**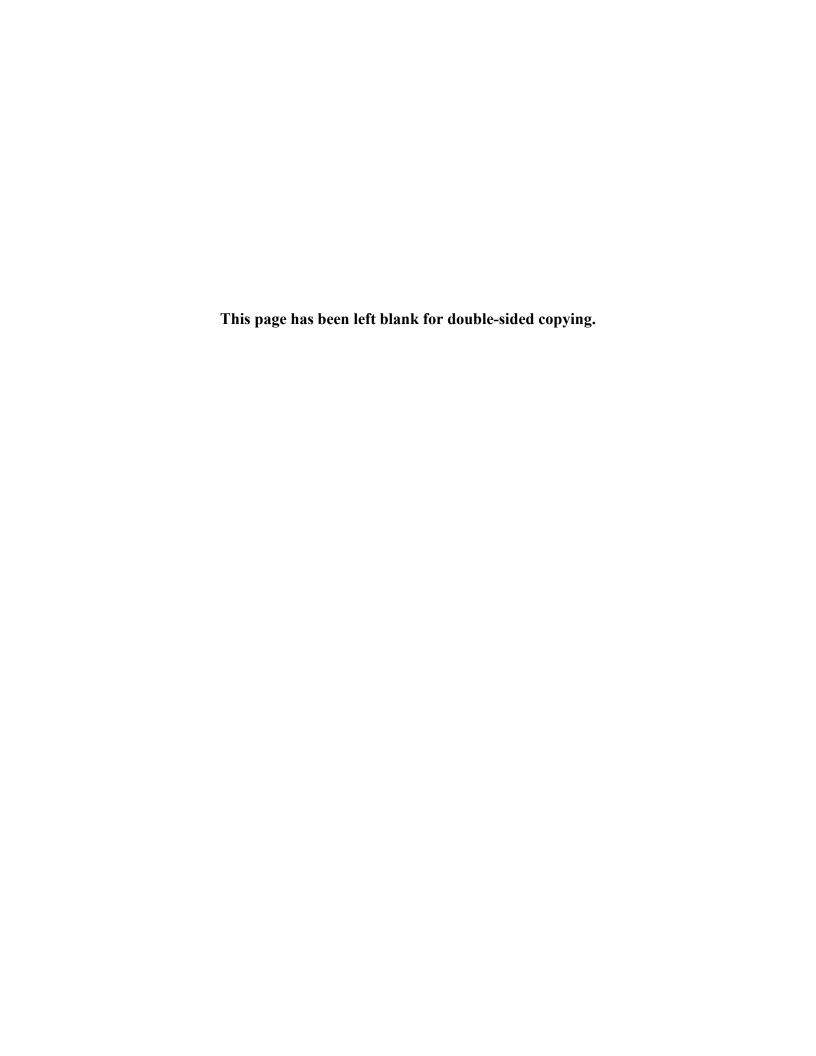Technical Release Notes: 2020 Reporting Period Electronic Clinical Quality Measures (eCQMs) for Eligible Hospitals and Critical Access Hospitals**

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**CMS9v8 - Exclusive Breast Milk Feeding**

| Technical Release Notes | Type of TRN | Measure Section | Source of Change |
|---|---|---|---|
| Updated eCQM version number. | Header | eCQM Version number | Annual Update |
| Added 'e' to NQF number. | Header | NQF Number | Standards Update |
| Updated copyright. | Header | Copyright | Annual Update |
| Updated references to align with American Psychological Association (APA) style. | Header | Reference | Measure Lead |
| Updated references. | Header | Reference | Measure Lead |
| Updated initial population statement to begin with 'Inpatient Hospitalizations for patients' instead of 'Patient with' to align with measure intent since measure is encounter-based not patient-based. | Header | Initial Population | Measure Lead |
| Updated denominator exclusion statement to include transfers to other health care facility. | Header | Denominator Exclusions | Measure Lead |
| Updated denominator exclusion statement to begin with 'Inpatient Hospitalizations for patients' instead of 'Patient with' to align with measure intent since measure is encounter-based not patient-based. | Header | Denominator Exclusions | Measure Lead |
| Updated numerator statement to begin with 'Inpatient Hospitalizations for patients' instead of 'Patient with' to align with measure intent since measure is encounter-based not patient-based. | Header | Numerator | Measure Lead |
| Updated parenthetical citations to align with American Psychological Association (APA) style. | Header | Multiple Sections | Measure Lead |
| Removed the 'Single Live Birth Diagnosis' datatype to remove redundancy and align with Quality Data Model (QDM) v5.4 changes. | Logic | Initial Population | Measure Lead |
| Added discharge disposition 'Other Health Care Facility' to align with the chart-abstracted measure. | Logic | Denominator Exclusions | Measure Lead |
| Updated the names of Clinical Quality Language (CQL) definitions, functions, and/or aliases for clarification and to align with CQL Style Guide. | Logic | Definitions and Functions | Standards Update |
| Updated TJC_Overall Library version number (TJC_Overall-3.6.000). | Logic | Multiple Sections | Measure Lead |
| Updated Clinical Quality Language (CQL) expression to conform with the HL7 Standard: Clinical Quality Language Specification, Release 1 STU 3 (CQL 1.3). | Logic | Multiple Sections | Standards Update |
| Updated definitions and functions in the Measure Authoring Tool (MAT) Global Common Functions Library to align with standards changes, Clinical Quality Language (CQL) Style Guide, and to include two new functions related to calculating hospital stays. | Logic | Multiple Sections | Standards Update |
| Updated version number of the Measure Authoring Tool (MAT) Global Common Functions Library (MATGlobalCommonFunctions-4.0.000). | Logic | Multiple Sections | Standards Update |
| Value set Dietary Intake Other than Breast Milk (2.16.840.1.113883.3.117.1.7.1.27): Added 29 SNOMED CT codes. | Value Set | Terminology | Annual Update |
| Value set Breast Milk (2.16.840.1.113883.3.117.1.7.1.30): Added 2 SNOMED CT codes (226790003, 53875002). | Value Set | Terminology | Annual Update |
| Value set Galactosemia (2.16.840.1.113883.3.117.1.7.1.35): Added 5 SNOMED CT codes (124354006, 237963003, 297237003, 297238008, 8849004). | Value Set | Terminology | Annual Update |
| Value set Estimated Gestational Age at Birth (2.16.840.1.113762.1.4.1045.47): Removed Estimated Gestational Age at Birth. | Value Set | Terminology | Annual Update |
| Created Neonatal Intensive Care Unit (NICU) (2.16.840.1.113762.1.4.1029.203) value set with two HSLOC codes (1039-7 and 1040-5). | Value Set | Terminology | Measure Lead |
| Created Neonatal Intensive Care Unit (NICU) (2.16.840.1.113762.1.4.1029.205) grouping value set that includes HSLOC and SNOMED CT extensional value sets (2.16.840.1.113762.1.4.1029.203 and 2.16.840.1.113883.3.117.1.7.1.75). | Value Set | Terminology | Measure Lead |
| Value set Other Health Care Facility (2.16.840.1.113762.1.4.1029.67): Added Other Health Care Facility. | Value Set | Terminology | Measure Lead |
| Direct reference code for Gestational age--at birth (LOINC Code (76516-4)) now displayed in Human Readable. | Value Set | Terminology | Measure Lead |

**CMS9v8 - Exclusive Breast Milk Feeding**

| Technical Release Notes | Type of TRN | Measure Section | Source of Change |
|---|---|---|---|
| Standardized purpose statement language in value sets across eCQMs. Value set purpose statements are visible in the Value Set Authority Center (VSAC) as well as the downloadable eCQM value set files. | Value Set | Terminology | Measure Lead |

