eCQM Title	Use of High-Risk Medications in O	Older Adults	
eCQM Identifier (Measure Authoring Tool)	156	eCQM Version Number	13.2.000
CBE Number	Not Applicable	GUID	a3837ff8-1abc-4ba9-800e-fd4e7953adb
Measurement Period	January 1, 20XX through Decemb	er 31, 20XX	
Measure Steward	National Committee for Quality Assurance		
Measure Developer	National Committee for Quality Assurance		
Endorsed By	None		
Description	Percentage of patients 65 years of age and older who were ordered at least two high-risk medications from the same drug class. Three rates are reported. 1. Percentage of patients 65 years of age and older who were ordered at least two high-risk medications from the same drug class. 2. Percentage of patients 65 years of age and older who were ordered at least two high-risk medications from the same drug class, except for appropriate diagnoses. 3. Total rate (the sum of the two numerators divided by the denominator, deduplicating for patients in both numerators).		
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Measure Scoring	Proportion		
Measure Type	Process		
Stratification	None		
Risk Adjustment	None		
Rate Aggregation	None		
Rationale	drug toxicity and pose a concern f older adults (Kaufman, Brodin, & been connected to significantly lor as well as increased risk of death benzodiazepine receptor agonists, delirium, falls, fractures, gastroint benzodiazepines in older adults he 2015; Takada et al., 2016). Additi cognitive decline in older adults w the prevalence of PIM use was 77 nursing home). The most common	for patient safety. There is clinical consel Sarafian, 2005). Potentially inappropriat inger hospital stay lengths and increased (Lau et al., 2004). Use of specific high- and nonsteroidal anti-inflammatory drucestinal bleeding and acute kidney injury as been associated with increased risk or onally, the use of antipsychotics can lea ith dementia (Tampi et al., 2016). Amor % among long-stay nursing home residn In PIMs were benzodiazepines, antipsych	eased risk of harm from drug side-effects a ensus that these drugs pose increased risks te medication (PIM) use in older adults has d hospitalization costs (Hagstrom et al., 20 risk medications such as hypnotics, includi ugs (NSAIDS) can result in increased risk of y (Merel & Paauw, 2017). Long-term use o of dementia (Zhong, Wang, Zhang, & Zhao, d to increased risk of stroke and greater ng Medicare beneficiaries it is estimated th ents (defined as >101 consecutive days in notics, and insulin (Riester et al., 2023).
	to those who receive appropriate inappropriate medication use in ol prescription for a potentially inapp some adverse drug events (ADEs) adults are preventable (MacKinnon studies have shown an increase in	medications (Fu, Liu, & Christensen, 20) ider adults found that 40 percent of indi propriate medication and 13 percent fille of are unavoidable, studies estimate that of & Hepler, 2003). More recently with the	ed two or more (Fick et al., 2008). While between 30 and 80 percent of ADEs in old en onset of the COVID-19 pandemic, sever s, which could result in an increase in the texts.
	Conservative estimates of extra co a year (Fu et al., 2007). Medicatio drugs are developed, and new the The annual direct costs of prevent (Institute of Medicine, 2007). By t older; this age group is projected Likewise, the population aged 85 between 2008 and 2050. As the o	osts due to potentially inappropriate me on use by older adults will likely increase erapeutic and preventive uses for medic table ADEs in the Medicare population h, the year 2030, nearly one in five U.S. re to more than double from 38.7 million i years or older is expected to increase al idder adult population continues to grow, or which several medications are prescri	patient safety and significant cost savings dications in older adults average \$7.2 billie further as the U.S. population ages, new ations are discovered (Rothberg et al., 200 ave been estimated to exceed \$800 millior esidents is expected to be aged 65 years o in 2008 to more than 88.5 million in 2050. Imost four-fold, from 5.4 million to 19 millio, the number of older adults who present ibed will likely continue to increase, resulti
Clinical Recommendation Statement	The measure is based on recomm Inappropriate Medication Use in O consensus processes by Beers in I the American Geriatrics Society B that are potentially inappropriate medications may be warranted, at factors such as dosage, days supp NCQA's Geriatric Measurement Ad	endations from the American Geriatrics older Adults (2023). The criteria were de 1997, Zhan in 2001, Fick et al. in 2003 eers Criteria Update Expert Panel in 202 for all older adults, except for those wit old drugs that are potentially inappropria oly and underlying diseases or condition:	2012, 2015, and 2019 and, most recently 23. The Beers Criteria identifies lists of drug h certain conditions for which some high-ri ate in older adults based on various high-ri s. drugs that should be used with caution in

