

eCQM Title	Appropriate Use of DXA Scans in Women Under 65 Years Who Do Not Meet the Risk Factor Profile for Osteoporotic Fracture		
eCQM Identifier (Measure Authoring Tool)	249	eCQM Version number	1.4.000
NQF Number	Not Applicable	GUID	a3ce125d-c238-42ce-862e-dba0055dfc66
Measurement Period	January 1, 20XX through December 31, 20XX		
Measure Steward	Centers for Medicare & Medicaid Services (CMS)		
Measure Developer	National Committee for Quality Assurance		
Endorsed By	None		
Description	Percentage of female patients 50 to 64 years of age without select risk factors for osteoporotic fracture who received an order for a dual-energy x-ray absorptiometry (DXA) scan during the measurement period.		
Copyright	<p>This Physician Performance Measure (Measure) and related data specifications are owned and were developed by the National Committee for Quality Assurance (NCQA) under contract with the Centers for Medicare and Medicaid Services (CMS) (Contract No. HHSM-500-2013-130111, Task No. HHSM-500-TO001). NCQA is not responsible for any use of the Measure. NCQA makes no representations, warranties, or endorsement about the quality of any organization or physician that uses or reports performance measures and NCQA has no liability to anyone who relies on such measures or specifications. NCQA holds a copyright in the Measure. The Measure can be reproduced and distributed, without modification, for noncommercial purposes (eg, use by healthcare providers in connection with their practices) without obtaining approval from NCQA. Commercial use is defined as the sale, licensing, or distribution of the Measure for commercial gain, or incorporation of the Measure into a product or service that is sold, licensed or distributed for commercial gain. All commercial uses or requests for modification must be approved by NCQA and are subject to a license at the discretion of NCQA. (C) 2012-2017 National Committee for Quality Assurance. All Rights Reserved.</p> <p>Limited proprietary coding is contained in the Measure specifications for user convenience. Users of proprietary code sets should obtain all necessary licenses from the owners of the code sets. NCQA disclaims all liability for use or accuracy of any third party codes contained in the specifications.</p> <p>CPT(R) contained in the Measure specifications is copyright 2004-2017 American Medical Association. LOINC(R) copyright 2004-2017 Regenstrief Institute, Inc. This material contains SNOMED Clinical Terms(R) (SNOMED CT[R]) copyright 2004-2017 International Health Terminology Standards Development Organisation. ICD-10 copyright 2017 World Health Organization. All Rights Reserved.</p>		
Disclaimer	<p>The performance Measure is not a clinical guideline and does not establish a standard of medical care, and has not been tested for all potential applications. THE MEASURE AND SPECIFICATIONS ARE PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND.</p> <p>Due to technical limitations, registered trademarks are indicated by (R) or [R] and unregistered trademarks are indicated by (TM) or [TM].</p>		
Measure Scoring	Proportion		
Measure Type	Process		
Stratification	None		
Risk Adjustment	None		
Rate Aggregation	None		
Rationale	<p>This measure is expected to increase recording of patient risk for fracture data and decrease the amount of inappropriate DXA scans. Current osteoporosis guidelines underscore the importance of screening women for osteoporosis if they are 1) 65 years or older or 2) younger than 65 if they have a fracture risk "equal to or greater than that of a 65-year-old white woman who has no additional risk factors." Clinical information, such as age, body mass index (BMI), parental fracture history, and tobacco and alcohol use, can be used to determine a woman's fracture risk (USPSTF, 2011). Additionally, there are potentially avoidable harms associated with screening for osteoporosis in general, including exposure to radiation, false positive exams, and resulting side effects from unnecessary osteoporosis medications, which add costs to an already burdened health care system (Lim, 2009).</p>		
