

Measure #418 (NQF 0053): Osteoporosis Management in Women Who Had a Fracture – National Quality Strategy Domain: Effective Clinical Care

2017 OPTIONS FOR INDIVIDUAL MEASURES:
REGISTRY ONLY

MEASURE TYPE:
Process

DESCRIPTION:

The percentage of women age 50-85 who suffered a fracture and who either had a bone mineral density test or received a prescription for a drug to treat osteoporosis in the six months after the fracture

INSTRUCTIONS:

This measure is to be reported after each occurrence of a fracture during the **performance period**. It is anticipated that clinicians who treat any fracture except fractures of the finger, toe, face or skull will submit this measure. Each occurrence of a fracture is identified by either an ICD-10-CM diagnosis code for fracture and a CPT service code OR an ICD-10-CM diagnosis code for a fracture and a CPT procedure code for surgical treatment of fractures.

NOTE: *Patients with any fracture except fractures of the finger, toe, face or skull should have a central DXA measurement performed or pharmacologic therapy prescribed. The management (DXA performed or pharmacologic therapy prescribed) should occur within six months of the fracture. If multiple fractures occurring on the same date of service are submitted on the same claim form, only one instance of reporting will be counted. Claims data will be analyzed to determine unique occurrences. Patients already receiving pharmacologic therapy would automatically meet the intent of 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:

Women who experienced a fracture, except fractures of the finger, toe, face or skull

Option 1 - Denominator Criteria (Eligible Cases):

Patients aged 50-85 years on date of encounter

AND

Diagnosis for any fracture except fractures of the finger, toe, face or skull (ICD-10-CM): M48.40XA, M48.41XA, M48.42XA, M48.43XA, M48.44XA, M48.45XA, M48.46XA, M48.47XA, M48.48XA, M84.311A, M84.312A, M84.319A, M84.321A, M84.322A, M84.329A, M84.331A, M84.332A, M84.333A, M84.334A, M84.339A, M84.341A, M84.342A, M84.343A, M84.350A, M84.351A, M84.352A, M84.353A, M84.359A, M84.361A, M84.362A, M84.363A, M84.364A, M84.369A, M84.371A, M84.372A, M84.373A, M84.374A, M84.375A, M84.376A, M84.38XA, M84.750A, M84.751A, M84.752A, M84.753A, M84.754A, M84.755A, M84.756A, M84.757A, M84.759A, S12.000A, S12.000B, S12.001A, S12.001B, S12.01XA, S12.01XB, S12.02XA, S12.02XB, S12.030A, S12.030B, S12.031A, S12.031B, S12.040A, S12.040B, S12.041A, S12.041B, S12.090A, S12.090B, S12.091A, S12.091B, S12.100A, S12.100B, S12.101A, S12.101B, S12.110A, S12.110B, S12.111A, S12.111B, S12.112A, S12.112B, S12.120A, S12.120B, S12.121A, S12.121B, S12.130A, S12.130B, S12.131A, S12.131B, S12.14XA, S12.14XB, S12.150A, S12.150B, S12.151A, S12.151B, S12.190A, S12.190B, S12.191A, S12.191B, S12.200A, S12.200B, S12.201A, S12.201B, S12.230A, S12.230B, S12.231A, S12.231B, S12.24XA, S12.24XB, S12.250A, S12.250B, S12.251A, S12.251B, S12.290A, S12.290B, S12.291A, S12.291B, S12.300A, S12.300B, S12.301A, S12.301B, S12.330A, S12.330B, S12.331A, S12.331B, S12.34XA, S12.34XB, S12.350A, S12.350B, S12.351A,

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AND

Patient encounter during the **performance period** (CPT or HCPCS): 99201, 99202, 99203, 99204, 99205, 99212, 99213, 99214, 99215, G0402

AND NOT

DENOMINATOR EXCLUSIONS:

Patients who utilize hospice services any time during the measurement period: G9768

OR

Patient had a bone mineral density test in the past two years OR received osteoporosis medication or therapy in the past 12 months: G9769