	re indicates better quality Type: CITATION		
Reference Reference Journal of https://wreview.htm	Text: 'Agrawal, R. (2020). Careful Prescribing of Benzodiazepines during COVID-19 Pandemic: A Review. Mental Health & Clinical Psychology, 4(4). Retrieved from www.mentalhealthjournal.org/articles/careful-prescribing-of-benzodiazepines-during-covid-19-pandemic-a- nl'		
Reference Reference Criteria fo	Reference Type: CITATION Reference Text: 'Fick, D. M., Semla, T., Beizer, J., et al. (2015). American Geriatrics Society 2015 Updated Beers Criteria for Potentially Inappropriate Medication Use in Older Adults. Journal of the American Geriatrics Society, 63(11), 2227-2246.'		
Reference Reference	Reference Type: CITATION Reference Text: 'Beers, M. H. (1997). Explicit criteria for determining potentially inappropriate medication use by the elderly. Archives of Internal Medicine, 157, 1531-1536.'		
Reference Reference potentially	Reference Type: CITATION Reference Text: 'Fick, D., Semla, T., Beizer, J., et al. (2012). American Geriatrics Society updated Beers criteria for potentially inappropriate medication use in older adults: The American Geriatrics Society 2012 Beers Criteria Update Expert Panel. Journal of the American Geriatrics Society, 60(4), 616.'		
Reference Reference	Reference Type: CITATION Reference Text: 'Fick, D. M., Cooper, J. W., Wade, W. E., et al. (2003). Updating the Beers criteria for potentially inappropriate medication use in older adults. Archives of Internal Medicine, 163(22), 2716-2724.'		
Reference Reference	Type: CITATION Text: 'Fick, D. M., Mion, L. C., Beers, M. H., et al. (2008). Health outcomes associated with potentially ate medication use in older adults. Research in Nursing & Health, 31(1), 42-51.'		
Reference Reference	Type: CITATION Text: 'Fu, A. Z., Liu, G. G., & Christensen, D. B. (2004). Inappropriate medication use and health outcomes erly. Journal of the American Geriatrics Society, 52(11), 1934-1939.'		
Reference Reference Inappropr	Type: CITATION Text: 'Fu, A. Z., Jiang, J. Z., Reeves, J. H., Fincham, J. E., Liu, G. G., & Perri, M. (2007). Potentially late Medication Use and Healthcare Expenditures in the US Community-Dwelling Elderly. Medical Care, 2–476. Retrieved from http://www.jstor.org/stable/40221449'		
Reference Reference	Type: CITATION Text: 'Gray, C. L., & Gardner, C. (2009). Adverse drug events in the elderly: An ongoing problem. Journal of Care & Specialty Pharmacy, 15(7), 568-571.'		
Reference Reference Potentially	Type: CITATION Text: 'Hagstrom, K., Nailor, M., Lindberg, M., Hobbs, L., & Sobieraj, D. M. (2015). Association Between Inappropriate Medication Use in Elderly Adults and Hospital-Related Outcomes. Journal of the American Society, 63(1), 185-186.'		
Reference Reference medicatio	Reference Type: CITATION Reference Text: 'Institute of Medicine, Committee on Identifying and Preventing Medication Errors. (2007). Preventing medication errors. Aspden, P., Wolcott, J. A., Bootman, J. L., & Cronenwatt, L. R. (Eds.). Washington, DC: National Academy Press.'		
Reference Reference use of me	Reference Type: CITATION Reference Text: 'Kaufman, M. B., Brodin, K. A., & Sarafian, A. (2005, April/May). Effect of prescriber education on the use of medications contraindicated in older adults in a managed Medicare population. Journal of Managed Care & Specialty Pharmacy, 11(3), 211-219.'		
Reference Reference Prescription	Reference Type: CITATION Reference Text: 'Lau, D.T., J.D., Kasper, D.E., Potter, & A. Lyles. (2004). Potentially Inappropriate Medication Prescriptions Among Elderly Nursing Home Residents: Their Scope and Associated Resident and Facility Characteristics. Health Services Research, 39(5), 1257-1276.'		
Reference Reference	Reference Type: CITATION Reference Text: 'MacKinnon, N. J., & Hepler, C. D. (2003). Indicators of preventable drug-related morbidity in older adults: Use within a managed care organization. Journal of Managed Care & Specialty Pharmacy, 9(2), 134-141.'		
Reference Reference Elderly Ac	Type: CITATION Text: 'Merel, S.E., & Paauw, D.S. Paauw. (2017). Common Drug Side Effects and Drug-Drug Interactions in ults in Primary Care. Journal of the American Geriatrics Society, 65(7), 1578-1585.'		
Reference Reference hospitalize	Type: CITATION Text: 'Rothberg, M. B., Perkow, P. S., Liu, F., et al. (2008). Potentially inappropriate medication use in ad elders. Journal of Hospital Medicine, 3(2), 91-102.' Type: CITATION		
Reference Reference dementia:	Type: CITATION Text: 'Takada, M., M. Fujimoto, & K. Hosomi. (2016). Association between benzodiazepine use and data mining of different medical databases. International Journal of Medical Sciences, 13(11), 825-834.' Type: CITATION		
Reference Reference systemati	Type: CITATION Text: 'Tampi, R.R., D.J. Tampi, S. Balachandran, & S. Srinivasan. (2016). Antipsychotic use in dementia: a c review of benefits and risks from meta-analyses. Therapeutic Advances in Chronic Disease, 7(5), 229-245.' Type: CITATION		
Reference Reference communit	Type: CITATION Text: 'Zhan, C., Sangl, J., Bierman, A. S., et al. (2001). Potentially inappropriate medication use in the y-dwelling elderly. JAMA, 286(22), 2823-2868.' Type: CITATION		
Reference Reference dementia:	Type: CITATION Text: 'Zhong, G., Wang, Y., Zhang, Y., & Zhao, Y. (2015). Association between benzodiazepine use and a meta-analysis. PLoS One, 10(5).' Type: CITATION		
Reference Reference	Text: 'Fick, D. M., Semla, T. P., Steinman, M., et al. (2019). American Geriatrics Society 2019 Updated AGS eria for Potentially Inappropriate Medication Use in Older Adults. Journal of the American Geriatrics Society,		
Reference Reference	Type: CITATION Text: 'Riester, M. R., Goyal, P., Steinman, M. A., et al. (2023). Prevalence of Potentially Inappropriate Prescribing in US Nursing Homes, 2013–2017. Journal of General Internal Medicine, 38(6), 1563-1566.		
Reference Reference	Type: CITATION		