Clinical Recommendation Statement	<p>United States Preventive Services Task Force (USPSTF):</p> <p>"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. This is a B recommendation."</p> <p>"The USPSTF concludes that for men, evidence of the benefits of screening for osteoporosis is lacking and the balance of benefits and harms cannot be determined."</p> <p>"The USPSTF used the FRAX (Fracture Risk Assessment) tool to estimate a 10-year risk for fractures because this tool relies on easily obtainable clinical information, such as age, body mass index (BMI), parental fracture history, and tobacco and alcohol use; its development was supported by a broad international collaboration and extensively validated in 2 large U.S. cohorts; and it is freely available to clinicians and the public."</p> <p>"On the basis of the U.S. FRAX tool, a 65-year-old white woman with no other risk factors has a 9.3% 10-year risk for any osteoporotic fracture. White women aged 50 to 64 years with equivalent or greater 10-year fracture risks based on specific risk factors include but are not limited to the following persons: 1) a 50-year-old current smoker with a BMI less than 21 kg/m², daily alcohol use, and parental fracture history; 2) a 55-year-old woman with parental fracture history; 3) a 60-year-old woman with a BMI less than 21 kg/m² and daily alcohol use; and 4) a 60-year old current smoker with daily alcohol use. The FRAX tool also predicts 10-year fracture risks for black, Asian, and Hispanic women in the United States. In general, estimated fracture risks in nonwhite women are lower than those for white women of the same age."</p> <p>The National Institute for Health and Clinical Excellence (NICE) Osteoporosis Guidelines:</p> <p>"Consider assessment of fracture risk:</p> <ol style="list-style-type: none"> in all women aged 65 years and over and all men aged 75 years and over in women aged under 65 years and men aged under 75 years in the presence of risk factors, for example: <ul style="list-style-type: none"> *previous fragility fracture *current use or frequent/ recent use of oral or systemic glucocorticoids *history of falls *family history of hip fracture *other causes of secondary osteoporosis *low body mass index (BMI) (less than 18.5 kg/m²) *smoking *alcohol intake of more than 14 units per week for women and more than 21 units per week for men." <p>"Do not routinely assess fracture risk in people aged under 50 years unless they have major risk factors (for example, current or frequent/recent use of oral or systemic glucocorticoids, untreated premature menopause or previous fragility fracture), because they are unlikely to be at high risk."</p> <p>"Estimate absolute risk when assessing risk of fracture (for example, the predicted risk of major osteoporotic or hip fracture over 10 years, expressed as a percentage."</p> <p>"Use either FRAX (without a bone mineral density [BMD] value if a dual energy X-ray absorptiometry [DXA] scan has not previously been undertaken) or QFracture, within their allowed age ranges, to estimate 10-year predicted absolute fracture risk when assessing risk of fracture."</p> <p>"Do not routinely measure BMD to assess fracture risk without prior assessment using FRAX (without a BMD value) or QFracture."</p> <p>"Take into account that risk assessment tools may underestimate fracture risk in certain circumstances, for example if a person:</p> <ul style="list-style-type: none"> *has a history of multiple fractures *has had previous vertebral fracture(s) *has a high alcohol intake *is taking high-dose oral or high-dose systemic glucocorticoids (more than 7.5 mg prednisolone or equivalent per day for 3 months or longer) *has other causes of secondary osteoporosis." 		
Improvement Notation	Lower score indicates better quality		
Reference	U.S. Preventive Services Task Force (USPSTF). "Screening for Osteoporosis in Postmenopausal Women." Rockville, MD: AHRQ, January 2011. Available at http://www.uspreventiveservicestaskforce.org/uspstf/uspstf.htm . Accessed February 10, 2018.		

