Technical Release Notes:

2023 Performance Period Electronic Clinical Quality Measures (eCQMs)

for Eligible Hospitals and Critical Access Hospitals

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CMS9v11 - Exclusive Breast Milk Feeding

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated the eCQM version number.	Header	eCQM Version Number	Annual Update
Updated copyright.	Header	Copyright	Annual Update
Updated rationale with more current evidence.	Header	Rationale	Measure Lead
Updated references.	Header	Reference	Standards/Technical Update
Updated version number of the Quality Data Model (QDM) used in the measure specification to v5.6.	Header	Guidance	Standards/Technical Update
Updated grammar and punctuation to improve readability.	Header	Guidance	Measure Lead
Updated guidance to reflect logic to improve clarity and understanding of measure intent to capture birthweight.	Header	Guidance	Measure Lead
Update the denominator exclusions narrative to include reference to ICU to align with the logic and intent.	Header	Denominator Exclusions	Measure Lead
Changed alias name from 'SingleLiveBirthEncounter' to 'SingleLiveBornEncounter' in PCNewborn Library to align with the CQL Style Guide and to provide clarity.	Logic	Initial Population	Measure Lead
Updated the definition name to simplify and align with the logic and intent.	Logic	Denominator Exclusions	Measure Lead
Changed the definition name in PCNewborn library To 'PCNewborn.Single Live Term Newborn Encounter Ends During Measurement Period' to align with logic intent.	Logic	Definitions	Measure Lead
Updated the version number of the PC Newborn Library to v2.0.000.	Logic	Multiple Sections	Measure Lead
Changed 'With' to 'with' in the definition names to align with CQL Style Guide.	Logic	Multiple Sections	Measure Lead
Updated the names of CQL definitions, functions, and/or aliases for clarification and to align with the CQL Style Guide.	Logic	Multiple Sections	Standards/Technical Update
Updated the version of the Quality Data Model (QDM) to 5.6 and Clinical Quality Language (CQL) to 1.5.	Logic	Multiple Sections	Standards/Technical Update
Updated the version number of the Measure Authoring Tool (MAT) Global Common Functions Library to v7.0.000.	Logic	Multiple Sections	Standards/Technical Update
Value set Neonatal Intensive Care Unit (NICU) (2.16.840.1.113762.1.4.1029.205): Added 1 HSLOC code (1269-0) based on terminology update.	Value Set	Terminology	Annual Update

CMS71v12 - Anticoagulation Therapy for Atrial Fibrillation/Flutter

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated the eCQM version number.	Header	eCQM Version Number	Annual Update
Updated copyright.	Header	Copyright	Annual Update
Updated references.	Header	Reference	Standards/Technical Update
Updated guidance to indicate patients in Acute Hospital Care at Home programs are included in the denominator population.	Header	Guidance	Measure Lead
Updated version number of the Quality Data Model (QDM) used in the measure specification to v5.6.	Header	Guidance	Standards/Technical Update
Added bullets for readability and consistency with other measures per external review.	Header	Denominator Exclusions	Measure Lead
Updated definition name to distinguish it from library definition and to match its purpose.	Logic	Denominator Exclusions	Measure Lead
Replaced age calculation from BirthDate with CQL function AgeInYearsAt in the TJCOverall library.	Logic	Definitions	Measure Lead
Added function 'TruncateTime' to replace retired Global.'ToDate'. Function 'CalendarDayOfOrDayAfter' now uses TJC.'TruncateTime' rather than the retired Global.'ToDate' in TJCOverall library.	Logic	Functions	Measure Lead
Updated the version number of the TJC Overall Library to v6.0.000.	Logic	Multiple Sections	Measure Lead
Updated the version number of the Measure Authoring Tool (MAT) Global Common Functions Library to v7.0.000.	Logic	Multiple Sections	Standards/Technical Update
Replaced the Global.CalendarAgeInYearsAt function with the native CQL function AgeInYearsAt to take advantage of existing CQL features and increase human readability. As a result of this change, the LOINC code 21112-8 is no longer required and has been removed from the Terminology section of the human readable specification.	Logic	Multiple Sections	Standards/Technical 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/Technical Update
Updated the version of the Quality Data Model (QDM) to 5.6 and Clinical Quality Language (CQL) to 1.5.	Logic	Multiple Sections	Standards/Technical Update
Value set Medical Reason (2.16.840.1.113883.3.117.1.7.1.473): Deleted 1 SNOMED CT code (397745006) based on terminology update.	Value Set	Terminology	Annual Update
Value set Anticoagulant Therapy (2.16.840.1.113883.3.117.1.7.1.200): Added 1 RxNorm code (2588062) based on terminology update.	Value Set	Terminology	Annual Update
Removed direct reference code LOINC code (21112-8) based on review by technical experts, SMEs, and/or public feedback.	Value Set	Terminology	Measure Lead