Use of High-Risk Medications in Older Adults 13.2.000		
Reference Text: 'The 2023 American Geriatrics Society Beers Criteria Update Expert Panel. (2023). American Geriatrics Society 2023 updated AGS Beers Criteria for potentially inappropriate medication use in older adults. Journal of the American Geriatrics Society, 71(7), 2052-2081.'		
Index Prescription Start Date (IPSD). The start date of the earliest prescription ordered for a high-risk medication during the measurement period.		
A high-risk medication is identified by any one of the following: a. A prescription for medications classified as high risk at any dose and for any duration. b. A prescription for medications classified as high risk at any dose with greater than a 90 day supply. c. A prescription for medications classified as high risk exceeding average daily dose criteria.		
An order is identified by either a prescription order or a prescription refill.		
The intent of the measure is to assess if the patient has been ordered at least two high-risk medication prescriptions from the same drug class on different days.		
The intent of the measure is to assess if the reporting provider ordered the high-risk medication(s). If the patient had a high-risk medication previously prescribed by another provider, they would not be counted towards the numerator unless the reporting provider also ordered a high-risk medication from the same drug class for them.		
Calculate average daily dose for each prescription event. To calculate average daily dose, multiply the quantity of pills prescribed by the dose of each pill and divide by the days supply. For example, a prescription for the 30-days supply of digoxin containing 15 pills, 0.25 mg each pill, has an average daily dose of 0.125 mg. To calculate average daily dose for elixirs and concentrates, multiply the volume prescribed by daily dose and divide by the days supply. Do not round when calculating average daily dose.		
This eCQM is a patient-based measure.		
This version of the eCQM uses QDM version 5.6. Please refer to the eCQI resource center (https://ecqi.healthit.gov/qdm) for more information on the QDM.		
TBD		
Patients 65 years and older at the end of the measurement period who had a visit during the measurement period		
Equals Initial Population		
Exclude patients who are in hospice care for any part of the measurement period.		
Exclude patients receiving palliative care for any part of the measurement period.		
Rate 1: Patients with at least two orders of high-risk medications from the same drug class on different days. a. At least two orders of high-risk medications from the same drug class. b. At least two orders of high-risk medications from the same drug class with summed days supply greater than 90 days. c. At least two orders of high-risk medications from the same drug class each exceeding average daily dose criteria.		
Rate 2: Patients with at least two orders of high-risk medications from the same drug class (i.e., antipsychotics and benzodiazepines) on different days except for appropriate diagnoses. a. Patients with two or more antipsychotic prescriptions ordered on different days, and who did not have a diagnosis of schizophrenia, schizoaffective disorder, or bipolar disorder on or between January 1 of the year prior to the measurement period and the IPSD for antipsychotics.		
b. Patients with two or more benzodiazepine prescriptions ordered on different days, and who did not have a diagnosis of seizure disorders, rapid eye movement sleep behavior disorder, benzodiazepine withdrawal, ethanol withdrawal, or severe generalized anxiety disorder on or between January 1 of the year prior to the measurement period and the IPSD for benzodiazepines.		
Total rate (the sum of the two previous numerators, deduplicated).		
Not Applicable		
None		
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

▲ Population Criteria 1

▲ Initial Population

AgeInYearsAt(date from end of "Measurement Period") >= 65 and exists ("Qualifying Encounters")

▲ Denominator

"Initial Population"

▲ Denominator Exclusions

Hospice."Has Hospice Services" or PalliativeCare."Has Palliative Care in the Measurement Period"

▲ Numerator

exists ("Same High Risk Medications Ordered on Different Days") or ("Two High Risk Medications with Prolonged Duration") or ("High Risk Medications with Average Daily Dose Criteria")

▲ Numerator Exclusions

▲ Denominator Exceptions

None

▲ Stratification

▲ Population Criteria 2

▲ Initial Population

```
AgeInYearsAt(date from
end of "Measurement Period"
) >= 65
and exists ( "Qualifying Encounters" )
```

▲ Denominator

"Initial Population"

▲ Denominator Exclusions

Hospice."Has Hospice Services" or PalliativeCare."Has Palliative Care in the Measurement Period"

▲ Numerator

```
( "More than One Antipsychotic Order" and ( not exists ( ( ["Diagnosis": "Schizophrenia"] union ["Diagnosis": "Bipolar Disorder"] ) AntipsychoticTreatedDiagnoses where AntipsychoticTreatedDiagnoses.prevalencePeriod overlaps Interval[start of "Measurement Period" - 1 year, "Antipsychotic Index Prescription Start Date"] ) ) ) or ( "More than One Benzodiazepine Order" and ( not exists ( ( ["Diagnosis": "Seizure Disorder"] union ["Diagnosis": "REM Sleep Behavior Disorder"] union ["Diagnosis": "Rem Sleep Behavior Disorder"] union ["Diagnosis": "Benzodiazepine Withdrawal"] union ["Diagnosis": "Generalized Anxiety Disorder"] ) BenzodiazepineTreatedDiagnoses where BenzodiazepineTreatedDiagnoses.prevalencePeriod overlaps Interval[start of "Measurement Period" - 1 year, "Benzodiazepine Index Prescription Start Date"] ) ) )
```

▲ Numerator Exclusions

None

▲ Denominator Exceptions

None

▲ Stratification

None

▲ Population Criteria 3

▲ Initial Population

AgeInYearsAt(date from end of "Measurement Period") >= 65 and exists ("Qualifying Encounters")

▲ Denominator

"Initial Population"

▲ Denominator Exclusions

Hospice."Has Hospice Services" or PalliativeCare."Has Palliative Care in the Measurement Period"

▲ Numerator

```
"Numerator 2"
or ( "Numerator 1"
and not "Numerator 2"
```

▲ Numerator Exclusions

None

▲ Denominator Exceptions

None

▲ Stratification

None

Definitions

▲ Antipsychotic Index Prescription Start Date

```
First(["Medication, Order": "Potentially Harmful Antipsychotics for Older Adults"] AntipsychoticMedication where AntipsychoticMedication.authorDatetime during "Measurement Period" return AntipsychoticMedication.authorDatetime sort asc
```

▲ Benzodiazepine Index Prescription Start Date

```
First(["Medication, Order": "Potentially Harmful Benzodiazepines for Older Adults"] BenzodiazepineMedication where BenzodiazepineMedication.authorDatetime during "Measurement Period" return BenzodiazepineMedication.authorDatetime sort asc
)
```

▲ Denominator

"Initial Population"

```
▲ Denominator Exclusions
```

```
Hospice."Has Hospice Services" or PalliativeCare."Has Palliative Care in the Measurement Period"
```

```
▲ High Risk Medications with Average Daily Dose Criteria
```

```
exists ( "More Than One Order"(["Medication, Order": "Digoxin Medications"] DigoxinOrdered where "Average Daily Dose"(DigoxinOrdered) > 0.125 'mg/d'
)
or exists ( "More Than One Order"(["Medication, Order": "Doxepin Medications"] DoxepinOrdered where "Average Daily Dose"(DoxepinOrdered) > 6 'mg/d'
)
```