Reference	Lim, L. S., L. J. Hoeksema, and K. Sherin. "Screening for Osteoporosis in the Adult U.S. Population. ACPM Position Statement on Preventive Practice." American Journal of Preventive Medicine, vol. 36, no. 4, 2009, pp. 366-75.
Reference	National Institute for Health and Clinical Excellence (NICE). Osteoporosis: Fragility Fracture Risk. 2012. Available at [https://www.nice.org.uk/guidance/cg146/chapter/1-Guidance]. Accessed February 10, 2018.
Definition	The measure allows for providers to use the Fracture Risk Assessment Tool (FRAX[R]) to calculate 10-year absolute fracture risk. The FRAX was developed by the World Health Organization in 2008 to evaluate a patient's 10-year probability of hip fracture and major osteoporotic fracture (clinical spine, forearm, hip, or shoulder fracture). It is applicable to people aged 40-90 years.
Guidance	<p>CUMULATIVE MEDICATION DURATION is an individual's total number of medication days over a specific period; the period counts multiple prescriptions with gaps in between, but does not count the gaps during which a medication was not dispensed. To determine the cumulative medication duration, determine first the number of the Medication Days for each prescription in the period: the number of doses divided by the dose frequency per day. Then add the Medication Days for each prescription without counting any days between the prescriptions.</p> <p>For example, there is an original prescription for 30 days with 2 refills for thirty days each. After a gap of 3 months, the medication was prescribed again for 60 days with 1 refill for 60 days. The cumulative medication duration is $(30 \times 3) + (60 \times 2) = 210$ days over the 10 month period.</p> <p>There are two ways that a patient can be excluded from the measure:</p> <ol style="list-style-type: none"> 1. The patient has a specific number of "combination" risk factors (the number of risk factors varies by age). 2. The patient has one or more of the "independent" risk factors, including a 10-year probability of major osteoporotic fracture of 9.3 percent or higher as determined by the FRAX.
Transmission Format	TBD
Initial Population	Female patients ages 50 to 64 years with an encounter during the measurement period
Denominator	Equals Initial Population
Denominator Exclusions	<p>Exclude patients with a combination of risk factors (as determined by age) or one of the independent risk factors</p> <p>Ages: 50-54 (≥ 4 combination risk factors) or 1 independent risk factor Ages: 55-59 (≥ 3 combination risk factors) or 1 independent risk factor Ages: 60-64 (≥ 2 combination risk factors) or 1 independent risk factor</p> <p>COMBINATION RISK FACTORS [The following risk factors are all combination risk factors; they are grouped by when they occur in relation to the measurement period]:</p> <p>The following risk factors may occur any time in the patient's history but must be active during the measurement period: White (race) BMI ≤ 20 kg/m² (must be the first BMI of the measurement period) Smoker (current during the measurement period) Alcohol consumption ($>$ two units per day (one unit is 12 oz. of beer, 4 oz. of wine, or 1 oz. of liquor))</p> <p>The following risk factor may occur any time in the patient's history and must not start during the measurement period: Osteopenia</p> <p>The following risk factors may occur at any time in the patient's history or during the measurement period: Rheumatoid arthritis Hyperthyroidism Malabsorption Syndromes: celiac disease, inflammatory bowel disease, ulcerative colitis, Crohn's disease, cystic fibrosis, malabsorption Chronic liver disease Chronic malnutrition Documentation of history of hip fracture in parent Osteoporotic fracture Glucocorticoids (≥ 5 mg/per day) [cumulative medication duration ≥ 90 days]</p> <p>INDEPENDENT RISK FACTORS (The following risk factors are all independent risk factors; they are grouped by when they occur in relation to the measurement period):</p> <p>The following risk factors may occur at any time in the patient's history and must not start during the measurement period: Osteoporosis</p> <p>The following risk factors may occur at any time in the patient's history: Gastric bypass FRAX[R] ten-year probability of all major osteoporosis related fracture ≥ 9.3 percent Aromatase inhibitors Type I Diabetes End stage renal disease Osteogenesis imperfecta Ankylosing spondylitis Psoriatic arthritis Ehlers-Danlos syndrome Cushing's syndrome Hyperparathyroidism Marfan syndrome Lupus</p>
Numerator	Female patients who received an order for at least one DXA scan in 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