OR

Option 2 - Denominator Criteria (Eligible Cases):

Patients aged 50-85 years on date of encounter

AND

Diagnosis for any fracture except fractures of the finger, toe, face or skull (ICD-10-CM): M48.40XA, M48.41XA, M48.42XA, M48.43XA, M48.44XA, M48.45XA, M48.46XA, M48.47XA, M48.48XA, M84.311A, M84.312A, M84.319A, M84.321A, M84.322A, M84.329A, M84.331A, M84.332A, M84.333A, M84.334A, M84.339A, M84.341A, M84.342A, M84.343A, M84.350A, M84.351A, M84.352A, M84.353A, M84.359A, M84.361A, M84.362A, M84.363A, M84.364A, M84.369A, M84.371A, M84.372A, M84.373A, M84.374A, M84.375A, M84.376A, M84.38XA, M84.750A, M84.751A, M84.752A, M84.753A, M84.754A, M84.755A, M84.756A, M84.757A, M84.759A, S12.000A, S12.000B, S12.001A, S12.001B, S12.01XA, S12.01XB, S12.02XA, S12.02XB, S12.030A, S12.030B, S12.031A, S12.031B, S12.040A, S12.040B, S12.041A, S12.041B, S12.090A, S12.090B, S12.091A, S12.091B, S12.100A, S12.100B, S12.101A, S12.101B, S12.110A, S12.110B, S12.111A, S12.111B, S12.112A, S12.112B, S12.120A, S12.120B, S12.121A, S12.121B, S12.130A, S12.130B, S12.131A, S12.131B, S12.14XA, S12.14XB, S12.150A, S12.150B, S12.151A, S12.151B, S12.190A, S12.190B, S12.191A, S12.191B, S12.200A, S12.200B, S12.201A, S12.201B, S12.230A, S12.230B, S12.231A, S12.231B, S12.24XA, S12.24XB, S12.250A, S12.250B, S12.251A, S12.251B, S12.290A, S12.290B, S12.291A, S12.291B, S12.300A, S12.300B, S12.301A, S12.301B, S12.330A, S12.330B, S12.331A, S12.331B, S12.34XA, S12.34XB, S12.350A, S12.350B, S12.351A, S12.351B, S12.390A, S12.390B, S12.391A, S12.391B, S12.400A, S12.400B, S12.401A, S12.401B, S12.430A, S12.430B, S12.431A, S12.431B, S12.44XA, S12.44XB, S12.450A, S12.450B, S12.451A, S12.451B, S12.490A, S12.490B, S12.491A, S12.491B, S12.500A, S12.500B, S12.501A, S12.501B, S12.530A, S12.530B, S12.531A, S12.531B, S12.54XA, S12.54XB, S12.550A, S12.550B, S12.551A, S12.551B, S12.590A, S12.590B, S12.591A, S12.591B, S12.600A, S12.600B, S12.601A, S12.601B, S12.630A, S12.630B, S12.631A, S12.631B, S12.64XA, S12.64XB, S12.650A, S12.650B, S12.651A, S12.651B, S12.690A, S12.690B, S12.691A, S12.691B, S12.8XXA, S12.9XXA, S22.000A, S22.000B, S22.001A, S22.001B, S22.002A, S22.002B, S22.008A, S22.008B, S22.009A, S22.009B, S22.010A, S22.010B, S22.011A, S22.011B, S22.012A, S22.012B, S22.018A, S22.018B, S22.019A, S22.019B, S22.020A, S22.020B, S22.021A, S22.021B, S22.022A, S22.022B, S22.028A, S22.028B, S22.029A, S22.029B, S22.030A, S22.030B, S22.031A, S22.031B, S22.032A, S22.032B, S22.038A, S22.038B, S22.039A, S22.039B, S22.040A, S22.040B, S22.041A, S22.041B, S22.042A, S22.042B, S22.048A, S22.048B, S22.049A, S22.049B, S22.050A, S22.050B, S22.051A, S22.051B, S22.052A, S22.052B, S22.058A, S22.058B, S22.059A, S22.059B, S22.060A, S22.060B, S22.061A, S22.061B, S22.062A, S22.062B, S22.068A, S22.068B, S22.069A, S22.069B, S22.070A, S22.070B, S22.071A, S22.071B, S22.072A, S22.072B, S22.078A, S22.078B, S22.079A, S22.079B, S22.080A, S22.080B, S22.081A, S22.081B, S22.082A, S22.082B, S22.088A, S22.088B, S22.089A, S22.089B, S22.20XA, S22.20XB, S22.21XA, S22.21XB, S22.22XA, S22.22XB, S22.23XA, S22.23XB, S22.24XA, S22.24XB, S22.31XA, S22.31XB, S22.32XA, S22.32XB, S22.39XA, S22.39XB, S22.41XA, S22.41XB, S22.42XA, S22.42XB, S22.43XA, S22.43XB, S22.49XA, S22.49XB, S22.5XXA, S22.5XXB, S22.9XXA, S22.9XXB, S32.000A, S32.000B, S32.001A, S32.001B, S32.002A, S32.002B, S32.008A, S32.008B, S32.009A, S32.009B, S32.010A, S32.010B, S32.011A, S32.011B, S32.012A, S32.012B, S32.018A, S32.018B, S32.019A, S32.019B, S32.020A, S32.020B, S32.021A, S32.021B, S32.022A, S32.022B, S32.028A, S32.028B, S32.029A, S32.029B, S32.030A, S32.030B, S32.031A, S32.031B, S32.032A, S32.032B, S32.038A, S32.038B, S32.039A, S32.039B, S32.040A, S32.040B, S32.041A, S32.041B, S32.042A, S32.042B, S32.048A, S32.048B, S32.049A, S32.049B, S32.050A, S32.050B, S32.051A, S32.051B, S32.052A, S32.052B, S32.058A, S32.058B, S32.059A, S32.059B, S32.10XA, S32.10XB, S32.110A, S32.110B, S32.111A, S32.111B, S32.112A, S32.112B, S32.119A, S32.119B, S32.120A, S32.120B, S32.121A, S32.121B, S32.122A, S32.122B, S32.129A, S32.129B, S32.130A, S32.130B, S32.131A, S32.131B, S32.132A, S32.132B, S32.139A, S32.139B, S32.14XA, S32.14XB, S32.15XA, S32.15XB, S32.16XA, S32.16XB, S32.17XA, S32.17XB, S32.19XA, S32.19XB, S32.2XXA, S32.2XXB, S32.301A, S32.301B, S32.302A, S32.302B, S32.309A, S32.309B, S32.311A, S32.311B, S32.312A, S32.312B, S32.313A, S32.313B, S32.314A, S32.314B, S32.315A, S32.315B, S32.316A, S32.316B, S32.391A, S32.391B, S32.392A, S32.392B, S32.399A, S32.399B, S32.401A, S32.401B,