▲ Hospice.Has Hospice Services

▲ Initial Population

```
AgeInYearsAt(date from
end of "Measurement Period"
) >= 65
and exists ( "Qualifying Encounters" )
```

▲ More than One Antipsychotic Order

exists ("More Than One Order"(["Medication, Order": "Potentially Harmful Antipsychotics for Older Adults"]))

▲ More than One Benzodiazepine Order

exists ("More Than One Order"(["Medication, Order": "Potentially Harmful Benzodiazepines for Older Adults"]))

▲ Numerator 1

```
exists ( "Same High Risk Medications Ordered on Different Days" ) or ( "Two High Risk Medications with Prolonged Duration" ) or ( "High Risk Medications with Average Daily Dose Criteria" )
```

▲ Numerator 2

```
("More than One Antipsychotic Order" and ( not exists ( ( ["Diagnosis": "Schizophrenia"] union ["Diagnosis": "Bipolar Disorder"] ) AntipsychoticTreatedDiagnoses where AntipsychoticTreatedDiagnoses.prevalencePeriod overlaps Interval[start of "Measurement Period" - 1 year, "Antipsychotic Index Prescription Start Date"] ) ) ) or ( "More than One Benzodiazepine Order" and ( not exists ( ( ["Diagnosis": "Seizure Disorder"] union ["Diagnosis": "REM Sleep Behavior Disorder"] union ["Diagnosis": "Rem Sleep Behavior Disorder"] union ["Diagnosis": "Benzodiazepine Withdrawal"] union ["Diagnosis": "Generalized Anxiety Disorder"] ) BenzodiazepineTreatedDiagnoses where BenzodiazepineTreatedDiagnoses.prevalencePeriod overlaps Interval[start of "Measurement Period" - 1 year, "Benzodiazepine Index Prescription Start Date"] ) ) )
```

▲ Numerator 3

```
"Numerator 2"
or ( "Numerator 1"
and not "Numerator 2"
)
```

▲ PalliativeCare.Has Palliative Care in the Measurement Period

```
exists ( ["Assessment, Performed": "Functional Assessment of Chronic Illness Therapy - Palliative Care Questionnaire (FACIT-Pal)"] PalliativeAssessment where Global. "NormalizeInterval" ( PalliativeAssessment.relevantDatetime, PalliativeAssessment.relevantPeriod ) overlaps day of "Measurement Period" ) or exists ( ["Diagnosis": "Palliative Care Diagnosis"] PalliativeDiagnosis where PalliativeDiagnosis.prevalencePeriod overlaps day of "Measurement Period" ) or exists ( ["Encounter, Performed": "Palliative Care Encounter"] PalliativeEncounter where PalliativeEncounter.relevantPeriod overlaps day of "Measurement Period" ) or exists ( ["Intervention, Performed": "Palliative Care Intervention"] PalliativeIntervention.relevantPeriod ) overlaps day of "Measurement Period" ) overlaps day of "Measurement Period" )
```

▲ Qualifying Encounters

```
( ["Encounter, Performed": "Office Visit"]
union ["Encounter, Performed": "Ophthalmological Services"]
union ["Encounter, Performed": "Preventive Care Services Established Office Visit, 18 and Up"]
union ["Encounter, Performed": "Discharge Services Nursing Facility"]
union ["Encounter, Performed": "Nursing Facility Visit"]
union ["Encounter, Performed": "Care Services in Long Term Residential Facility"]
```

```
union ["Encounter, Performed": "Preventive Care Services Initial Office Visit, 18 and Up"]
union ["Encounter, Performed": "Annual Wellness Visit"]
union ["Encounter, Performed": "Home Healthcare Services"]
union ["Encounter, Performed": "Telephone Visits"]
union ["Encounter, Performed": "Virtual Encounter"]
union ["Encounter, Performed": "Office or other outpatient visit for the evaluation and management of an established patient that may not require the presence of a
physician or other qualified health care professional"] ) ValidEncounters
where ValidEncounters relevantPeriod during "Measurement Period"
      where ValidEncounters.relevantPeriod during "Measurement Period"
```

▲ Same High Risk Medications Ordered on Different Days

```
"More Than One Order"(["Medication, Order": "Potentially Harmful Antihistamines for Older Adults"])
union "More Than One Order"(["Medication, Order": "Potentially Harmful Antiparkinsonian Agents for Older Adults"])
union "More Than One Order"(["Medication, Order": "Potentially Harmful Gastrointestinal Antispasmodics for Older Adults"])
union "More Than One Order"(["Medication, Order": "Dipyridamole Medications"])
union "More Than One Order"(["Medication, Order": "Guanfacine Medications"])
union "More Than One Order"(["Medication, Order": "Niefdipine Medications"])
union "More Than One Order"(["Medication, Order": "Potentially Harmful Antidepressants for Older Adults"])
union "More Than One Order"(["Medication, Order": "Potentially Harmful Barbiturates for Older Adults"])
union "More Than One Order"(["Medication, Order": "Potentially Harmful Barbiturates for Older Adults"])
union "More Than One Order"(["Medication, Order": "Meprobamate Medications"])
union "More Than One Order"(["Medication, Order": "Potentially Harmful Estrogens for Older Adults"])
union "More Than One Order"(["Medication, Order": "Potentially Harmful Stifonylureas for Older Adults"])
union "More Than One Order"(["Medication, Order": "Desiccated Thyroid Medications"])
union "More Than One Order"(["Medication, Order": "Potentially Harmful Nonbenzodiazepine Hypnotics for Older Adults"])
union "More Than One Order"(["Medication, Order": "Potentially Harmful Nonbenzodiazepine Hypnotics for Older Adults"])
union "More Than One Order"(["Medication, Order": "Potentially Harmful Pain Medications for Older Adults"])
union "More Than One Order"(["Medication, Order": "Potentially Harmful Pain Medications for Older Adults"])
union "More Than One Order"(["Medication, Order": "Potentially Harmful Pain Medications for Older Adults"])
union "More Than One Order"(["Medication, Order": "Megestrol Medications"])
union "More Than One Order"(["Medication, Order": "Megestrol Medications"])
```