Table of Contents

- [Population Criteria](#)
- [Definitions](#)
- [Functions](#)
- [Terminology](#)
- [Data Criteria \(QDM Data Elements\)](#)
- [Supplemental Data Elements](#)
- [Risk Adjustment Variables](#)

Population Criteria

Initial Population

exists ("Patient Characteristic Birthdate") BirthDate
where Global."CalendarAgeInYearsAt"(BirthDate.birthDatetime, start of "Measurement Period") ≥ 50
and Global."CalendarAgeInYearsAt"(BirthDate.birthDatetime, start of "Measurement Period") < 65
and exists ("Patient Characteristic Sex": "Female")
and exists "Qualifying Encounter"

Denominator

"Initial Population"

Denominator Exclusions

"Has Age Dependent Risk Factors"
or exists "Osteoporosis Before Measurement Period"
or exists "Independent Risk Factors Applicable Any Time"
or exists "Independent Risk Factors Before Measurement Period"

▲ Numerator

exists ["Diagnostic Study, Order": "DXA (Dual energy Xray Absorptiometry) Scan"] DXA
where DXA.authorDatetime during "Measurement Period"

▲ Numerator Exclusions

None

▲ Denominator Exceptions

None

▲ Stratification

None

Definitions**▲ Age Dependent Combination Risk Factors**

"Combination Risk Factors Applicable Any Time"
union "Osteoporotic Fracture From Patient History"
union "Parent History of Hip Fracture"
union "Osteopenia Before Measurement Period"
union "Current Tobacco User"
union "Average of More Than Two Drinks Per Drinking Day"
union "Glucocorticoid Medication Duration Greater Than or Equal to 90 Days"
union "First BMI in Measurement Period Less Than or Equal to 20 kg m2"
union ["Patient Characteristic Race": "White"]

▲ Average of More Than Two Drinks Per Drinking Day

```
{ First(["Assessment, Performed": "Average Number of Drinks per Drinking Day"] AverageDrinks
  where AverageDrinks.authorDatetime during "Measurement Period"
  and AverageDrinks.result > 2
  sort by authorDatetime
)}
```

▲ Combination Risk Factors Applicable Any Time

(["Diagnosis": "Rheumatoid Arthritis"]
union ["Diagnosis": "Hyperthyroidism"]
union ["Diagnosis": "Malabsorption Syndromes"]
union ["Diagnosis": "Chronic Liver Disease"]
union ["Diagnosis": "Chronic Malnutrition"]) CombinationRiskDiagnosis
where CombinationRiskDiagnosis.prevalencePeriod starts before end "Measurement Period"

▲ Cumulative Glucocorticoid Medication Duration

```
{ Tuple {
  Duration: "Cumulative Medication Duration"("Glucocorticoid Medication Active")
}}
```

▲ Current Tobacco User

```
{ First(["Assessment, Performed": "Tobacco Use Screening"] TobaccoScreen
  where TobaccoScreen.result in "Current Tobacco Smoker"
  and TobaccoScreen.authorDatetime during "Measurement Period"
  sort by authorDatetime
)}
```

▲ Denominator

"Initial Population"

▲ Denominator Exclusions

"Has Age Dependent Risk Factors"
or exists "Osteoporosis Before Measurement Period"
or exists "Independent Risk Factors Applicable Any Time"
or exists "Independent Risk Factors Before Measurement Period"

▲ First BMI in Measurement Period

```
{ First(["Physical Exam, Performed": "BMI Ratio"] BMI
  where BMI.relevantPeriod during "Measurement Period"
  and BMI.result is not null
  sort by start of relevantPeriod
)}
```

▲ First BMI in Measurement Period Less Than or Equal to 20 kg m2

"First BMI in Measurement Period" FirstBMI
where FirstBMI.result <= 20 'kg/m2'

▲ Glucocorticoid Medication Active

["Medication, Active": "Glucocorticoids (oral only)"] Glucocorticoid
where Glucocorticoid.relevantPeriod starts before start of "Measurement Period"

▲ Glucocorticoid Medication Duration Greater Than or Equal to 90 Days

"Cumulative Glucocorticoid Medication Duration" CumulativeGlucocorticoidMedication
where CumulativeGlucocorticoidMedication.Duration >= 90

