

**Technical Release Notes: 2021 Reporting Period Electronic Clinical Quality Measures (eQMs)  
for Eligible Hospitals and Critical Access Hospitals**

**CMS9v9 - Exclusive Breast Milk Feeding**

<b>Technical Release Notes</b>	<b>Type of TRN</b>	<b>Measure Section</b>	<b>Source of Change</b>
Updated eCQM Version Number.	Header	eCQM Version Number	Standards Update
Updated copyright.	Header	Copyright	Annual Update
Updated link to reference.	Header	Reference	Measure Lead
Added text to identify the Quality Data Model (QDM) version used in the measure specification.	Header	Guidance	Standards Update
Added text to indicate whether the measure is patient-based or episode-based.	Header	Guidance	Standards Update
Revised the Guidance to reflect the rationale for adding birth weight to capture term newborns.	Header	Guidance	Measure Lead
Revised the initial population and denominator exclusions to align with eCQM PC-06, Unexpected Complications in Term Newborns.	Header	Initial Population	Measure Lead
Revised the initial population and denominator exclusions to align with eCQM PC-06, Unexpected Complications in Term Newborns.	Header	Denominator Exclusions	Measure Lead
Moved the criteria of length of stay (LOS), diagnosis of galactosemia and subject to parenteral nutrition from initial population to denominator exclusions.	Logic	Initial Population	Measure Lead
Added birth weight criteria to the initial population as an alternative to estimated gestational age at birth.	Logic	Initial Population	Measure Lead
Moved the criteria of length of stay (LOS), diagnosis of galactosemia and subject to parenteral nutrition from initial population to denominator exclusions.	Logic	Denominator Exclusions	Measure Lead
Added birth weight criteria to the initial population as an alternative to estimated gestational age at birth.	Logic	Denominator Exclusions	Measure Lead
Moved the criteria of length of stay (LOS), diagnosis of galactosemia and subject to parenteral nutrition from initial population to denominator exclusions.	Logic	Numerator	Measure Lead
Added birth weight criteria to the initial population as an alternative to estimated gestational age at birth.	Logic	Numerator	Measure Lead
Moved the criteria of length of stay (LOS), diagnosis of galactosemia and subject to parenteral nutrition from initial population to denominator exclusion.	Logic	Definitions	Measure Lead
Added birth weight criteria to the initial population as an alternative to estimated gestational age at birth.	Logic	Definitions	Measure Lead
Replaced 'weeks' with the UCUM code 'wk' to be consistent with HL7 standards.	Logic	Definitions	Measure Lead
QDM v5.5 standards update: Modified 'Encounter, Performed' diagnosis attribute to reference diagnosis codes in value sets specified in the logic.	Logic	Multiple Sections	Standards Update
QDM v5.5 standards update: Added 'relevantDatetime' attribute to QDM datatypes. 'RelevantDatetime' indicates when the action occurred whereas 'authorDatetime' indicates when the action was recorded.	Logic	Multiple Sections	Standards Update
Updated Clinical Quality Language (CQL) expression to conform with the HL7 Standard: Clinical Quality Language Specification, Release 1 STU 4 (CQL 1.4).	Logic	Multiple Sections	Standards Update
Updated version number of the Measure Authoring Tool (MAT) Global Common Functions Library (MATGlobalCommonFunctions-5.0.000).	Logic	Multiple Sections	Standards Update
Updated definitions and functions in the MAT Global Common Functions Library to align with standards changes, CQL Style Guide, and to include one new function related to calculating length of hospital stays with observation stays.	Logic	Multiple Sections	Standards Update
Value set Parenteral Nutrition (2.16.840.1.113883.3.117.1.7.1.38): Deleted 1 SNOMED CT code (304055007) based on terminology update.	Value Set	Terminology	Annual Update
Value set Birth Weight (2.16.840.1.113762.1.4.1029.194): Added Birth Weight based on change in measure requirements, using birth weight to capture term newborns whose the estimated gestational age at birth information is missing.	Value Set	Terminology	Annual Update