**CMS71v9 - Anticoagulation Therapy for Atrial Fibrillation/Flutter**

| Technical Release Notes | Type of TRN | Measure Section | Source of Change |
|---|---|---|---|
| Updated eCQM version number. | Header | eCQM Version number | Annual Update |
| Updated copyright. | Header | Copyright | Annual Update |
| Updated references to align with American Psychological Association (APA) style. | Header | Reference | Measure Lead |
| Updated references. | Header | Reference | Measure Lead |
| Updated guidance statement to correct grammatical errors. | Header | Guidance | Measure Lead |
| Updated initial population statement to begin with 'Inpatient Hospitalizations for patients' instead of 'Patient with' to align with measure intent since measure is encounter-based not patient-based. | Header | Initial Population | Measure Lead |
| Updated denominator statement to begin with 'Inpatient Hospitalizations for patients' instead of 'Patient with' to align with measure intent since measure is encounter-based not patient-based. | Header | Denominator | Measure Lead |
| Updated denominator exclusion statement to begin with 'Inpatient Hospitalizations for patients' instead of 'Patient with' to align with measure intent since measure is encounter-based not patient-based. | Header | Denominator Exclusions | Measure Lead |
| Updated denominator exclusion statement to align with logic. | Header | Denominator Exclusions | Measure Lead |
| Updated numerator statement to begin with 'Inpatient Hospitalizations for patients' instead of 'Patient with' to align with measure intent since measure is encounter-based not patient-based. | Header | Numerator | Measure Lead |
| Updated denominator exceptions statement to begin with 'Inpatient Hospitalizations for patients' instead of 'Patient with' to align with measure intent since measure is encounter-based not patient-based. | Header | Denominator Exceptions | Measure Lead |
| Updated parenthetical citations to align with American Psychological Association (APA) style. | Header | Multiple Sections | Measure Lead |
| Replaced 'Global.Hospitalization' with new function 'Global.Hospitalization with Observation' to capture assessments performed during observation status prior to inpatient admission. | Logic | Denominator Exclusions | ONC Project Tracking System (JIRA): CQM-2835 |
| Updated the names of Clinical Quality Language (CQL) definitions, functions, and/or aliases for clarification and to align with CQL Style Guide. | Logic | Definitions and Functions | Standards Update |
| Updated TJC_Overall Library version number (TJC_Overall-3.6.000). | Logic | Multiple Sections | Measure Lead |
| Updated Clinical Quality Language (CQL) expression to conform with the HL7 Standard: Clinical Quality Language Specification, Release 1 STU 3 (CQL 1.3). | Logic | Multiple Sections | Standards Update |
| Updated definitions and functions in the Measure Authoring Tool (MAT) Global Common Functions Library to align with standards changes, Clinical Quality Language (CQL) Style Guide, and to include two new functions related to calculating hospital stays. | Logic | Multiple Sections | Standards Update |
| Updated version number of the Measure Authoring Tool (MAT) Global Common Functions Library (MATGlobalCommonFunctions-4.0.000). | Logic | Multiple Sections | Standards Update |
| Value set Anticoagulant Therapy (2.16.840.1.113883.3.117.1.7.1.200): Added 1 RxNorm code (1992427) and deleted 1 RxNorm code (978738). | Value Set | Terminology | Annual Update |
| Value set Atrial Fibrillation/Flutter (2.16.840.1.113883.3.117.1.7.1.202): Added 5 SNOMED CT codes (120041000119109, 15964901000119107, 706923002, 715395008, 720448006). | Value Set | Terminology | Annual Update |
| Value set Atrial Ablation (2.16.840.1.113883.3.117.1.7.1.203): Added 8 SNOMED CT codes (233159005, 233160000, 233161001, 233162008, 233163003, 440619008, 473229000, 707832008). | Value Set | Terminology | Annual Update |
| Value set Observation Services (2.16.840.1.113762.1.4.1111.143): Added Observation Services. | Value Set | Terminology | Annual Update |
| Value set Comfort Measures (1.3.6.1.4.1.33895.1.3.0.45): Changed Exclusion Criteria description from 'None' to 'Palliative Care' for clarity and to align with chart-abstracted measures. | Value Set | Terminology | ONC Project Tracking System (JIRA): CQM-3396 |
| Direct reference code for Birth date (LOINC Code (21112-8)) now displayed in Human Readable. | Value Set | Terminology | Annual Update |
| Standardized purpose statement language in value sets across eCQMs. Value set purpose statements are visible in the Value Set Authority Center (VSAC) as well as the downloadable eCQM value set files. | Value Set | Terminology | Measure Lead |

**CMS72v8 - Antithrombotic Therapy By End of Hospital Day 2**

| Technical Release Notes | Type of TRN | Measure Section | Source of Change |
|---|---|---|---|
| Updated eCQM version number. | Header | eCQM Version number | Annual Update |
| Updated copyright. | Header | Copyright | Annual Update |
| Updated references to align with American Psychological Association (APA) style. | Header | Reference | Measure Lead |
| Updated references. | Header | Reference | Measure Lead |
| Updated guidance statement to correct grammatical errors. | Header | Guidance | Measure Lead |
| Updated initial population statement to begin with 'Inpatient Hospitalizations for patients' instead of 'Patient with' to align with measure intent since measure is encounter-based not patient-based. | Header | Initial Population | Measure Lead |
| Updated denominator statement to begin with 'Inpatient Hospitalizations for patients' instead of 'Patient with' to align with measure intent since measure is encounter-based not patient-based. | Header | Denominator | Measure Lead |
| Updated denominator statement to correct grammatical errors. | Header | Denominator | Measure Lead |
| Updated denominator exclusions statement with missing text and corrected grammatical errors. | Header | Denominator Exclusions | Measure Lead |
| Updated denominator exclusions statement to begin with 'Inpatient Hospitalizations for patients' instead of 'Patient with' to align with measure intent since measure is encounter-based not patient-based. | Header | Denominator Exclusions | Measure Lead |
| Updated denominator exclusions statement with 'Inpatient hospitalization for patients with an INR greater than 3.5' to better align with chart-abstracted measure. | Header | Denominator Exclusions | ONC Project Tracking System (JIRA): CQM-2961 |
| Updated numerator statement to begin with 'Inpatient Hospitalizations for patients' instead of 'Patient with' to align with measure intent since measure is encounter-based not patient-based. | Header | Numerator | Measure Lead |
| Updated denominator exceptions statement to include patients who receive Ticagrelor during the hospitalization, to align with the chart-abstracted measure. | Header | Denominator Exceptions | Measure Lead |
| Updated parenthetical citations to align with American Psychological Association (APA) style. | Header | Multiple Sections | Measure Lead |
| Added a union operator and logic to capture denominator exclusion for patients with an INR greater than 3.5. | Logic | Denominator Exclusions | ONC Project Tracking System (JIRA): CQM-2961 |
| Added definition title 'Encounter With Thrombolytic Therapy Documented As Already As Given' to improve data flow of the measure. | Logic | Denominator Exclusions | ONC Project Tracking System (JIRA): CQM-2981 |
| Added 'Encounter With An INR Greater Than 3.5' to better align with chart-abstracted measure. | Logic | Denominator Exclusions | ONC Project Tracking System (JIRA): CQM-2961 |
| Added logic to capture encounters where t-PA was administered prior to arrival using diagnosis as an attribute of the encounter or as a diagnosis datatype to improve the logic and data flow of the measure. | Logic | Denominator Exclusions | ONC Project Tracking System (JIRA): CQM-3279 |
| Replaced 'Global.Hospitalization' with new function 'Global.Hospitalization with Observation' to capture assessments performed during observation status prior to inpatient admission. | Logic | Denominator Exclusions | ONC Project Tracking System (JIRA): CQM-2835 |
| Replaced '…1 day or less on or after day of start of Global.'Hospitalization'(IschemicStrokeEncounter) with '… 'during TJC.CalendarDayOfDayAfter' start of Global.'Hospitalization with Observation'. RelevantPeriod)' to improve timing functionality and alignment with measure intent. | Logic | Denominator Exclusions | Measure Lead |
| Replaced the Global 'Hospitalization Length of Stay' function with the TJC 'HospitalizationWithObservationLengthOfStay' function to include observation status within the measure calculation and improve alignment with measure intent. | Logic | Denominator Exclusions | Expert Work Group Review |
| Replaced 'Global.Hospitalization' with new function 'Global.Hospitalization with Observation' to capture assessments performed during observation status prior to inpatient admission. | Logic | Numerator | ONC Project Tracking System (JIRA): CQM-2835 |
| Replaced '…1 day or less on or after day of start of Global.'Hospitalization'(IschemicStrokeEncounter) with '… 'during TJC.CalendarDayOfDayAfter' start of Global.'Hospitalization with Observation'. RelevantPeriod)' to improve timing functionality and alignment with measure intent. | Logic | Numerator | Measure Lead |