▲ Independent Risk Factors Applicable Any Time

(["Diagnosis": "Type 1 Diabetes"]
union ["Diagnosis": "End Stage Renal Disease"]
union ["Diagnosis": "Osteogenesis Imperfecta"]
union ["Diagnosis": "Ankylosing Spondylitis"]
union ["Diagnosis": "Psoriatic Arthritis"]
union ["Diagnosis": "Ehlers Danlos Syndrome"]
union ["Diagnosis": "Cushings Syndrome"]
union ["Diagnosis": "Marfan's Syndrome"]
union ["Diagnosis": "Hyperparathyroidism"]
union ["Diagnosis": "Lupus"]) IndependentRiskDiagnosis
where IndependentRiskDiagnosis.prevalencePeriod starts before end "Measurement Period"

▲ Independent Risk Factors Before Measurement Period

(["Procedure, Performed": "Gastric Bypass Surgery"]
union ["Medication, Active": "Aromatase Inhibitors"]
union ["Medication, Order": "Aromatase Inhibitors"]) GastricBypassOrAromataseInhibitor
where GastricBypassOrAromataseInhibitor.relevantPeriod starts before start "Measurement Period"
union "Osteoporosis Fracture Probability"

▲ Initial Population

```
exists ["Patient Characteristic Birthdate"] BirthDate
  where Global."CalendarAgeInYearsAt"(BirthDate.birthDatetime, start of "Measurement Period")>= 50
  and Global."CalendarAgeInYearsAt"(BirthDate.birthDatetime, start of "Measurement Period")< 64
  and exists ( ["Patient Characteristic Sex": "Female" ] )
  and exists "Qualifying Encounter"
```

▲ Numerator

```
exists ["Diagnostic Study, Order": "DXA (Dual energy Xray Absorptiometry) Scan"] DXA
  where DXA.authorDatetime during "Measurement Period"
```

▲ Osteopenia Before Measurement Period

```
["Diagnosis": "Osteopenia"] OsteopeniaDiagnosis
  where OsteopeniaDiagnosis.prevalencePeriod starts before start "Measurement Period"
```

▲ Osteoporosis Before Measurement Period

```
["Diagnosis": "Osteoporosis"] OsteoporosisDiagnosis
  where OsteoporosisDiagnosis.prevalencePeriod starts before start "Measurement Period"
  and OsteoporosisDiagnosis.prevalencePeriod overlaps "Measurement Period"
```

▲ Osteoporosis Fracture Probability

```
["Assessment, Performed": "Ten-year probability of all major osteoporosis related fracture"] ProbabilityAssessment
  where ProbabilityAssessment.result >= 9.3 %
  and ProbabilityAssessment.authorDatetime before start of "Measurement Period"
```

▲ Osteoporotic Fracture From Patient History

```
( ["Diagnosis": "Osteoporotic Fractures"] PathologicalFracture
  where PathologicalFracture.prevalencePeriod starts before start "Measurement Period"
)
```

▲ Parent History of Hip Fracture

```
["Assessment, Performed": "History of hip fracture in parent"] ParentFractureHistory
  where ParentFractureHistory.authorDatetime before start of "Measurement Period"
```

▲ Qualifying Encounter

```
( ["Encounter, Performed": "Office Visit"]
  union ["Encounter, Performed": "Preventive Care Services - Established Office Visit, 18 and Up"]
  union ["Encounter, Performed": "Preventive Care Services - Other"]
  union ["Encounter, Performed": "Preventive Care Services-Initial Office Visit, 18 and Up"]
  union ["Encounter, Performed": "Outpatient Consultation"] ) ValidEncounter
  where ValidEncounter.relevantPeriod during "Measurement Period"
```

