

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

2018 OPTIONS FOR INDIVIDUAL MEASURES:

CLAIMS 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 submitted after **each occurrence** of a fracture during the six months prior to the performance period through June 30 of 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 bone mineral density (BMD) measurement performed or pharmacologic therapy prescribed. The management (BMD 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 submission 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 Submission:

The listed denominator criteria is used to identify the intended patient population. The numerator quality-data codes included in this specification are used to submit the quality actions allowed by the measure. All measure-specific coding should be submitted on the claim(s) representing the eligible encounter.

The intent of the exclusion for individuals age 65 and older residing long-term care facilities, including nursing homes, is to exclude individuals who may have limited life expectancy and increased frailty where the benefit of the process may not exceed the risks. This exclusion is not intended as a clinical recommendation regarding whether the measures process is inappropriate for specific populations, instead the exclusions allows clinicians to engage in shared decision making with patients about the benefits and risks of screening when an individual has limited life expectancy.

DENOMINATOR:

Women who experienced a fracture, except fractures of the finger, toe, face or skull, during the six months prior to the performance period through June 30 of the performance period.

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, 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, S32.402A, S32.402B, S32.409A, S32.409B, S32.411A, S32.411B, S32.412A, S32.412B, S32.413A, S32.413B, S32.414A, S32.414B, S32.415A, S32.415B, S32.416A, S32.416B, S32.421A, S32.421B, S32.422A, S32.422B, S32.423A, S32.423B, S32.424A, S32.424B, S32.425A, S32.425B, S32.426A, S32.426B, S32.431A, S32.431B, S32.432A, S32.432B, S32.433A, S32.433B, S32.434A, S32.434B, S32.435A, S32.435B, S32.436A, S32.436B, S32.441A, S32.441B, S32.442A, S32.442B, S32.443A, S32.443B, S32.444A, S32.444B, S32.445A, S32.445B, S32.446A, S32.446B, S32.451A, S32.451B, S32.452A, S32.452B, S32.453A, S32.453B, S32.454A, S32.454B, S32.455A, S32.455B, S32.456A, S32.456B, S32.461A, S32.461B, S32.462A, S32.462B, S32.463A, S32.463B, S32.464A, S32.464B, S32.465A, S32.465B, S32.466A, S32.466B, S32.471A, S32.471B, S32.472A, S32.472B, S32.473A, S32.473B, S32.474A, S32.474B, S32.475A, S32.475B, S32.476A, S32.476B, S32.481A, S32.481B, S32.482A, S32.482B, S32.483A, S32.483B, S32.484A, S32.484B, S32.485A, S32.485B, S32.486A, S32.486B, S32.491A, S32.491B, S32.492A, S32.492B, S32.499A, S32.499B, S32.501A, S32.501B, S32.502A, S32.502B, S32.509A, S32.509B, S32.511A, S32.511B, S32.512A, S32.512B, S32.519A,

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AND

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

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,

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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

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

Numerator Note: While the Central Dual Energy X-Ray Absorptiometry (DXA) is the most common measurement for measuring bone mineral density (BMD), for the purposes of submitting this measure, spinal densitometry X-ray, ultrasonography for densitometry, CT bone density axial and Peripheral Dual-energy X-Ray Absorptiometry (DXA) would meet performance and the intent of the measure and 3095F would be submitted.

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 raloxifine).

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.

Bone Mineral Density (BMD) - A bone density test is an examination by either special x-rays or ultrasound to determine how much bone mineral content (calcium and other minerals) is present in any section of bone.

Numerator Quality-Data Coding Options:

Patient receiving Hospice Services, Patient Not Eligible:

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

OR

Bone Mineral Density Measurement Results not Documented for Medical Reasons

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

OR

Patient age 65 or older in Institutional SNP or residing in long-term care facility, Patient Not Eligible

Denominator Exclusion: G9938 Exclude all encounters from the denominator for patients age 65 and older in Institutional Special Needs Plans

(SNP) or residing in long term care with POS code 32, 33, 34, 54 or 56 anytime during the measurement period

OR

Bone Mineral Density Measurement Ordered or Results Documented or Pharmacologic Therapy Prescribed

Performance Met: CPT II 3095F:

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

OR

Performance Met: G8633:

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

OR

Bone Mineral Density Measurement Results not Documented, Reason not Otherwise Specified

Append a submission modifier (8P) to CPT Category II code 3095F to submit circumstances when the action described in the numerator is not performed and the reason is not otherwise specified.

