U.S. Preventive Services Task Force recommendation statement." 2) "December 2009 addendum." Ann Intern Med 151(10):716-726.
Reference	BreastCancer.org. 2012. U.S. Breast Cancer Statistics. www.breastcancer.org/symptoms/understand_bc/statistics.jsp
Definition	None
Guidance	Patient self-report for procedures as well as diagnostic studies should be recorded in 'Procedure, Performed' template or 'Diagnostic Study, Performed' template in QRDA-1. Patient self-report is not allowed for laboratory tests. This measure evaluates primary screening. Do not count biopsies, breast ultrasounds, MRIs or tomosynthesis (3D mammography), because they are not appropriate methods for primary breast cancer screening.
Transmission Format	TBD
Initial Population	Women 51-74 years of age with a visit during the measurement period
Denominator	Equals Initial Population
Denominator Exclusions	Women who had a bilateral mastectomy or who have a history of a bilateral mastectomy or for whom there is evidence of a right and a left unilateral mastectomy. Exclude patients who were in hospice care during the measurement year.
Numerator	Women with one or more mammograms during the measurement period or the 15 months prior to the measurement period
Numerator Exclusions	Not Applicable
Denominator Exceptions	None
Supplemental Data Elements	For every patient evaluated by this measure also identify payer, race, ethnicity and sex

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Population Criteria

- **Initial Population =**
  - AND: Age>= 51 year(s) at: "Measurement Period"
  - AND: Age< 74 year(s) at: "Measurement Period"
  - AND: "Patient Characteristic Sex: Female"

- AND: Union of:
    - "Encounter, Performed: Office Visit"
    - "Encounter, Performed: Face-to-Face Interaction"
    - "Encounter, Performed: Preventive Care Services - Established Office Visit, 18 and Up"
    - "Encounter, Performed: Preventive Care Services-Initial Office Visit, 18 and Up"
    - "Encounter, Performed: Home Healthcare Services"
    - "Encounter, Performed: Annual Wellness Visit"
    - during "Measurement Period"
- **Denominator =**
    - AND: Initial Population
- **Denominator Exclusions =**
    - OR: "Encounter, Performed: Encounter Inpatient (discharge status: Discharged to Home for Hospice Care)" ends during "Measurement Period"
    - OR: "Encounter, Performed: Encounter Inpatient (discharge status: Discharged to Health Care Facility for Hospice Care)" ends during "Measurement Period"
    - OR: Union of:
        - "Intervention, Order: Hospice care ambulatory"
        - "Intervention, Performed: Hospice care ambulatory"
        - overlaps "Measurement Period"
    - OR: "Procedure, Performed: Bilateral Mastectomy" ends before end of "Measurement Period"
    - OR: Count= 2 : "Procedure, Performed: Unilateral Mastectomy" ends before end of "Measurement Period"
    - OR:
        - AND: Union of:
            - "Diagnosis: Status Post Right Mastectomy"
            - "Diagnosis: Unilateral Mastectomy, Unspecified Laterality (anatomical location site: Right)"
            - starts before end of "Measurement Period"
        - AND: Union of:
            - "Diagnosis: Status Post Left Mastectomy"
            - "Diagnosis: Unilateral Mastectomy, Unspecified Laterality (anatomical location site: Left)"
            - starts before end of "Measurement Period"
    - OR: "Diagnosis: History of bilateral mastectomy" starts before end of "Measurement Period"
- **Numerator =**
    - AND: "Diagnostic Study, Performed: Mammography" < 27 month(s) ends before or concurrent with end of "Measurement Period"
- **Numerator Exclusions =**
    - None
- **Denominator Exceptions =**
    - None
- **Stratification =**
    - None

Data Criteria (QDM Variables)

- None

Data Criteria (QDM Data Elements)

