Measure #450 (NQF 1858): Trastuzumab Received By Patients With AJCC Stage I (T1c) – III And HER2 Positive Breast Cancer Receiving Adjuvant Chemotherapy– National Quality Strategy Domain: Effective Clinical Care

#### 2017 OPTIONS FOR INDIVIDUAL MEASURES:

REGISTRY ONLY

#### **MEASURE TYPE:**

**Process** 

## **DESCRIPTION:**

Proportion of female patients (aged 18 years and older) with AJCC stage I (T1c) – III, human epidermal growth factor receptor 2 (HER2) positive breast cancer receiving adjuvant chemotherapy who are also receiving trastuzumab

#### **INSTRUCTIONS:**

This measure is to be reported a minimum of <u>once per performance period</u> for patients with breast cancer seen during the performance period. This measure may be reported by eligible clinicians who perform the quality actions described in the measure based on the services provided and the measure-specific denominator coding.

# Measure Reporting:

The listed denominator criteria is used to identify the intended patient population. The numerator options included in this specification are used to submit the quality actions allowed by the measure. The quality-data codes listed do not need to be submitted for registry-based submissions; however, these codes may be submitted for those registries that utilize claims data.

### **DENOMINATOR:**

Adult women with AJCC stage I (T1c)– III, HER2 positive breast cancer who receive adjuvant chemotherapy

#### **Definitions:**

# Use the following definitions to determine HER2 status-

#### Positive:

IHC 3+ based on circumferential membrane staining that is complete, intense

- ISH positive based on:
- Single-probe average HER2 copy number =6.0 signals/cell
- Dual-probe HER2/CEP17 ratio =2.0 with an average HER2 copy number =4.0 signals/cell
- Dual-probe HER2/CEP17 ratio =2.0 with an average HER2 copy number <4.0 signals/cell
- Dual-probe HER2/CEP17 ratio <2.0 with an average HER2 copy number =6.0 signals/cell

## Equivocal:

• IHC 2+ based on circumferential membrane staining that is incomplete and/or weak/moderate and within > 10% of the invasive tumor cells or complete and circumferential membrane staining that is intense and within = 10% of the invasive tumor cells

#### ISH equivocal based on:

- Single-probe ISH average HER2 copy number = 4.0 and < 6.0 signals/cell
- Dual-probe HER2/CEP17 ratio < 2.0 with an average HER2 copy number = 4.0 and < 6.0 signals/cell **Negative**:

IHC 1+ as defined by incomplete membrane staining that is faint/barely perceptible and within > 10% of the invasive tumor cells or IHC 0 as defined by no staining observed or membrane staining that is incomplete and is faint/barely perceptible and within = 10% of the invasive tumor cells

# ISH negative based on:

- Single-probe average HER2 copy number < 4.0 signals/cell
- Dual-probe HER2/CEP17 ratio < 2.0 with an average HER2 copy number < 4.0 signals/cell

#### Indeterminate:

Indeterminate if technical issues prevent one or both tests (IHC and ISH) from being reported as positive, negative, or equivocal.

Conditions may include:

- Inadequate specimen handling,
- Artifacts (crush or edge artifacts) that make interpretation difficult
- Analytic testing failure.

# Denominator Criteria (Eligible Cases):

Female Patients aged ≥ 18 years on date of encounter

AND

Diagnosis of breast cancer (ICD-10-CM): C50.011, C50.012, C50.019, C50.111, C50.112, C50.119, C50.211, C50.212, C50.219, C50.311, C50.312, C50.319, C50.411, C50.412, C50.419, C50.511, C50.512, C50.519, C50.611, C50.612, C50.619, C50.811, C50.812, C50.819, C50.911, C50.912, C50.919

AND

Patient encounter during performance period (CPT): 99201, 99202, 99203, 99204, 99205, 99212, 99213, 99214, 99215

<u>and</u>

Two or more encounters at the reporting site

AND

Breast Adjuvant Chemotherapy administered: G9829

AND

HER-2/neu positive: G9830

AND

AJCC stage at breast cancer diagnosis = II or III: G9831

OR

AJCC stage at breast cancer diagnosis = I (IA or IB) and T-Stage at breast cancer diagnosis does NOT equal = T1, T1a, T1b: G9832