Performance Not Met: 3095F with 8P:

Central Dual-energy X-Ray Absorptiometry (DXA) measurement was not performed, reason not otherwise specified

OR

Pharmacologic Therapy not Prescribed, Reason not Given

Performance Not Met: G8635:

Pharmacologic therapy for osteoporosis was not prescribed, reason not given

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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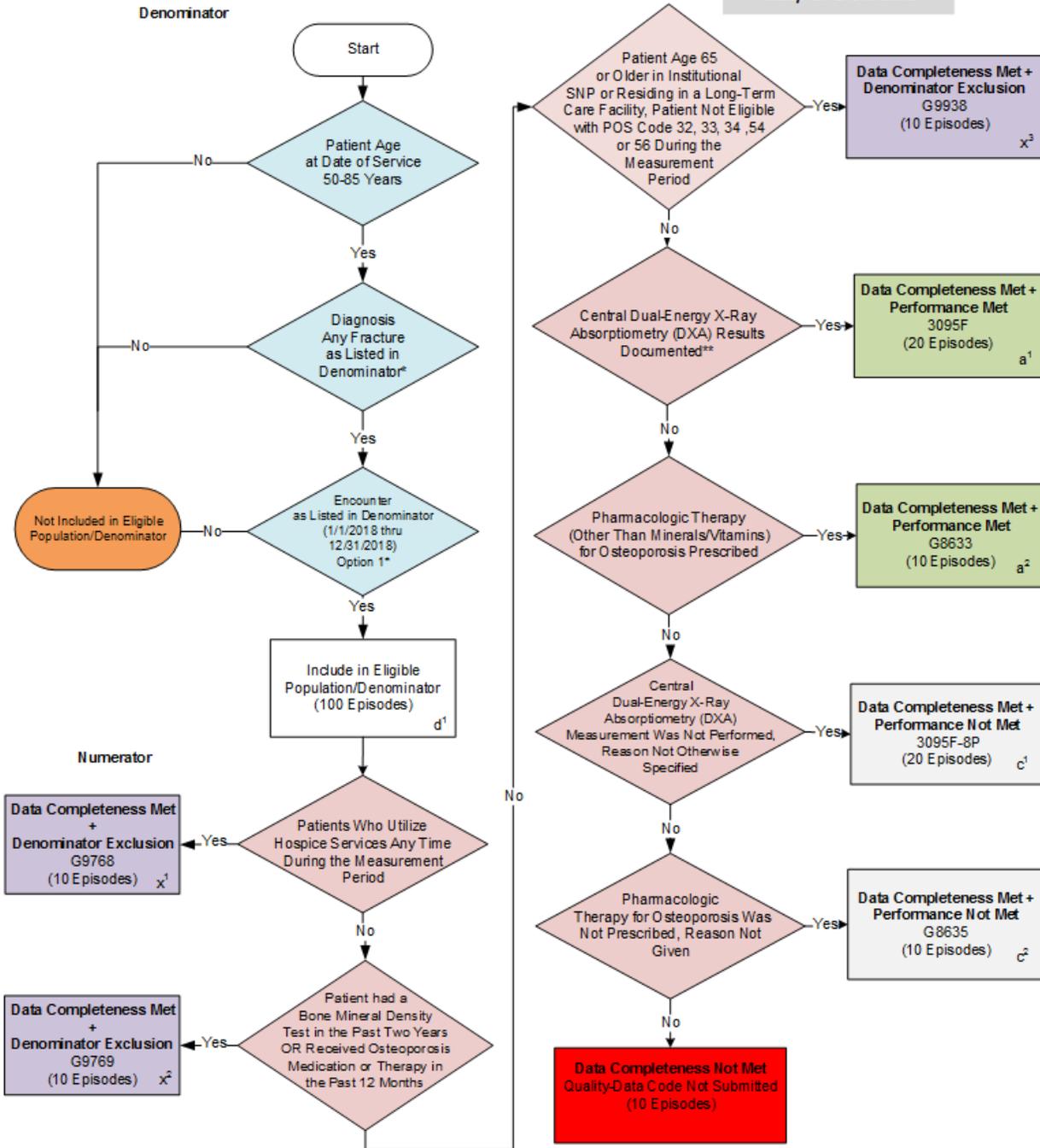
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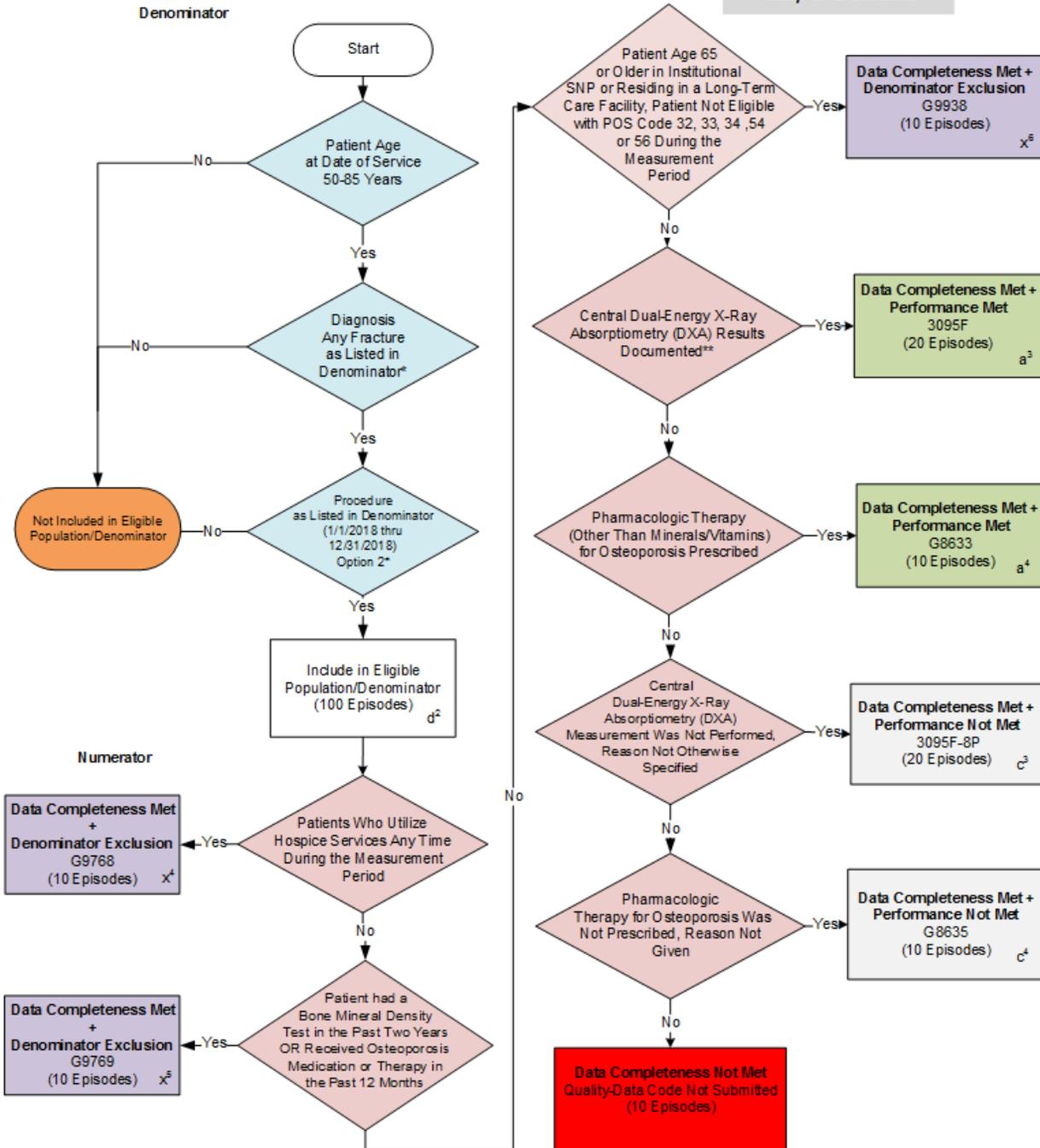
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**2018 Claims Flow for Quality ID #418: NQF #0053:
Osteoporosis Management in Women Who Had a Fracture
Option 1**