CMS72v11 - Antithrombotic Therapy By End of Hospital Day 2

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated the eCQM version number.	Header	eCQM Version Number	Annual Update
Updated copyright.	Header	Copyright	Annual Update
Added clarifying text noting VTE prophylaxis does not suffice as antithrombotic therapy.	Header	Rationale	Measure Lead
Updated guidance to indicate patients in Acute Hospital Care at Home programs are included in the denominator population.	Header	Guidance	Measure Lead
Updated version number of the Quality Data Model (QDM) used in the measure specification to v5.6.	Header	Guidance	Standards/Technical Update
Updated denominator exceptions statement to remove ticagrelor as an applicable exception, per the new FDA-approved indication for its use in ischemic stroke. Ticagrelor is now included in the value sets for numerator compliance.	Header	Denominator Exceptions	Measure Lead
Added bullets and made minor grammar edits for readability and consistency with other measures per external review.	Header	Multiple Sections	Measure Lead
Updated definition name to distinguish it from library definition and to match its purpose.	Logic	Denominator Exclusions	Measure Lead
Replaced age calculation from BirthDate with CQL function AgeInYearsAt in the TJCOverall library.	Logic	Definitions	Measure Lead
Replaced Global.ToDate() with TJC.TruncateTime() in the function of TJC.'CalendarDayOfOrDayAfter'.	Logic	Functions	Measure Lead
Updated the version number of the TJC Overall Library to v6.0.000.	Logic	Multiple Sections	Measure Lead
Updated the version number of the Measure Authoring Tool (MAT) Global Common Functions Library to v7.0.000.	Logic	Multiple Sections	Standards/Technical 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/Technical Update
Replaced the Global.CalendarAgeInYearsAt function with the native CQL function AgeInYearsAt to take advantage of existing CQL features and increase human readability. As a result of this change, the LOINC code 21112-8 is no longer required and has been removed from the Terminology section of the human readable specification.	Logic	Multiple Sections	Standards/Technical Update
Updated the timing precision in definitions using the function TJC.'CalendarDayOfOrDayAfter' from datetime to date by adding 'day of', 'date from', and/or function 'ToDateInterval' to align with the measure intent.	Logic	Multiple Sections	Standards/Technical Update
Updated the version of the Quality Data Model (QDM) to 5.6 and Clinical Quality Language (CQL) to 1.5.	Logic	Multiple Sections	Standards/Technical Update
Value set Pharmacological Contraindications For Antithrombotic Therapy (2.16.840.1.113762.1.4.1110.52): Deleted 2 RxNorm codes (1116635, 1666332) based on updated evidence in published guidelines, published literature, or from published specialty medical society or group recommendations.	Value Set	Terminology	Measure Lead
Value set Antithrombotic Therapy (2.16.840.1.113762.1.4.1110.62): Added 2 RxNorm codes (1116635, 1666332) based on updated evidence in published guidelines, published literature, or from published specialty medical society or group recommendations. Added 4 RxNorm codes (2588062, 198466, 243670, 252857) based on terminology update.	Value Set	Terminology	Measure Lead
Value set Medical Reason (2.16.840.1.113883.3.117.1.7.1.473): Deleted 1 SNOMED CT code (397745006) based on terminology update.	Value Set	Terminology	Annual Update
Removed direct reference code LOINC code (21112-8) based on review by technical experts, SMEs, and/or public feedback.	Value Set	Terminology	Measure Lead