▲ SDE Ethnicity

["Patient Characteristic Ethnicity": "Ethnicity"]

▲ SDE Paver

["Patient Characteristic Payer": "Payer Type"]

▲ SDE Race

["Patient Characteristic Race": "Race"]

■ SDE Sex

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

▲ Two High Risk Medications with Prolonged Duration

```
Sum(("More Than One Order"(["Medication, Order": "Potentially Harmful Antiinfectives for Older Adults"])) AntiInfectives let DaysSupply: Coalesce(AntiInfectives.daysSupplied, AntiInfectives.supply.value /(AntiInfectives.dosage.value * CMD.ToDaily(AntiInfectives.frequency))) *(1 +
Coalesce(AntiInfectives.refills, 0))
return all DaysSupply
) > 90
```

Functions

▲ Average Daily Dose(MedicationOrder "Medication, Order")

```
let MedicationOrder Order
let MedicationStrength: "MedicationStrengthPerUnit"(Order.code),
DaysSupplied: Coalesce(Order.daysSupplied, Order.supply.value /(Order.dosage.value * CMD.ToDaily(Order.frequency)))
return if DaysSupplied is not null
 and ( MedicationStrength.unit = 'mg'
or ( MedicationStrength.unit = 'mg/mL'
and Order.supply.unit = 'mL'
  ) then ( ( Order.supply * MedicationStrength ) / Quantity { value: DaysSupplied, unit: 'd' } )
```

▲ CMD.CodeToDaily(Frequency Code)

```
when Frequency ~ "Once daily (qualifier value)" then 1.0
when Frequency ~ "Three times daily (qualifier value)" then 3.0
when Frequency ~ "Three times daily (qualifier value)" then 3.0
when Frequency ~ "Four times daily (qualifier value)" then 4.0
when Frequency ~ "Every twenty four hours (qualifier value)" then 1.0
when Frequency ~ "Every twenty four hours (qualifier value)" then 2.0
when Frequency ~ "Every thirty six hours (qualifier value)" then 0.67
when Frequency ~ "Every eight hours (qualifier value)" then 3.0
when Frequency ~ "Every four hours (qualifier value)" then 3.0
when Frequency ~ "Every six hours (qualifier value)" then 6.0
when Frequency ~ "Every seventy two hours (qualifier value)" then 0.33
when Frequency ~ "Every seyenty two hours (qualifier value)" then 0.30
when Frequency ~ "Every eight hours (qualifier value)" then 1.0
when Frequency ~ "Every six to eight hours (qualifier value)" then 8.0
when Frequency ~ "Every three to four hours (qualifier value)" then 8.0
when Frequency ~ "Every three to six hours (qualifier value)" then 8.0
when Frequency ~ "Every three to six hours (qualifier value)" then 12.0
when Frequency ~ "One to four times a day (qualifier value)" then 12.0
when Frequency ~ "One to to three times a day (qualifier value)" then 3.0
when Frequency ~ "One to to three times a day (qualifier value)" then 2.0
when Frequency ~ "One to to three times a day (qualifier value)" then 2.0
when Frequency ~ "One to to tour times a day (qualifier value)" then 2.0
when Frequency ~ "One to tour times a day (qualifier value)" then 4.0
when Frequency ~ "One to tour times a day (qualifier value)" then 4.0
```

▲ CMD.QuantityToDaily(Frequency Quantity)

```
ase Frequency.unit
when 'h' then (24.0 / Frequency.value)
when 'min' then (24.0 / Frequency.value) * 60
when 's' then (24.0 / Frequency.value) * 60
when 's' then (24.0 / Frequency.value) / 24
when 'wk' then (24.0 / Frequency.value) / (24 * 7)
when 'mo' then (24.0 / Frequency.value) / (24 * 30) /* assuming 30 days in month */
when 'a' then (24.0 / Frequency.value) / (24 * 365) /* assuming 365 days in year */
when 'hour' then (24.0 / Frequency.value) * 60
when 'minute' then (24.0 / Frequency.value) * 60
when 'second' then (24.0 / Frequency.value) * 60 * 60
when 'day' then (24.0 / Frequency.value) / 24
when 'week' then (24.0 / Frequency.value) / (24 * 7)
when 'month' then (24.0 / Frequency.value) / (24 * 30) /* assuming 30 days in month */
when 'year' then (24.0 / Frequency.value) / (24 * 365) /* assuming 365 days in year */
when 'hours' then (24.0 / Frequency.value) * 60
when 'seconds' then (24.0 / Frequency.value) * 60
case Frequency.unit
```

```
when 'days' then (24.0 / Frequency, value) / 24
when 'weeks' then (24.0 / Frequency.value) / 24 * 7)
when 'months' then (24.0 / Frequency.value) / (24 * 30) /* assuming 30 days in month */
when 'years' then (24.0 / Frequency.value) / (24 * 365) /* assuming 365 days in year */
```

▲ CMD.ToDaily(Frequency Choice<Quantity, Code>)

```
when Frequency is Quantity then QuantityToDaily(Frequency as Quantity) else CodeToDaily(Frequency as Code)
```

■ Global.NormalizeInterval(pointInTime DateTime, period Interval<DateTime>)

```
if pointInTime is not null then Interval[pointInTime, pointInTime]
 else if period is not null then period else null as Interval<DateTime>
```