* See the posted Measure Specification for specific coding and instructions to submit this measure.
 **While the Central Dual Energy X-Ray Absorptiometry (DXA) is the most common measurement for measuring bone mineral density (BMD), for the purposes of submitting this measure, spinal densitometry X-ray, ultrasonography for densitometry, CT bone density axial and Peripheral Dual-energy X-Ray Absorptiometry (DXA) would meet performance and the intent of the measure and 3095F would be submitted.
 This measure contains 2 Submission Criteria, although as the Sample Calculation indicates, there is ONLY one data completeness and one performance rate for this measure.
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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.
 NOTE: Submission Frequency: Episode
 v2

**2018 Claims Flow for Quality ID #418: NQF #0053:
Osteoporosis Management in Women Who Had a Fracture
Option 2**



* See the posted Measure Specification for specific coding and instructions to submit this measure.
 **While the Central Dual Energy X-Ray Absorptiometry (DXA) is the most common measurement for measuring bone mineral density (BMD), for the purposes of submitting this measure, spinal densitometry X-ray, ultrasonography for densitometry, CT bone density axial and Peripheral Dual-energy X-Ray Absorptiometry (DXA) would meet performance and the intent of the measure and 3095F would be submitted.
 This measure contains 2 Submission Criteria, although as the Sample Calculation indicates, there is ONLY one data completeness and one performance rate for this measure.
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 NOTE: Submission Frequency: Episode
 v2

**2018 Claims Flow for Quality ID #418: NQF #0053:
Osteoporosis Management in Women Who Had a Fracture**

SAMPLE CALCULATION S:

Data Completeness=

$$\frac{\text{Denominator Exclusion } (x^1+x^2+x^3+x^4+x^5=60 \text{ episodes})+\text{Performance Met } (a^1+a^2+a^3+a^4=60 \text{ episodes})+\text{Performance Not Met } (c^1+c^2+c^3+c^4=60 \text{ episodes})}{\text{Eligible Population / Denominator } (d^1+d^2=200 \text{ episodes})} = \frac{180 \text{ episodes}}{200 \text{ episodes}} = 90.00\%$$

Performance Rate=

$$\frac{\text{Performance Met } (a^1+a^2+a^3+a^4=60 \text{ episodes})}{\text{Data Completeness Numerator } (180 \text{ episodes}) - \text{Denominator Exclusion } (x^1+x^2+x^3+x^4+x^5=60 \text{ episodes})} = \frac{60 \text{ episodes}}{120 \text{ episodes}} = 50.00\%$$

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

**While the Central Dual Energy X-Ray Absorptiometry (DXA) is the most common measurement for measuring bone mineral density (BMD), for the purposes of submitting this measure, spinal densitometry X-ray, ultrasonography for densitometry, CT bone density axial and Peripheral Dual-energy X-Ray Absorptiometry (DXA) would meet performance and the intent of the measure and 3095F would be submitted.

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

NOTE: Submission 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. v2

2018 Claims Flow for Quality ID
#418 NQF #0053: Osteoporosis Management in Women Who Had a Fracture

Please refer to the specific section of the specification to identify the denominator and numerator information for use in submitting this Individual Specification. This flow is for claims data submission.

Submission 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 equals No during the performance 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 equals Yes during the performance 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.