# CMS72v8 - Antithrombotic Therapy By End of Hospital Day 2

| Technical Release Notes | Type of TRN | Measure Section | Source of Change |
|---|---|---|---|
| Added a union operator and logic to capture denominator exceptions for patients receiving Ticagrelor to improve alignment with the chart-abstracted measure. | Logic | Denominator Exceptions | Measure Lead |
| Replaced 'Global.Hospitalization' with new function 'Global.Hospitalization with Observation' to capture assessments performed during observation status prior to inpatient admission. | Logic | Denominator Exceptions | ONC Project Tracking System (JIRA): CQM-2835 |
| Replaced '…1 day or less on or after day of start of Global.'Hospitalization'(IschemicStrokeEncounter) with '... 'during TJC.CalendarDayOfDayAfter' start of Global.'Hospitalization with Observation'. RelevantPeriod)' to improve timing functionality and alignment with measure intent. | Logic | Denominator Exceptions | Measure Lead |
| Added 'Encounter With Ticagrelor Therapy' to improve alignment with the chart-abstracted measure. | Logic | Definitions | Measure Lead |
| Added TJC.CalendarDayOfDayAfterCalendarDayOfOrDayAfter for consistency across measures. | Logic | Functions | Measure Lead |
| Updated the names of Clinical Quality Language (CQL) definitions, functions, and/or aliases for clarification and to align with CQL Style Guide. | Logic | Definitions and Functions | Standards Update |
| Update to TJC_Overall Library version number (TJC_Overall-3.6.000). | Logic | Multiple Sections | Measure Lead |
| Updated Clinical Quality Language (CQL) expression to conform with the HL7 Standard: Clinical Quality Language Specification, Release 1 STU 3 (CQL 1.3). | Logic | Multiple Sections | Standards Update |
| Updated definitions and functions in the Measure Authoring Tool (MAT) Global Common Functions Library to align with standards changes, Clinical Quality Language (CQL) Style Guide, and to include two new functions related to calculating hospital stays. | Logic | Multiple Sections | Standards Update |
| Updated version number of the Measure Authoring Tool (MAT) Global Common Functions Library (MATGlobalCommonFunctions-4.0.000). | Logic | Multiple Sections | Standards Update |
| Value set Antithrombotic Therapy (2.16.840.1.113883.3.117.1.7.1.201): Added 3 RxNorm codes (1549682, 1730187, 1992427) and deleted 4 RxNorm codes (1536670, 806446, 853499, 978738). | Value Set | Terminology | Annual Update |
| Value set Observation Services (2.16.840.1.113762.1.4.1111.143): Added Observation Services. | Value Set | Terminology | Annual Update |
| Value set INR (2.16.840.1.113883.3.117.1.7.1.213): Added INR. | Value Set | Terminology | ONC Project Tracking System (JIRA): CQM-2961 |
| Value set Intravenous or Intra-arterial Thrombolytic (t-PA) Therapy (2.16.840.1.113762.1.4.1045.21): Removed grouping. | Value Set | Terminology | ONC Project Tracking System (JIRA): CQM-2981 |
| Value set Intravenous or Intra arterial Thrombolytic (tPA) Therapy Prior to Arrival (2.16.840.1.113762.1.4.1110.21): New value set with 1 ICD-10-CM code (Z92.82) to capture administration of intravenous or intra-arterial thrombolytic (t-PA) therapy of within 24 hours prior to admission. | Value Set | Terminology | ONC Project Tracking System (JIRA): CQM-2981 |
| Value set Ticagrelor Therapy (2.16.840.1.113762.1.4.1110.39): New value set with 2 RxNorm codes. | Value Set | Terminology | Measure Lead |
| Value set Comfort Measures (1.3.6.1.4.1.33895.1.3.0.45): Changed Exclusion Criteria description from 'None' to 'Palliative Care' for clarity and to align with chart-abstracted measures. | Value Set | Terminology | ONC Project Tracking System (JIRA): CQM-3396 |
| Direct reference code for Birth date (LOINC Code (21112-8)) now displayed in Human Readable. | Value Set | Terminology | Annual Update |
| Standardized purpose statement language in value sets across eCQMs. Value set purpose statements are visible in the Value Set Authority Center (VSAC) as well as the downloadable eCQM value set files. | Value Set | Terminology | Measure Lead |

