eCQM Title eCQM Identifier (Measure Authoring Tool)	Functional Status Assessment for Total Hip Replacement	eCQM Version Number	13.2.000
CBE Number Measurement Period Measure Steward	Not Applicable January 1, 20XX through December 31, 20XX Centers for Medicare & Medicaid Services (CMS)	GUID	2f291003-3f2f-48af-bef9-e5aacb95ac3e
Measure Developer Endorsed By	National Committee for Quality Assurance None Percentage of patients 19 years of age and older who received a	an elective primary total hip arthroplasty (TH	A) and completed a
Description	functional status assessment within 90 days prior to the surgery This Physician Performance Measure (Measure) and related dat & Medicaid Services (CMS). CMS contracted (Contract HHSP23 Quality Assurance (NCQA) to develop this electronic measure. N	and in the 300 - 425 days after the surgery a specifications are owned and stewarded b 320095627WC; HHSP23337008T) with the	by the Centers for Medicare National Committee for
	representations, warranties, or endorsement about the quality of measures and NCQA has no liability to anyone who relies on sur- Limited proprietary coding is contained in the Measure specifical all necessary licenses from the owners of the code sets. NCQA	ch measures or specifications. tions for user convenience. Users of propriet	tary code sets should obtain
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Disclaimer	"HL7" is the registered trademark of Health Level Seven Internat The performance Measure is not a clinical guideline and does no potential applications. THE MEASURE AND SPECIFICATIONS Due to technical limitations, registered trademarks are indicated	ot establish a standard of medical care, and ARE PROVIDED "AS IS" WITHOUT WARR.	ANTY OF ANY KIND.
Measure Scoring Measure Type	[TM]. Proportion Process		
Stratification Risk Adjustment Rate Aggregation	None None None		
	THAs are common surgical procedures that address hip pain an THA is an effective procedure for addressing osteoarthritis for m preoperative pain and impairment, do not experience the improv procedure (Beswick et al., 2012; Fortin et al., 1999; Tilbury et al.	any patients, some people, particularly those ements in pain, function, and quality of life e	e with more severe expected from the
Rationale	them in patients age 45 and older (Wolford, Palso, & Bercovitz, 2 the percentage of patients age 55 to 64 (29 percent) who had a percent) who had a THA (Wolford, Palso, & Bercovitz, 2015). Ku for 52 percent of THAs by 2030. This growth in hip surgeries for require more expensive joint arthroplasties that will better withsta	THA in 2010 exceeded the percentage of pa rtz et al. (2009) projected that patients youn patients younger than 65 is significant beca	atients age 75 and older (26 ger than 65 would account use these patients often
	This measure evaluates whether patients complete a patient-rep Measuring functional status for patients undergoing THA permits of surgical intervention on pain, physical function, as well as hea	longitudinal assessment - from the patient's Ith-related quality of life (Rothrock et al., 201	s perspective - of the impact 10).
	While there is no clinical guideline recommending that clinicians patient-reported outcomes of function and pain, several clinical s and a disease-specific questionnaire for these patients. In partic 12) or the Patient-Reported Outcomes Measurement Information the Hip Disability and Osteoarthritis Outcome Score [HOOS], Jr.	specialty societies support the use of a gene ular, they recommend the Veterans RAND 1 n System [PROMIS]-10-Global as the genera as the disease-specific questionnaire (Ame	ral health questionnaire .2-item health survey (VR- al health questionnaire and rican Association of
Clinical Recommendation Statement	Orthopaedic Surgeons, the American Joint Replacement Registr Hip and Knee Surgeons, 2015). Peer-reviewed and grey literature support additional exclusions concurrent procedures, partial procedures, resurfacing procedur	for patients undergoing total hip replacemen es, revision procedures, and removal of imp	ts. Staged procedures, lant devices or prosthesis
	were linked to significant morbidity; complications (such as dislo 2021). In addition, mechanical complications, such as instability with primary and revision THA/Total Knee Arthroplasty (TKA) (GI femoral head) are associated with substantial pain and functional	and dislocation, are also linked to complicat kiatas et al., 2021). Malignant neoplasms (si	ions and are associated uch as osteonecrosis of the
Improvement Notation	Additionally, peer-reviewed and grey literature support various p (Franklin et al., 2021) (Holte et al., 2021). A higher score indicates better quality	ostoperative time frames, including follow-up	o within 10 to 14 months