If Encounter as Listed in the Denominator Option 1 equals Yes, include in the Eligible population.
5. 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 100 episodes in the Sample Calculation.
6. Start Numerator
7. Check Patients who Utilize Hospice Services Any Time During the Measurement Period:
 - a. If Patients who Utilize Hospice Services Any Time During the Measurement Period equals Yes, include in Data Completeness Met and Denominator Exclusion.
 - b. Data Completeness Met and Denominator Exclusion letter is represented as Data Completeness and Performance Rate in the Sample Calculation listed at the end of this document. Letter x¹ equals 10 episodes in the Sample Calculation.
 - c. If Patients who Utilize Hospice Services Any Time During the Measurement Period equals No, proceed to Patient had a Bone Mineral Density Test in the Past Two Years OR Received Osteoporosis Medication or Therapy in the Past 12 Months.
8. 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 Yes, include in Data Completeness Met and Denominator Exclusion.
 - b. Data Completeness Met and Denominator Exclusion letter is represented as Data Completeness and Performance Rate in the Sample Calculation listed at the end of this document. Letter x² equals 10 episodes in the Sample Calculation.
 - c. 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, proceed to Check Patients age 65 or older in Institutional Special Needs Plans (SNP) or Residing in Long-Term Care with POS code 32, 33, 34, 54, or 56 any time during the measurement period.
9. Check Patients age 65 or older in Institutional Special Needs Plans (SNP) or Residing in Long-Term Care with POS code 32, 33, 34, 54, or 56 any time during the measurement period
- a. If Patient age is 65 or older in Institutional Special Needs Plans (SNP) or Residing in Long-Term Care with POS code 32, 33, 34, 54, or 56 any time during the measurement period Yes, include in Data Completeness Met and Denominator Exclusion.
 - b. Data Completeness Met and Denominator Exclusion letter is represented as Data Completeness and Performance Rate in the Sample Calculation listed at the end of this document. Letter x³ equals 10 episodes in the Sample Calculation.
 - c. If Patient age is 65 or older in Institutional Special Needs Plans (SNP) or Residing in Long-Term Care with POS code 32, 33, 34, 54, or 56 any time during the measurement period equals No, include in the Eligible population and proceed to the Central Dual-Energy X-Ray Absorptiometry Results Documented
10. Check Central Dual-energy X-Ray Absorptiometry (DXA) Results Documented:
- a. If Central Dual-energy X-Ray Absorptiometry (DXA) 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 20 episodes in the Sample Calculation.
 - c. If Central Dual-energy X-Ray Absorptiometry (DXA) Results Documented equals No, proceed to Pharmacological Therapy for Osteoporosis Prescribed.
11. Check Pharmacological Therapy (Other Than Minerals/Vitamins) for Osteoporosis Prescribed:
- a. If Pharmacological Therapy (Other Than Minerals/Vitamins) 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 a² equals 10 episodes in the Sample Calculation.
 - c. If Pharmacological Therapy (Other Than Minerals/Vitamins) for Osteoporosis Prescribed equals No, proceed to Central DXA Measurement was not Performed, Reason Not Specified.
12. Check Central Dual-energy X-Ray Absorptiometry (DXA) Measurement Was Not Performed, Reason Not Otherwise Specified:

- a. If Central Dual-energy X-Ray Absorptiometry (DXA) Measurement Was Not Performed, Reason Not Otherwise 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 20 episodes in the Sample Calculation.
 - c. If Central Dual-energy X-Ray Absorptiometry (DXA) Measurement Was Not Performed, Reason Not Otherwise Specified equals No, proceed to Pharmacologic Therapy for Osteoporosis was Not Prescribed, Reason Not Given.
13. Check Pharmacologic Therapy for Osteoporosis was Not Prescribed, Reason Not Given:
- a. If Pharmacologic Therapy for Osteoporosis was Not Prescribed, Reason 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 10 episodes in the Sample Calculation.
 - c. If Pharmacologic Therapy for Osteoporosis was Not Prescribed, Reason Not Given equals No, proceed to Data Completeness Not Met.
14. Check Data Completeness Not Met:
- a. If Data Completeness Not Met equals No, Quality Data Code not submitted. 10 episodes have been subtracted from the Data Completeness Numerator in the Sample Calculation.

2018 Claims Flow for Quality ID
#418 NQF #0053: Osteoporosis Management in Women Who Had a Fracture

Please refer to the specific section of the specification to identify the denominator and numerator information for use in submitting this Individual Specification. This flow is for claims data submission.