**CMS104v8 - Discharged on Antithrombotic Therapy**

| Technical Release Notes | Type of TRN | Measure Section | Source of Change |
|---|---|---|---|
| Updated eCQM version number. | Header | eCQM Version number | Annual Update |
| Updated copyright. | Header | Copyright | Annual Update |
| Updated references to align with American Psychological Association (APA) style. | Header | Reference | Measure Lead |
| Updated references. | Header | Reference | Measure Lead |
| Updated guidance statement to correct grammatical errors. | Header | Guidance | Measure Lead |
| Updated initial population statement to begin with 'Inpatient Hospitalizations for patients' instead of 'Patient with' to align with measure intent since measure is encounter-based not patient-based. | Header | Initial Population | Measure Lead |
| Updated denominator statement to begin with 'Inpatient Hospitalizations for patients' instead of 'Patient with' to align with measure intent since measure is encounter-based not patient-based. | Header | Denominator | Measure Lead |
| Revised denominator statement to correct grammatical errors. | Header | Denominator | Measure Lead |
| Updated denominator exclusions statement to begin with 'Inpatient Hospitalizations for patients' instead of 'Patient with' to align with measure intent since measure is encounter-based not patient-based. | Header | Denominator Exclusions | Measure Lead |
| Updated denominator exclusion statement to align with logic. | Header | Denominator Exclusions | Measure Lead |
| Updated numerator statement to begin with 'Inpatient Hospitalizations for patients' instead of 'Patient with' to align with measure intent since measure is encounter-based not patient-based. | Header | Numerator | Measure Lead |
| Updated denominator exceptions statement to include patients who receive Ticagrelor during the hospitalization, to align with the chart-abstracted measure. | Header | Denominator Exceptions | Measure Lead |
| Updated parenthetical citations to align with American Psychological Association (APA) style. | Header | Multiple Sections | Measure Lead |
| Replaced 'Global.Hospitalization' with new function 'Global.Hospitalization with Observation' to capture assessments performed during observation status prior to inpatient admission. | Logic | Denominator Exclusions | ONC Project Tracking System (JIRA): CQM-2835 |
| Added a union operator and logic to capture denominator exceptions for patients receiving Ticagrelor to improve alignment with the chart-abstracted measure. | Logic | Denominator Exceptions | Measure Lead |
| Added definition title of 'Encounter With No Antithrombotic At Discharge' to pre-existing logic to align with CQL style guide. | Logic | Denominator Exceptions | Measure Lead |
| Replaced 'Global.Hospitalization' with new function 'Global.Hospitalization with Observation' to capture assessments performed during observation status prior to inpatient admission. | Logic | Denominator Exceptions | ONC Project Tracking System (JIRA): CQM-2835 |
| Added 'Encounter With Ticagrelor During Hospitalization' to improve alignment with the chart-abstracted measure. | Logic | Definitions | Measure Lead |
| Updated definition name from TJC.'Ischemic Stroke Encounters with Discharge Status' to TJC.'Ischemic Stroke Encounters with Discharge Disposition' to align with measure intent. | Logic | Definitions | Measure Lead |
| Updated the names of Clinical Quality Language (CQL) definitions, functions, and/or aliases for clarification and to align with CQL Style Guide. | Logic | Definitions and Functions | Standards Update |
| Update to TJC_Overall Library version number (TJC_Overall-3.6.000). | Logic | Multiple Sections | Measure Lead |
| Updated Clinical Quality Language (CQL) expression to conform with the HL7 Standard: Clinical Quality Language Specification, Release 1 STU 3 (CQL 1.3). | Logic | Multiple Sections | Standards Update |
| Updated definitions and functions in the Measure Authoring Tool (MAT) Global Common Functions Library to align with standards changes, Clinical Quality Language (CQL) Style Guide, and to include two new functions related to calculating hospital stays. | Logic | Multiple Sections | Standards Update |
| Updated version number of the Measure Authoring Tool (MAT) Global Common Functions Library (MATGlobalCommonFunctions-4.0.000). | Logic | Multiple Sections | Standards Update |

**CMS104v8 - Discharged on Antithrombotic Therapy**

| Technical Release Notes | Type of TRN | Measure Section | Source of Change |
|---|---|---|---|
| Value set Antithrombotic Therapy (2.16.840.1.113883.3.117.1.7.1.201): Added 3 RxNorm codes (1549682, 1730187, 1992427) and deleted 4 RxNorm codes (1536670, 806446, 853499, 978738). | Value Set | Terminology | Annual Update |
| Value set Observation Services (2.16.840.1.113762.1.4.1111.143): Added Observation Services. | Value Set | Terminology | Annual Update |
| Value set Ticagrelor Therapy (2.16.840.1.113762.1.4.1110.39): New value set with 2 RxNorm codes. | Value Set | Terminology | Measure Lead |
| Value set Comfort Measures (1.3.6.1.4.1.33895.1.3.0.45): Changed Exclusion Criteria description from 'None' to 'Palliative Care' for clarity and to align with chart-abstracted measures. | Value Set | Terminology | ONC Project Tracking System (JIRA): CQM-3396 |
| Direct reference code for Birth date (LOINC Code (21112-8)) now displayed in Human Readable. | Value Set | Terminology | Annual Update |
| Standardized purpose statement language in value sets across eCQMs. Value set purpose statements are visible in the Value Set Authority Center (VSAC) as well as the downloadable eCQM value set files. | Value Set | Terminology | Measure Lead |

**CMS105v8 - Discharged on Statin Medication**

| Technical Release Notes | Type of TRN | Measure Section | Source of Change |
|---|---|---|---|
| Updated eCQM version number. | Header | eCQM Version number | Annual Update |
| Updated copyright. | Header | Copyright | Annual Update |
| Updated references to align with American Psychological Association (APA) style. | Header | Reference | Measure Lead |
| Updated references. | Header | Reference | Measure Lead |
| Updated guidance statement to correct grammatical errors. | Header | Guidance | Measure Lead |
| Updated initial population statement to begin with 'Inpatient Hospitalizations for patients' instead of 'Patient with' to align with measure intent since measure is encounter-based not patient-based. | Header | Initial Population | Measure Lead |
| Updated denominator statement to begin with 'Inpatient Hospitalizations for patients' instead of 'Patient with' to align with measure intent since measure is encounter-based not patient-based. | Header | Denominator | Measure Lead |
| Updated denominator exclusion statement to align with logic. | Header | Denominator Exclusions | Measure Lead |
| Updated denominator exclusions statement to begin with 'Inpatient Hospitalizations for patients' instead of 'Patient with' to align with measure intent since measure is encounter-based not patient-based. | Header | Denominator Exclusions | Measure Lead |
| Updated numerator statement to begin with 'Inpatient Hospitalizations for patients' instead of 'Patient with' to align with measure intent since measure is encounter-based not patient-based. | Header | Numerator | Measure Lead |
| Added to denominator exceptions statin allergy to align with logic. | Header | Denominator Exceptions | Measure Lead |
| Updated denominator exceptions statement to begin with 'Inpatient Hospitalizations for patients' instead of 'Patient with' to align with measure intent since measure is encounter-based not patient-based. | Header | Denominator Exceptions | Measure Lead |
| Updated parenthetical citations to align with American Psychological Association (APA) style. | Header | Multiple Sections | Measure Lead |
| Replaced 'Global.Hospitalization' with new function 'Global.Hospitalization with Observation' to capture assessments performed during observation status prior to inpatient admission. | Logic | Denominator Exclusions | ONC Project Tracking System (JIRA): CQM-2835 |
| Replaced extensional Statin Allergen (OID 2.16.840.1.113883.3.117.1.7.1.423) with Statin Allergen grouping (OID 2.16.840.1.113762.1.4.1110.42) to align with terminology updates that capture medication class allergens. | Logic | Denominator Exceptions | ONC Project Tracking System (JIRA): CQM-1798 |
| Updated definition name from TJC.'Ischemic Stroke Encounters with Discharge Status' to TJC.'Ischemic Stroke Encounters with Discharge Disposition' to align with measure intent. | Logic | Definitions | Measure Lead |
| Updated the names of Clinical Quality Language (CQL) definitions, functions, and/or aliases for clarification and to align with CQL Style Guide. | Logic | Definitions and Functions | Standards Update |
| Updated TJC_Overall Library version number (TJC_Overall-3.6.000). | Logic | Multiple Sections | Measure Lead |
| Updated Clinical Quality Language (CQL) expression to conform with the HL7 Standard: Clinical Quality Language Specification, Release 1 STU 3 (CQL 1.3). | Logic | Multiple Sections | Standards Update |
| Updated definitions and functions in the Measure Authoring Tool (MAT) Global Common Functions Library to align with standards changes, Clinical Quality Language (CQL) Style Guide, and to include two new functions related to calculating hospital stays. | Logic | Multiple Sections | Standards Update |
| Updated version number of the Measure Authoring Tool (MAT) Global Common Functions Library (MATGlobalCommonFunctions-4.0.000). | Logic | Multiple Sections | Standards Update |
| Value set LDL-c (2.16.840.1.113883.3.117.1.7.1.215): Added 8 LOINC codes (90364-1, 91105-7, 91106-5, 91107-3, 91108-1, 91109-9, 91110-7, 91111-5). | Value Set | Terminology | Annual Update |
| Value set Statin Grouper (2.16.840.1.113762.1.4.1110.19): Added 2 RxNorm codes (1790679, 1944264). | Value Set | Terminology | Annual Update |
| Value set Observation Services (2.16.840.1.113762.1.4.1111.143): Added Observation Services. | Value Set | Terminology | Annual Update |