▲ SDE Ethnicity

```
["Patient Characteristic Ethnicity": "Ethnicity"]
```

▲ SDE Payer

```
["Patient Characteristic Payer": "Payer"]
```

▲ SDE Race

```
["Patient Characteristic Race": "Race"]
```

▲ SDE Sex

```
["Patient Characteristic Sex": "ONC Administrative Sex"]
```

Functions

▲ Cumulative Medication Duration(Medication List<"Medication, Active">)

```
Sum((collapse(Medication.relevantPeriod))CumulativeMedication
  return all duration in days of CumulativeMedication
)
```

▲ Has Age Dependent Risk Factors()

```
singleton from ( ["Patient Characteristic Birthdate"] Birthdate
  let Age: Global."CalendarAgeInYearsAt"(Birthdate.birthDatetime, start of "Measurement Period"),
  NumberOfRiskFactors: Count("Age Dependent Combination Risk Factors")
  return ( ( Age between 50 and 54
    and NumberOfRiskFactors >= 4
  )
  or ( Age between 55 and 59
    and NumberOfRiskFactors >= 3
  )
  or ( Age between 60 and 63
    and NumberOfRiskFactors >= 2
  )
)
```

▲ Global.CalendarAgeInYearsAt(BirthDateTime DateTime, AsOf DateTime)

```
years between ToDate(BirthDateTime)and ToDate(AsOf)
```

▲ Global.ToDate(Value DateTime)

```
DateTime(year from Value, month from Value, day from Value, 0, 0, 0, 0, timezone from Value)
```

Terminology

- valueset "Ankylosing Spondylitis" using "2.16.840.1.113883.3.464.1003.113.12.1045"
- valueset "Aromatase Inhibitors" using "2.16.840.1.113883.3.464.1003.196.12.1265"
- valueset "Average Number of Drinks per Drinking Day" using "2.16.840.1.113883.3.464.1003.106.12.1018"
- valueset "BMI Ratio" using "2.16.840.1.113883.3.600.1.1490"
- valueset "Chronic Liver Disease" using "2.16.840.1.113883.3.464.1003.199.12.1035"
- valueset "Chronic Malnutrition" using "2.16.840.1.113883.3.464.1003.199.12.1036"
- valueset "Current Tobacco Smoker" using "2.16.840.1.113883.3.600.2390"
- valueset "Cushings Syndrome" using "2.16.840.1.113883.3.464.1003.117.12.1009"
- valueset "DXA (Dual energy Xray Absorptiometry) Scan" using "2.16.840.1.113883.3.464.1003.113.12.1051"
- valueset "Ehlers Danlos Syndrome" using "2.16.840.1.113883.3.464.1003.113.12.1047"
- valueset "End Stage Renal Disease" using "2.16.840.1.113883.3.526.3.353"
- valueset "Ethnicity" using "2.16.840.1.114222.4.11.837"
- valueset "Female" using "2.16.840.1.113883.3.560.100.2"
- valueset "Gastric Bypass Surgery" using "2.16.840.1.113883.3.464.1003.198.12.1050"
- valueset "Glucocorticoids (oral only)" using "2.16.840.1.113883.3.464.1003.196.12.1266"
- valueset "History of hip fracture in parent" using "2.16.840.1.113883.3.464.1003.113.12.1040"