**CMS71v10 - Anticoagulation Therapy for Atrial Fibrillation/Flutter**

<b>Technical Release Notes</b>	<b>Type of TRN</b>	<b>Measure Section</b>	<b>Source of Change</b>
Updated eCQM Version Number.	Header	eCQM Version Number	Standards Update
Updated copyright.	Header	Copyright	Annual Update
Added text to identify the Quality Data Model (QDM) version used in the measure specification.	Header	Guidance	Standards Update
Added text to indicate whether the measure is patient-based or episode-based.	Header	Guidance	Standards Update
Add 'Encounter with' to TJC.Comfort Measures during Hospitalization definition name for clarification.	Logic	Denominator Exclusions	Measure Lead
Clinical Quality Language (CQL) Library version update: Updated version number of the TJC_Overall Library (TJC_Overall-4.4.000).	Logic	Multiple Sections	Measure Lead
Modified 'Encounter, Performed' diagnosis attribute to reference diagnosis codes in value sets specified in the logic, for consistency with QDM v5.5 standards updates.	Logic	Multiple Sections	Standards Update
QDM v5.5 standards update: Added 'rank' attribute to 'Encounter, Performed' datatype. Rank with a value of 1 indicates the principal diagnosis.	Logic	Multiple Sections	Standards Update
QDM v5.5 standards update: Removed the 'ordinality' and 'principal diagnosis' attributes, added 'rank' as an attribute.	Logic	Multiple Sections	Standards Update
Updated CQL expression to conform with the HL7 Standard: Clinical Quality Language Specification, Release 1 STU 4 (CQL 1.4).	Logic	Multiple Sections	Standards Update
Updated the names of CQL definitions, functions, and/or aliases for clarification and to align with the CQL Style Guide.	Logic	Multiple Sections	Standards Update
Updated version number of the Measure Authoring Tool (MAT) Global Common Functions Library (MATGlobalCommonFunctions-5.0.000).	Logic	Multiple Sections	Standards Update
Updated definitions and functions in the MAT Global Common Functions Library to align with standards changes, CQL Style Guide, and to include one new function related to calculating length of hospital stays with observation stays.	Logic	Multiple Sections	Standards Update
Value set Anticoagulant Therapy (2.16.840.1.113883.3.117.1.7.1.200): Added 1 RxNorm code (2059015) based on terminology update.	Value Set	Terminology	Annual Update
Value set Ischemic Stroke (2.16.840.1.113883.3.117.1.7.1.247): Added 1 SNOMED CT code (422504002) based on terminology update.	Value Set	Terminology	Annual Update
Value set Observation Services (2.16.840.1.113762.1.4.1111.143): Deleted 2 SNOMED CT codes (448851000124103, 76464004) based on clinical/coding expert feedback.	Value Set	Terminology	Annual Update
Value set Atrial Fibrillation/Flutter Value Set (2.16.840.1.113883.3.117.1.7.1.202): Removed 2 ICD-10-CM codes (I48.1, I48.2) and added 4 ICD-10-CM codes (I48.11, I48.19, I48.20, I48.21) based on terminology update.	Value Set	Terminology	Annual Update

**CMS72v9 - Antithrombotic Therapy By End of Hospital Day 2**

<b>Technical Release Notes</b>	<b>Type of TRN</b>	<b>Measure Section</b>	<b>Source of Change</b>
Updated eCQM Version Number.	Header	eCQM Version Number	Standards Update
Updated copyright.	Header	Copyright	Annual Update
Added the following text: 'Enoxaparin/Lovenox 40 mg once a day is not a therapeutic dose for antithrombotic therapy'.	Header	Guidance	<a href="#">ONC Project Tracking System (Jira): CQM-3548</a>
Added text to identify the Quality Data Model (QDM) version used in the measure specification.	Header	Guidance	Standards Update
Added text to indicate whether the measure is patient-based or episode-based.	Header	Guidance	Standards Update
Removed from denominator exclusions 'Inpatient hospitalization for patients with an INR greater than 3.5' to better harmonize with the chart abstracted version of measure and for better alignment with measure intent.	Header	Denominator Exclusions	Measure Lead
Added to denominator exceptions 'Inpatient hospitalization for patients with an INR greater than 3.5' to better harmonize with the chart abstracted version of measure and for better alignment with measure intent.	Header	Denominator Exceptions	Measure Lead
Updated denominator exceptions statement to 'Inpatient hospitalization for patients who receive Ticagrelor or Prasugrel as an antithrombotic therapy the day of or day after hospital arrival'.	Header	Denominator Exceptions	Expert Work Group Review
Removed from denominator exclusions 'Inpatient hospitalization for patients with an INR greater than 3.5' to better harmonize with the chart abstracted version of measure and for better alignment with measure intent.	Logic	Denominator Exclusions	Measure Lead
Consolidated 'Encounter with Thrombolytic Therapy Medication or Procedures', 'Encounter with Thrombolytic Medication', 'Encounter With Thrombolytic Therapy Prior to Arrival', and 'Encounter With Thrombolytic Therapy Documented As Already Given' into one definition called: 'Encounter with Thrombolytic Therapy Given Prior To Arrival Or During Hospitalization'.	Logic	Denominator Exclusions	Measure Lead
Added 'Encounter with' to TJC.Comfort Measures during Hospitalization definition name for clarification.	Logic	Denominator Exclusions	Measure Lead
Added to denominator exceptions 'Inpatient hospitalization for patients with an INR greater than 3.5' to better harmonize with the chart abstracted version of measure and for better alignment with measure intent.	Logic	Denominator Exceptions	Measure Lead
Replaced 'Ticagrelor Therapy' with 'Pharmacological Contraindications for Antithrombotic Therapy' to improve alignment with chart abstracted measure.	Logic	Denominator Exceptions	Expert Work Group Review
QDM v5.5 standards update: Added 'rank' attribute to 'Encounter, Performed' datatype. Rank with a value of 1 indicates the principal diagnosis.	Logic	Multiple Sections	Standards Update
QDM v5.5 standards update: Removed the 'ordinality' and 'principal diagnosis' attributes, added 'rank' as an attribute.	Logic	Multiple Sections	Standards Update
QDM v5.5 standards update: Modified 'Encounter, Performed' diagnosis attribute to reference diagnosis codes in value sets specified in the logic.	Logic	Multiple Sections	Standards Update
Clinical Quality Language (CQL) Library version update: Updated version number of the TJC_Overall Library (TJC_Overall-4.4.000).	Logic	Multiple Sections	Measure Lead
Updated CQL expression to conform with the HL7 Standard: Clinical Quality Language Specification, Release 1 STU 4 (CQL 1.4).	Logic	Multiple Sections	Standards Update
Updated the names of CQL definitions, functions, and/or aliases for clarification and to align with the CQL Style Guide.	Logic	Multiple Sections	Standards Update