**CMS105v8 - Discharged on Statin Medication**

| Technical Release Notes | Type of TRN | Measure Section | Source of Change |
|---|---|---|---|
| Value set Statin Allergen (2.16.840.1.113762.1.4.1110.42): Added new grouping value set with 7 RxNorm codes (extensional value set 2.16.840.1.113883.3.117.1.7.1.423) and 1 SNOMED CT code (extensional value set 2.16.840.1.113762.1.4.1110.41). | Value Set | Terminology | ONC Project Tracking System (JIRA): CQM-1798 |
| Value set Comfort Measures (1.3.6.1.4.1.33895.1.3.0.45): Changed Exclusion Criteria description from 'None' to 'Palliative Care' for clarity and to align with chart-abstracted measures. | Value Set | Terminology | ONC Project Tracking System (JIRA): CQM-3396 |
| Direct reference code for Birth date (LOINC Code (21112-8)) now displayed in Human Readable. | Value Set | Terminology | Annual Update |
| Standardized purpose statement language in value sets across eCQMs. Value set purpose statements are visible in the Value Set Authority Center (VSAC) as well as the downloadable eCQM value set files. | Value Set | Terminology | Measure Lead |

**CMS108v8 - Venous Thromboembolism Prophylaxis**

| Technical Release Notes | Type of TRN | Measure Section | Source of Change |
|---|---|---|---|
| Updated eCQM version number. | Header | eCQM Version number | Standards Update |
| Updated NQF number to 'Not Applicable.' | Header | NQF Number | Standards Update |
| Updated endorsed by field to 'None.' | Header | Endorsed By | Standards Update |
| Updated copyright. | Header | Copyright | Annual Update |
| Updated references to align with American Psychological Association (APA) style. | Header | Reference | Measure Lead |
| Updated initial population statement to begin with 'Inpatient Hospitalizations for patients' instead of 'Patient with' to align with measure intent since measure is encounter-based not patient-based. | Header | Initial Population | Measure Lead |
| Updated denominator statement to begin with 'Inpatient Hospitalizations for patients' instead of 'Patient with' to align with measure intent since measure is encounter-based not patient-based. | Header | Denominator | Measure Lead |
| Updated denominator exclusions statement to begin with 'Inpatient Hospitalizations for patients' instead of 'Patient with' to align with measure intent since measure is encounter-based not patient-based. | Header | Denominator Exclusions | Measure Lead |
| Updated denominator exclusions statement to align with logic changes to capture patients with comfort measure documented between the day of arrival and the day after hospital admission. | Header | Denominator Exclusions | Measure Lead |
| Updated denominator exclusions statement 'Patients with comfort measures documented anytime between arrival and the day after hospital admission' to indicate comfort measures documented anytime between 'the day of arrival and the day after hospital admission' to align with logic changes. | Header | Denominator Exclusions | Measure Lead |
| Updated numerator statement to begin with 'Inpatient Hospitalizations for patients' instead of 'Patient with' to align with measure intent since measure is encounter-based not patient-based. | Header | Numerator | Measure Lead |
| Revised numerator statement to align with logic changes to capture patients with documentation reasons for not receiving VTE prophylaxis between the day of arrival and the day after hospital admission. | Header | Numerator | Measure Lead |
| Updated parenthetical citations to align with American Psychological Association (APA) style. | Header | Multiple Sections | Measure Lead |
| Removed the diagnosis datatypes for 'Obstetrics', 'Venous Thromboembolism', and 'Obstetrics VTE' to remove redundancy and align with Quality Data Model (QDM) v5.4 changes. | Logic | Initial Population | Measure Lead |
| Replaced function VTEICU.'CalendarDayOfOrDayAfter'() with TJC.'CalendarDayOfOrDayAfter'() to indicate the change in the local library location. | Logic | Denominator Exclusions | Measure Lead |
| Added Interval[start of QualifyingEncounter.relevantPeriod, Global.'ToDate'(start of QualifyingEncounter.relevantPeriod + 2 days)) in Definition 'Encounter With ICU Location Stay 1 Day or More' to align with measure intent to capture patients who were administered VTE prophylaxis on the same date but prior to hospital admission time. | Logic | Denominator Exclusions | Measure Lead |
| Replaced timing interval '1 day or less on or after day of start of Global.'Hospitalization'' with 'during 'FromDayOfStartOfHospitalizationToDayAfterAdmission'' in the 'Encounter With Intervention Comfort Measures From Day of Start of Hospitalization To Day After Admission' definition to capture all timing conditions between the day of arrival and the day after hospital admission. | Logic | Denominator Exclusions | Measure Lead |
| Added a parenthesis around the last union clause of the 'Is In Low Risk for VTE or On Anticoagulant' definition statement to properly group all medications. | Logic | Numerator | ONC Project Tracking System (JIRA): CQM-3259 |
| Replaced function VTEICU.'CalendarDayOfOrDayAfter'() with TJC.'CalendarDayOfOrDayAfter'() to indicate the change in the local library location. | Logic | Numerator | Measure Lead |
| Added Interval[start of QualifyingEncounter.relevantPeriod, Global.'ToDate'(start of QualifyingEncounter.relevantPeriod + 2 days)) in Definition 'Encounter With ICU Location Stay 1 Day or More' to align with measure intent to capture patients who were administered VTE prophylaxis on the same date but prior to hospital admission time. | Logic | Numerator | Measure Lead |