▲ MedicationStrengthPerUnit(Strength Code)

```
when Strength ~ "digoxin 0.05 MG/ML Oral Solution" then 0.05 'mg/mL' when Strength ~ "digoxin 0.0625 MG Oral Tablet" then 0.0625 'mg' when Strength ~ "1 ML digoxin 0.1 MG/ML Injection" then 0.1 'mg/mL' when Strength ~ "digoxin 0.125 MG Oral Tablet" then 0.125 'mg' when Strength ~ "digoxin 0.125 MG Oral Tablet" then 0.125 'mg' when Strength ~ "digoxin 0.25 MG Oral Tablet" then 0.25 'mg' when Strength ~ "doxepin 3 MG Oral Tablet" then 0.25 'mg/mL' when Strength ~ "doxepin 3 MG Oral Tablet" then 6 'mg' when Strength ~ "doxepin 10 MG Oral Tablet" then 6 'mg' when Strength ~ "doxepin 10 MG Oral Capsule" then 10 'mg/mL' when Strength ~ "doxepin 10 MG/ML Oral Solution" then 10 'mg/mL' when Strength ~ "doxepin 25 MG Oral Capsule" then 25 'mg' when Strength ~ "doxepin 50 MG Oral Capsule" then 75 'mg' when Strength ~ "doxepin 100 MG Oral Capsule" then 10 'mg/mL' when Strength ~ "doxepin 150 MG Oral Capsule" then 10 'mg' when Strength ~ "doxepin 150 MG Oral Capsule" then 10 'mg' when Strength ~ "doxepin 150 MG Oral Capsule" then 10 'mg' when Strength ~ "doxepin 150 MG Oral Capsule" then 10 'mg' when Strength ~ "doxepin 150 MG Oral Capsule" then 150 'mg' else null end
          else null end
```

▲ More Than One Order(Medication List<"Medication, Order">)

```
"Medication" OrderMedication1
 with "Medication" OrderMedication2
such that ( OrderMedication1.authorDatetime during "Measurement Period"
and OrderMedication1.refills >= 1
       or ( date from OrderMedication1.authorDatetime !~ date from OrderMedication2.authorDatetime and OrderMedication1.authorDatetime during "Measurement Period" and OrderMedication2.authorDatetime during "Measurement Period"
       )
or ( date from OrderMedication1.authorDatetime ~ date from OrderMedication2.authorDatetime
and OrderMedication1.authorDatetime during "Measurement Period"
and date from start of OrderMedication1.relevantPeriod | ~ date from start of OrderMedication2.relevantPeriod
and start of OrderMedication1.relevantPeriod during "Measurement Period"
and start of OrderMedication2.relevantPeriod during "Measurement Period"
  return OrderMedication1
```

Terminology

```
cote *1 Mt. digoxin 0.1 MG/Mt. Injection* ("RXNORM Code (204504)")
code *2 Mt. digoxin 0.25 MG/Mt. Injection* ("RXNORM Code (104208)")
code *digoxin 0.05 MG/Mt. On Solution* ("RXNORM Code (104208)")
code *digoxin 0.05 MG/Mt. Dispetion* ("RXNORM Code (245273)")
code *digoxin 0.125 MG Oral Tablet* ("RXNORM Code (245273)")
code *digoxin 0.125 MG Oral Tablet* ("RXNORM Code (197508)")
code *digoxin 0.125 MG Oral Tablet* ("RXNORM Code (197508)")
code *digoxin 0.125 MG Oral Tablet* ("RXNORM Code (197508)")
code *digoxin 0.125 MG Oral Tablet* ("RXNORM Code (100008)")
code *doxepin 10 MG Oral Capsule* ("RXNORM Code (100008)")
code *doxepin 10 MG/Mt. Oral Solution* ("RXNORM Code (100008)")
code *doxepin 10 MG/Mt. Oral Solution* ("RXNORM Code (100008)")
code *doxepin 10 MG/Mt. Oral Capsule* ("RXNORM Code (100008)")
code *doxepin 10 MG/Mt. Oral Capsule* ("RXNORM Code (100008)")
code *doxepin 130 MG Oral Capsule* ("RXNORM Code (100008)")
code *doxepin 150 MG Oral Capsule* ("RXNORM Code (100008)")
code *doxepin 150 MG Oral Capsule* ("RXNORM Code (100008)")
code *doxepin 150 MG Oral Capsule* ("RXNORM Code (100008)")
code *doxepin 150 MG Oral Capsule* ("RXNORM Code (100008)")
code *doxepin 150 MG Oral Capsule* ("RXNORM Code (100009)")
code *doxepin 150 MG Oral Capsule* ("RXNORM Code (100009)")
code *doxepin 150 MG Oral Capsule* ("RXNORM Code (100009)")
code *doxepin 150 MG Oral Capsule* ("RXNORM Code (100009)")
code *doxepin 150 MG Oral Capsule* ("RXNORM Code (100009)")
code *Exery forty eight hours (qualifier value)* ("SNOMEDCT Code (30469008))
code *Exery forty eight hours (qualifier value)* ("SNOMEDCT Code (305413001)")
code *Exery forty eight hours (qualifier value)* ("SNOMEDCT Code (30613000)")
code *Exery two hours (qualifier value)* ("SNOMEDCT Code (30613000)")
code *Exery two hours (qualifier value)* ("SNOMEDCT Code (30613000)")
code *Exery two hours (qualifier value)* ("SNOMEDCT Code (30613000)")
code *Exery two hours (qualifier value)* ("SNOMEDCT Code (30613000)")
code *Exery two hours (qualifier value)* ("SNOMEDCT C
```

```
valueset "Generalized Anxiety Disorder" (2.16.840.1.113883.3.464.1003.195.12.1210)
valueset "Guanfacine Medications" (2.16.840.1.113883.3.464.1003.196.11.1252)
valueset "Home Healthcare Services" (2.16.840.1.113883.3.464.1003.101.12.1016)
valueset "Hospice Care Ambulatory" (2.16.840.1.113883.3.526.3.1584)
valueset "Hospice Diagnosis" (2.16.840.1.113883.3.464.1003.101.12.1016)
valueset "Hospice Diagnosis" (2.16.840.1.113883.3.464.1003.103)
valueset "Mespice Diagnosis" (2.16.840.1.113883.3.464.1003.103)
valueset "Mesperion Medications" (2.16.840.1.113883.3.464.1003.103)
valueset "Megeridine Medications" (2.16.840.1.113883.3.464.1003.103)
valueset "Meperidine Medications" (2.16.840.1.113883.3.464.1003.1057)
valueset "Nifedipine Medications" (2.16.840.1.113883.3.464.1003.1057)
valueset "Nifedipine Medications" (2.16.840.1.113883.3.464.1003.1053)
valueset "Office Visit" (2.16.840.1.113883.3.464.1003.101.12.1012)
valueset "Office Visit" (2.16.840.1.113883.3.464.1003.101.12.1011)
valueset "Office Visit" (2.16.840.1.113883.3.464.1003.101.12.1011)
valueset "Ophthalmological Services" (2.16.840.1.113883.3.464.1003.101.12.1091)
valueset "Palliative Care Diagnosis" (2.16.840.1.113883.3.464.1003.101.12.1090)
valueset "Palliative Care Encounter" (2.16.840.1.113883.3.464.1003.198.12.1135)
valueset "Payer Type" (2.16.840.1.114222.4.11.3591)
valueset "Payer Type" (2.16.840.1.114222.4.11.3591)
valueset "Potentially Harmful Antidepressants for Older Adults" (2.16.840.1.113883.3.464.1003.1054)
valueset "Potentially Harmful Antidepressants for Older Adults" (2.16.840.1.113883.3.464.1003.1049)
valueset "Potentially Harmful Antiparkinsonian Agents for Older Adults" (2.16.840.1.113883.3.464.1003.1055)
valueset "Potentially Harmful Antiparkinsonian Agents for Older Adults" (2.16.840.1.113883.3.464.1003.1055)
valueset "Potentially Harmful Benzodiazepine for Older Adults" (2.16.840.1.113883.3.464.1003.1055)
valueset "Potentially Harmful Benzodiazepine for Older Adults" (2.16.840.1.113883.3.464.1003.1055)
valueset "Potentially Harmful Ben
     valueset "Preventive Care Services Established Office Visit, 18 and Up" (2.16.840.1.113883.3.464.1003.101.12.1 valueset "Preventive Care Services Initial Office Visit, 18 and Up" (2.16.840.1.113883.3.464.1003.101.12.1023) valueset "Race" (2.16.840.1.114222.4.11.836) valueset "REM Sleep Behavior Disorder" (2.16.840.1.113883.3.464.1003.105.12.1207) valueset "Schizophrenia" (2.16.840.1.113883.3.464.1003.105.12.1205) valueset "Seizure Disorder" (2.16.840.1.113883.3.464.1003.105.12.1206) valueset "Telephone Visits" (2.16.840.1.113883.3.464.1003.101.12.1080) valueset "Virtual Encounter" (2.16.840.1.113883.3.464.1003.101.12.1089)
```