**CMS72v9 - Antithrombotic Therapy By End of Hospital Day 2**

<b>Technical Release Notes</b>	<b>Type of TRN</b>	<b>Measure Section</b>	<b>Source of Change</b>
Updated version number of the Measure Authoring Tool (MAT) Global Common Functions Library (MATGlobalCommonFunctions-5.0.000).	Logic	Multiple Sections	Standards Update
Updated definitions and functions in the MAT Global Common Functions Library to align with standards changes, CQL Style Guide, and to include one new function related to calculating length of hospital stays with observation stays.	Logic	Multiple Sections	Standards Update
Replaced the 'TJC.HospitalizationWithObservationLengthofStay' function with the 'Global.HospitalizationWithObservationLengthofStay' function for harmonization with other measures.	Logic	Multiple Sections	Measure Lead
Value set Antithrombotic Therapy (2.16.840.1.113883.3.117.1.7.1.201): Added 1 RxNorm code (2059015) and deleted 10 RxNorm codes (103863, 1291868, 198466, 199274, 243685, 605252, 797050, 863184, 863186, 896884) based on terminology update.	Value Set	Terminology	Annual Update
Value set Ischemic Stroke (2.16.840.1.113883.3.117.1.7.1.247): Added 1 SNOMED CT code (422504002) based on terminology update.	Value Set	Terminology	Annual Update
Value set Observation Services (2.16.840.1.113762.1.4.1111.143): Deleted 2 SNOMED CT codes (448851000124103, 76464004) based on clinical/coding expert feedback.	Value Set	Terminology	Annual Update
Value set Pharmacological Contraindications for Antithrombotic Therapy (2.16.840.1.113762.1.4.1110.52): Added Pharmacological Contraindications for Antithrombotic Therapy grouping value set that includes value set Ticagrelor Therapy (2.16.840.1.113762.1.4.1110.39) and value set Prasugrel (2.16.840.1.113762.1.4.1110.51) based on the inclusion of Prasugrel; due to pharmacological contraindication when used with certain antithrombotic medications.	Value Set	Terminology	Expert Work Group Review
Value set Ticagrelor Therapy value Set (2.16.840.1.113762.1.4.1110.39): Replaced Ticagrelor Therapy with the Pharmacological Contraindications For Antithrombotic Therapy grouping value set (2.16.840.1.113762.1.4.1110.52) which includes both ticagrelor and prasugrel.	Value Set	Terminology	Measure Lead

**CMS104v9 - Discharged on Antithrombotic Therapy**

<b>Technical Release Notes</b>	<b>Type of TRN</b>	<b>Measure Section</b>	<b>Source of Change</b>
Updated eCQM Version Number.	Header	eCQM Version Number	Standards Update
Updated copyright.	Header	Copyright	Annual Update
Added text to identify the Quality Data Model (QDM) version used in the measure specification.	Header	Guidance	Measure Lead
Added text to indicate whether the measure is patient-based or episode-based.	Header	Guidance	Standards Update
Updated the denominator exceptions statement to 'Inpatient hospitalizations for patients who receive Ticagrelor or Prasugrel as an antithrombotic therapy at discharge.'	Header	Denominator Exceptions	Expert Work Group Review
Added 'Encounter with' to TJC.Comfort Measures during Hospitalization definition name for clarification.	Logic	Denominator Exclusions	Measure Lead
Replaced 'Medication, Administered' with 'Medication, Discharge' to better align with measure intent.	Logic	Denominator Exceptions	Measure Lead
Replaced 'Ticagrelor Therapy' with 'Pharmacological Contraindications for Antithrombotic Therapy' to further improve alignment with chart abstracted measure.	Logic	Denominator Exceptions	Expert Work Group Review
Clinical Quality Language (CQL) Library version update: Updated version number of the TJC_Overall Library (TJC_Overall-4.4.000).	Logic	Multiple Sections	Measure Lead
QDM v5.5 standards update: Modified 'Encounter, Performed' diagnosis attribute to reference diagnosis codes in value sets specified in the logic.	Logic	Multiple Sections	Standards Update
QDM v5.5 standards update: Added 'rank' attribute to 'Encounter, Performed' datatype. Rank with a value of 1 indicates the principal diagnosis.	Logic	Multiple Sections	Standards Update
QDM v5.5 standards update: Removed the 'ordinality' and 'principal diagnosis' attributes, added 'rank' as an attribute.	Logic	Multiple Sections	Standards Update
Updated CQL expression to conform with the HL7 Standard: Clinical Quality Language Specification, Release 1 STU 4 (CQL 1.4).	Logic	Multiple Sections	Standards Update
Updated the names of CQL definitions, functions, and/or aliases for clarification and to align with the CQL Style Guide.	Logic	Multiple Sections	Standards Update
Updated version number of the Measure Authoring Tool (MAT) Global Common Functions Library (MATGlobalCommonFunctions-5.0.000).	Logic	Multiple Sections	Standards Update
Updated definitions and functions in the MAT Global Common Functions Library to align with standards changes, CQL Style Guide, and to include one new function related to calculating length of hospital stays with observation stays.	Logic	Multiple Sections	Standards Update
Value set Ischemic Stroke (2.16.840.1.113883.3.117.1.7.1.247): Added 1 SNOMED CT code (422504002) based on terminology update.	Value Set	Terminology	Annual Update
Value set Antithrombotic Therapy (2.16.840.1.113883.3.117.1.7.1.201): Added 1 RxNorm code (2059015) and deleted 10 RxNorm codes (103863, 1291868, 198466, 199274, 243685, 605252, 797050, 863184, 863186, 896884) based on terminology update.	Value Set	Terminology	Annual Update
Value set Observation Services (2.16.840.1.113762.1.4.1111.143): Deleted 2 SNOMED CT codes (448851000124103, 76464004) based on clinical/coding expert feedback.	Value Set	Terminology	Measure Lead
Value set Pharmacological Contraindications for Antithrombotic Therapy (2.16.840.1.113762.1.4.1110.52): Added Pharmacological Contraindications for Antithrombotic Therapy grouping value set that includes value set Ticagrelor Therapy (2.16.840.1.113762.1.4.1110.39) and value set Prasugrel (2.16.840.1.113762.1.4.1110.51) based on the inclusion of Prasugrel; due to pharmacological contraindication when used with certain antithrombotic medications.	Value Set	Terminology	Expert Work Group Review