- valueset "Hyperparathyroidism" using "2.16.840.1.113883.3.464.1003.117.12.1016"
- valueset "Hyperthyroidism" using "2.16.840.1.113883.3.464.1003.117.12.1015"
- valueset "Lupus" using "2.16.840.1.113883.3.464.1003.117.12.1010"
- valueset "Malabsorption Syndromes" using "2.16.840.1.113883.3.464.1003.199.12.1050"
- valueset "Marfan's Syndrome" using "2.16.840.1.113883.3.464.1003.113.12.1048"
- valueset "Office Visit" using "2.16.840.1.113883.3.464.1003.101.12.1001"
- valueset "ONC Administrative Sex" using "2.16.840.1.113762.1.4.1"
- valueset "Osteogenesis Imperfecta" using "2.16.840.1.113883.3.464.1003.113.12.1044"
- valueset "Osteopenia" using "2.16.840.1.113883.3.464.1003.113.12.1049"
- valueset "Osteoporosis" using "2.16.840.1.113883.3.464.1003.113.12.1038"
- valueset "Osteoporotic Fractures" using "2.16.840.1.113883.3.464.1003.113.12.1050"
- valueset "Outpatient Consultation" using "2.16.840.1.113883.3.464.1003.101.12.1008"
- valueset "Payer" using "2.16.840.1.114222.4.11.3591"
- valueset "Preventive Care Services - Established Office Visit, 18 and Up" using "2.16.840.1.113883.3.464.1003.101.12.1025"
- valueset "Preventive Care Services - Other" using "2.16.840.1.113883.3.464.1003.101.12.1030"
- valueset "Preventive Care Services-Initial Office Visit, 18 and Up" using "2.16.840.1.113883.3.464.1003.101.12.1023"
- valueset "Psoriatic Arthritis" using "2.16.840.1.113883.3.464.1003.113.12.1046"
- valueset "Race" using "2.16.840.1.114222.4.11.836"
- valueset "Rheumatoid Arthritis" using "2.16.840.1.113883.3.464.1003.113.12.1005"
- valueset "Ten-year probability of all major osteoporosis related fracture" using "2.16.840.1.113883.3.464.1003.118.12.1081"
- valueset "Tobacco Use Screening" using "2.16.840.1.113883.3.526.3.1278"
- valueset "Type 1 Diabetes" using "2.16.840.1.113883.3.464.1003.103.12.1020"
- valueset "White" using "2.16.840.1.113883.3.464.1003.123.12.1007"

Data Criteria (QDM Data Elements)