Submission 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, include in the Eligible Population.
5. 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 100 episodes in the Sample Calculation.
6. Start Numerator
7. Check Patients Who Utilize Hospice Services Any Time During the Measurement Period:
 - a. If Patients Who Utilize Hospice Services Any Time During the Measurement Period equals Yes, include in Data Completeness Met and Denominator Exclusion.
 - b. Data Completeness Met and Denominator Exclusion letter is represented as Data Completeness and Performance Rate in the Sample Calculation listed at the end of this document. Letter x⁴ equals 10 episodes in the Sample Calculation.
 - c. If Patients Who Utilize Hospice Services Any Time During the Measurement Period equals No, proceed to Patient had a Bone Mineral Density Test in the Past Two Years OR Received Osteoporosis Medication or Therapy in the Past 12 Months.
8. 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 Yes, include in Data Completeness Met and Denominator Exclusion.
 - b. Data Completeness Met and Denominator Exclusion letter is represented as Data Completeness and Performance Rate in the Sample Calculation listed at the end of this document. Letter x⁵ equals 10 episodes in the Sample Calculation.
 - c. 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, proceed to Check Patients age 65 or older in Institutional Special Needs Plans (SNP) or Residing in Long-Term Care with POS code 32, 33, 34, 54, or 56 any time during the measurement period.
9. Check Patients age 65 or older in Institutional Special Needs Plans (SNP) or Residing in Long-Term Care with POS code 32, 33, 34, 54, or 56 any time during the measurement period
- d. If Patient age is 65 or older in Institutional Special Needs Plans (SNP) or Residing in Long-Term Care with POS code 32, 33, 34, 54, or 56 any time during the measurement period Yes, include in Data Completeness Met and Denominator Exclusion.
 - e. Data Completeness Met and Denominator Exclusion letter is represented as Data Completeness and Performance Rate in the Sample Calculation listed at the end of this document. Letter x⁶ equals 10 episodes in the Sample Calculation.
 - f. If Patient age is 65 or older in Institutional Special Needs Plans (SNP) or Residing in Long-Term Care with POS code 32, 33, 34, 54, or 56 any time during the measurement period equals No, include in the Eligible population and proceed to the Central Dual-Energy X-Ray Absorptiometry Results Documented
10. Check Central Dual-energy X-Ray Absorptiometry (DXA) Results Documented:
- a. If Central Dual-energy X-Ray Absorptiometry (DXA) 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 20 episodes in the Sample Calculation.
 - c. If Central Dual-energy X-Ray Absorptiometry (DXA) Results Documented equals No, proceed to Pharmacological Therapy for Osteoporosis Prescribed.
11. Check Pharmacological Therapy (Other Than Minerals/Vitamins) for Osteoporosis Prescribed:
- a. If Pharmacological Therapy (Other Than Minerals/Vitamins) 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 10 episodes in Sample Calculation.
 - c. If Pharmacological Therapy (Other Than Minerals/Vitamins) for Osteoporosis Prescribed equals No, proceed to Central DXA Measurement Results Not Documented for Reasons Not Otherwise Specified.
12. Check Central Dual-energy X-Ray Absorptiometry (DXA) Measurement Was Not Performed, Reason Not Otherwise Specified:
- a. If Central Dual-energy X-Ray Absorptiometry (DXA) Measurement Was Not Performed, Reason Not Otherwise 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 20 episodes in the Sample Calculation.
 - c. If Central Dual-energy X-Ray Absorptiometry (DXA) Measurement Was Not Performed, Reason Not Otherwise Specified equals No, proceed to Pharmacologic Therapy Not Prescribed for Reasons Not Given.
13. Check Pharmacologic Therapy for Osteoporosis Not Prescribed for Reason Not Given:
- a. If Pharmacologic Therapy for Osteoporosis Not Prescribed for Reason 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 10 episodes in the Sample Calculation.
 - c. If Pharmacologic Therapy for Osteoporosis Not Prescribed for Reason Not Given equals No, proceed to Data Completeness Not Met.
14. Check Data Completeness Not Met:
- a. If Data Completeness Not Met equals No, Quality Data Code not submitted. 10 episodes have been subtracted from the Data Completeness Numerator in Sample Calculation.

SAMPLE CALCULATIONS:

Data Completeness=

$$\frac{\text{Denominator Exclusion (x}^1+\text{x}^2+\text{x}^3+\text{x}^4+\text{x}^5+\text{x}^6=60 \text{ episodes})+\text{Performance Met (a}^1+\text{a}^2+\text{a}^3+\text{a}^4= 60 \text{ episodes})+\text{Performance Not Met (c}^1+\text{c}^2+\text{c}^3+\text{c}^4= 60 \text{ episodes)}}{\text{Eligible Population / Denominator (d}^1+\text{d}^2= 200 \text{ episodes)}} = \frac{180 \text{ episodes}}{200 \text{ episodes}} = 90.00\%$$

Performance Rate=

$$\frac{\text{Performance Met (a}^1+\text{a}^2+\text{a}^3+\text{a}^4= 60 \text{ episodes)}}{\text{Data Completeness Numerator (180 episodes) – Denominator Exclusion (x}^1+\text{x}^2+\text{x}^3+\text{x}^4+\text{x}^5=60 \text{ episodes)}} = \frac{60 \text{ episodes}}{120 \text{ episodes}} = 50.00\%$$