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S92.351A,

S92.351B, S92.352A, S92.352B, S92.353A, S92.353B, S92.354A, S92.354B, S92.355A, S92.355B, S92.356A, S92.356B, S92.811A, S92.811B, S92.812A, S92.812B, S92.819A, S92.819B, S92.901A, S92.901B, S92.902A, S92.902B, S92.909A, S92.909B, S99.001A, S99.001B, S99.002A, S99.002B, S99.009A, S99.009B, S99.011A, S99.011B, S99.012A, S99.012B, S99.019A, S99.019B, S99.021A, S99.021B, S99.022A, S99.022B, S99.029A, S99.029B, S99.031A, S99.031B, S99.032A, S99.032B, S99.039A, S99.039B, S99.041A, S99.041B, S99.042A, S99.042B, S99.049A, S99.049B, S99.091A, S99.091B, S99.092A, S99.092B, S99.099A, S99.099B, S99.101A, S99.101B, S99.102A, S99.102B, S99.109A, S99.109B, S99.111A, S99.111B, S99.112A, S99.112B, S99.119A, S99.119B, S99.121A, S99.121B, S99.122A, S99.122B, S99.129A, S99.129B, S99.131A, S99.131B, S99.132A, S99.132B, S99.139A, S99.139B, S99.141A, S99.141B, S99.142A, S99.142B, S99.149A, S99.149B, S99.191A, S99.191B, S99.192A, S99.192B, S99.199A, S99.199B