# AND NOT

#### DENOMINATOR EXCLUSIONS:

Patient transfer to practice after initiation of chemotherapy: G9833

OR

Patient has metastatic disease at diagnosis: G9834

#### **NUMERATOR:**

Trastuzumab administered within 12 months of diagnosis

Numerator Options:

Performance Met: Trastuzumab administered within 12 months of

diagnosis (G9835)

<u>OR</u>

**Denominator Exception:** Reason for not administering Trastuzumab documented

(e.g. patient declined, patient died, patient transferred, contraindication or other clinical exclusion, neoadjuvant chemotherapy or radiation NOT complete) (G9836)

OR

Performance Not Met: Trastuzumab not administered within 12 months of

diagnosis (G9837)

#### RATIONALE:

Approximately 15% of patients with breast cancer have tumors that overexpress the human epidermal growth hormone receptor protein (HER2). The American Society of Clinical Oncology (ASCO) envisions that use of this measure will improve concordance with recommendations for Trastuzumab administration for patients with AJCC stage I(T1c) – III, HER2/neu positive breast cancer. We recognize the importance of ensuring that the appropriate patient population receives guideline concordant treatment as studies have shown that the administration of Trastuzumab significantly improves overall survival in patients with high-risk HER2 positive breast cancer.

# **CLINICAL RECOMMENDATION STATEMENTS:**

Cancer Care Ontario guideline on optimal systemic therapy for early breast cancer in women

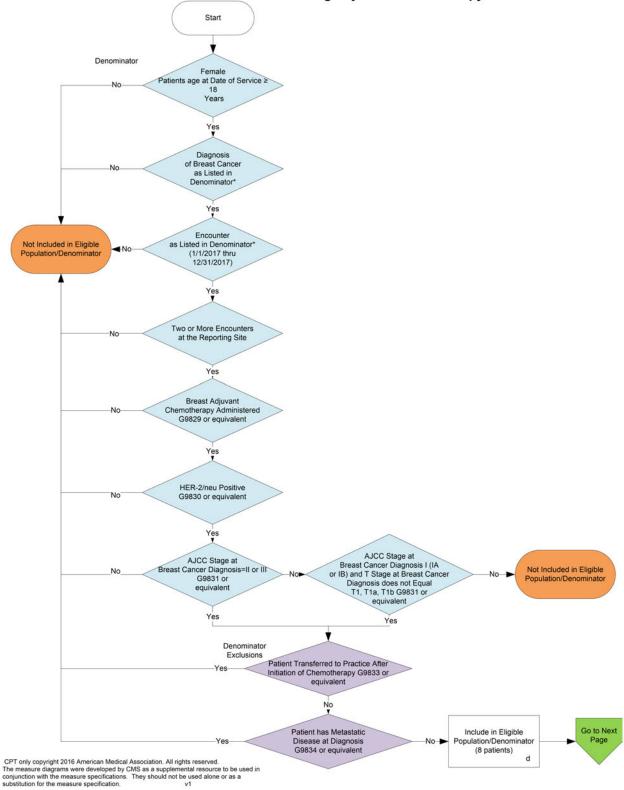
Trastuzumab plus chemotherapy is recommended for all patients with her2-positive, node-positive breast cancer and for patients with her2-positive, node-negative breast cancer greater than 1 cm in size. *Key Evidence and Qualifying Statements:* Phase iii clinical studies have demonstrated improved DFS and OS with the addition of trastuzumab to chemotherapy (compared with chemotherapy alone) in her2-positive early breast cancer

Citation: Eisen, A., K.G, Fletcher, et.al, "Optimal Systemic Therapy for Early Breast Cancer in Women: A Clinical Practice Guideline." Curr Onc 22.0 (2014): Available at: Optimal Systemic Therapy for Early Breast Cancer in Women: A Clinical Practice Guideline

