

**Measure #69 (NQF 0380): Hematology: Multiple Myeloma: Treatment with Bisphosphonates – National Quality Strategy Domain: Effective Clinical Care**

**2017 OPTIONS FOR INDIVIDUAL MEASURES:**  
**REGISTRY ONLY**

**MEASURE TYPE:**  
Process

**DESCRIPTION:**  
Percentage of patients aged 18 years and older with a diagnosis of multiple myeloma, not in remission, who were prescribed or received intravenous bisphosphonate therapy within the 12 month reporting period.

**INSTRUCTIONS:**  
This measure is to be reported a minimum of **once per performance period** for all multiple myeloma (not in remission) patients seen during the performance period. It is anticipated that eligible clinicians who provide services for the patients with the diagnosis of multiple myeloma (not in remission) will submit this measure.

**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:**  
All patients aged 18 years and older with a diagnosis of multiple myeloma, not in remission

**Denominator Criteria (Eligible Cases):**  
Patients aged ≥ 18 years on date of encounter  
**AND**  
Diagnosis for multiple myeloma – not in remission (ICD-10-CM): C90.00, C90.02  
**AND**  
Patient encounter during the performance period (CPT): 99201, 99202, 99203, 99204, 99205, 99212, 99213, 99214, 99215  
**WITHOUT**  
Telehealth Modifier: GQ, GT

**NUMERATOR:**  
Patients who were prescribed or received intravenous bisphosphonate therapy within the 12 month reporting period

**Definitions:**  
**Bisphosphonate Therapy** – Includes the following medications: pamidronate and zoledronate.  
**Prescribed** – Includes patients who are currently receiving medication(s) that follow the treatment plan recommended at an encounter during the performance period, even if the prescription for that medication was ordered prior to the encounter.

**Numerator Options:**  
**Performance Met:**

Bisphosphonate therapy, intravenous, ordered or received (**4100F**)

**OR**

**Denominator Exception:**

Documentation of medical reason(s) for not prescribing bisphosphonates (eg, patients who do not have bone

OR  
*Denominator Exception:*

disease, patients with dental disease, patients with renal insufficiency) (4100F *with* 1P)

Documentation of patient reason(s) for not prescribing bisphosphonates (4100F *with* 2P)

OR  
*Performance Not Met:*

Bisphosphonate therapy, intravenous, not ordered or received, reason not otherwise specified (4100F *with* 8P)

#### **RATIONALE:**

Multiple myeloma is a disease characterized by bone destruction, in the form of diffuse osteopenia and/or osteolytic lesions, which develop in a significant number of patients. Bisphosphonates can inhibit bone resorption by reducing the number and activity of osteoclasts.

Bisphosphonates have played an important palliative role in the care of patients with multiple myeloma. Use of these agents has demonstrated benefit in reducing painful bony complications.

#### **CLINICAL RECOMMENDATION STATEMENTS:**

The following clinical recommendation statements are quoted verbatim from the referenced clinical guidelines:

Bony manifestations of myeloma, in the form of diffuse osteopenia and/or osteolytic lesions, develop in 85% of patients. Related complications are the major cause of limitations in quality of life and performance status in patients with MM. A recent meta-analysis of 20 randomized controlled trials of comparing bisphosphonates with either placebo or a different bisphosphonate as a comparator concluded that adding bisphosphonates to the treatment of MM reduces vertebral fractures and probably pain. The NCCN Guidelines for Multiple Myeloma recommend bisphosphonates for all patients receiving myeloma therapy for symptomatic disease regardless of documented bone disease. (Category 1 Recommendation) (NCCN, 2016)

In patients with smoldering or stage I MM, according to the NCCN Panel, bisphosphonates may be considered but preferably in a clinical trial. (Category 2A Recommendation) (NCCN, 2016)