**CMS104v9 - Discharged on Antithrombotic Therapy**

<b>Technical Release Notes</b>	<b>Type of TRN</b>	<b>Measure Section</b>	<b>Source of Change</b>
Replaced the Ticagrelor Therapy value Set (2.16.840.1.113762.1.4.1110.39) with the Pharmacological Contraindications For Antithrombotic Therapy grouping value set (2.16.840.1.113762.1.4.1110.52) which includes both ticagrelor and prasugrel.	Value Set	Terminology	Measure Lead

**CMS105v9 - Discharged on Statin Medication**

<b>Technical Release Notes</b>	<b>Type of TRN</b>	<b>Measure Section</b>	<b>Source of Change</b>
Updated eCQM Version Number.	Header	eCQM Version Number	Standards Update
Updated copyright.	Header	Copyright	Annual Update
Added text to identify the Quality Data Model (QDM) version used in the measure specification.	Header	Guidance	Standards Update
Added text to indicate whether the measure is patient-based or episode-based.	Header	Guidance	Standards Update
Add 'Encounter with' to TJC.Comfort Measures during Hospitalization definition name for clarification.	Logic	Denominator Exclusions	Measure Lead
Clinical Quality Language (CQL) Library version update: Updated version number of the TJC_Overall Library (TJC_Overall-4.4.000).	Logic	Multiple Sections	Measure Lead
QDM v5.5 standards updates: Modified 'Encounter, Performed' diagnosis attribute to reference diagnosis codes in value sets specified in the logic.	Logic	Multiple Sections	Standards Update
QDM v5.5 standards update: Added 'rank' attribute to 'Encounter, Performed' datatype. Rank with a value of 1 indicates the principal diagnosis.	Logic	Multiple Sections	Standards Update
QDM v5.5 standards update: Removed the 'ordinality' and 'principal diagnosis' attributes, added 'rank' as an attribute.	Logic	Multiple Sections	Standards Update
Updated CQL expression to conform with the HL7 Standard: Clinical Quality Language Specification, Release 1 STU 4 (CQL 1.4).	Logic	Multiple Sections	Standards Update
Updated the names of CQL definitions, functions, and/or aliases for clarification and to align with the CQL Style Guide.	Logic	Multiple Sections	Standards Update
Updated version number of the Measure Authoring Tool (MAT) Global Common Functions Library (MATGlobalCommonFunctions-5.0.000).	Logic	Multiple Sections	Standards Update
Updated definitions and functions in the MAT Global Common Functions Library to align with standards changes, CQL Style Guide, and to include one new function related to calculating length of hospital stays with observation stays.	Logic	Multiple Sections	Standards Update
Value set Observation Services (2.16.840.1.113762.1.4.1111.143): Deleted 2 SNOMED CT codes (448851000124103, 76464004) based on clinical/coding expert feedback.	Value Set	Terminology	Measure Lead
Value set Ischemic Stroke (2.16.840.1.113883.3.117.1.7.1.247): Added 1 SNOMED CT code (422504002) based on terminology update.	Value Set	Terminology	Annual Update
Value set Statin Grouper (2.16.840.1.113762.1.4.1110.19): Added 4 RxNorm codes (2167565, 2167569, 2167557, 2167573) based on terminology update.	Value Set	Terminology	Annual Update