AND

Patient procedure during the **performance period** (CPT): 22310, 22315, 22318, 22319, 22325, 22326, 22327, 22510, 22511, 22513, 22514, 25600, 25605, 25606, 25607, 25608, 25609, 27230, 27232, 27235, 27236, 27238, 27240, 27244, 27245, 27246, 27248

AND NOT

DENOMINATOR EXCLUSIONS:

Patient begins using hospice services any time during the measurement period: G9768

OR

Patient had a bone mineral density test in the past two years OR received osteoporosis medication or therapy in the past 12 months: G9769

NUMERATOR:

Patients who received either a bone mineral density test or a prescription for a drug to treat osteoporosis in the six months after the fracture

Definitions:

Pharmacologic Therapy – U.S. Food and Drug Administration approved pharmacologic options for osteoporosis prevention and/or treatment of postmenopausal osteoporosis include, in alphabetical order: bisphosphonates (alendronate, alendronate-cholecalciferol, ibandronate, risedronate, zoledronic acid, calcitonin, teriparatide, denosumab, and raloxifene).

Prescribed – May include prescription given to the patient for treatment of osteoporosis (as listed above) at one or more encounters during the **performance period**, or documentation that patient is already taking pharmacologic therapy for osteoporosis, as documented in the current medical list.

Numerator Options:

Performance Met:

Central Dual-energy X-Ray Absorptiometry (DXA) results documented (**3095F**)

OR

Performance Met:

Pharmacologic therapy (other than minerals/vitamins) for osteoporosis prescribed (**G8633**)

OR

Performance Not Met:

Central dual energy X-ray absorptiometry (DXA) measurement was not performed, reason not otherwise specified (**3095F with 8P**)

OR

Performance Not Met:

Pharmacologic therapy for osteoporosis was not prescribed, reason not given (**G8635**)

RATIONALE:

The intent of this measure is secondary prevention of fractures through the appropriate diagnosis and treatment of osteoporosis. Detecting osteoporosis and initiating treatment will help to prevent future fractures from occurring.

Future fractures, especially in the older population, can cause significant health issues, decline in function, and, in some cases lead to mortality.

CLINICAL RECOMMENDATION STATEMENTS:

Appropriate follow-up care for a fracture in post-menopausal women includes either 1) bone mineral density testing to assess whether a patient has osteoporosis or 2) receiving pharmacologic therapy to treat osteoporosis. This measure is based on guidelines and evidence that patients at high risk of fracture, including a patients with a history of fragility fractures, should be screened for osteoporosis (USPSTF 2012, Nelson 2010, AACE 2010) and that patients who have a fragility fracture of the hip or spine should be provided with a treatment for osteoporosis (AACE 2010, Crandall 2012).

"The USPSTF recommends screening for osteoporosis in women aged 65 years or older and in younger women whose fracture risk is equal to or greater than that of a 65-year-old white woman who has no additional risk factors." (USPSTF 2011)

All postmenopausal women with a history of fracture without major trauma should receive a bone mineral density test to test for osteoporosis (AACE 2010). Patients who have a history of fracture of the hip or spine also need pharmacologic therapy to treat for osteoporosis. (AACE 2010; NOF 2014)

American Association of Clinical Endocrinologists (AACE). Medical Guidelines for Clinical Practice for the Diagnosis and Treatment of Postmenopausal Osteoporosis, 2010 Dec. Guideline available from [Link to Medical Guidelines for Clinical Practice for the Diagnosis and Treatment of Postmenopausal Osteoporosis](#), accessed April 25, 2014.