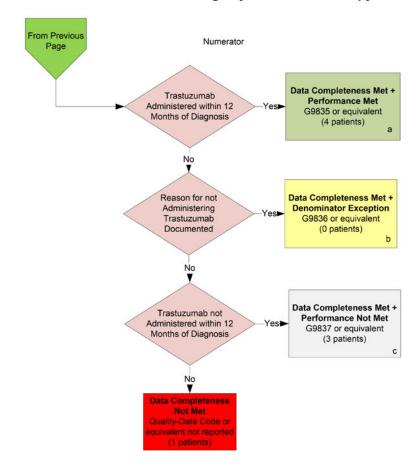
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# 2017 Registry Individual Measure Flow #450 NQF #1858: Trastuzumab Received By Patients With AJCC Stage I (T1c) – III And HER2 Positive Breast Cancer Receiving Adjuvant Chemotherapy



# 2017 Registry Individual Measure Flow #450 NQF #1858: Trastuzumab Received By Patients With AJCC Stage I (T1c) – III And HER2 Positive Breast Cancer Receiving Adjuvant Chemotherapy



SAMPLE CALCULATIONS:	
Data Completion= Performance Met (a =4 patients) + Denomiator Exception (b = 0 patients) + Performance Not Met (c=3 patients) = Eligible Population / Denominator (d=8 patients) =	<u>7 patients</u> = <b>87.50%</b> 8 patients
Performance Rate= Performance Met (a = 4 patients) = 4 patients   57.14% Data Completeness Numerator (7 patients) – Denominator Exception (b = 0 patients) = 7 patients	

\*See the posted Measure Specification for specific coding and instructions to report this measure. NOTE: Reporting Frequency: Patient intermediate

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# 2017 Registry Individual Measure Flow #450 NQF #1859: Trastuzumab Received By Patients With AJCC Stage I (T1c) – III And HER2 Positive Breast Cancer Receiving Adjuvant Chemotherapy

Please refer to the specific section of the Measure Specification to identify the denominator and numerator information for use in reporting this Individual Measure.

- 1. Start with Denominator
- 2. Check Patient Age:
  - a. If Patient age is greater than or equal to 18 years equals No, do not include in Eligible Patient Population. Stop Processing.
  - b. If Patient age is greater than or equal to 18 years equals Yes, proceed to check Patient Diagnosis for Breast Cancer.
- 3. Check Patient Diagnosis:
  - a. If Diagnosis of Breast Cancer as Listed in the Denominator equals No, do not include in Eligible Patient Population. Stop Processing.
  - b. If Diagnosis of Breast Cancer as Listed in the Denominator equals Yes, proceed to check Encounter Performed.
- 4. Check Encounter Performed:
  - a. If Encounter Performed as Listed in the Denominator equals No, do not include in Eligible Patient Population. Stop Processing.
  - b. If Encounter Performed as Listed in the Denominator equals Yes, proceed to check Two or more Encounters at the Reporting Site.
- 5. Check Two or more Encounters at the Reporting Site:
  - a. If Two or more Encounters at the Reporting Site equals No, do not include in Eligible Patient Population. Stop Processing.
  - b. If Two or more Encounters at the Reporting Site equals Yes, proceed to check Breast Adjuvant Chemotherapy Administered
- 6. Check Breast Adjuvant Chemotherapy Administered:
  - a. If Breast Adjuvant Chemotherapy Administered equals No, do not include in Eligible Patient Population. Stop Processing.
  - b. If Breast Adjuvant Chemotherapy Administered equals Yes, proceed to check HER-2/neu Positive.
- 7. Check HER-2/neu Positive:
  - a. If HER-2/neu Positive equals No, do not include in Eligible Patient Population. Stop Processing.
  - b. If HER-2/neu Positive equals Yes, proceed to check AJCC Stage at Breast Cancer Diagnosis =II or III.