**CMS108v9 - Venous Thromboembolism Prophylaxis**

<b>Technical Release Notes</b>	<b>Type of TRN</b>	<b>Measure Section</b>	<b>Source of Change</b>
Updated eCQM Version Number.	Header	eCQM Version Number	Standards Update
Updated copyright.	Header	Copyright	Annual Update
Updated references.	Header	Reference	Measure Lead
Added text to identify the Quality Data Model (QDM) version used in the measure specification.	Header	Guidance	Standards Update
Added text to indicate whether the measure is patient-based or episode-based.	Header	Guidance	Standards Update
Updated due to clinical practice.	Header	Numerator	<a href="#">ONC Project Tracking System (Jira): CQM-2832</a>
QDM v5.5 standards update: Replaced 'Assessment, Performed' attribute 'authorDatetime' with 'relevantDatetime' and added a new variable in various logic locations.	Logic	Definitions	Measure Lead
Renamed the 'In Low Risk for VTE or On Anticoagulant' definition and revised logic for clarification consistent with the Clinical Quality Language (CQL) Style Guide.	Logic	Definitions	Measure Lead
Added 'Rivaroxaban and Betroxban for VTE Prophylaxis' to definitions due to US Food and Drug Administration (FDA) approval of Rivaroxaban and Betrixaban for VTE prophylaxis.	Logic	Definitions	Measure Lead
Expanded VTE prophylaxis timeframe to allow interventions in the ED or Observation setting prior to admission to count toward the numerator.	Logic	Definitions	<a href="#">ONC Project Tracking System (Jira): CQM-2832</a>
Followed CQL Style Guide to be consistent when defining SCIP acronym.	Logic	Definitions	Measure Lead
CQL Library version update: Updated version number of the TJC_Overall Library (TJC_Overall-4.4.000).	Logic	Multiple Sections	Measure Lead
CQL Library version update: Updated version number of the VTEICU Library (VTEICU-4.0.000).	Logic	Multiple Sections	Measure Lead
QDM v5.5 standards update: Modified 'Encounter, Performed' diagnosis attribute to reference diagnosis codes in value sets specified in the logic.	Logic	Multiple Sections	Standards Update
QDM v5.5 standards update: Added 'relevantDatetime' attribute to QDM datatypes. 'RelevantDatetime' indicates when the action occurred whereas 'authorDatetime' indicates when the action was recorded.	Logic	Multiple Sections	Standards Update
Updated CQL expression to conform with the HL7 Standard: Clinical Quality Language Specification, Release 1 STU 4 (CQL 1.4).	Logic	Multiple Sections	Standards Update
Updated the names of CQL definitions, functions, and/or aliases for clarification and to align with the CQL Style Guide.	Logic	Multiple Sections	Standards Update
Updated version number of the Measure Authoring Tool (MAT) Global Common Functions Library (MATGlobalCommonFunctions-5.0.000).	Logic	Multiple Sections	Standards Update
Updated definitions and functions in the MAT Global Common Functions Library to align with standards changes, CQL Style Guide, and to include one new function related to calculating length of hospital stays with observation stays.	Logic	Multiple Sections	Standards Update
Value set Low Dose Unfractionated Heparin for VTE Prophylaxis (2.16.840.1.113762.1.4.1045.39): Added 1 RxNorm code (2121591) based on terminology update.	Value Set	Terminology	Annual Update
Value set Unfractionated Heparin (2.16.840.1.113883.3.117.1.7.1.218): Deleted 1 RxNorm code (1658720) based on terminology update.	Value Set	Terminology	Annual Update
Value set General Surgery (2.16.840.1.113883.3.117.1.7.1.255): Added 2 SNOMED CT codes (47208000, 81561002) and deleted 7 SNOMED CT codes (14037006, 274029004, 275016006, 277578005, 426267007, 87389009, 89646009) based on terminology update.	Value Set	Terminology	Annual Update

**CMS108v9 - Venous Thromboembolism Prophylaxis**

<b>Technical Release Notes</b>	<b>Type of TRN</b>	<b>Measure Section</b>	<b>Source of Change</b>
Value set Gynecological Surgery (2.16.840.1.113883.3.117.1.7.1.257): Added 1 SNOMED CT code (784191009) and deleted 1 SNOMED CT code (236890000) based on terminology update.	Value Set	Terminology	Annual Update
Value set Intracranial Neurosurgery (2.16.840.1.113883.3.117.1.7.1.260): Deleted 1 SNOMED CT code (230892001) based on terminology update.	Value Set	Terminology	Annual Update
Value set Venous Thromboembolism (2.16.840.1.113883.3.117.1.7.1.279): Added 3 ICD-10-CM codes (I26.93, I26.94, I28.9) based on terminology update.	Value Set	Terminology	Annual Update
Value set Hip Replacement Surgery (2.16.840.1.113883.3.117.1.7.1.259): Deleted 3 SNOMED CT codes (29969002, 33788003, 425443008) based on terminology update.	Value Set	Terminology	Annual Update
Value set Knee Replacement Surgery (2.16.840.1.113883.3.117.1.7.1.261): Added 1 SNOMED CT code (609588000) and deleted 3 SNOMED CT codes (430698003, 443543000, 443658004) based on terminology update.	Value Set	Terminology	Annual Update
Value set Obstetrics (2.16.840.1.113883.3.117.1.7.1.263): Added 17 SNOMED CT codes and deleted 27 SNOMED CT codes based on terminology update.	Value Set	Terminology	Annual Update
Value set Ischemic Stroke (2.16.840.1.113883.3.117.1.7.1.247): Added 1 SNOMED CT code (422504002) based on terminology update.	Value Set	Terminology	Annual Update
Value set Observation Services (2.16.840.1.113762.1.4.1111.143): Deleted 2 SNOMED CT codes (448851000124103, 76464004) based on clinical/coding expert feedback.	Value Set	Terminology	Annual Update
Value set Rivaroxaban and Betrixaban for VTE Prophylaxis (2.16.840.1.113762.1.4.1110.50): Added Rivaroxaban and Betrixaban for VTE Prophylaxis due to FDA approval of Rivaroxaban and Betrixaban for VTE prophylaxis.	Value Set	Terminology	Measure Lead
Value set Principal (2.16.840.1.113883.3.117.1.7.1.14): Removed Principal due to QDM v5.5 standards updates.	Value Set	Terminology	Annual Update
Value set Atrial Fibrillation/Flutter Value Set (2.16.840.1.113883.3.117.1.7.1.202): Removed 2 ICD-10-CM codes (I48.1, I48.2) and added 4 ICD-10-CM codes (I48.11, I48.19, I48.20, I48.21) based on terminology update.	Value Set	Terminology	<a href="#">ONC Project Tracking System (Jira): CQM-3827</a>