**CMS108v8 - Venous Thromboembolism Prophylaxis**

| Technical Release Notes | Type of TRN | Measure Section | Source of Change |
|---|---|---|---|
| Replaced the 'from/where' return clause with 'with/such that' in the 'VTE Prophylaxis Received on Day of or Day After Admission or Procedure' and 'Medication Oral Factor Xa Inhibitor Administered on Day of or Day After Admission or Procedure' definitions to simplify the expression and align with CQL specifications. | Logic | Definitions | Measure Lead |
| Changed the 'Intervention Comfort Measures on Day of or Day After Procedure' where clause from '1 day or less on or after day of' to 'during TJC.CalendarDayOfOrDayAfter' to align with other logic changes to better capture the measure intent. | Logic | Definitions | Measure Lead |
| Replaced definitions 'Low Risk for VTE or Anticoagulant Administered During ED Visit' and 'Low Risk for VTE or Anticoagulant Administered on Day of or Day After Admission' with 'Low Risk for VTE or Anticoagulant Administered From Day of Start of Hospitalization To Day After Admission' to simplify the logic. | Logic | Definitions | Measure Lead |
| Replaced definitions 'No VTE Prophylaxis Device Due to Medical Reason During ED Visit' and 'No VTE Prophylaxis Device Due to Medical Reason on Day of or Day After Admission' with 'No VTE Prophylaxis Device Due to Medical Reason From Day of Start of Hospitalization To Day After Admission' to simplify the logic. | Logic | Definitions | Measure Lead |
| Replaced definitions 'No VTE Prophylaxis Due to Patient Refusal During ED Visit' and 'No VTE Prophylaxis Due to Patient Refusal on Day of or Day After Admission' with 'No VTE Prophylaxis Due to Patient Refusal From Day of Start of Hospitalization To Day After Admission' to simplify the logic. | Logic | Definitions | Measure Lead |
| Replaced definitions 'No VTE Prophylaxis Medication Due to Medical Reason During ED Visit' and 'No VTE Prophylaxis Medication Due to Medical Reason on Day of or Day After Admission' into 'No VTE Prophylaxis Medication Due to Medical Reason From Day of Start of Hospitalization To Day After Admission to simplify the logic. | Logic | Definitions | Measure Lead |
| Added Interval[start of QualifyingEncounter.relevantPeriod, Global.'ToDate'(start of QualifyingEncounter.relevantPeriod + 2 days)) in Definition 'Encounter With ICU Location Stay 1 Day or More' to align with measure intent to capture patients who were administered VTE prophylaxis on the same date but prior to hospital admission time. | Logic | Definitions | Measure Lead |
| Replaced timing interval '1 day or less on or after day of start of Global.'Hospitalization'' with 'during 'FromDayOfStartOfHospitalizationToDayAfterAdmission'' in the 'Encounter With Intervention Comfort Measures From Day of Start of Hospitalization To Day After Admission' definition to capture all timing conditions between the day of arrival and the day after hospital admission. | Logic | Definitions | Measure Lead |
| Replaced 'Global.Hospitalization' with new function 'Global.Hospitalization with Observation' to capture assessments performed during observation status prior to inpatient admission. | Logic | Functions | ONC Project Tracking System (JIRA): CQM-2835 |
| Replaced function VTEICU.ToDate() and function 'To Date'() with function Global.ToDate() to align with tooling updates and make the logic more efficient. | Logic | Functions | Measure Lead |
| Added function 'CalendarDayOfOrDayAfter'() to the TJC local library and removed it from the VTEICU library to improve harmonization across measures. | Logic | Functions | Measure Lead |
| Created function 'FromDayOfStartOfHospitalizationToDayAfterAdmission' to simplify the logic and better align with measure intent. | Logic | Functions | Measure Lead |
| Updated the names of Clinical Quality Language (CQL) definitions, functions, and/or aliases for clarification and to align with CQL Style Guide. | Logic | Definitions and Functions | Standards Update |
| Updated version number of the VTEICU Library (VTEICU-3.1.000). | Logic | Multiple Sections | Measure Lead |
| Update to TJC_Overall Library version number (TJC_Overall-3.6.000). | Logic | Multiple Sections | Measure Lead |
| Updated Clinical Quality Language (CQL) expression to conform with the HL7 Standard: Clinical Quality Language Specification, Release 1 STU 3 (CQL 1.3). | Logic | Multiple Sections | Standards Update |

**CMS108v8 - Venous Thromboembolism Prophylaxis**

| Technical Release Notes | Type of TRN | Measure Section | Source of Change |
|---|---|---|---|
| Updated definitions and functions in the Measure Authoring Tool (MAT) Global Common Functions Library to align with standards changes, Clinical Quality Language (CQL) Style Guide, and to include two new functions related to calculating hospital stays. | Logic | Multiple Sections | Standards Update |
| Updated version number of the Measure Authoring Tool (MAT) Global Common Functions Library (MATGlobalCommonFunctions-4.0.000). | Logic | Multiple Sections | Standards Update |
| Value set Oral Factor Xa Inhibitor for VTE Prophylaxis or VTE Treatment (2.16.840.1.113883.3.117.1.7.1.134): Added 3 RxNorm codes (1549682, 1992427, 2059015). | Value Set | Terminology | Annual Update |
| Value set Atrial Fibrillation/Flutter (2.16.840.1.113883.3.117.1.7.1.202): Added 5 SNOMED CT codes (120041000119109, 15964901000119107, 706923002, 715395008, 720448006). | Value Set | Terminology | Annual Update |
| Value set Direct Thrombin Inhibitor (2.16.840.1.113883.3.117.1.7.1.205): Deleted 1 RxNorm code (1798389). | Value Set | Terminology | Annual Update |
| Value set Low Molecular Weight Heparin for VTE Prophylaxis (2.16.840.1.113883.3.117.1.7.1.219): Deleted 1 RxNorm code (978738). | Value Set | Terminology | Annual Update |
| Value set General Surgery (2.16.840.1.113883.3.117.1.7.1.255): Added 1 SNOMED CT code (764677008) and deleted 3 SNOMED CT codes (27056009, 274032001, 428784009). | Value Set | Terminology | Annual Update |
| Value set Obstetrics (2.16.840.1.113883.3.117.1.7.1.263): Added 1 SNOMED CT code (769087009) and deleted 7 SNOMED CT codes (111443000, 111444006, 111445007, 199032005, 199033000, 288207006, 38331001). | Value Set | Terminology | Annual Update |
| Value set Mental Health Diagnoses (2.16.840.1.113883.3.464.1003.105.12.1004): Deleted 1 SNOMED CT code (79578000). Added 3 ICD-10-CM codes (F53.0, F53.1, F68.A). | Value Set | Terminology | Annual Update |
| Value set Observation Services (2.16.840.1.113762.1.4.1111.143): Added Observation Services. | Value Set | Terminology | Annual Update |
| Value set Comfort Measures (1.3.6.1.4.1.33895.1.3.0.45): Changed Exclusion Criteria description from 'None' to 'Palliative Care' for clarity and to align with chart-abstracted measures. | Value Set | Terminology | ONC Project Tracking System (JIRA): CQM-3396 |
| Created Intensive Care Unit (2.16.840.1.113762.1.4.1029.204) value set with 25 HSLOC codes. | Value Set | Terminology | Measure Lead |
| Replaced value set Intensive Care Unit (2.16.840.1.113762.1.4.1110.23) with  Intensive Care Unit (2.16.840.1.113762.1.4.1029.206) grouping value set that includes HSLOC and SNOMED CT extensional value sets (2.16.840.1.113762.1.4.1029.204 and 2.16.840.1.113762.1.4.1110.23). | Value Set | Terminology | Measure Lead |
| Direct reference code for Birth date (LOINC Code (21112-8)) now displayed in Human Readable. | Value Set | Terminology | Annual Update |
| Removed code system versions from direct reference codes. Please refer to Appendix A of the Electronic Clinical Quality Measure Logic and Implementation Guidance document for a list of code system versions used in the eCQM specifications for 2020 reporting/performance. | Value Set | Terminology | Standards Update |
| Standardized purpose statement language in value sets across eCQMs. Value set purpose statements are visible in the Value Set Authority Center (VSAC) as well as the downloadable eCQM value set files. | Value Set | Terminology | Measure Lead |