National Osteoporosis Foundation. Clinician's Guide to Prevention and Treatment of Osteoporosis. Washington, DC: National Osteoporosis Foundation; 2014. Accessed at: [Link to Clinician's Guide to Prevention and Treatment of Osteoporosis](#)

Preventive Services Task Force (USPSTF). Recommendations and Rationale: Screening for Osteoporosis in Postmenopausal Women. January 2011. Accessed at: [Link to Recommendations and Rationale: Screening for Osteoporosis in Postmenopausal Women](#)

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2017 Registry Individual Measure Flow **#418: NQF #0053: Osteoporosis Management in Women Who Had a Fracture**



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

**Dual-Energy X-Ray Absorptiometry (DXA)

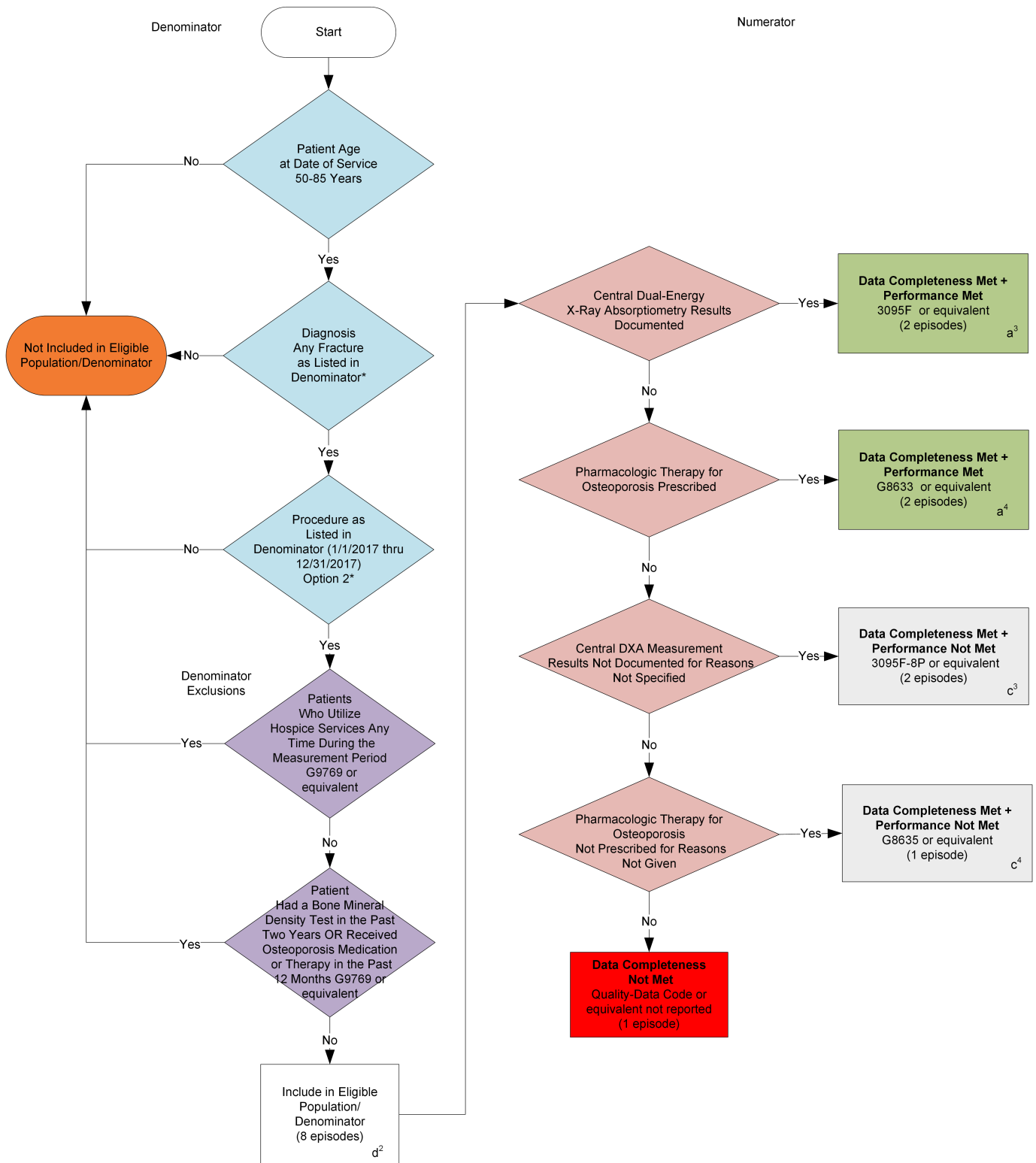
This measure contains 2 Reporting Criteria, although as the Sample Calculation indicates, there is **ONLY** one data completeness and one performance rate for this measure.