**CMS111v9 - Median Admit Decision Time to ED Departure Time for Admitted Patients**

<b>Technical Release Notes</b>	<b>Type of TRN</b>	<b>Measure Section</b>	<b>Source of Change</b>
Updated eCQM Version Number.	Header	eCQM Version Number	Standards Update
Updated copyright.	Header	Copyright	Annual Update
Updated disclaimer.	Header	Disclaimer	Standards Update
Revised stratification narrative and logic to reflect standards change impacting representation of primary diagnosis.	Header	Stratification	Measure Lead
Revised notation relating to the median time calculation and removed verbiage related to reporting requirements to provide clarity.	Header	Guidance	Measure Lead
Revised the Decision to Admit explanation to only include concepts electronically capturable and to add a second option of using an assessment that results in a decision to admit inpatient.	Header	Guidance	Measure Lead
Added text to identify the Quality Data Model (QDM) version used in the measure specification.	Header	Guidance	Standards Update
Added text to indicate whether the measure is patient-based or episode-based.	Header	Guidance	Standards Update
Revised narrative to align with verbiage in other hospital measures and provide clarity in the statement.	Header	Initial Population	<a href="#">ONC Project Tracking System (Jira): CQM-3654</a>
Revised narrative to clarify admission source is any different facility as identified by location or CMS Certification Number (CCN).	Header	Measure Population Exclusions	Measure Lead
Revised narrative to include 'median' and clarify intent.	Header	Measure Observations	Measure Lead
Revised the logic to include facility location, location period, and location code for the Emergency Department to ensure other locations are not inadvertently captured.	Logic	Initial Population	<a href="#">ONC Project Tracking System (Jira): CQM-3654</a>
Revised comment within the stratification logic to improve conciseness. Comments consist of forward slash-asterisk (/*) and asterisk-forward slash (*/).	Logic	Stratification	Measure Lead
Removed extraneous logic in stratification 1 to make concise.	Logic	Stratification	Measure Lead
Revised logic to include 'Assessment, Performed' with a result to provide another option for capturing a decision to admit prior to departing the ED. Created functions for both the decision to admit assessment and for the decision to admit order which are used in the initial population and measure observation logic. Therefore, the initial population logic has been replaced with the define statement 'ED Encounter with Decision to Admit' and measure observation logic interval will coalesce the two new functions 'AdmitDecisionUsingAssessmentDuringLastEDBeforeDeparture' and 'AdmitDecisionUsingEncounterOrderDuringLastEDandBeforeDeparture.'	Logic	Multiple Sections	Measure Lead
Modified Global.ED Encounter and replaced 'RelatedEDVisit' by creating a function named 'LastEDEncounter' to ensure the most recent ED encounter is calculated throughout the measure.	Logic	Multiple Sections	Measure Lead
Updated Clinical Quality Language (CQL) expression to conform with the HL7 Standard: Clinical Quality Language Specification, Release 1 STU 4 (CQL 1.4).	Logic	Multiple Sections	Standards Update
Updated the names of CQL definitions, functions, and/or aliases for clarification and to align with the CQL Style Guide.	Logic	Multiple Sections	Standards Update
Updated version number of the Measure Authoring Tool (MAT) Global Common Functions Library (MATGlobalCommonFunctions-5.0.000).	Logic	Multiple Sections	Standards Update
Updated definitions and functions in the MAT Global Common Functions Library to align with standards changes, CQL Style Guide, and to include one new function related to calculating length of hospital stays with observation stays.	Logic	Multiple Sections	Standards Update