Reference	Reference Type: CITATION Reference Text: 'American Association of Orthopaedic Surgeons Society, & the American Association of Hip and Knee Surgeons. report. http://www.aahks.org/wp-content/uploads/2018/08/comm	(2015). Patient-reported outcomes summit f	
Reference	Reference Type: CITATION Reference Text: 'Bernhard ME, Barnes CL, DeFeo BM, et al. Tot Advanced Corticosteroid-Induced Osteonecrosis Secondary to T Arthroplasty;36(4):1352-1360. doi:10.1016/j.arth.2020.10.019'		
Reference	Reference Type: CITATION Reference Text: 'Beswick, A. D., Wylde, V., Gooberman-Hill, R., Total Hip or Knee Replacement for Osteoarthritis? A Systematic		
Reference	Journal Open, 2(1), 1-12' Reference Type: CITATION Reference Text: 'Bozic, K. J., Morsehed, S., Silverstein, M. D., et Technologies in Orthopaedics: The Case of Alternative Bearing S		
Reference	American Volume, 88(4), 706-714' Reference Type: CITATION Reference Text: 'Fortin, P. R., Clarke, A. E., Joseph, L., et al. (19		
Reference	Functional Status Predicts Outcomes at Six Months After Surger Reference Type: CITATION Reference Text: 'Franklin PD, Bond CP, Rothrock NE, Cella D. (2	y. American College of Rheumatology, 42(8)), 1722-1728
Reference	Outcome Measures in Arthroplasty Practice. J Bone Joint Surg A Reference Type: CITATION Reference Text: 'Gkiatas, I., Sharma, A. K., Driscoll, D. A., McLa	whorn, A. S., Chalmers, B. P., & Sculco, P. K	K. (2021). Nonconcentric
Reference	and Irregular Dislocations of Total Hip Arthroplasties: Radiograph Medicine, 60(4), 451–459. https://doi.org/10.1016/j.jemermed.20 Reference Type: CITATION Reference Text: 'Holte AJ, Molloy IB, Werth PM, Jevsevar DS. D	20.11.023'	
Reference	Reference Type: CITATION Reference Text: 'Kurtz, S. M., Lau, E., Ong, K., et al. (2009). Fut)-3858. doi: 10.1016/j.arth.2021.08.003. PM	ID: 34481693'
Reference	National projections from 2010 to 2030. Clinical Orthopaedics ar Reference Type: CITATION Reference Text: 'Ludwick, L., Chisari, E., Wang, J., Clarkson, S.,	nd Related Research, 467(10), 2606-2612' Collins, L., & Parvizi, J. (2021). Emergence	e of Antibiotic Resistance
Deference	Across Two-Stage Revision for Periprosthetic Joint Infection. Th https://doi.org/10.1016/j.arth.2021.04.007' Reference Type: CITATION		
Reference	Reference Text: 'Rothrock, N. E., Hays, R. D., Spritzer, K., et al. Associated with Poorer Health-Related Quality of Life as Measu System (PROMIS). Journal of Clinical Epidemiology, 63(11), 119 Reference Type: CITATION	red by the Patient-Reported Outcomes Meas	
Reference	Reference Text: 'Tilbury, C., Haanstra, T. M., Leichtenberg, C. S. Arthroplasty Surgery: There is a Need for Better Preoperative Pa 2145' Reference Type: CITATION		
Reference Definition	Reference Text: 'Wolford, M. L., Palso, K., & Bercovitz, A. (2015) and Over: United States, 2000-2010. NCHS Data Brief No. 186. None		
Guidance	The same FSA instrument must be used for the initial and follow This eCQM is a patient-based measure. This version of the eCQM uses QDM version 5.6. Please refer to		thit gov/gdm) for more
Transmission Format	TBD Patients 19 years of age and older who had a primary THA betw		
Initial Population Denominator	of the year prior to measurement period; and who had an outpat period and the end of the measurement period Equals Initial Population Exclude patients who are in hospice care for any part of the mea		prior to the measurement
	Exclude patients who are in hospice care for any part of the measure Exclude patients with severe cognitive impairment that starts be Exclude patients with one or more specific lower body fractures arthroplasty.	fore or in any part of the measurement perio	
Denominator Exclusions	Exclude patients with a partial hip arthroplasty procedure on the Exclude patients with a revision hip arthroplasty procedure, an ir resurfacing/supplement procedure on the day of the total hip arth	nplanted device/prosthesis removal procedu	ire or a
	Exclude patients with a malignant neoplasm of the pelvis, sacrum malignant neoplasm on the day of the total hip arthroplasty. Exclude patients with a mechanical complication on the day of the second		w or a disseminated
	Exclude patients with a second total hip arthroplasty procedure a Exclude patients who die on the day of the total hip arthroplasty	L year before or after the original total hip an procedure or in the 300 days after.	
Numerator Numerator Exclusions	Patients with patient-reported functional status assessment resu Reported Outcomes Measurement Information System [PROMIS [HOOS], HOOS Jr.) in the 90 days prior to or on the day of the p procedure Not Applicable	6]-10-Global Health, Hip Disability and Oste	oarthritis Outcome Score
Numerator Exclusions Denominator Exceptions Supplemental Data Elements	Not Applicable None For every patient evaluated by this measure also identify payer,	race, ethnicity and sex	
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Population Criteria