- "Diagnosis: History of bilateral mastectomy" using "History of bilateral mastectomy Grouping Value Set (2.16.840.1.113883.3.464.1003.198.12.1068)"
- "Diagnosis: Status Post Left Mastectomy" using "Status Post Left Mastectomy Grouping Value Set (2.16.840.1.113883.3.464.1003.198.12.1069)"
- "Diagnosis: Status Post Right Mastectomy" using "Status Post Right Mastectomy Grouping Value Set (2.16.840.1.113883.3.464.1003.198.12.1070)"
- "Diagnosis: Unilateral Mastectomy, Unspecified Laterality" using "Unilateral Mastectomy, Unspecified Laterality Grouping Value Set (2.16.840.1.113883.3.464.1003.198.12.1071)"
- "Diagnostic Study, Performed: Mammography" using "Mammography Grouping Value Set (2.16.840.1.113883.3.464.1003.108.12.1018)"
- "Encounter, Performed: Annual Wellness Visit" using "Annual Wellness Visit Grouping Value Set (2.16.840.1.113883.3.526.3.1240)"
- "Encounter, Performed: Encounter Inpatient" using "Encounter Inpatient SNOMEDCT Value Set (2.16.840.1.113883.3.666.5.307)"
- "Encounter, Performed: Face-to-Face Interaction" using "Face-to-Face Interaction Grouping Value Set (2.16.840.1.113883.3.464.1003.101.12.1048)"
- "Encounter, Performed: Home Healthcare Services" using "Home Healthcare Services Grouping Value Set (2.16.840.1.113883.3.464.1003.101.12.1016)"
- "Encounter, Performed: Office Visit" using "Office Visit Grouping Value Set (2.16.840.1.113883.3.464.1003.101.12.1001)"
- "Encounter, Performed: Preventive Care Services - Established Office Visit, 18 and Up" using "Preventive Care Services - Established Office Visit, 18 and Up Grouping Value Set (2.16.840.1.113883.3.464.1003.101.12.1025)"
- "Encounter, Performed: Preventive Care Services-Initial Office Visit, 18 and Up" using "Preventive Care Services-Initial Office Visit, 18 and Up Grouping Value Set (2.16.840.1.113883.3.464.1003.101.12.1023)"
- "Intervention, Order: Hospice care ambulatory" using "Hospice care ambulatory SNOMEDCT Value Set (2.16.840.1.113762.1.4.1108.15)"
- "Intervention, Performed: Hospice care ambulatory" using "Hospice care ambulatory SNOMEDCT Value Set (2.16.840.1.113762.1.4.1108.15)"
- "Patient Characteristic Sex: Female" using "Female AdministrativeGender Value Set (2.16.840.1.113883.3.560.100.2)"

- "Procedure, Performed: Bilateral Mastectomy" using "Bilateral Mastectomy Grouping Value Set (2.16.840.1.113883.3.464.1003.198.12.1005)"
- "Procedure, Performed: Unilateral Mastectomy" using "Unilateral Mastectomy Grouping Value Set (2.16.840.1.113883.3.464.1003.198.12.1020)"
- Attribute: "Anatomical location site: Left" using "Left Grouping Value Set (2.16.840.1.113883.3.464.1003.122.12.1036)"
- Attribute: "Anatomical location site: Right" using "Right Grouping Value Set (2.16.840.1.113883.3.464.1003.122.12.1035)"
- Attribute: "Discharge status: Discharged to Health Care Facility for Hospice Care" using "Discharged to Health Care Facility for Hospice Care SNOMEDCT Value Set (2.16.840.1.113883.3.117.1.7.1.207)"
- Attribute: "Discharge status: Discharged to Home for Hospice Care" using "Discharged to Home for Hospice Care SNOMEDCT Value Set (2.16.840.1.113883.3.117.1.7.1.209)"

Supplemental Data Elements

- "Patient Characteristic Ethnicity: Ethnicity" using "Ethnicity CDCREC Value Set (2.16.840.1.114222.4.11.837)"
- "Patient Characteristic Payer: Payer" using "Payer SOP Value Set (2.16.840.1.114222.4.11.3591)"
- "Patient Characteristic Race: Race" using "Race CDCREC Value Set (2.16.840.1.114222.4.11.836)"
- "Patient Characteristic Sex: ONC Administrative Sex" using "ONC Administrative Sex AdministrativeGender Value Set (2.16.840.1.113762.1.4.1)"

Risk Adjustment Variables

- None

Measure Set	None