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated the eCQM version number.	Header	eCQM Version Number	Annual Update
Updated copyright.	Header	Copyright	Annual Update
Spelled out TIA acronym (transient ischemic attack) for clarity.	Header	Rationale	Measure Lead
Updated references.	Header	Reference	Standards/Technical Update
Updated guidance to indicate patients in Acute Hospital Care at Home programs are included in the denominator population.	Header	Guidance	Measure Lead
Updated version number of the Quality Data Model (QDM) used in the measure specification to v5.6.	Header	Guidance	Standards/Technical Update
Updated denominator exceptions statement to remove ticagrelor as an applicable exception, per the new FDA-approved indication for its use in ischemic stroke. Ticagrelor is now included in the value sets for numerator compliance.	Header	Denominator Exceptions	Measure Lead
Added bullets for readability and consistency with other measures per external review.	Header	Multiple Sections	Measure Lead
Replaced age calculation from BirthDate with CQL function AgeInYearsAt in the TJCOverall library.	Logic	Definitions	Measure Lead
Added function 'TruncateTime' to replace retired Global.'ToDate'. Function 'CalendarDayOfOrDayAfter' now uses TJC.'TruncateTime' rather than the retired Global.'ToDate' in TJCOverall library.	Logic	Functions	Measure Lead
Updated the version number of the TJC Overall Library to v6.0.000.	Logic	Multiple Sections	Measure Lead
Updated the version number of the Measure Authoring Tool (MAT) Global Common Functions Library to v7.0.000.	Logic	Multiple Sections	Standards/Technical 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/Technical Update
Replaced the Global.CalendarAgeInYearsAt function with the native CQL function AgeInYearsAt to take advantage of existing CQL features and increase human readability. As a result of this change, the LOINC code 21112-8 is no longer required and has been removed from the Terminology section of the human readable specification.	Logic	Multiple Sections	Standards/Technical Update
Updated the version of the Quality Data Model (QDM) to 5.6 and Clinical Quality Language (CQL) to 1.5.	Logic	Multiple Sections	Standards/Technical Update
Value set Pharmacological Contraindications For Antithrombotic Therapy (2.16.840.1.113762.1.4.1110.52): Deleted 2 RxNorm codes (1116635, 1666332) based on updated evidence in published guidelines, published literature, or from published specialty medical society or group recommendations.	Value Set	Terminology	Measure Lead
Value set Antithrombotic Therapy (2.16.840.1.113762.1.4.1110.62): Added 2 RxNorm codes (1116635, 1666332) based on updated evidence in published guidelines, published literature, or from published specialty medical society or group recommendations. Added 4 RxNorm codes (2588062, 198466, 243670, 252857) based on terminology update.	Value Set	Terminology	Measure Lead
Value set Medical Reason (2.16.840.1.113883.3.117.1.7.1.473): Deleted 1 SNOMED CT code (397745006) based on terminology update.	Value Set	Terminology	Annual Update
Removed direct reference code LOINC code (21112-8) based on review by technical experts, SMEs, and/or public feedback.	Value Set	Terminology	Measure Lead

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated the eCQM version number.	Header	eCQM Version Number	Annual Update
Updated copyright.	Header	Copyright	Annual Update
Updated references.	Header	Reference	Standards/Technical Update
Updated guidance to indicate patients in Acute Hospital Care at Home programs are included in the denominator population.	Header	Guidance	Measure Lead
Updated version number of the Quality Data Model (QDM) used in the measure specification to v5.6.	Header	Guidance	Standards/Technical Update
Added bullets for readability and consistency with other measures per external review.	Header	Multiple Sections	Measure Lead
Updated the names of CQL definitions, functions, and/or aliases for clarification and to align with the CQL Style Guide.	Logic	Denominator Exceptions	Standards/Technical Update
Replaced reference to Global.ToDate with identical function named TJC.TruncateTime because Global.ToDate was retired.	Logic	Denominator Exceptions	Measure Lead
Replaced age calculation from BirthDate with CQL function AgeInYearsAt in the TJCOverall library.	Logic	Definitions	Measure Lead
Added function 'TruncateTime' to replace retired Global.'ToDate'. Function 'CalendarDayOfOrDayAfter' now uses TJC.'TruncateTime' rather than the retired Global.'ToDate' in TJCOverall library.	Logic	Functions	Measure Lead
Replaced the Global.CalendarAgeInYearsAt function with the native CQL function AgeInYearsAt to take advantage of existing CQL features and increase human readability. As a result of this change, the LOINC code 21112-8 is no longer required and has been removed from the Terminology section of the human readable specification.	Logic	Multiple Sections	Standards/Technical Update
Updated the version of the Quality Data Model (QDM) to 5.6 and Clinical Quality Language (CQL) to 1.5.	Logic	Multiple Sections	Standards/Technical Update
Updated the version number of the Measure Authoring Tool (MAT) Global Common Functions Library to v7.0.000.	Logic	Multiple Sections	Standards/Technical Update
Updated the version number of the TJC Overall Library to v6.0.000.	Logic	Multiple Sections	Measure Lead
Value set Medical Reason (2.16.840.1.113883.3.117.1.7.1.473): Deleted 1 SNOMED CT code (397745006) based on terminology update.	Value Set	Terminology	Annual Update
Value set Statin Allergen (2.16.840.1.113762.1.4.1110.42): Added 1 SNOMED CT code (96302009) based on review by technical experts, SMEs, and/or public feedback.	Value Set	Terminology	Measure Lead
Value set Statin Grouper (2.16.840.1.113762.1.4.1110.19): Added 4 RxNorm codes (2535745, 2535747, 2535749, 2535750) based on terminology update.	Value Set	Terminology	Annual Update
Removed direct reference code LOINC code (21112-8) based on review by technical experts, SMEs, and/or public feedback.	Value Set	Terminology	Measure Lead