Data Criteria (ODM Data Elements)

```
"Assessment, Performed: Functional Assessment of Chronic Illness Therapy - Palliative Care Questionnaire (FACIT-Pal)" using "Functional Assessment of Chronic Illness Therapy - Palliative Care Questionnaire (FACIT-Pal) (LOINC Code 71007-9)"
"Assessment, Performed: Hospice care [Minimum Data Set] (LOINC Code 45755-6)"
"Diagnosis: Alcohol Withdrawal" using "Alcohol Withdrawal (2.16.840.1.113883.3.464.1003.105.12.1209)"
"Diagnosis: Benzodiazepine Withdrawal" using "Benzodiazepine Withdrawal (2.16.840.1.113883.3.464.1003.105.12.1209)"
"Diagnosis: Bipolar Disorder" using "Bipolar Disorder (2.16.840.1.113883.3.464.1003.105.12.1208)"
"Diagnosis: Bipolar Disorder" using "Generalized Anxiety Disorder (2.16.840.1.113883.3.464.1003.105.12.1210)"
"Diagnosis: Palliative Care Diagnosis' using "Hospice Diagnosis (2.16.840.1.113883.3.464.1003.1165)"
"Diagnosis: REM Sleep Behavior Disorder" using "REM Sleep Behavior Disorder (2.16.840.1.113883.3.464.1003.105.12.1207)"
"Diagnosis: Schizophrenia" using "Schizophrenia (2.16.840.1.113883.3.464.1003.105.12.1205)"
"Diagnosis: Seizure Disorder" using "Schizophrenia (2.16.840.1.113883.3.464.1003.105.12.1206)"
"Encounter, Performed: Annual Wellness Visit" using "Annual Wellness Visit (2.16.840.1.113883.3.263.3.1240)"
"Encounter, Performed: Care Services in Long Term Residential Facility" using "Care Services in Long Term Residential Facility (2.16.840.1.113883.3.464.1003.101.12.1013)"
"Encounter, Performed: Discharge Services Nursing Facility (2.16.840.1.113883.3.666.5.307)"
"Encounter, Performed: Encounter Inpatient" using "Encounter Inpatient" using "Encounter Inpatient" using "Encounter Inpatient" using "Encounter Performed: Encounter Inpatient" using "Encounter Inpatient" using "En
      (2.16.840.1.113883.3.464.1003.101.12.1013)"
"Encounter, Performed: Encounter Inpatient" using "Encounter Inpatient" using "Encounter Inpatient" using "Encounter, Performed: Home Healthcare Services" using "Home Healthcare Services (2.16.840.1.113883.3.464.1003.101.12.1016)"
"Encounter, Performed: Home Healthcare Services" using "Hospice Encounter (2.16.840.1.113883.3.464.1003.1003)"
"Encounter, Performed: Nursing Facility Visit" using "Rursing Facility Visit (2.16.840.1.113883.3.464.1003.1012)"
"Encounter, Performed: Office or other outpatient visit for the evaluation and management of an established patient that may not require the presence of a physician or other qualified health care professional" using "Office or other outpatient visit for the evaluation and management of an established patient that may not require the presence of a physician or other qualified health care professional (CPT Code 99211)"
"Encounter, Performed: Office Visit" using "Office Visit (2.16.840.1.113883.3.3464.1003.101.12.1001)"
"Encounter, Performed: Ophthalmological Services" using "Ophthalmological Services (2.16.840.1.113883.3.526.3.1285)"
"Encounter, Performed: Palliative Care Encounter" using "Palliative Care Encounter (2.16.840.1.113883.3.464.1003.101.12.1090)"
"Encounter, Performed: Preventive Care Services Established Office Visit, 18 and Up" using "Preventive Care Services Initial Office Visit, 18 and Up" using "Preventive Care Services Initial Office Visit, 18 and Up" using "Preventive Care Services Initial Office Visit, 18 and Up" using "Preventive Care Services Initial Office Visit, 18 and Up" using "Preventive Care Services Initial Office Visit, 18 and Up" using "Preventive Care Services Initial Office Visit, 18 and Up" using "Preventive Care Services Initial Office Visit, 18 and Up" using "Preventive Care Services Initial Office Visit, 18 and Up" using "Preventive Care Services Initial Office Visit, 18 and Up" using "Preventive Care Services Initial Office Visit, 18 and Up" using "Preventive Care Services Initial Offi
   "Encounter, Performed: Preventive Care Services Established Office Visit, 18 and Up" using "Preventive Care Services Established Office Visit, and Up (2.16.840.1.113883.3.464.1003.101.12.1025)"
"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)"
"Encounter, Performed: Telephone Visits' using "Telephone Visits (2.16.840.1.113883.3.464.1003.101.12.1089)"