**CMS111v8 - Median Admit Decision Time to ED Departure Time for Admitted Patients**

| Technical Release Notes | Type of TRN | Measure Section | Source of Change |
|---|---|---|---|
| Updated eCQM version number. | Header | eCQM Version number | Annual Update |
| Updated NQF number to 'Not Applicable.' | Header | NQF Number | Standards Update |
| Updated endorsed by field to 'None.' | Header | Endorsed By | Standards Update |
| Updated copyright. | Header | Copyright | Annual Update |
| Replaced 'Encounter' alias with 'EncounterInpatient' to mitigate confusion in define statements. | Logic | Stratification | Measure Lead |
| Updated references to align with American Psychological Association (APA) style. | Header | Reference | Measure Lead |
| Updated references. | Header | Reference | Measure Lead |
| Added definition statement indicating the CMS Certification Number (CCN) is the hospital's identification number that is used for CMS certification to clarify number to assess. | Header | Definition | ONC Project Tracking System (JIRA): CQM-3356 |
| Updated guidance section wording related to the decision to admit to align with logic and intent. | Header | Guidance | ONC Project Tracking System (JIRA): CQM-3253 |
| Updated initial population statement to include 'unless the ED and inpatient facility share the same CNN' to clarify intent. | Header | Initial Population | ONC Project Tracking System (JIRA): CQM-3356 |
| Replaced 'Encounter' alias with 'EncounterInpatient' to mitigate confusion in define statements. | Logic | Initial Population | Measure Lead |
| Replaced 'Encounter' alias with 'EncounterInpatient' to mitigate confusion in define statements. | Logic | Measure Population Exclusions | Measure Lead |
| Updated the names of Clinical Quality Language (CQL) definitions, functions, and/or aliases for clarification and to align with CQL Style Guide. | Logic | Definitions and Functions | Standards Update |
| Updated Clinical Quality Language (CQL) expression to conform with the HL7 Standard: Clinical Quality Language Specification, Release 1 STU 3 (CQL 1.3). | Logic | Multiple Sections | Standards Update |
| Updated definitions and functions in the Measure Authoring Tool (MAT) Global Common Functions Library to align with standards changes, Clinical Quality Language (CQL) Style Guide, and to include two new functions related to calculating hospital stays. | Logic | Multiple Sections | Standards Update |
| Updated version number of the Measure Authoring Tool (MAT) Global Common Functions Library (MATGlobalCommonFunctions-4.0.000). | Logic | Multiple Sections | Standards Update |
| Value set Psychiatric/Mental Health Diagnosis (2.16.840.1.113883.3.117.1.7.1.299): Added 3 SNOMED CT codes (62792007, 765176007, 766822004) and deleted 11 SNOMED CT codes (191530008, 191538001, 191615005, 191632009, 192122001, 192523000, 229025005, 280377008, 280378003, 300960003, 61771000119106). | Value Set | Terminology | Annual Update |
| Standardized purpose statement language in value sets across eCQMs. Value set purpose statements are visible in the Value Set Authority Center (VSAC) as well as the downloadable eCQM value set files. | Value Set | Terminology | Measure Lead |

# CMS190v8 - Intensive Care Unit Venous Thromboembolism Prophylaxis

| Technical Release Notes | Type of TRN | Measure Section | Source of Change |
|---|---|---|---|
| Updated eCQM version number. | Header | eCQM Version number | Annual Update |
| Updated NQF number to 'Not Applicable.' | Header | NQF Number | Standards Update |
| Updated endorsed by field to 'None.' | Header | Endorsed By | Standards Update |
| Updated copyright. | Header | Copyright | Annual Update |
| Updated references to align with American Psychological Association (APA) style. | Header | Reference | Measure Lead |
| Updated initial population statement to begin with 'Inpatient Hospitalizations for patients' instead of 'Patient with' to align with measure intent since measure is encounter-based not patient-based. | Header | Initial Population | Measure Lead |
| Updated denominator statement to begin with 'Inpatient Hospitalizations for patients' instead of 'Patient with' to align with measure intent since measure is encounter-based not patient-based. | Header | Denominator | Measure Lead |
| Updated denominator exclusions statement to begin with 'Inpatient Hospitalizations for patients' instead of 'Patient with' to align with measure intent since measure is encounter-based not patient-based. | Header | Denominator Exclusions | Measure Lead |
| Updated denominator exclusions statement to align with logic changes to capture patients with documentation of comfort measures between the day of arrival and the day after ICU admission or transfer. | Header | Denominator Exclusions | Measure Lead |
| Updated numerator statement to begin with 'Inpatient Hospitalizations for patients' instead of 'Patient with' to align with measure intent since measure is encounter-based not patient-based. | Header | Numerator | Measure Lead |
| Updated numerator statement bullets under 'Inpatient hospitalizations for patients who have documentation of a reason why no VTE prophylaxis was given:' for clarity and to improve alignment with measure intent. | Header | Numerator | Measure Lead |
| Updated denominator exceptions statement to begin with 'Inpatient Hospitalizations for patients' instead of 'Patient with' to align with measure intent since measure is encounter-based not patient-based. | Header | Denominator Exceptions | Measure Lead |
| Updated parenthetical citations to align with American Psychological Association (APA) style. | Header | Multiple Sections | Measure Lead |
| Removed the diagnosis datatypes for 'Obstetrics', 'Venous Thromboembolism', and 'Obstetrics VTE' to remove redundancy and align with QDM v5.4 changes. | Logic | Initial Population | Measure Lead |
| Replaced local function 'Length In Days'() with Global.'LengthInDays'() to align with tooling updates and improve logic efficiencies. | Logic | Initial Population | Measure Lead |
| Replaced function VTEICU.'CalendarDayOfOrDayAfter'() with TJC.'CalendarDayOfOrDayAfter'() to indicate the change in the local library location. | Logic | Denominator Exclusions | Measure Lead |
| Replaced local function 'Length In Days'() with Global.'LengthInDays'() to align with tooling updates and improve logic efficiencies. | Logic | Denominator Exclusions | Measure Lead |
| Replaced function VTEICU.'CalendarDayOfOrDayAfter'() with TJC.'CalendarDayOfOrDayAfter'() to indicate the change in the local library location. | Logic | Numerator | Measure Lead |
| Added a parenthesis around the last union clause of the 'Is In Low Risk for VTE or On Anticoagulant' definition statement to properly group all medications. | Logic | Numerator | ONC Project Tracking System (JIRA): CQM-3259 |
| Replaced '… AnesthesiaProcedure.relevantPeriod ends 1 day after day of start of Global.'First Inpatient Intensive Care Unit'(QualifyingEncounterICU).locationPeriod' with '…AnesthesiaProcedure.relevantPeriod ends 1 day after day of VTEICU.'StartOfFirstICU'(QualifyingEncounterICU)' to align with Functions updates. | Logic | Numerator | Measure Lead |