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated the eCQM version number.	Header	eCQM Version Number	Annual Update
Updated copyright.	Header	Copyright	Annual Update
Updated rationale with more current evidence.	Header	Rationale	Measure Lead
Updated references.	Header	Reference	Standards/Technical Update
Changed 'VTE Prophylaxis' to 'VTE prophylaxis' to align with typographical standard.	Header	Guidance	Measure Lead
Updated guidance to indicate patients in Acute Hospital Care at Home programs are included in the denominator population.	Header	Guidance	Measure Lead
Updated version number of the Quality Data Model (QDM) used in the measure specification to v5.6.	Header	Guidance	Standards/Technical Update
Revised the denominator exclusions narrative to list exclusions in the same order as the logic for improved readability.	Header	Denominator Exclusions	Measure Lead
Standardized use of parentheses in numerator statement.	Header	Numerator	Measure Lead
Updated grammar and punctuation to improve readability.	Header	Multiple Sections	Measure Lead
Replaced reference to Global.ToDate with identical function named TJC.TruncateTime because Global.ToDate was retired.	Logic	Denominator Exclusions	Measure Lead
Replaced 'Device, Applied' with 'Procedure, Performed' datatype to align with QDM v5.6 updates and created 3 new value sets with SNOMED CT codes to align with terminology recommendations by QDM datatype.	Logic	Numerator	Standards/Technical Update
Updated definition name to align with logic content.	Logic	Numerator	Measure Lead
Replaced age calculation from BirthDate with CQL function AgeInYearsAt in the TJCOverall and VTE libraries.	Logic	Definitions	Measure Lead
Replaced Global.ToDate() with TJC.TruncateTime() in the function of FromDayOfStartOfHospitalizationToDayAfterAdmission and FromDayOfStartOfHospitalizationToDayAfterFirstICU.	Logic	Functions	Measure Lead
Updated the names of CQL definitions, functions, and/or aliases for clarification and to align with the CQL Style Guide.	Logic	Multiple Sections	Standards/Technical Update
Updated the version of the Quality Data Model (QDM) to 5.6 and Clinical Quality Language (CQL) to 1.5.	Logic	Multiple Sections	Standards/Technical Update
Updated the timing precision in definitions using the functions TJC.'CalendarDayOfOrDayAfter' and VTE.'FromDayOfStartOfHospitalizationToDayAfterFirstICU' from datetime to date by adding 'day of' to align with the measure intent.	Logic	Multiple Sections	Standards/Technical Update
Updated the version number of the Measure Authoring Tool (MAT) Global Common Functions Library to v7.0.000.	Logic	Multiple Sections	Standards/Technical Update
Updated the version number of the TJC Overall Library to v6.0.000.	Logic	Multiple Sections	Measure Lead
Updated the version number of the VTE Library to v6.0.000.	Logic	Multiple Sections	Measure Lead
Updated definition names to reflect the removal of the 'Device, Applied' datatype.	Logic	Multiple Sections	Standards/Technical Update
Changed 'With' to 'with' in the definition names to align with CQL Style Guide.	Logic	Multiple Sections	Measure Lead
Replaced the Global.CalendarAgeInYearsAt function with the native CQL function AgeInYearsAt to take advantage of existing CQL features and increase human readability. As a result of this change, the LOINC code 21112-8 is no longer required and has been removed from the Terminology section of the human readable specification.	Logic	Multiple Sections	Standards/Technical Update
Value set Urological Surgery (2.16.840.1.113883.3.117.1.7.1.272): Deleted 3 SNOMED CT codes (289754003, 290691008, 89528006) based on terminology update.	Value Set	Terminology	Annual Update

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Value set Oral Factor Xa Inhibitor for VTE Prophylaxis or VTE Treatment (2.16.840.1.113883.3.117.1.7.1.134): Deleted 5 RxNorm codes (1114198, 1232082, 1232086, 1549682, 2059015) based on review by technical experts, SMEs, and/or public feedback.	Value Set	Terminology	Measure Lead
Value set Obstetrics VTE (2.16.840.1.113883.3.117.1.7.1.264): Deleted 5 SNOMED CT codes (200237000, 200238005, 280966008, 63795001, 84216001) based on terminology update.	Value Set	Terminology	Annual Update
Value set Obstetrics (2.16.840.1.113883.3.117.1.7.1.263): Deleted 62 SNOMED CT codes based on terminology update. Deleted 50 SNOMED CT codes based on review by technical experts, SMEs, and/or public feedback.	Value Set	Terminology	Measure Lead
Value set Hip Replacement Surgery (2.16.840.1.113883.3.117.1.7.1.259): Deleted 1 SNOMED CT code (397956004) based on terminology update.	Value Set	Terminology	Annual Update
Value set Graduated compression stockings (GCS) (2.16.840.1.113883.3.117.1.7.1.256): Deleted 12 SNOMED CT codes based on terminology update.	Value Set	Terminology	Annual Update
Added value set Application of Venous Foot Pumps (VFP) (2.16.840.1.113762.1.4.1110.64) based on change in measure requirements/measure specification.	Value Set	Terminology	Annual Update
Value set Medical Reason (2.16.840.1.113883.3.117.1.7.1.473): Deleted 1 SNOMED CT code (397745006) based on terminology update.	Value Set	Terminology	Annual Update
Value set Rivaroxaban for VTE Prophylaxis (2.16.840.1.113762.1.4.1110.50): Added 1 RxNorm code (2588062) based on terminology update.	Value Set	Terminology	Annual Update
Value set Mental Health Diagnoses (2.16.840.1.113883.3.464.1003.105.12.1004): Added 3 ICD-10-CM codes (F32.A, T40.712A, T40.722A) based on terminology update. Deleted 1 ICD-10-CM code (T40.7X2A) based on terminology update. Deleted 4 SNOMED CT codes (162722001, 3503000, 391099000, 50878001) based on terminology update.	Value Set	Terminology	Annual Update
Added value set Application of Intermittent Pneumatic Compression Devices (IPC) (2.16.840.1.113762.1.4.1110.65) based on change in measure requirements/measure specification.	Value Set	Terminology	Annual Update
Added value set Application of Graduated Compression Stockings (GCS) (2.16.840.1.113762.1.4.1110.66) based on change in measure requirements/measure specification.	Value Set	Terminology	Annual Update
Value set Venous Thromboembolism (2.16.840.1.113883.3.117.1.7.1.279): Deleted 2 SNOMED CT codes (195394007, 266267005) based on terminology update.	Value Set	Terminology	Annual Update
Value set General Surgery (2.16.840.1.113883.3.117.1.7.1.255): Deleted 2 SNOMED CT codes (238212008, 28933001) based on terminology update.	Value Set	Terminology	Annual Update
Removed direct reference code LOINC code (21112-8) based on review by technical experts, SMEs, and/or public feedback.	Value Set	Terminology	Measure Lead