Initial Population

"Has Qualifying Encounter"

and exists ("Total Hip Arthroplasty Procedure") and AgeInYearsAt(date from start of "Measurement Period") >= 19

Denominator

"Initial Population"

Denominator Exclusions

- Hospice."Has Hospice Services"
- or "Has Severe Cognitive Impairment" or "Has Total Hip Arthroplasty with 1 or More Lower Body Fractures"
- or "Has Partial Hip Arthroplasty Procedure" or "Has Revision Hip Arthroplasty Procedure or Implanted Device or Prosthesis Removal Procedure"
- or "Has Malignant Neoplasm of Lower and Unspecified Limbs"
- or "Has Mechanical Complication" or "Has More Than One Elective Primary Total Hip Arthroplasty Performed"
- or "Death Within 300 Days of the THA Procedure"

Numerator

("Has THA with Initial and Follow Up HOOS Assessments")

- or ("Has THA with Initial and Follow Up HOOSJr Assessments") or ("Has THA with Initial and Follow Up PROMIS10 Assessments")
- or ("Has THA with Initial and Follow Up VR12 Oblique Assessments") or ("Has THA with Initial and Follow Up VR12 Orthogonal Assessments")

Numerator Exclusions

None

Denominator Exceptions

None

Stratification None

Definitions

August 1 Year Prior to the Measurement Period

DateTime((year from start of "Measurement Period" - 1), 8, 1, 0, 0, 0, 0, 0)

▲ Date HOOS Total Assessment Completed

- from "Assessment, Performed": "Quality of life score [HOOS]"] HOOSLifeQuality, ["Assessment, Performed": "Sport-recreation score [HOOS]"] HOOSSport, ["Assessment, Performed": "Activities of daily living score [HOOS]"] HOOSActivityScore, ["Assessment, Performed": "Symptoms score [HOOS]"] HOOSSymptoms, ["Assessment, Performed": "Pain score [HOOS]"] HOOSPain let HOOSLifeQualityDate: date from start of Global."NormalizeInterval" (HOOSLifeQuality.relevantDatetime, HOOSLifeQuality.relevantPeriod), HOOSSportDate: date from start of Global."NormalizeInterval" (HOOSSport.relevantDatetime, HOOSSport.relevantPeriod), HOOSActivityScoreDate: date from start of Global."NormalizeInterval" (HOOSActivityScore.relevantDatetime, HOOSActivityScore.relevantPeriod), HOOSSymptomsDate: date from start of Global."NormalizeInterval" (HOOSSymptoms.relevantDatetime, HOOSSymptoms.relevantPeriod), HOOSPainDate: date from start of Global."NormalizeInterval" (HOOSPain.relevantDatetime, HOOSPain.relevantPeriod) where HOOSLifeQualityDate same day as HOOSSportDate and HOOSSport.result is not null and HOOSLifeQualityDate same day as HOOSActivityScoreDate
- and HOOSActivityScore.result is not null
- and HOOSLifeQualityDate same day as HOOSSymptomsDate and HOOSSymptoms.result is not null
- and HOOSLifeQualityDate same day as HOOSPainDate
- and HOOSPain.result is not null and HOOSLifeQuality.result is not null
- return Max({ HOOSLifeQualityDate, HOOSSportDate, HOOSActivityScoreDate, HOOSSymptomsDate, HOOSPainDate })

▲ Date HOOSJr Total Assessment Completed

(["Assessment, Performed": "Total interval score [HOOSJR]"] HOOSJr where HOOSJr.result is not null) DocumentedHOOSJr

return date from start of Global."NormalizeInterval" (DocumentedHOOSJr.relevantDatetime, DocumentedHOOSJr.relevantPeriod)