NOTE: Reporting Frequency: Episode

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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.

v1

Registry Individual Measure Flow **#418: NQF #0053: Osteoporosis Management in Women Who Had a Fracture**



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

**Dual-Energy X-Ray Absorptiometry (DXA)

This measure contains 2 Reporting Criteria, although as the Sample Calculation indicates, there is **ONLY** one data completeness and one performance rate for this measure.

NOTE: Reporting Frequency: Episode

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v1

2017 Registry Individual Measure Flow
#418: NQF #0053: Osteoporosis Management in Women Who Had a Fracture

SAMPLE CALCULATIONS:

Data Completeness=

$$\frac{\text{Performance Met}(a^1+a^2+a^3+a^4=8 \text{ episodes}) + \text{Performance Not Met}(c^1+c^2+c^3+c^4=6 \text{ episodes})}{\text{Eligible Population / Denominator}(d^1+d^2=16 \text{ episodes})} = \frac{14 \text{ episodes}}{16 \text{ episodes}} = 87.50\%$$

Performance Rate=

$$\frac{\text{Performance Met}(a^1+a^2+a^3+a^4=8 \text{ episodes})}{\text{Data Completeness Numerator}(14 \text{ episodes})} = \frac{8 \text{ episodes}}{14 \text{ episodes}} = 57.14$$

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

**Dual-Energy X-Ray Absorptiometry (DXA)

This measure contains 2 Reporting Criteria, although as the Sample Calculation indicates, there is **ONLY** one data completeness and one performance rate for this measure.