"Encounter, Performed: Virtual Encounter" using "Virtual Encounter (2.16.840.1.113883.3.464.1003.101.12.1089)"
"Intervention, Order: Hospice Care Ambulatory" using "Hospice Care Ambulatory (2.16.840.1.113883.3.526.3.1584)"
"Intervention, Performed: Hospice Care Ambulatory" using "Hospice Care Ambulatory (2.16.840.1.113883.3.526.3.1584)"
"Intervention, Performed: Posice Care Intervention" using "Palliative Care Intervention (2.16.840.1.113883.3.464.1003.198.12.1135)"
"Medication, Order: Desiccated Thyroid Medications" using "Digoxin Medications (2.16.840.1.113883.3.464.1003.1065)"
"Medication, Order: Dipyridamole Medications" using "Dipyridamole Medications (2.16.840.1.113883.3.464.1003.1067)"
"Medication, Order: Doxepin Medications" using "Dipyridamole Medications (2.16.840.1.113883.3.464.1003.1067)"
"Medication, Order: ergoloid mesylates, USP 1 MG Oral Tablet" using "ergoloid mesylates, USP 1 MG Oral Tablet (RXNORM Code 318179)"
"Medication, Order: Megestrol Medications" using "Guanfacine Medications (2.16.840.1.113883.3.464.1003.1247)"
"Medication, Order: Megestrol Medications" using "Meprobamate Medications (2.16.840.1.113883.3.464.1003.1247)"
"Medication, Order: Meperidine Medications" using "Meprobamate Medications (2.16.840.1.113883.3.464.1003.1057)"
"Medication, Order: Meperidine Medications" using "Meprobamate Medications (2.16.840.1.113883.3.464.1003.1057)"
"Medication, Order: Meperidine Medications" using "Meprobamate Medications (2.16.840.1.113883.3.464.1003.1057)"
"Medication, Order: Meperidine Medications" using "M
            "Medication, Order: Nifedipine Medications" using "Nifedipine Medications (2.16.840.1.113883.3.464.1003.1053)"
"Medication, Order: Potentially Harmful Antidepressants for Older Adults" using "Potentially Harmful Antidepressants for Older Adults (2.16.840.1.113883.3.464.1003.1054)"
"Medication, Order: Potentially Harmful Antidepressants for Older Adults" using "Potentially Harmful Antidepressants for Older Adults (2.16.840.1.113883.3.464.1003.1054)"

"Medication, Order: Potentially Harmful Antihistamines for Older Adults" using "Potentially Harmful Antihistamines for Older Adults (2.16.840.1.113883.3.464.1003.1043)"

"Medication, Order: Potentially Harmful Antiinfectives for Older Adults" using "Potentially Harmful Antiinfectives for Older Adults (2.16.840.1.113883.3.464.1003.196.12.1481)"

"Medication, Order: Potentially Harmful Antiparkinsonian Agents for Older Adults" using "Potentially Harmful Antiparkinsonian Agents for Older Adults (2.16.840.1.113883.3.464.1003.196.12.1523)"

"Medication, Order: Potentially Harmful Antipsychotics for Older Adults" using "Potentially Harmful Antipsychotics for Older Adults (2.16.840.1.113883.3.464.1003.196.12.1523)"

"Medication, Order: Potentially Harmful Barbiturates for Older Adults" using "Potentially Harmful Berzodiazepines for Older Adults (2.16.840.1.113883.3.464.1003.1955)"

"Medication, Order: Potentially Harmful Benzodiazepines for Older Adults" using "Potentially Harmful Benzodiazepines for Older Adults (2.16.840.1.113883.3.464.1003.1958)"

"Medication, Order: Potentially Harmful Estrogens for Older Adults" using "Potentially Harmful Estrogens for Older Adults (2.16.840.1.113883.3.464.1003.1058)"

"Medication, Order: Potentially Harmful Gastrointestinal Antispasmodics for Older Adults using "Potentially Harmful Marmful Ma
```

- "Medication, Order: Potentially Harmful Sulronylureas for Order Adults" using "Potentially Harmful Sulronylureas for Order Adults" using "Potentially Harmful Sulronylureas for Order Adults" using "Patient Characteristic Ethnicity: Ethnicity" using "Ethnicity (2.16.840.1.114222.4.11.837)"
 "Patient Characteristic Payer: Payer Type" using "Payer Type (2.16.840.1.114222.4.11.3591)"
 "Patient Characteristic Race: Race" using "Race (2.16.840.1.114222.4.11.836)"
 "Patient Characteristic Sex: ONC Administrative Sex" using "ONC Administrative Sex (2.16.840.1.113762.1.4.1)"

▲ SDE Ethnicity

["Patient Characteristic Ethnicity": "Ethnicity"]

▲ SDE Payer

["Patient Characteristic Payer": "Payer Type"]

▲ SDE Race

["Patient Characteristic Race": "Race"]

▲ SDE Sex

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

Risk Adjustment Variables

None

Measure Set None