**CMS190v8 - Intensive Care Unit Venous Thromboembolism Prophylaxis**

| Technical Release Notes | Type of TRN | Measure Section | Source of Change |
|---|---|---|---|
| Replaced long repetitive logic expressions with the VTEICU function 'FromDayOfStartOfHospitalizationToDayAfterFirstICU' in five definitions: 'Encounter With Intervention Comfort Measures From Day Of Start of Hospitalization To Day After First ICU Stay', 'Low Risk for VTE or Anticoagulant Administered From Day of Start of Hospitalization To Day After First ICU Stay', 'No VTE Prophylaxis Device Due to Medical Reason From Day of Start of Hospitalization To Day After First ICU Stay', 'No VTE Prophylaxis Due to Patient Refusal From Day of Start of Hospitalization To Day After First ICU Stay', and 'No VTE Prophylaxis Medication Due to Medical Reason From Day of Start of Hospitalization To Day After First ICU Stay'. | Logic | Numerator | Measure Lead |
| Replaced '… AnesthesiaProcedure.relevantPeriod ends 1 day after day of start of Global.'First Inpatient Intensive Care Unit'(QualifyingEncounterICU).locationPeriod' with '…AnesthesiaProcedure.relevantPeriod ends 1 day after day of VTEICU.'StartOfFirstICU'(QualifyingEncounterICU)' to align with Functions updates. | Logic | Numerator Exclusions | Measure Lead |
| Replaced '… AnesthesiaProcedure.relevantPeriod ends 1 day after day of start of Global.'First Inpatient Intensive Care Unit'(QualifyingEncounterICU).locationPeriod' with '…AnesthesiaProcedure.relevantPeriod ends 1 day after day of VTEICU.'StartOfFirstICU'(QualifyingEncounterICU)' to align with Functions updates. | Logic | Denominator Exceptions | Measure Lead |
| Replaced local function 'Length In Days'() with Global.'LengthInDays'() to align with tooling updates and improve logic efficiencies. | Logic | Denominator Exceptions | Measure Lead |
| Changed six definition names from '…From Start of…' to '…From Day Of Start of…' to align with logic changes. Updated definition names include 'Encounter With Intervention Comfort Measures From Day Of Start of Hospitalization To Day After First ICU Stay', 'Low Risk for VTE or Anticoagulant Administered From Day of Start of Hospitalization To Day After First ICU Stay', 'No VTE Prophylaxis Medication Due to Medical Reason From Day Of Start of Hospitalization To Day After First ICU Stay', 'No VTE Prophylaxis Device Due to Medical Reason From Day Of Start of Hospitalization To Day After First ICU Stay', 'No VTE Prophylaxis Due to Patient Refusal From Day Of Start of Hospitalization To Day After First ICU Stay', and 'Low Risk for VTE or Anticoagulant Administered From Day of Start of Hospitalization To Day After First ICU Stay'. | Logic | Definitions | Measure Lead |
| Replaced 'Global.Hospitalization' with new function 'Global.Hospitalization with Observation' to capture assessments performed during observation status prior to inpatient admission. | Logic | Functions | ONC Project Tracking System (JIRA): CQM-2835 |
| Replaced function VTEICU.ToDate() and function 'To Date'() with function Global.ToDate() to align with tooling updates and make the logic more efficient. | Logic | Functions | Measure Lead |
| Replaced local function 'Day of or Day After' with TJC.'CalendarDayOfOrDayAfter'() to capture all eligible same date events regardless of time stamps. | Logic | Functions | Measure Lead |
| Replaced timing interval '1 day or less on or after day of' with function TJC.'CalendarDayOfOrDayAfter'() in the 'Encounter With Intervention Comfort Measures on Day of or Day After Procedure' definition to capture all eligible same date events regardless of time stamps. | Logic | Functions | Measure Lead |
| Added VTEICU.'First ICULocationPeriod'() and VTEICU.'StartOfFirstICU'() to the VTEICU local library to align with standards or tooling updates. | Logic | Functions | Measure Lead |
| Removed function VTEICU.'First Intensive Care Unit'() from the VTEICU library because this function is now included in the Global.'FirstInpatientIntensiveCareUnit'() library. | Logic | Functions | Measure Lead |
| Removed 'Start of First ICU' and 'First ICU Location Period' as they are no longer used in the measure. | Logic | Functions | Measure Lead |
| Removed local function 'Length In Days' because the 'Length In Days' function is included in the Global library. | Logic | Functions | Measure Lead |
| Added VTEICU library function 'FromDayOfStartOfHospitalizationToDayAfterFirstICU' to simplify the logic by replacing lengthy repeating expressions with a reusable function. | Logic | Functions | Measure Lead |

**CMS190v8 - Intensive Care Unit Venous Thromboembolism Prophylaxis**

| Technical Release Notes | Type of TRN | Measure Section | Source of Change |
|---|---|---|---|
| Replaced Global.'First Inpatient Intensive Care Unit' with VTEICU.FirstInpatientIntensiveCareUnit, to ensure OID 2.16.840.1.113762.1.4.1029.206 is used since the OID is not included in the Global Common Library v4.0. | Logic | Functions | Measure Lead |
| Updated the names of Clinical Quality Language (CQL) definitions, functions, and/or aliases for clarification and to align with CQL Style Guide. | Logic | Definitions and Functions | Standards Update |
| Updated version number of the VTEICU Library (VTEICU-3.1.000). | Logic | Multiple Sections | Measure Lead |
| Update to TJC_Overall Library version number (TJC_Overall-3.6.000). | Logic | Multiple Sections | Measure Lead |
| Updated Clinical Quality Language (CQL) expression to conform with the HL7 Standard: Clinical Quality Language Specification, Release 1 STU 3 (CQL 1.3). | Logic | Multiple Sections | Standards Update |
| Updated definitions and functions in the Measure Authoring Tool (MAT) Global Common Functions Library to align with standards changes, Clinical Quality Language (CQL) Style Guide, and to include two new functions related to calculating hospital stays. | Logic | Multiple Sections | Standards Update |
| Updated version number of the Measure Authoring Tool (MAT) Global Common Functions Library (MATGlobalCommonFunctions-4.0.000). | Logic | Multiple Sections | Standards Update |
| Value set Oral Factor Xa Inhibitor for VTE Prophylaxis or VTE Treatment (2.16.840.1.113883.3.117.1.7.1.134): Added 3 RxNorm codes (1549682, 1992427, 2059015). | Value Set | Terminology | Annual Update |
| Value set Atrial Fibrillation/Flutter (2.16.840.1.113883.3.117.1.7.1.202): Added 5 SNOMED CT codes (120041000119109, 15964901000119107, 706923002, 715395008, 720448006). | Value Set | Terminology | Annual Update |
| Value set Low Molecular Weight Heparin for VTE Prophylaxis (2.16.840.1.113883.3.117.1.7.1.219): Deleted 1 RxNorm code (978738). | Value Set | Terminology | Annual Update |
| Value set General Surgery (2.16.840.1.113883.3.117.1.7.1.255): Added 1 SNOMED CT code (764677008) and deleted 3 SNOMED CT codes (27056009, 274032001, 428784009). | Value Set | Terminology | Annual Update |
| Value set Direct Thrombin Inhibitor (2.16.840.1.113883.3.117.1.7.1.205): Deleted 1 RxNorm code (1798389). | Value Set | Terminology | Annual Update |
| Value set Obstetrics (2.16.840.1.113883.3.117.1.7.1.263): Added 1 SNOMED CT code (769087009) and deleted 7 SNOMED CT codes (111443000, 111444006, 111445007, 199032005, 199033000, 288207006, 38331001). | Value Set | Terminology | Annual Update |
| Value set Observation Services (2.16.840.1.113762.1.4.1111.143): Added Observation Services. | Value Set | Terminology | Annual Update |
| Value set Comfort Measures (1.3.6.1.4.1.33895.1.3.0.45): Changed Exclusion Criteria description from 'None' to 'Palliative Care' for clarity and to align with chart-abstracted measures. | Value Set | Terminology | ONC Project Tracking System (JIRA): CQM-3396 |
| Created Intensive Care Unit (2.16.840.1.113762.1.4.1029.204) value set with 25 HSLOC codes. | Value Set | Terminology | Measure Lead |
| Created Intensive Care Unit (2.16.840.1.113762.1.4.1029.206) grouping value set that includes HSLOC and SNOMED CT extensional value sets (2.16.840.1.113762.1.4.1029.204 and 2.16.840.1.113762.1.4.1110.23). | Value Set | Terminology | Measure Lead |
| Replaced value set Intensive Care Unit (2.16.840.1.113762.1.4.1110.23) with value set Intensive Care Unit (2.16.840.1.113762.1.4.1029.206) to align with terminology updates. | Value Set | Terminology | Measure Lead |
| Direct reference code for Birth date (LOINC Code (21112-8)) now displayed in Human Readable. | Value Set | Terminology | Annual Update |
| Removed code system versions from direct reference codes. Please refer to Appendix A of the Electronic Clinical Quality Measure Logic and Implementation Guidance document for a list of code system versions used in the eCQM specifications for 2020 reporting/performance. | Value Set | Terminology | Standards Update |
| Standardized purpose statement language in value sets across eCQMs. Value set purpose statements are visible in the Value Set Authority Center (VSAC) as well as the downloadable eCQM value set files. | Value Set | Terminology | Measure Lead |