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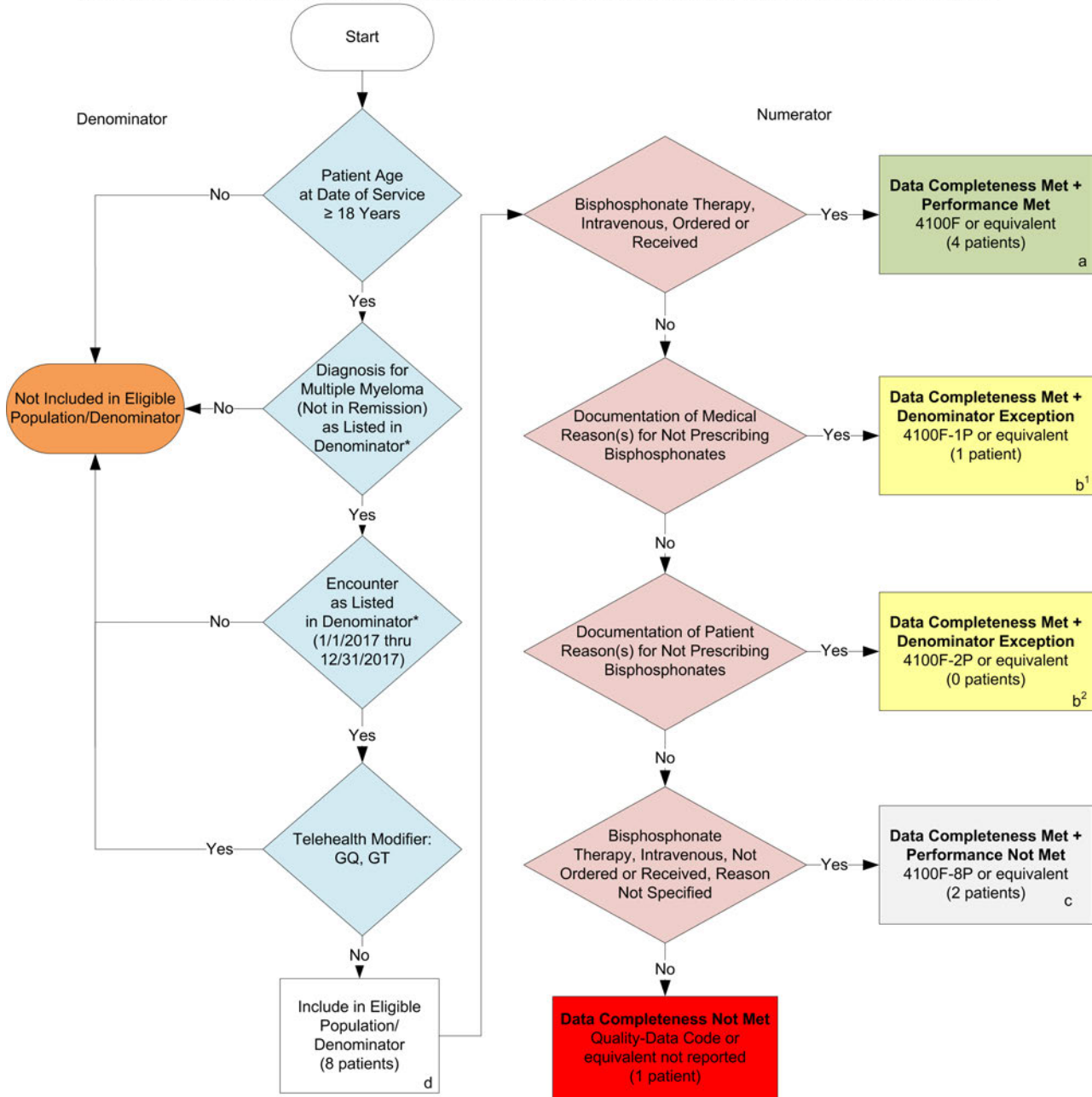
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**2017 Registry Individual Measure Flow**  
**#69 NQF #0380: Hematology: Multiple Myeloma: Treatment with Bisphosphonates**



**SAMPLE CALCULATIONS:**

**Data Completeness=**  

$$\frac{\text{Performance Met (a=4 patients)} + \text{Denominator Exception (b}^1\text{+b}^2\text{=1 patient)} + \text{Performance Not Met (c=2 patients)}}{\text{Eligible Population / Denominator (d=8 patients)}} = \frac{7 \text{ patients}}{8 \text{ patients}} = 87.50\%$$

**Performance Rate=**  

$$\frac{\text{Performance Met (a=4 patients)}}{\text{Data Completeness Numerator (7 patients) - Denominator Exception (b}^1\text{+b}^2\text{=1 patient)}} = \frac{4 \text{ patients}}{6 \text{ patients}} = 66.67\%$$

\*See the posted Measure Specification for specific coding and instructions to report this measure.