▲ Date PROMIS10 Total Assessment Completed

from ["Assessment, Performed": "PROMIS-10 Global Mental Health (GMH) score T-score"] PROMIS10MentalScore, ["Assessment, Performed": "PROMIS-10 Global Physical Health (GPH) score T-score"] PROMIS10PhysicalScore let PROMIS10MentalScoreDate: date from start of Global."NormalizeInterval" (PROMIS10MentalScore.relevantDatetime, PROMIS10MentalScore.relevantPeriod), PROMIS10PhysicalScoreDate: date from start of Global."NormalizeInterval" (PROMIS10PhysicalScore.relevantDatetime, PROMIS10MentalScore.relevantPeriod),

PROMIS10PhysicalScoreDate: date from start of Global. "NormalizeInterval" (PROMIS10PhysicalScore.relevantDatetime, PROMIS10PhysicalScore.relevantPeriod), where PROMIS10MentalScoreDate same day as PROMIS10PhysicalScoreDate and PROMIS10PhysicalScoreDate same day as PROMIS10PhysicalScoreDate and PROMIS10PhysicalScore.result is not null

and PROMIS10MentalScore.result is not null return Max({ PROMIS10MentalScoreDate, PROMIS10PhysicalScoreDate })

▲ Date VR12 Oblique Total Assessment Completed

"Assessment, Performed": "VR-12 Mental component summary (MCS) score - oblique method T-score"] VR12MentalAssessment, ["Assessment, Performed": "VR-12 Physical component summary (PCS) score - oblique method T-score"] VR12PhysicalAssessment let VR12MentalAssessmentDate: date from start of Global."NormalizeInterval" (VR12MentalAssessment.relevantDatetime, VR12MentalAssessment.relevantPeriod), VR12PhysicalAssessmentDate: date from start of Global."NormalizeInterval" (VR12PhysicalAssessment.relevantDatetime, VR12PhysicalAssessment.relevantPeriod)

where VR12MentalAssessmentDate same day as VR12PhysicalAssessmentDate and VR12MentalAssessment.result is not null and VR12PhysicalAssessment.result is not null return Max({ VR12MentalAssessmentDate, VR12PhysicalAssessmentDate })

▲ Date VR12 Orthogonal Total Assessment Completed

from

["Assessment, Performed": "VR-12 Mental component summary (MCS) score - orthogonal method T-score"] VR12MentalAssessment, "Assessment, Performed": "VR-12 Physical component summary (PCS) score - orthogonal method T-score"] VR12PhysicalAssessment

let VR12MentalAssessmentDate: date from start of Global."NormalizeInterval" (VR12MentalAssessment.relevantDatetime, VR12MentalAssessment.relevantPeriod), VR12PhysicalAssessmentDate: date from start of Global."NormalizeInterval" (VR12PhysicalAssessment.relevantDatetime, VR12PhysicalAssessment.relevantPeriod) where VR12MentalAssessmentDate same day as VR12PhysicalAssessmentDate

and VR12MentalAssessment.result is not null and VR12PhysicalAssessment.result is not null

return Max({ VR12MentalAssessmentDate, VR12PhysicalAssessmentDate })

▲ Death Within 300 Days of the THA Procedure

exists (["Patient Characteristic Expired": "Dead (finding)"] Deceased

with "Total Hip Arthroplasty Procedure" THAProcedure such that date from Deceased.expiredDatetime during day of Interval[date from start of Global."NormalizeInterval" (THAProcedure.relevantDatetime, THAProcedure.relevantPeriod), date from start of Global."NormalizeInterval" (THAProcedure.relevantDatetime, THAProcedure.relevantPeriod) + 300 days]

Denominator

from

"Initial Population"

Denominator Exclusions

Hospice."Has Hospice Services"

- or "Has Severe Cognitive Impairment" or "Has Total Hin Arthronlasty with 1 or More Lower Body Fractures"
- or "Has Partial Hip Arthroplasty Procedure" or "Has Revision Hip Arthroplasty Procedure or Implanted Device or Prosthesis Removal Procedure"
- or "Has Malignant Neoplasm of Lower and Unspecified Limbs" or "Has Mechanical Complication"
- or "Has More Than One Elective Primary Total Hip Arthroplasty Performed" or "Death Within 300 Days of the THA Procedure"

▲ Has Malignant Neoplasm of Lower and Unspecified Limbs

exists (["Diagnosis": "Malignant Neoplasms of Lower and Unspecified Limbs"] MalignantNeoplasm

with "Total Hip Arthroplasty Procedure" THAProcedure such that MalignantNeoplasm.prevalencePeriod overlaps day of Global."NormalizeInterval" (THAProcedure.relevantDatetime, THAProcedure.relevantPeriod))

