

Technical Release Notes:
**2016 Annual Update of 2014 Eligible Hospitals and Eligible Professionals Electronic
Clinical Quality Measures (eCQMs)**

CMS9v5 - Exclusive Breast Milk Feeding

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Copyright.	Header	Copyright	Annual Update
Removed language to related to the PC-05a population which has been removed from the measure.	Header	Denominator	JIRA (CQM-1691)
Removed language to related to the PC-05a population which has been removed from the measure.	Header	Denominator Exclusions	JIRA (CQM-1691)
Removed language to related to the PC-05a population which has been removed from the measure.	Header	Description	JIRA (CQM-1691)
Incremented eMeasure Version number.	Header	eMeasure Version number	Measure Lead
Removed language to related to the PC-05a population which has been removed from the measure.	Header	Guidance	JIRA (CQM-1691)
Added guidance to support calculation of gestational age based on best obstetrical estimated due date (EDD).	Header	Guidance	JIRA (CQM-1897)
Removed unit of measurement language from Guidance. HQMF now has a header field, 'measure item count', where the unit of measurement can be identified in a computable fashion.	Header	Guidance	Measure Lead
Removed language to related to the PC-05a population which has been removed from the measure.	Header	Numerator	JIRA (CQM-1691)
Added new attribute 'diagnosis' to 'Encounter, performed' datatype to conform to QDM 4.2 changes and provide more accurate logic.	Logic	Initial Population	QDM Standards
Introduced the operator 'Intersection of' to condense logic and reduce complexity.	Logic	Initial Population	Measure Lead
Introduced the operator 'Union of' to condense logic and reduce complexity.	Logic	Initial Population	Measure Lead
Replaced datatypes 'Diagnosis, Active; with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Initial Population	QDM Standards
Removed PC-05a population to align with updates to the chart-abstracted measure.	Logic	Measure Population	JIRA (CQM-1691)
Added new attribute 'diagnosis' to 'Encounter, performed' datatype to conform to QDM 4.2 changes and provide more accurate logic.	Logic	QDM Data Elements	QDM Standards
Removed 'Communication: From Patient to Provider: Feeding Intention Breast' using 'Feeding Intention Breast SNOMEDCT Value Set (2.16.849.1.113762.1.4.1045.29). The data element was used in the numerator of PC-05a. The data element is no longer needed as the PC-05a population has been removed from the measure.	Logic	QDM Data Elements	JIRA (CQM-1691)
Replaced datatypes 'Diagnosis, Active; with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards

CMS26v4 - Home Management Plan of Care (HMPC) Document Given to Patient/Caregiver

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Copyright.	Header	Copyright	Annual Update
Revised to reflect logic. Previously, the Denominator stated both the IP and Denominator logic. Revise to reflect only the conditions specified in the denominator.	Header	Denominator	Measure Lead
Incremented eMeasure Version number.	Header	eMeasure Version number	Measure Lead
Removed unit of measurement language from Guidance. HQMF now has a header field, 'measure item count', where the unit of measurement can be identified in a computable fashion.	Header	Guidance	Measure Lead
Introduced the operator 'Intersection of' to condense logic and reduce complexity.	Logic	Initial Population	Measure Lead
Replaced 'Diagnosis, Active: XXX (ordinality: Principal)' datatype with 'Encounter, Performed: XXX (principal diagnosis: XXX)' datatype to conform with QDM 4.2 changes and provide more accurate logic.	Logic	Initial Population	QDM Standards
Added Attribute: 'Principle diagnosis: Asthma' using 'Asthma Grouping Value Set (2.16.840.1.113883.3.117.1.7.1.271)' to conform with QDM 4.2 replacement of 'Diagnosis, Active: XXX (ordinality: Principal)' datatype with 'Encounter, Performed: XXX (principal diagnosis: XXX)'.	Logic	QDM Data Elements	QDM Standards
Value set Asthma (2.16.840.1.113883.3.117.1.7.1.271): Added 42 SNOMEDCT codes and deleted 7 SNOMEDCT codes (233681001, 233685005, 266364000, 427354000, 57546000, 59327009, 91340006).	Value Set		