NOTE: Reporting Frequency: Episode

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v1

2017 Registry Individual Measure Flow
#418 NQF #0053: Osteoporosis Management in Women Who Had a Fracture

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

Reporting Criteria 1

1. Start with Denominator
2. Check Patient Age:
 - a. If the Age is 50 to 85 Years of age on Date of Service and equals No during the measurement period, do not include in Eligible Patient Population. Stop Processing.
 - b. If the Age is 50 to 85 Years of age on Date of Service and equals Yes during the measurement period, proceed to check Patient Diagnosis.
3. Check Patient Diagnosis:
 - a. If Diagnosis of Any Fracture as Listed in the Denominator equals No, do not include in Eligible Patient Population. Stop Processing.
 - b. If Diagnosis of Any Fracture as Listed in the Denominator equals Yes, proceed to check Encounter Performed.
4. Check Encounter Performed:
 - a. If Encounter as Listed in the Denominator Option 1 equals No, do not include in Eligible Patient Population. Stop Processing.
 - b. If Encounter as Listed in the Denominator Option 1 equals Yes, proceed to check Patients Utilizing Hospice Services Any Time During the Measurement Period.
5. Check Patients Utilizing Hospice Services Any Time During the Measurement Period:
 - a. If Patients Utilizing Hospice Services Any Time During the Measurement Period equals No, proceed to check Patient Had a Bone Mineral Density Test in the Past Two Years OR Received Osteoporosis Medication or Therapy in the Past 12 Months.
 - b. If Patients Utilizing Hospice Services Any Time During the Measurement Period equals Yes, do not include in Eligible Patient Population. Stop Processing.
6. Check Patient Had a Bone Mineral Density Test in the Past Two Years OR Received Osteoporosis Medication or Therapy in the Past 12 Months:
 - a. If Patient Had a Bone Mineral Density Test in the Past Two Years OR Received Osteoporosis Medication or Therapy in the Past 12 Months equals No, include in the Eligible population.
 - b. If Patient Had a Bone Mineral Density Test in the Past Two Years OR Received Osteoporosis Medication or Therapy in the Past 12 Months equals Yes, do not include in Eligible Patient Population. Stop Processing.
7. 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 d1 equals 8 episodes in the sample calculation.
8. Start Numerator
9. Check Central Dual-Energy X-Ray Absorptiometry Results Documented:
 - a. If Central Dual-Energy X-Ray Absorptiometry Results Documented equals Yes, include in Data Completeness Met and Performance Met.
 - b. Data Completeness Met and Performance Met letter is represented as Data Completeness and Performance Rate in the Sample Calculation listed at the end of this document. Letter a1 equals 2 episodes in Sample Calculation.
 - c. If Central Dual-Energy X-Ray Absorptiometry Results Documented equals No, proceed to Pharmacological Therapy for Osteoporosis Prescribed.
10. Check Pharmacological Therapy for Osteoporosis Prescribed:
 - a. If Pharmacological Therapy for Osteoporosis Prescribed equals Yes, include in Data Completeness Met and Performance Met.
 - b. Data Completeness Met and Performance Met letter is represented as Reporting Rate and Performance Rate in the Sample Calculation listed at the end of this document. Letter a2 equals 2 episodes in Sample Calculation.
 - c. If Pharmacological Therapy for Osteoporosis Prescribed equals No, proceed to Central DXA Measurement Results Not Documented for Reasons Not Specified.
11. Check Central DXA Measurement Results Not Documented for Reasons Not Specified:
 - a. If Central DXA Measurement Results Not Documented for Reasons Not Specified equals Yes, include in Data Completeness Met and Performance Not Met.
 - b. Data Completeness Met and Performance Not Met letter is represented as Data Completeness in the Sample Calculation listed at the end of this document. Letter c1 equals 2 episodes in the Sample Calculation.
 - c. If Central DXA Measurement Results Not Documented for Reasons Not Specified equals No, proceed to Pharmacologic Therapy for Osteoporosis Not Prescribed for Reasons Not Given.
12. Check Pharmacologic Therapy for Osteoporosis Not Prescribed for Reasons Not Given:
 - a. If Pharmacologic Therapy for Osteoporosis Not Prescribed for Reasons Not Given equals Yes, include in Data Completeness Met and Performance Not Met.
 - b. Data Completeness Met and Performance Not Met letter is represented as Data Completeness in the Sample Calculation listed at the end of this document. Letter c2 equals 1 episode in the Sample Calculation.
 - c. If Pharmacologic Therapy for Osteoporosis Not Prescribed for Reasons Not Given equals No, proceed to Data Completeness Not Met.
13. Check Data Completeness Not Met:

- a. If Data Completeness Not Met equals No, Quality Data Code or equivalent not reported. 1 episode has been subtracted from the Data Completeness numerator in sample calculation.

2017 Registry Individual Measure Flow
#418 NQF #0053: Osteoporosis Management in Women Who Had a Fracture

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

Reporting Criteria 2

1. Start with Denominator
2. Check Patient Age:
 - a. If the Age is 50 to 85 Years of age on Date of Service and equals No during the measurement period, do not include in Eligible Patient Population. Stop Processing.
 - b. If the Age is 50 to 85 Years of age on Date of Service and equals Yes during the measurement period, proceed to check Patient Diagnosis.
3. Check Patient Diagnosis:
 - a. If Diagnosis of Any Fracture as Listed in the Denominator equals No, do not include in Eligible Patient Population. Stop Processing.
 - b. If Diagnosis of Any Fracture as Listed in the Denominator equals Yes, proceed to check Procedure Performed.
4. Check Procedure Performed:
 - a. If Procedure as Listed in the Denominator Option 2 equals No, do not include in Eligible Patient Population. Stop Processing.
 - b. If Procedure as Listed in the Denominator Option 2 equals Yes, proceed to check Patient Receiving Hospice Services, Patient Not Eligible.
5. Check Patient Receiving Hospice Services, Patient Not Eligible:
 - a. If Patient Receiving Hospice Services, Patient Not Eligible equals No, proceed to check Central DXA Measurement Results Not Documented For Medical Reasons.
 - b. If Patient Receiving Hospice Services, Patient Not Eligible equals Yes, do not include in Eligible Patient Population. Stop Processing.
6. Check Central DXA Measurement Results Not Documented For Medical Reasons:
 - a. If Central DXA Measurement Results Not Documented For Medical Reasons equals No, include in the Eligible population.
 - b. If Central DXA Measurement Results Not Documented For Medical Reasons equals Yes, do not include in Eligible Patient Population. Stop Processing.
7. 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 d2 equals 8 episodes in the sample calculation.