CMS111v11 - Median Admit Decision Time to ED Departure Time for Admitted Patients

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated the eCQM version number.	Header	eCQM Version Number	Annual Update
Added acronym to introduce emergency department (ED) early in the specification to clarify its use.	Header	Description	Measure Lead
Updated copyright.	Header	Copyright	Annual Update
Updated disclaimer.	Header	Disclaimer	Standards/Technical Update
Updated references.	Header	Reference	Standards/Technical Update
Updated guidance to indicate patients in Acute Hospital Care at Home programs are included in the denominator population and updated to improve readability.	Header	Guidance	Measure Lead
Updated version number of the Quality Data Model (QDM) used in the measure specification to v5.6.	Header	Guidance	Standards/Technical Update
Updated grammar and punctuation to improve readability.	Header	Multiple Sections	Measure Lead
Updated the version number of the Measure Authoring Tool (MAT) Global Common Functions Library to v7.0.000.	Logic	Multiple Sections	Standards/Technical Update
Updated the version of the Quality Data Model (QDM) to 5.6 and Clinical Quality Language (CQL) to 1.5.	Logic	Multiple Sections	Standards/Technical Update
Value set Psychiatric/Mental Health Diagnosis (2.16.840.1.113883.3.117.1.7.1.299): Added 3 ICD-10-CM codes (F32.A, F78.A1, F78.A9) based on review by technical experts, SMEs, and/or public feedback. Deleted 2 ICD-10-CM codes (F78, Z91.5) based on new or changed coding guidelines. Added 1 SNOMED CT code (472945003) based on terminology update. Deleted 4 SNOMED CT codes (3503000, 50878001, 106014008, 162702000) based on terminology update.	Value Set	Terminology	Measure Lead