NOTE: Reporting Frequency: Patient-process

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 The measure diagrams were developed by CMS as a supplemental resource to be used in conjunction with the measure specifications. They should not be used alone or as a substitution for the measure specification.

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## 2017 Registry Individual Measure Flow

### #69 NQF #0380: Hematology: Multiple Myeloma: Treatment with Bisphosphonates

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 of age at Date of Service and equals No during the measurement period, do not include in Eligible Patient Population. Stop Processing.
  - b. If Patient Age is greater than or equal to 18 Years of age at Date of Service and equals Yes during the measurement period, proceed to check Patient Diagnosis.
3. Check Patient Diagnosis:
  - a. If Diagnosis of Multiple Myeloma (Not in Remission) as Listed in the Denominator equals No, do not include in Eligible Patient Population. Stop Processing.
  - b. If Diagnosis of Multiple Myeloma (Not in Remission) as Listed in the Denominator equals Yes, proceed to check Encounter Performed.
4. Check Encounter Performed:
  - a. If Encounter as Listed in the Denominator equals No, do not include in Eligible Patient Population. Stop Processing.
  - b. If Encounter as Listed in the Denominator equals Yes, proceed to check Telehealth Modifier
5. Check Telehealth Modifier:
  - a. If Telehealth Modifier equals Yes, do not include in Eligible Patient Population. Stop Processing.
  - b. If Telehealth Modifier equals No, include in the Eligible population.
6. 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.
7. Start Numerator
8. Check Bisphosphonate Therapy, Intravenous, Ordered or Received:
  - a. If Bisphosphonate Therapy, Intravenous, Ordered or Received 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 Bisphosphonate Therapy, Intravenous, Ordered or Received equals No, proceed to Documentation of Medical Reason(s) for Not Prescribing Bisphosphonates.

9. Check Documentation of Medical Reason(s) for Not Prescribing Bisphosphonates:
  - a. If Documentation of Medical Reason(s) for Not Prescribing Bisphosphonates equals Yes, include in Data Completeness Met and Denominator Exception.
  - b. Data Completeness Met and Denominator Exception letter is represented in the Data Completeness and Performance Rate in the Sample Calculation listed at the end of this document. Letter b1 equals 1 patient in the Sample Calculation.
  - c. If Documentation of Medical Reason(s) for Not Prescribing Bisphosphonates equals No, proceed to Documentation of Patient Reason(s) for Not Prescribing Bisphosphonates.
10. Check Documentation of Patient Reason(s) for Not Prescribing Bisphosphonates:
  - a. If Documentation of Patient Reason(s) for Not Prescribing Bisphosphonates equals Yes, include in Data Completeness Met and Denominator Exception.
  - b. Data Completeness Met and Denominator Exception letter is represented in the Data Completeness and Performance Rate in the Sample Calculation listed at the end of this document. Letter b2 equals 0 patient in the Sample Calculation.
  - c. If Documentation of Patient Reason(s) for Not Prescribing Bisphosphonates equals No, proceed to Bisphosphonate Therapy, Intravenous, Not Ordered or Received, Reason Not Specified.
11. Check Bisphosphonate Therapy, Intravenous, Not Ordered or Received, Reason Not Specified:
  - a. If Bisphosphonate Therapy, Intravenous, Not Ordered or Received, Reason Not Specified 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 2 patients in the Sample Calculation.
  - c. If Bisphosphonate Therapy, Intravenous, Not Ordered or Received, Reason Not Specified equals No, proceed to Data Completeness Not Met .
12. Check Data Completeness Not Met :
  - a. If Data Completeness Not Met , the Quality Data Code or equivalent was not reported. 1 patient has been subtracted from the data completeness numerator in sample calculation.

#### **SAMPLE CALCULATIONS:**

##### **Data Completeness=**

$$\frac{\text{Performance Met (a=4 patients) + Denominator Exception (b}^1\text{+b}^2\text{=1 patient) + Performance Not Met (c=2 patients)}}{\text{Eligible Population / Denominator (d=8 patients)}} = \frac{7 \text{ patients}}{8 \text{ patients}} = 87.50\%$$

##### **Performance Rate=**

$$\frac{\text{Performance Met (a=4 patients)}}{\text{Data Completeness Numerator (7 patients) – Denominator Exception (b}^1\text{+b}^2\text{=1 patient)}} = \frac{4 \text{ patients}}{6 \text{ patients}} = 66.67\%$$