Has Mechanical Complication

exists (["Diagnosis": "Mechanical Complications Excluding Upper Body"] MechanicalComplications

with "Total Hip Arthroplasty Procedure" THAProcedure such that MechanicalComplications.prevalencePeriod overlaps day of Global."NormalizeInterval" (THAProcedure.relevantDatetime, THAProcedure.relevantPeriod)

Has More Than One Elective Primary Total Hip Arthroplasty Performed

exists ("Total Hip Arthroplasty Procedure" THAProcedure with ["Procedure, Performed": "Primary THA Procedure"] ElectiveTHAProcedure such that THAProcedure.id !~ ElectiveTHAProcedure.id

and start of Global."NormalizeInterval" (ElectiveTHAProcedure.relevantDatetime, ElectiveTHAProcedure.relevantPeriod) during day of Interval[(start of Global."NormalizeInterval" (THAProcedure.relevantDatetime, THAProcedure.relevantPeriod)) - 1 year, (start of Global."NormalizeInterval" (THAProcedure.relevantDatetime, THAProcedure.relevantPeriod)) + 1 year]

▲ Has Partial Hip Arthroplasty Procedure

exists (["Procedure, Performed": "Partial Arthroplasty of Hip"] PartialTHAProcedure with "Total Hip Arthroplasty Procedure" THAProcedure

such that Global."NormalizeInterval" (PartialTHAProcedure.relevantDatetime, PartialTHAProcedure.relevantPeriod) during day of Global."NormalizeInterval" (THAProcedure.relevantDatetime, THAProcedure.relevantPeriod)

▲ Has Qualifying Encounter

)

)

)

)

exists ((["Encounter, Performed": "Outpatient Consultation"]

union ["Encounter, Performed": "Office Visit"] union ["Encounter, Performed": "Postoperative follow-up visit, normally included in the surgical package, to indicate that an evaluation and management service was performed during a postoperative period for a reason(s) related to the original procedure"]

union ["Encounter, Performed": "Telephone Visits"] union ["Encounter, Performed": "Virtual Encounter"]) ValidEncounters

where ValidEncounters.relevantPeriod during day of Interval["August 1 Year Prior to the Measurement Period", end of "Measurement Period"]

Has Revision Hip Arthroplasty Procedure or Implanted Device or Prosthesis Removal Procedure

exists ("Total Hip Arthroplasty Procedure" THAProcedure

with ["Procedure, Performed": "Removal, Revision and Supplement Procedures of the Lower Body and Spine"] RevisionTHAProcedure such that Global."NormalizeInterval" (RevisionTHAProcedure.relevantDatetime, RevisionTHAProcedure.relevantPeriod) during day of Global."NormalizeInterval" (THAProcedure.relevantDatetime, THAProcedure.relevantPeriod)

▲ Has Severe Cognitive Impairment

exists (["Diagnosis": "Severe cognitive impairment (finding)"] Dementia where Dementia.prevalencePeriod overlaps day of "Measurement Period"

Has THA with Initial and Follow Up HOOS Assessments

exists (("Total Hip Arthroplasty Procedure" THAProcedure return Global."NormalizeInterval" (THAProcedure.relevantDatetime, THAProcedure.relevantPeriod)) TotalHip

with "Date HOOS Total Assessment Completed" InitialHipAssessmentHOOS such that TotalHip starts 90 days or less on or after day of InitialHipAssessmentHOOS

with "Date HOOS Total Assessment Completed" FollowUpHipAssessmentHOOS

such that date from FollowUpHipAssessmentHOOS during day of Interval[date from end of TotalHip + 300 days, date from end of TotalHip + 425 days])

▲ Has THA with Initial and Follow Up HOOSJr Assessments

exists (("Total Hip Arthroplasty Procedure" THAProcedure return Global."NormalizeInterval" (THAProcedure.relevantDatetime, THAProcedure.relevantPeriod)) TotalHip

with "Date HOOSJr Total Assessment Completed" InitialHipAssessment

such that TotalHip starts 90 days or less on or after day of InitialHipAssessment with "Date HOOSJr Total Assessment Completed" FollowUpHipAssessment

such that date from FollowUpHipAssessment during day of Interval[date from end of TotalHip + 300 days, date from end of TotalHip + 425 days]

▲ Has THA with Initial and Follow Up PROMIS10 Assessments

exists (("Total Hip Arthroplasty Procedure" THAProcedure return Global."NormalizeInterval" (THAProcedure.relevantDatetime, THAProcedure.relevantPeriod)) TotalHip

with "Date PROMIS10 Total Assessment Completed" InitialHipAssessmentPROMIS10

such that TotalHip starts 90 days or less on or after day of InitialHipAssessmentPROMIS10 with "Date PROMIS10 Total Assessment Completed" FollowUpHipAssessmentPROMIS10

such that date from FollowUpHipAssessmentPROMIS10 during day of Interval[date from end of TotalHip + 300 days, date from end of TotalHip + 425 days]