- "Assessment, Performed: Average Number of Drinks per Drinking Day" using "Average Number of Drinks per Drinking Day (2.16.840.1.113883.3.464.1003.106.12.1018)"
- "Assessment, Performed: History of hip fracture in parent" using "History of hip fracture in parent (2.16.840.1.113883.3.464.1003.113.12.1040)"
- "Assessment, Performed: Ten-year probability of all major osteoporosis related fracture" using "Ten-year probability of all major osteoporosis related fracture (2.16.840.1.113883.3.464.1003.118.12.1081)"
- "Assessment, Performed: Tobacco Use Screening" using "Tobacco Use Screening (2.16.840.1.113883.3.526.3.1278)"
- "Diagnosis: Ankylosing Spondylitis" using "Ankylosing Spondylitis (2.16.840.1.113883.3.464.1003.113.12.1045)"
- "Diagnosis: Chronic Liver Disease" using "Chronic Liver Disease (2.16.840.1.113883.3.464.1003.199.12.1035)"
- "Diagnosis: Chronic Malnutrition" using "Chronic Malnutrition (2.16.840.1.113883.3.464.1003.199.12.1036)"
- "Diagnosis: Cushings Syndrome" using "Cushings Syndrome (2.16.840.1.113883.3.464.1003.117.12.1009)"
- "Diagnosis: Ehlers Danlos Syndrome" using "Ehlers Danlos Syndrome (2.16.840.1.113883.3.464.1003.113.12.1047)"
- "Diagnosis: End Stage Renal Disease" using "End Stage Renal Disease (2.16.840.1.113883.3.526.3.353)"
- "Diagnosis: Hyperparathyroidism" using "Hyperparathyroidism (2.16.840.1.113883.3.464.1003.117.12.1016)"
- "Diagnosis: Hyperthyroidism" using "Hyperthyroidism (2.16.840.1.113883.3.464.1003.117.12.1015)"
- "Diagnosis: Lupus" using "Lupus (2.16.840.1.113883.3.464.1003.117.12.1010)"
- "Diagnosis: Malabsorption Syndromes" using "Malabsorption Syndromes (2.16.840.1.113883.3.464.1003.199.12.1050)"
- "Diagnosis: Marfan's Syndrome" using "Marfan's Syndrome (2.16.840.1.113883.3.464.1003.113.12.1048)"
- "Diagnosis: Osteogenesis Imperfecta" using "Osteogenesis Imperfecta (2.16.840.1.113883.3.464.1003.113.12.1044)"
- "Diagnosis: Osteopenia" using "Osteopenia (2.16.840.1.113883.3.464.1003.113.12.1049)"
- "Diagnosis: Osteoporosis" using "Osteoporosis (2.16.840.1.113883.3.464.1003.113.12.1038)"
- "Diagnosis: Osteoporotic Fractures" using "Osteoporotic Fractures (2.16.840.1.113883.3.464.1003.113.12.1050)"
- "Diagnosis: Psoriatic Arthritis" using "Psoriatic Arthritis (2.16.840.1.113883.3.464.1003.113.12.1046)"
- "Diagnosis: Rheumatoid Arthritis" using "Rheumatoid Arthritis (2.16.840.1.113883.3.464.1003.113.12.1005)"
- "Diagnosis: Type 1 Diabetes" using "Type 1 Diabetes (2.16.840.1.113883.3.464.1003.103.12.1020)"
- "Diagnostic Study, Order: DXA (Dual energy Xray Absorptiometry) Scan" using "DXA (Dual energy Xray Absorptiometry) Scan (2.16.840.1.113883.3.464.1003.113.12.1051)"
- "Encounter, Performed: Office Visit" using "Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001)"
- "Encounter, Performed: Outpatient Consultation" using "Outpatient Consultation (2.16.840.1.113883.3.464.1003.101.12.1008)"
- "Encounter, Performed: Preventive Care Services - Established Office Visit, 18 and Up" using "Preventive Care Services - Established Office Visit, 18 and Up (2.16.840.1.113883.3.464.1003.101.12.1025)"
- "Encounter, Performed: Preventive Care Services - Other" using "Preventive Care Services - Other (2.16.840.1.113883.3.464.1003.101.12.1030)"
- "Encounter, Performed: Preventive Care Services-Initial Office Visit, 18 and Up" using "Preventive Care Services-Initial Office Visit, 18 and Up (2.16.840.1.113883.3.464.1003.101.12.1023)"
- "Medication, Active: Aromatase Inhibitors" using "Aromatase Inhibitors (2.16.840.1.113883.3.464.1003.196.12.1265)"
- "Medication, Active: Glucocorticoids (oral only)" using "Glucocorticoids (oral only) (2.16.840.1.113883.3.464.1003.196.12.1266)"
- "Medication, Order: Aromatase Inhibitors" using "Aromatase Inhibitors (2.16.840.1.113883.3.464.1003.196.12.1265)"
- "Patient Characteristic Ethnicity: Ethnicity" using "Ethnicity (2.16.840.1.114222.4.11.837)"
- "Patient Characteristic Payer: Payer" using "Payer (2.16.840.1.114222.4.11.3591)"
- "Patient Characteristic Race: Race" using "Race (2.16.840.1.114222.4.11.836)"
- "Patient Characteristic Race: White" using "White (2.16.840.1.113883.3.464.1003.123.12.1007)"
- "Patient Characteristic Sex: Female" using "Female (2.16.840.1.113883.3.560.100.2)"
- "Patient Characteristic Sex: ONC Administrative Sex" using "ONC Administrative Sex (2.16.840.1.113762.1.4.1)"
- "Physical Exam, Performed: BMI Ratio" using "BMI Ratio (2.16.840.1.113883.3.600.1.1490)"
- "Procedure, Performed: Gastric Bypass Surgery" using "Gastric Bypass Surgery (2.16.840.1.113883.3.464.1003.198.12.1050)"

Supplemental Data Elements

▲ SDE Ethnicity

["Patient Characteristic Ethnicity": "Ethnicity"]

▲ SDE Payer

["Patient Characteristic Payer": "Payer"]

▲ SDE Race

["Patient Characteristic Race": "Race"]

▲ SDE Sex

["Patient Characteristic Sex": "ONC Administrative Sex"]

Risk Adjustment Variables

None

Measure Set	None
-------------	------