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated the eCQM version number.	Header	eCQM Version Number	Annual Update
Updated copyright.	Header	Copyright	Annual Update
Updated rationale with more current evidence.	Header	Rationale	Measure Lead
Updated references.	Header	Reference	Standards/Technical Update
Updated version number of the Quality Data Model (QDM) used in the measure specification to v5.6.	Header	Guidance	Standards/Technical Update
Updated guidance to indicate patients in Acute Hospital Care at Home programs are included in the denominator population.	Header	Guidance	Measure Lead
Revised the denominator exclusions narrative to list exclusions in the same order as the logic for improved readability.	Header	Denominator Exclusions	Measure Lead
Standardized use of parentheses in numerator statement.	Header	Numerator	Measure Lead
Updated grammar and punctuation to improve readability.	Header	Multiple Sections	Measure Lead
Replaced 'Device, Applied' with 'Procedure, Performed' datatype to align with QDM v5.6 updates and created 3 new value sets with SNOMED CT codes to align with terminology recommendations by QDM datatype.	Logic	Numerator	Standards/Technical Update
Updated definition name to align with logic content.	Logic	Numerator	Measure Lead
Replaced Global.ToDate() with TJC.TruncateTime() in the functions named FromDayOfStartOfHospitalizationToDayAfterAdmission and FromDayOfStartOfHospitalizationToDayAfterFirstICU.	Logic	Functions	Measure Lead
Updated the version number of the VTE Library to v6.0.000.	Logic	Multiple Sections	Measure Lead
Updated the version number of the TJC Overall Library to v6.0.000.	Logic	Multiple Sections	Measure Lead
Updated the version number of the Measure Authoring Tool (MAT) Global Common Functions Library to v7.0.000.	Logic	Multiple Sections	Standards/Technical Update
Replaced age calculation from BirthDate with CQL function AgeInYearsAt in the TJCOverall and VTE libraries.	Logic	Multiple Sections	Measure Lead
Updated definition names to reflect the removal of the 'Device, Applied' datatype.	Logic	Multiple Sections	Standards/Technical 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/Technical Update
Replaced the Global.CalendarAgeInYearsAt function with the native CQL function AgeInYearsAt to take advantage of existing CQL features and increase human readability. As a result of this change, the LOINC code 21112-8 is no longer required and has been removed from the Terminology section of the human readable specification.	Logic	Multiple Sections	Standards/Technical Update
Updated the timing precision in definitions using the functions TJC.'CalendarDayOfOrDayAfter' and VTE.'FromDayOfStartOfHospitalizationToDayAfterFirstICU' from datetime to date by adding 'day of' to align with the measure intent.	Logic	Multiple Sections	Standards/Technical Update
Changed 'With' to 'with' in the definition names to align with CQL Style Guide.	Logic	Multiple Sections	Measure Lead
Updated the version of the Quality Data Model (QDM) to 5.6 and Clinical Quality Language (CQL) to 1.5.	Logic	Multiple Sections	Standards/Technical Update
Value set Venous Thromboembolism (2.16.840.1.113883.3.117.1.7.1.279): Deleted 2 SNOMED CT codes (195394007, 266267005) based on terminology update.	Value Set	Terminology	Annual Update
Value set Urological Surgery (2.16.840.1.113883.3.117.1.7.1.272): Deleted 3 SNOMED CT codes (289754003, 290691008, 89528006) based on terminology update.	Value Set	Terminology	Annual Update

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Value set Oral Factor Xa Inhibitor for VTE Prophylaxis or VTE Treatment (2.16.840.1.113883.3.117.1.7.1.134): Deleted 5 RxNorm codes (1114198, 1232082, 1232086, 1549682, 2059015) based on review by technical experts, SMEs, and/or public feedback.	Value Set	Terminology	Measure Lead
Value set Obstetrics VTE (2.16.840.1.113883.3.117.1.7.1.264): Deleted 5 SNOMED CT codes (200237000, 200238005, 280966008, 63795001, 84216001) based on terminology update.	Value Set	Terminology	Annual Update
Value set Obstetrics (2.16.840.1.113883.3.117.1.7.1.263): Deleted 62 SNOMED CT codes based on terminology update. Deleted 50 SNOMED CT codes based on review by technical experts, SMEs, and/or public feedback.	Value Set	Terminology	Measure Lead
Value set Hip Replacement Surgery (2.16.840.1.113883.3.117.1.7.1.259): Deleted 1 SNOMED CT code (397956004) based on terminology update.	Value Set	Terminology	Annual Update
Value set Medical Reason (2.16.840.1.113883.3.117.1.7.1.473): Deleted 1 SNOMED CT code (397745006) based on terminology update.	Value Set	Terminology	Annual Update
Value set General Surgery (2.16.840.1.113883.3.117.1.7.1.255): Deleted 2 SNOMED CT codes (238212008, 28933001) based on terminology update.	Value Set	Terminology	Annual Update
Value set Rivaroxaban for VTE Prophylaxis (2.16.840.1.113762.1.4.1110.50): Added 1 RxNorm code (2588062) based on terminology update.	Value Set	Terminology	Annual Update
Added value set Application of Venous Foot Pumps (VFP) (2.16.840.1.113762.1.4.1110.64) based on change in measure requirements/measure specification.	Value Set	Terminology	Annual Update
Added value set Application of Intermittent Pneumatic Compression Devices (IPC) (2.16.840.1.113762.1.4.1110.65) based on change in measure requirements/measure specification.	Value Set	Terminology	Annual Update
Added value set Application of Graduated Compression Stockings (GCS) (2.16.840.1.113762.1.4.1110.66) based on change in measure requirements/measure specification.	Value Set	Terminology	Annual Update
Value set Graduated compression stockings (GCS) (2.16.840.1.113883.3.117.1.7.1.256): Deleted 12 SNOMED CT codes based on terminology update.	Value Set	Terminology	Annual Update
Removed direct reference code LOINC code (21112-8) based on review by technical experts, SMEs, and/or public feedback.	Value Set	Terminology	Measure Lead