Has THA with Initial and Follow Up VR12 Oblique Assessments

exists (("Total Hip Arthroplasty Procedure" THAProcedure

- return Global."NormalizeInterval" (THAProcedure.relevantDatetime, THAProcedure.relevantPeriod)) TotalHip
- with "Date VR12 Oblique Total Assessment Completed" InitialHipAssessmentOblique such that TotalHip starts 90 days or less on or after day of InitialHipAssessmentOblique
- with "Date VR12 Oblique Total Assessment Completed" FollowUpHipAssessmentOblique
- such that date from FollowUpHipAssessmentOblique during day of Interval[date from end of TotalHip + 300 days, date from end of TotalHip + 425 days]

Has THA with Initial and Follow Up VR12 Orthogonal Assessments

- exists (("Total Hip Arthroplasty Procedure" THAProcedure return Global."NormalizeInterval" (THAProcedure.relevantDatetime, THAProcedure.relevantPeriod)) TotalHip with "Date VR12 Orthogonal Total Assessment Completed" InitialHipAssessmentOrthogonal
- such that TotalHip starts 90 days or less on or after day of InitialHipAssessmentOrthogonal with "Date VR12 Orthogonal Total Assessment Completed" FollowUpHipAssessmentOrthogonal
- such that date from FollowUpHipAssessmentOrthogonal during day of Interval[date from end of TotalHip + 300 days, date from end of TotalHip + 425 days])

▲ Has Total Hip Arthroplasty with 1 or More Lower Body Fractures

exists ("Total Hip Arthroplasty Procedure" THAProcedure with ["Diagnosis": "Lower Body Fractures Excluding Ankle and Foot"] LowerBodyFracture

such that LowerBodyFracture.prevalencePeriod starts 24 hours or less on or before start of Global."NormalizeInterval" (THAProcedure.relevantDatetime, THAProcedure.relevantPeriod)

Hospice.Has Hospice Services

exists (["Encounter, Performed": "Encounter Inpatient"] InpatientEncounter where (InpatientEncounter.dischargeDisposition ~ "Discharge to home for hospice care (procedure)"

- or InpatientEncounter.dischargeDisposition ~ "Discharge to healthcare facility for hospice care (procedure)"
- and InpatientEncounter.relevantPeriod ends during day of "Measurement Period"
- or exists (["Encounter, Performed": "Hospice Encounter"] HospiceEncounter where HospiceEncounter.relevantPeriod overlaps day of "Measurement Period"
- or exists (["Assessment, Performed": "Hospice care [Minimum Data Set]"] HospiceAssessment where HospiceAssessment.result ~ "Yes (qualifier value)"
- and Global."NormalizeInterval" (HospiceAssessment.relevantDatetime, HospiceAssessment.relevantPeriod) overlaps day of "Measurement Period"
- or exists (["Intervention, Order": "Hospice Care Ambulatory"] HospiceOrder where HospiceOrder.authorDatetime during day of "Measurement Period"

or exists (["Intervention, Performed": "Hospice Care Ambulatory"] HospicePerformed where Global."NormalizeInterval" (HospicePerformed.relevantDatetime, HospicePerformed.relevantPeriod) overlaps day of "Measurement Period"

or exists (["Diagnosis": "Hospice Diagnosis"] HospiceCareDiagnosis

where HospiceCareDiagnosis.prevalencePeriod overlaps day of "Measurement Period")

Initial Population

"Has Qualifying Encounter" and exists ("Total Hip Arthroplasty Procedure")

and AgeInYearsAt(date from start of "Measurement Period") >= 19

November 1 Two Years Prior to the Measurement Period

DateTime((year from start of "Measurement Period" - 2), 11, 1, 0, 0, 0, 0, 0)

Numerator

("Has THA with Initial and Follow Up HOOS Assessments")

- or ("Has THA with Initial and Follow Up HOOSJr Assessments") or ("Has THA with Initial and Follow Up PROMIS10 Assessments")
- or ("Has THA with Initial and Follow Up VR12 Oblique Assessments") or ("Has THA with Initial and Follow Up VR12 Orthogonal Assessments")

▲ October 31 Year Prior to the Measurement Period

DateTime((year from start of "Measurement Period" - 1), 10, 31, 23, 59, 59, 0, 0)