8. Start Numerator
9. Check Central Dual-Energy X-Ray Absorptiometry Results Documented:
 - a. If Central Dual-Energy X-Ray Absorptiometry Results Documented equals Yes, include in Data Completeness Met and Performance Met.
 - b. Data Completeness Met and Performance Met letter is represented as Data Completeness and Performance Rate in the Sample Calculation listed at the end of this document. Letter a3 equals 2 episodes in Sample Calculation.
 - c. If Central Dual-Energy X-Ray Absorptiometry Results Documented equals No, proceed to Pharmacological Therapy for Osteoporosis Prescribed.
10. Check Pharmacological Therapy for Osteoporosis Prescribed:
 - a. If Pharmacological Therapy for Osteoporosis Prescribed equals Yes, include in Data Completeness Met and Performance Met.
 - b. Data Completeness Met and Performance Met letter is represented as Data Completeness and Performance Rate in the Sample Calculation listed at the end of this document. Letter a4 equals 2 episodes in Sample Calculation.
 - c. If Pharmacological Therapy for Osteoporosis Prescribed equals No, proceed to Central DXA Measurement Results Not Documented for Reasons Not Specified.
11. Check Central DXA Measurement Results Not Documented for Reasons Not Specified:
 - a. If Central DXA Measurement Results Not Documented for Reasons Not Specified equals Yes, include in Data Completeness Met and Performance Not Met.
 - b. Data Completeness Met and Performance Not Met letter is represented as Data Completeness in the Sample Calculation listed at the end of this document. Letter c3 equals 2 episodes in the Sample Calculation.
 - c. If Central DXA Measurement Results Not Documented for Reasons Not Specified equals No, proceed to Pharmacologic Therapy for Osteoporosis Not Prescribed for Reasons Not Given.
12. Check Pharmacologic Therapy for Osteoporosis Not Prescribed for Reasons Not Given:
 - a. If Pharmacologic Therapy for Osteoporosis Not Prescribed for Reasons Not Given equals Yes, include in Data Completeness Met and Performance Not Met.
 - b. Data Completeness Met and Performance Not Met letter is represented as Data Completeness in the Sample Calculation listed at the end of this document. Letter c4 equals 1 episode in the Sample Calculation.
 - c. If Pharmacologic Therapy for Osteoporosis Not Prescribed for Reasons Not Given equals No, proceed to Data Completeness Not Met.
13. Check Data Completeness Not Met:
 - a. If Data Completeness Not Met equals No, Quality Data Code or equivalent not reported. 1 episode has been subtracted from the Data Completeness numerator in sample calculation.

SAMPLE CALCULATIONS:

Data Completeness=

$$\frac{\text{Performance Met}(a^1+a^2+a^3+a^4=8 \text{ episodes}) + \text{Performance Not Met}(c^1+c^2+c^3+c^4=6 \text{ episodes})}{\text{Eligible Population / Denominator}(d^1+d^2=16 \text{ episodes})} = \frac{14 \text{ episodes}}{16 \text{ episodes}} = 87.50\%$$

Performance Rate=

$$\frac{\text{Performance Met}(a^1+a^2+a^3+a^4=8 \text{ episodes})}{\text{Data Completeness Numerator}(14 \text{ episodes})} = \frac{8 \text{ episodes}}{14 \text{ episodes}} = 57.14$$