CMS506v5 - Safe Use of Opioids - Concurrent Prescribing

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated the eCQM version number.	Header	eCQM Version Number	Annual Update
Updated copyright.	Header	Copyright	Annual Update
Updated disclaimer.	Header	Disclaimer	Standards/Technical Update
Updated guidance to indicate patients in Acute Hospital Care at Home programs are included in the denominator population.	Header	Guidance	Measure Lead
Updated version number of the Quality Data Model (QDM) used in the measure specification to v5.6.	Header	Guidance	Standards/Technical Update
Updated formatting to improve readability.	Header	Multiple Sections	Measure Lead
Updated the version number of the Measure Authoring Tool (MAT) Global Common Functions Library to v7.0.000.	Logic	Multiple Sections	Standards/Technical Update
Updated the version of the Quality Data Model (QDM) to 5.6 and Clinical Quality Language (CQL) to 1.5.	Logic	Multiple Sections	Standards/Technical Update
Updated Palliative and Hospice exclusions to use the HospitalizationWithObservation function instead of inpatient only. This allows patients to be excluded based on palliative or hospice care they received in emergency departments and observation stays directly prior to the inpatient stay, and harmonizes with other hospital measures.	Logic	Multiple Sections	ONC Project Tracking System (JIRA): CQM-4711
Replaced the Global.CalendarAgeInYearsAt function with the native CQL function AgeInYearsAt to take advantage of existing CQL features and increase human readability. As a result of this change, the LOINC code 21112-8 is no longer required and has been removed from the Terminology section of the human readable specification.	Logic	Multiple Sections	Standards/Technical 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/Technical Update
Value set Schedule IV Benzodiazepines (2.16.840.1.113762.1.4.1125.1): Added 5 RxNorm codes (2541170, 2541171, 2569564, 2569573, 2569577) based on terminology update.	Value Set	Terminology	Annual Update
Added value set Emergency Department Visit (2.16.840.1.113883.3.117.1.7.1.292) based on review by technical experts, SMEs, and/or public feedback.	Value Set	Terminology	Measure Lead
Added value set Observation Services (2.16.840.1.113762.1.4.1111.143) based on review by technical experts, SMEs, and/or public feedback.	Value Set	Terminology	Measure Lead
Value set All Primary and Secondary Cancer (2.16.840.1.113762.1.4.1111.161): Added 5 SNOMED CT codes (1157060001, 686981000119108, 686991000119106, 890528009, 890529001) based on terminology update. Deleted 16 SNOMED CT codes based on terminology update.	Value Set	Terminology	Annual Update
Value set Schedule II & III Opioid Medications (2.16.840.1.113762.1.4.1111.165): Added 3 RxNorm codes (2539186, 2539191, 857121) based on terminology update. Deleted 15 RxNorm codes based on review by technical experts, SMEs, and/or public feedback and updated extensional set . Deleted 5 RxNorm codes (1655058, 1655060, 1731530, 977935, 993763) based on terminology update.	Value Set	Terminology	Measure Lead
Removed direct reference code LOINC code (21112-8) based on review by technical experts, SMEs, and/or public feedback.	Value Set	Terminology	Measure Lead

CMS816v2 - Hospital Harm - Severe Hypoglycemia

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated the eCQM version number.	Header	eCQM Version Number	Annual Update
Replaced 'Not Applicable' with '3503e'.	Header	NQF Number	Measure Lead
Updated measure developer from 'IMPAQ International' to 'American Institutes for Research'.	Header	Measure Developer	Measure Lead
Replaced 'None' with 'National Quality Forum'.	Header	Endorsed By	Measure Lead
Removed duplicative information already referenced in the definition section for clarity.	Header	Description	Measure Lead
Updated copyright.	Header	Copyright	Annual Update
Updated disclaimer.	Header	Disclaimer	Standards/Technical Update
Updated to remove the word 'recent'.	Header	Rationale	Measure Lead
Updated to reflect more recent literature.	Header	Clinical Recommendation Statement	Measure Lead
Updated references.	Header	Reference	Standards/Technical Update
Updated version number of the Quality Data Model (QDM) used in the measure specification to v5.6.	Header	Guidance	Standards/Technical Update
Revised the numerator statement to be more concise.	Header	Numerator	Measure Lead
Replaced 'gender' with 'sex' to provide consistent language across eCQMs.	Header	Supplemental Data Elements	Measure Lead
Updated language for added clarity and to improve readability.	Header	Multiple Sections	Measure Lead
Added 'day of' timing to the Qualifying Encounter definition to clarify the timing precision level.	Logic	Initial Population	Measure Lead
Replaced the Global.CalendarAgeInYearsAt function with the native CQL function AgeInYearsAt to take advantage of existing CQL features and increase human readability. As a result of this change, the LOINC code 21112-8 is no longer required and has been removed from the Terminology section of the human readable specification.	Logic	Multiple Sections	Standards/Technical 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/Technical Update
Updated the version of the Quality Data Model (QDM) to 5.6 and Clinical Quality Language (CQL) to 1.5.	Logic	Multiple Sections	Standards/Technical Update
Updated the version number of the Measure Authoring Tool (MAT) Global Common Functions Library to v7.0.000.	Logic	Multiple Sections	Standards/Technical Update
Replaced value set Glucose lab test (2.16.840.1.113762.1.4.1045.134) with value set Glucose Lab Test Mass Per Volume (2.16.840.1.113762.1.4.1248.34) based on review by technical experts, SMEs, and/or public feedback.	Value Set	Terminology	Measure Lead
Removed direct reference code LOINC code (21112-8) based on review by technical experts, SMEs, and/or public feedback.	Value Set	Terminology	Measure Lead
Value set Hypoglycemics Severe Hypoglycemia (2.16.840.1.113762.1.4.1196.393): Added 26 RxNorm codes based on terminology update. Deleted 256 RxNorm codes based on terminology update.	Value Set	Terminology	Annual Update