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"]

▲ Total Hip Arthroplasty Procedure

["Procedure, Performed": "Primary THA Procedure"] THAProcedure

where Global."NormalizeInterval" (THAProcedure.relevantDatetime, THAProcedure.relevantPeriod) starts during day of Interval["November 1 Two Years Prior to the Measurement Period" "October 31 Year Prior to the Measurement Period"]

Functions

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>

Terminology

- code "Activities of daily living score [HOOS]" ("LOINC Code (2095-3)")

 code "Dead (Indign)" (SNOMEDCT Code (43099009))

 code "Dead (Indign)" (SNOMEDCT Code (43099009))

 code "Dead (Indign)" (SNOMEDCT Code (43099009))

 code "Dead (Indign)" (SNOMEDCT Code (43055-6))

 code "Dead (Indign)" (SNOMEDCT Code (43765-6))

 code "Pains score [HOOS]" (LOINC Code (72097-9)]

 code "Pains (Indign)" (SNOMEDCT Code (72097-9)]

 code "Soute (Indign)" (SNOMEDCT Code (72097-9)]

 code "Soute (Indign)" (SNOMEDCT Code (72097-9)]

 code "Soute (Indign)" (SNOMEDCT Code (72096-1)]

 code "Soute (Indign)" (SNOMEDCT Code (72096-1)]

 code "Soute (Indign)" (SNOMEDCT Code (72096-1)]

 code "VR-12 Mental component summary (MCS) score oblique method "-score" (LOINC Code (72028-4)]

 code "VR-12 Mental component summary (MCS) score oblique method "-score" (LOINC Code (72026-4)]

 code "VR-12 Mental component summary (MCS) score oblique method "-score" (LOINC Code (7

- valueset "Removal, Revision and Supplement Procedures of the Lower Body and Spine" (2.16.840.1.113883.3.464.1003.1189) 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 (QDM Data Elements)

- "Assessment, Performed: Activities of daily living score [HOOS]" using "Activities of daily living score [HOOS] (LOINC Code 72095-3)" "Assessment, Performed: Pain score [HOOS]" using "Pain score [HOOS] (LOINC Code 72097-9)" "Assessment, Performed: PROMIS-10 Global Mental Health (GMH) score T-score" using "PROMIS-10 Global Mental Health (GMH) score T-score (LOINC Code 71969-0)" "Assessment, Performed: PROMIS-10 Global Mental Health (GPH) score T-score" using "PROMIS-10 Global Physical Health (GPH) score T-score (LOINC Code 71969-0)" "Assessment, Performed: Quality of life score [HOOS]" using "Quality of life score [HOOS] (LOINC Code 72093-8)" "Assessment, Performed: Sport-recreation score [HOOS]" using "Sport-recreation score [HOOS] (LOINC Code 72094-6)" "Assessment, Performed: Symptoms score [HOOS]" using "Sport-recreation score [HOOS] (LOINC Code 72096-1)" "Assessment, Performed: Total interval score [HOOS]" using "Total interval score [HOOS] (LOINC Code 82323-7)" "Assessment, Performed: VR-12 Mental component summary (MCS) score oblique method T-score (LOINC Code 72026-8)" "Assessment, Performed: VR-12 Mental component summary (MCS) score orthogonal method T-score" using "VR-12 Mental component summary (MCS) score orthogonal method T-score (LOINC Code 72028-8)" "Assessment, Performed: VR-12 Mental component summary (MCS) score orthogonal method T-score" using "VR-12 Mental component summary (MCS) score orthogonal method T-score (LOINC Code 72028-8)"
- "Assessment, Performed: VR-12 Physical component summary (PCS) score oblique method T-score" using "VR-12 Physical component summary (PCS) score oblique method T-score (LOINC Code 72025-0)" "Assessment, Performed: VR-12 Physical component summary (PCS) score orthogonal method T-score" using "VR-12 Physical component summary (PCS) score orthogonal method T-score (LOINC Code 72025-0)"
- 72027-6)" "Diagnosis: Hospice Diagnosis" using "Hospice Diagnosis (2.16.840.1.113883.3.464.1003.1165)"