**CMS111v9 - Median Admit Decision Time to ED Departure Time for Admitted Patients**

<b>Technical Release Notes</b>	<b>Type of TRN</b>	<b>Measure Section</b>	<b>Source of Change</b>
Added a new function 'AdmitDecisionUsingAssessmentDuringLastEDBeforeDeparture' to capture the decision to admit assessment, time, and evaluation result that was performed during the last ED visit. Two data elements were created for this logic using 'Assessment, Performed': 'Admit Inpatient' and 'Emergency Department Evaluation'.	Logic	Multiple Sections	Measure Lead
Modified initial population and the function 'DepartureTime' to include ED facility location and facility relevant period and to assess if the encounter end date is maximum to capture the ED departure time and ensure the ED facility location and period are not null. This aligns with eCQM Logic and Guidance and the HQMF that only ED encounters where the measure observation can be calculated are included.	Logic	Multiple Sections	<a href="#">ONC Project Tracking System (Jira): QRDA-837</a>
Value Set Decision to Admit to Hospital Inpatient (2.16.840.1.113883.3.117.1.7.1.295): Deleted 1 SNOMED CT code (76464004) based on expert review and/or public feedback, as it does not represent a decision to admit to inpatient.	Value Set	Terminology	Measure Lead
Value Set Hospital Settings (2.16.840.1.113762.1.4.1111.126): Deleted 38 SNOMED CT codes to create a more focused list and based on expert review and/or public feedback.	Value Set	Terminology	Measure Lead
Value Set Psychiatric/Mental Health Diagnosis (2.16.840.1.113883.3.117.1.7.1.299): Added 2 SNOMED CT codes (787769002, 787770001) and deleted 1 SNOMED CT code (21000000) based on terminology update.	Value Set	Terminology	Measure Lead
Developed two new value sets related to the new 'Assessment, Performed' decision to admit concept, to ensure standardized capture of the concept: Admit Inpatient (2.16.840.1.113762.1.4.1111.164) and Emergency Department Evaluation (2.16.840.1.113762.1.4.1111.163).	Value Set	Terminology	Measure Lead

**CMS190v9 - Intensive Care Unit Venous Thromboembolism Prophylaxis**

<b>Technical Release Notes</b>	<b>Type of TRN</b>	<b>Measure Section</b>	<b>Source of Change</b>
Updated eCQM Version Number.	Header	eCQM Version Number	Standards Update
Updated copyright.	Header	Copyright	Annual Update
Updated references.	Header	Reference	Measure Lead
Added text to identify the Quality Data Model (QDM) version used in the measure specification.	Header	Guidance	Standards Update
Added text to indicate whether the measure is patient-based or episode-based.	Header	Guidance	Standards Update
QDM v5.5 standards update: Replaced 'Assessment, Performed' attribute 'authorDatetime' with 'relevantDatetime' and added a new variable in various logic locations.	Logic	Definitions	Measure Lead
Renamed the 'In Low Risk for VTE or On Anticoagulant' definition and revise logic for clarification consistent with the Clinical Quality Language (CQL) Style Guide.	Logic	Definitions	Measure Lead
Added 'Rivaroxaban and Betroxban for VTE Prophylaxis' to definitions due to US Food and Drug Administration (FDA) approval of Rivaroxaban and Betrixaban for VTE prophylaxis.	Logic	Definitions	Measure Lead
Followed CQL Style Guide to be consistent when defining surgical care improvement project (SCIP) acronym.	Logic	Definitions	Measure Lead
Removed function VTEICU.FirstInpatientIntensiveCareUnit() to use existing Global Common Library function Global.FirstInpatientIntensiveCareUnit().	Logic	Functions	Measure Lead
CQL Library version update: Updated version number of the TJC_Overall Library (TJC_Overall-4.4.000).	Logic	Multiple Sections	Measure Lead
CQL Library version update: Updated version number of the VTEICU Library (VTEICU-4.0.000).	Logic	Multiple Sections	Measure Lead
QDM v5.5 standards update: Modified 'Encounter, Performed' diagnosis attribute to reference diagnosis codes in value sets specified in the logic.	Logic	Multiple Sections	Standards Update
QDM v5.5 standards update: Added 'relevantDatetime' attribute to QDM datatypes. 'RelevantDatetime' indicates when the action occurred whereas 'authorDatetime' indicates when the action was recorded.	Logic	Multiple Sections	Standards Update
Updated CQL expression to conform with the HL7 Standard: Clinical Quality Language Specification, Release 1 STU 4 (CQL 1.4).	Logic	Multiple Sections	Standards Update
Updated the names of CQL definitions, functions, and/or aliases for clarification and to align with the CQL Style Guide.	Logic	Multiple Sections	Standards Update
Updated version number of the Measure Authoring Tool (MAT) Global Common Functions Library (MATGlobalCommonFunctions-5.0.000).	Logic	Multiple Sections	Standards Update
Updated definitions and functions in the MAT Global Common Functions Library to align with standards changes, CQL Style Guide, and to include one new function related to calculating length of hospital stays with observation stays.	Logic	Multiple Sections	Standards Update
Value set Low Dose Unfractionated Heparin for VTE Prophylaxis (2.16.840.1.113762.1.4.1045.39): Added 1 RxNorm code (2121591) based on terminology update.	Value Set	Terminology	Annual Update
Value set Atrial Fibrillation/Flutter Value Set (2.16.840.1.113883.3.117.1.7.1.202): Removed 2 ICD-10-CM codes (I48.1, I48.2) and added 4 ICD-10-CM codes (I48.11, I48.19, I48.20, I48.21) based on terminology update.	Value Set	Terminology	<a href="#">ONC Project Tracking System (Jira): CQM-3827</a>
Value set Unfractionated Heparin (2.16.840.1.113883.3.117.1.7.1.218): Deleted 1 RxNorm code (1658720) based on terminology update.	Value Set	Terminology	Annual Update