CMS871v2 - Hospital Harm - Severe Hyperglycemia

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated the eCQM version number.	Header	eCQM Version Number	Annual Update
Replaced 'Not Applicable' with '3533e'.	Header	NQF Number	Measure Lead
Updated measure developer from 'IMPAQ International' to 'American Institutes for Research'.	Header	Measure Developer	Measure Lead
Replaced 'None' with 'National Quality Forum'.	Header	Endorsed By	Measure Lead
Removed duplicative information already referenced in the definition section for clarity.	Header	Description	Measure Lead
Updated copyright.	Header	Copyright	Annual Update
Added citations to reflect updated literature.	Header	Rationale	Measure Lead
Added language regarding the treatment of patients presenting with hyperglycemic crisis.	Header	Clinical Recommendation Statement	Measure Lead
Updated references.	Header	Reference	Standards/Technical Update
Updated version number of the Quality Data Model (QDM) used in the measure specification to v5.6.	Header	Guidance	Standards/Technical Update
Added language to clarify numerator criteria and return values.	Header	Guidance	Measure Lead
Revised description to better align with measure intent.	Header	Initial Population	Measure Lead
Added a denominator exclusion of inpatient hospitalizations for patients with an initial blood glucose result of >=1000 mg/dL that starts any time between 1 hour prior to the start of the encounter to 6 hours after the start of the encounter.	Header	Denominator Exclusions	Measure Lead
Revised formatting and punctuation.	Header	Numerator	Measure Lead
Revised the Measure Observations description to clarify measure intent.	Header	Measure Observations	Measure Lead
Replaced 'gender' with 'sex' to provide consistent language across eCQMs.	Header	Supplemental Data Elements	Measure Lead
Updated language for added clarity and to improve readability.	Header	Multiple Sections	Measure Lead
Added 'day of' timing to the Qualifying Encounter definition to clarify the timing precision level.	Logic	Initial Population	Measure Lead
Added logic to exclude inpatient hospitalizations for patients with an initial blood glucose result of >=1000 mg/dL that starts any time between 1 hour prior to the start of the encounter to 6 hours after the start of the encounter.	Logic	Denominator Exclusions	Measure Lead
Replaced the numerator definition with a single definition statement for improved readability and to align with CQL Style Guide.	Logic	Numerator	Measure Lead
Replaced the 'count' operator with 'sum' to align with measure intent.	Logic	Measure Observations	Measure Lead
Revised the 'Interval To Day Numbers' function by replacing 'days' with 'duration in days' and changing the alias name of 'DayExpand' to 'DayNumber'.	Logic	Functions	Measure Lead
Replaced the Global.CalendarAgeInYearsAt function with the native CQL function AgeInYearsAt to take advantage of existing CQL features and increase human readability. As a result of this change, the LOINC code 21112-8 is no longer required and has been removed from the Terminology section of the human readable specification.	Logic	Multiple Sections	Standards/Technical 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/Technical Update
Updated the version of the Quality Data Model (QDM) to 5.6 and Clinical Quality Language (CQL) to 1.5.	Logic	Multiple Sections	Standards/Technical Update

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated the version number of the Measure Authoring Tool (MAT) Global Common Functions Library to v7.0.000.	Logic	Multiple Sections	Standards/Technical Update
Replaced value set Glucose lab test (2.16.840.1.113762.1.4.1045.134) with value set Glucose Lab Test Mass Per Volume (2.16.840.1.113762.1.4.1248.34) based on review by technical experts, SMEs, and/or public feedback.	Value Set	Terminology	Measure Lead
Removed direct reference code LOINC code (21112-8) based on review by technical experts, SMEs, and/or public feedback.	Value Set	Terminology	Measure Lead
Value set Diabetes (2.16.840.1.113883.3.464.1003.103.12.1001): Deleted 24 ICD-10-CM codes based on validity of code during timing of look back period.	Value Set	Terminology	Measure Lead
Value set Hypoglycemics Treatment Medications (2.16.840.1.113762.1.4.1196.394): Added 44 RxNorm codes based on terminology update. Deleted 4 RxNorm codes (261243, 1544570, 1544571, 1656705) based on terminology update. Deleted 631 RxNorm codes based on review by technical experts, SMEs, and/or public feedback.	Value Set	Terminology	Measure Lead