- ¹²⁰²⁽¹⁻⁰⁾
 ¹²⁰³⁽²⁾ "Diagnosis" using "Hospice Diagnosis (2.16.840.1.113883.3.464.1003.1165)"
 ¹²⁰³⁽²⁾ "Diagnosis: Lower Body Fractures Excluding Ankle and Foot" using "Lower Body Fractures Excluding Ankle and Foot (2.16.840.1.113883.3.464.1003.1178)"
 ¹²⁰³⁽²⁾ "Diagnosis: Malignant Neoplasms of Lower and Unspecified Limbs' using "Malignant Neoplasms of Lower and Unspecified Limbs' Using (2.16.840.1.113883.3.464.1003.1180)"
 ¹²⁰³⁽²⁾ "Diagnosis: Severe cognitive impairment (finding)" using "Severe cognitive impairment (finding) (SNOMEDCT Code 702956004)"
 ¹²¹ "Encounter, Performed: Encounter Ingatient" using "Hospice Encounter Ingatient (2.16.840.1.113883.3.464.1003.103.)"
 ¹²¹ "Encounter, Performed: Hospice Encounter (2.16.840.1.113883.3.464.1003.100.)"
 ¹²¹ "Encounter, Performed: Office Visit (2.16.840.1.113883.3.464.1003.101.2.1001)"
 ¹²¹ "Encounter, Performed: Outpatient Consultation (2.16.840.1.113883.3.464.1003.101.12.1008)"
 ¹²¹ "Encounter, Performed: Outpatient Consultation (2.16.840.1.113883.3.464.1003.101.12.1008)"
 ¹²¹ "Encounter, Performed: Visita" using "Totice visit (2.16.840.1.113883.3.464.1003.101.12.1008)"
 ¹²¹ "Encounter, Performed: Visita" using "Totice visit (2.16.840.1.113883.3.464.1003.101.12.1008)"
 ¹²¹ "Encounter, Performed: Visita" using "Totice visit (2.16.840.1.113883.3.464.1003.101.12.1008)"
 ¹²¹ "Encounter, Performed: Visita" using "Totice care Ambulatory (2.16.840.1.113883.3.464.1003.101.12.1080)"
 ¹²¹ "Encounter, Performed: Visita" using "Totice care Ambulatory (2.16.840.1.113883.3.464.1003.101.12.1080)"
 ¹²¹ "Encounter, Performed: Visita Encounter (2.16.840.1.113883.3.464.1003.101.12.1080)"
 ¹²¹ "Encounter, Performed: Visita Encounter (2.16.840.1.113883.3.464.1003.101.12.1080)"
 ¹²¹ "Encounter, Performed: Visita Encounter (2.16.840.1.113883.3.464.1003.101.12.1080)"
 ¹²¹ "Encounter, Performed: Vi

- "Patient Characteristic Race: Race Using Race (2:10:040:1:114222.4:11:030) "Patient Characteristic Sex: ONC Administrative Sex" using "ONC Administrative Sex (2:16:840.1:113762.1:4.1)" "Procedure, Performed: Partial Arthroplasty of Hip" using "Partial Arthroplasty of Hip (2:16:840.1:113883.3:464.1003.1184)" "Procedure, Performed: Primary THA Procedure" using "Primary THA Procedure (2:16:840.1:113883.3:464.1003.198.12:1006)" "Procedure, Performed: Removal, Revision and Supplement Procedures of the Lower Body and Spine" using "Removal, Revision and Supplement Procedures of the Lower Body and Spine" using "Removal, Revision and Supplement Procedures of the Lower Body and Spine" using "Removal, Revision and Supplement Procedures of the Lower Body and Spine" using "Removal, Revision and Supplement Procedures of the Lower Body and Spine" using "Removal, Revision and Supplement Procedures of the Lower Body and Spine" using "Removal, Revision and Supplement Procedures of the Lower Body and Spine" using "Removal, Revision and Supplement Procedures of the Lower Body and Spine" using "Removal, Revision and Supplement Procedures of the Lower Body and Spine" using "Removal, Revision and Supplement Procedures of the Lower Body and Spine" using "Removal, Revision and Supplement Procedures of the Lower Body and Spine" using "Removal, Revision and Supplement Procedures of the Lower Body and Spine" using "Removal, Revision and Supplement Procedures of the Lower Body and Spine" using "Removal, Revision and Supplement Procedures of the Lower Body and Spine" using "Removal, Revision and Supplement Procedures of the Lower Body and Spine" using "Removal, Revision and Supplement Procedures of the Lower Body and Spine" using "Removal, Revision and Supplement Procedures of the Lower Body and Spine" using "Removal, Revision and Supplement Procedures of the Lower Body and Spine" using "Removal, Revision and Supplement Procedures of the Lower Body and Spine" using "Removal, Revision and Spine" using "Removal, Revision and Spine" using "Rem (2.16.840.1.113883.3.464.1003.1189)"

Supplemental Data Elements

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	Not Applicable