**CMS190v9 - Intensive Care Unit Venous Thromboembolism Prophylaxis**

<b>Technical Release Notes</b>	<b>Type of TRN</b>	<b>Measure Section</b>	<b>Source of Change</b>
Value set General Surgery (2.16.840.1.113883.3.117.1.7.1.255): Added 2 SNOMED CT codes (47208000, 81561002) and deleted 7 SNOMED CT codes (14037006, 274029004, 275016006, 277578005, 426267007, 87389009, 89646009) based on terminology update.	Value Set	Terminology	Annual Update
Value set Gynecological Surgery (2.16.840.1.113883.3.117.1.7.1.257): Added 1 SNOMED CT code (784191009) and deleted 1 SNOMED CT code (236890000) based on terminology update.	Value Set	Terminology	Annual Update
Value set Intracranial Neurosurgery (2.16.840.1.113883.3.117.1.7.1.260): Deleted 1 SNOMED CT code (230892001) based on terminology update.	Value Set	Terminology	Annual Update
Value set Venous Thromboembolism (2.16.840.1.113883.3.117.1.7.1.279): Added 3 ICD-10-CM codes (I26.93, I26.94, I28.9) based on terminology update.	Value Set	Terminology	Annual Update
Value set Hip Replacement Surgery (2.16.840.1.113883.3.117.1.7.1.259): Deleted 3 SNOMED CT codes (29969002, 33788003, 425443008) based on terminology update.	Value Set	Terminology	Annual Update
Value set Knee Replacement Surgery (2.16.840.1.113883.3.117.1.7.1.261): Added 1 SNOMED CT code (609588000) and deleted 3 SNOMED CT codes (430698003, 443543000, 443658004) based on terminology update.	Value Set	Terminology	Annual Update
Value set Obstetrics (2.16.840.1.113883.3.117.1.7.1.263): Added 17 SNOMED CT codes and deleted 27 SNOMED CT codes based on terminology update.	Value Set	Terminology	Annual Update
Value set Observation Services (2.16.840.1.113762.1.4.1111.143): Deleted 2 SNOMED CT codes (448851000124103, 76464004) based on clinical/coding expert feedback.	Value Set	Terminology	Measure Lead
Value set Rivaroxaban and Betrixaban for VTE Prophylaxis (2.16.840.1.113762.1.4.1110.50): Added Rivaroxaban and Betrixaban for VTE Prophylaxis due to FDA approval of Rivaroxaban and Betrixaban for VTE prophylaxis.	Value Set	Terminology	Measure Lead
Value set Principal (2.16.840.1.113883.3.117.1.7.1.14): Removed Principal due to QDM v5.5 standards updates.	Value Set	Terminology	Standards Update

**CMS506v3 - Safe Use of Opioids - Concurrent Prescribing**

<b>Technical Release Notes</b>	<b>Type of TRN</b>	<b>Measure Section</b>	<b>Source of Change</b>
Updated eCQM Version Number.	Header	eCQM Version Number	Standards Update
Updated copyright.	Header	Copyright	Annual Update
Updated disclaimer.	Header	Disclaimer	Standards Update
Updated references.	Header	Reference	Standards Update
Added text to identify the Quality Data Model (QDM) version used in the measure specification.	Header	Guidance	Measure Lead
Added text to indicate whether the measure is patient-based or episode-based.	Header	Guidance	Standards Update
Updated the denominator exclusions logic to reflect changes to the value sets by removing the Palliative Care extensional value set and the Hospice Care extensional value set and replacing them with the Palliative or Hospice Care grouping value set.	Logic	Denominator Exclusions	Measure Lead
Updated Clinical Quality Language (CQL) expression to conform with the HL7 Standard: Clinical Quality Language Specification, Release 1 STU 4 (CQL 1.4).	Logic	Multiple Sections	Standards Update
Updated the names of CQL definitions, functions, and/or aliases for clarification and to align with the CQL Style Guide.	Logic	Multiple Sections	Standards Update
Updated version number of the Measure Authoring Tool (MAT) Global Common Functions Library (MATGlobalCommonFunctions-5.0.000).	Logic	Multiple Sections	Standards Update
Updated definitions and functions in the MAT Global Common Functions Library to align with standards changes, CQL Style Guide, and to include one new function related to calculating length of hospital stays with observation stays.	Logic	Multiple Sections	Standards Update
Value set All Primary and Secondary Cancer (2.16.840.1.113762.1.4.1111.161): Added 335 SNOMED CT codes and deleted 2 SNOMED CT codes (716654007, 690801000119108) based on expert review or public feedback and terminology updates, to ensure patients with primary or secondary cancers are excluded.	Value Set	Terminology	Measure Lead
Replaced extensional value sets Palliative Care (2.16.840.1.113762.1.4.1111.162) and Hospice Care (2.16.840.1.113883.3.3157.1004.20) with the grouping value set Palliative or Hospice Care (2.16.840.1.113883.3.600.1.1579) based on expert review or public feedback, to harmonize with other measures.	Value Set	Terminology	Measure Lead
Replaced extensional value set Schedule II and Schedule III Opioids (2.16.840.1.113762.1.4.1125.2) with a new grouping value set, Schedule II and III Opioid Medications (2.16.840.1.113762.1.4.1111.165), to harmonize with other measures where possible, and to exclude Schedule V opioids.	Value Set	Terminology	Expert Work Group Review
Value set Schedule IV Benzodiazepines (2.16.840.1.113762.1.4.1125.1): Added 7 RxNorm codes (1807452, 1807459, 2120550, 2173494, 2058253, 2058254, 2058255) and deleted 4 RxNorm codes (199273, 199278, 199775, 618737) based on review by technical experts, SMEs, and/or public feedback and terminology updates to better capture relevant benzodiazepines.	Value Set	Terminology	Measure Lead