- 8. Check AJCC Stage at Breast Cancer Diagnosis = II or III:
  - a. If AJCC Stage at Breast Cancer Diagnosis = II or III equals No, proceed to check AJCC Stage at Breast Cancer Diagnosis I (IA or IB) and T Stage at Breast Cancer Diagnosis does Not Equal T1, T1a, T1b.
  - b. If AJCC Stage at Breast Cancer Diagnosis =II or III equals Yes, proceed to check AJCC Stage at Breast Cancer Diagnosis I (IA or IB) and T Stage at Breast Cancer Diagnosis does Not Equal T1, T1a, T1b
- 9. Check AJCC Stage at Breast Cancer Diagnosis I (IA or IB) and T Stage at Breast Cancer Diagnosis does Not Equal T1, T1a, T1b:
  - a. If AJCC Stage at Breast Cancer Diagnosis I (IA or IB) and T Stage at Breast Cancer Diagnosis does Not Equal T1, T1a, T1b equals No, do not include in Eligible Patient Population. Stop Processing.
  - b. If AJCC Stage at Breast Cancer Diagnosis I (IA or IB) and T Stage at Breast Cancer Diagnosis does Not Equal T1, T1a, T1b equals Yes, proceed to check Patient Transferred to Practice After Initiation of Chemotherapy.
- 10. Check Patient Transferred to Practice After Initiation of Chemotherapy:
  - a. If Patient Transferred to Practice After Initiation of Chemotherapy equals No, proceed to check Patient has Metastatic Disease at Diagnosis
  - b. If Patient Transferred to Practice After Initiation of Chemotherapy equals Yes, do not include in Eligible Patient Population. Stop Processing.
- 11. Check Patient has Metastatic Disease at Diagnosis:
  - a. If Patient has Metastatic Disease at Diagnosis equals No, include in Eligible population
  - b. If Patient has Metastatic Disease at Diagnosis equals Yes, do not include in Eligible Patient Population. Stop Processing.
- 12. Denominator Population:
  - a. Denominator population is all Eligible Patients in the denominator. Denominator is represented as Denominator in the Sample Calculation listed at the end of this document. Letter d equals 8 patients in the sample calculation.
- 13. Start Numerator
- 14. Check Trastuzumab Administered within 12 Months of Diagnosis:
  - a. If Trastuzumab Administered within 12 Months of Diagnosis equals Yes, include in Data Completeness Met and Performance Met.
  - b. Data Completeness Met and Performance Met letter is represented in the Data Completeness and Performance Rate in the Sample Calculation listed at the end of this document. Letter a equals 4 patients in Sample Calculation.
  - c. If Trastuzumab Administered within 12 Months of Diagnosis equals No, proceed to Reason for Not Administering Trastuzumab Documented.
- 15. Reason for Not Administering Trastuzumab Documented:

- a. If Reason for Not Administering Trastuzumab Documented equals Yes, include in Data Completeness Met and Denominator Exception.
- Data Completeness Met and Denominator Exception letter is represented in the Data Completeness in the Sample Calculation listed at the end of this document. Letter b equals 0 patients in the Sample Calculation.
- If Reason for Not Administering Trastuzumab Documented equals No, proceed to Trastuzumab Not Administered within 12 Months of Diagnosis.
- 16. Check Trastuzumab Not Administered within 12 Months of Diagnosis:
  - a. If Trastuzumab Not Administered within 12 Months of Diagnosis equals Yes, include in Data Completeness Met and Performance Not Met.
  - b. Data Completeness Met and Performance Not Met letter is represented in the Data Completeness in the Sample Calculation listed at the end of this document. Letter c equals 3 patients in the Sample Calculation.
  - If Trastuzumab Not Administered within 12 Months of Diagnosis equals No, proceed to Data Completeness Not Met.
- 17. Check Data Completeness Not Met:
  - a. If Data Completeness Not Met equals No, Quality Data Code or equivalent not reported. 1 patient has been subtracted from the Data Completeness numerator in the sample calculation.

# SAMPLE CALCULATIONS: Data Completion= Performance Met (a =4 patients) + Denomiator Exception (b = 0 patients) + Performance Not Met (c=3 patients) = 7 patients = 87.50% 8 patients Performance Rate= Performance Met (a = 4 patients) = 4 patients = 57.14% Data Completeness Numerator (7 patients) - Denominator Exception (b = 0 patients) = 7 patients = 57.14%