CMS30v6 - Statin Prescribed at Discharge

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Copyright.	Header	Copyright	Annual Update
Incremented eMeasure Version number.	Header	eMeasure Version number	Measure Lead
Updated Endorsed by to 'None.'	Header	Endorsed By	Measure Lead
Updated NQF Number to 'Not Applicable.'	Header	NQF Number	Measure Lead
Value set Statin Grouper (2.16.840.1.113762.1.4.1110.19): Added Statin Grouper.	Logic	Denominator Exceptions	Measure Lead
Removed the 'Union of' operator from the Initial Population logic as it is no longer needed to meet the measure intent.	Logic	Initial Population	Measure Lead
Removed the Emergency Department (ED) section of logic from the Initial Population as it is not needed to capture the principal diagnosis.	Logic	Initial Population	Measure Lead
Replaced 'Diagnosis, Active: XXX (ordinality: Principal)' datatype with 'Encounter, Performed: XXX (principal diagnosis: XXX)' datatype to conform with QDM 4.2 changes and provide more accurate logic.	Logic	Initial Population	QDM Standards
Value set Statin Grouper (2.16.840.1.113762.1.4.1110.19): Added Statin Grouper.	Logic	Numerator	Measure Lead
Added new attribute 'principal diagnosis' to 'Encounter, performed' datatype to conform to QDM 4.2 changes and provide more accurate logic. Removed QDM data element Attribute: 'Ordinality: Principal' using 'Principal SNOMEDCT Value Set (2.16.840.1.113883.3.1.7.1.14.)' to conform to QDM 4.2. changes and provide more accurate logic.	Logic	QDM Data Elements	QDM Standards
Value set Statin (2.16.840.1.113883.3.117.1.7.1.225): Removed Statin.	Logic	QDM Data Elements	
Value set Statin Grouper (2.16.840.1.113762.1.4.1110.19): Added Statin Grouper.	Logic	QDM Data Elements	
Value set Acute Myocardial Infarction (AMI) (2.16.840.1.113883.3.666.5.3011): Added 9 SNOMEDCT codes (15712841000119100, 15712881000119105, 15712921000119103, 15712961000119108, 15713041000119103, 15713081000119108, 15713121000119105, 15713161000119100, 15713201000119105) and deleted 1 SNOMEDCT code (194798004).	Value Set		
Value set Medical Reason (2.16.840.1.113883.3.117.1.7.1.473): Deleted 1 SNOMEDCT code (161590003).	Value Set		

CMS31v5 - Hearing Screening Prior To Hospital Discharge

Technical Release Notes

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Incremented eMeasure Version number.	Header	eMeasure Version number	Measure Lead
Added 'with hospital stays <= 120 days' during the measure period to be more concise and to align with the logic.	Header	Initial Population	Measure Lead
Updated Reference.	Header	Reference	Measure Lead
Added new attribute 'diagnosis' to 'Encounter, performed' datatype to conform to QDM 4.2 changes and provide more accurate logic.	Logic	Initial Population	QDM Standards
Combined Livebirth to Liveborn Newborn Born in Hospital value set and introduced the operator Intersection of to condense logic and reduce complexity.	Logic	Initial Population	Measure Lead
Replaced datatypes 'Diagnosis, Active; with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Initial Population	QDM Standards
Value set Livebirth (2.16.840.1.114222.4.1.214079.1.1.1): Removed Livebirth.	Logic	Initial Population	
Value set Liveborn Newborn Born in Hospital (2.16.840.1.113762.1.4.1046.6): Renamed Liveborn Newborn Born in Hospital to Live Birth Newborn Born in Hospital.	Logic	Initial Population	
Added new attribute 'diagnosis' to 'Encounter, performed' datatype to conform to QDM 4.2 changes and provide more accurate logic.	Logic	QDM Data Elements	QDM Standards
Replaced datatypes 'Diagnosis, Active; with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Value set Livebirth (2.16.840.1.114222.4.1.214079.1.1.1): Removed Livebirth.	Logic	QDM Data Elements	
Value set Liveborn Newborn Born in Hospital (2.16.840.1.113762.1.4.1046.6): Renamed Liveborn Newborn Born in Hospital to Live Birth Newborn Born in Hospital.	Logic	QDM Data Elements	
Value set Live Birth Newborn Born in Hospital (2.16.840.1.113762.1.4.1046.6): Deleted 18 ICD9CM codes.	Value Set		
Added SNOMEDCT extensional value set (2.16.840.1.114222.4.1.214079.1.1.1) including 24 codes.			
Value set Liveborn Newborn Born in Hospital (2.16.840.1.113762.1.4.1046.6): Renamed Liveborn Newborn Born in Hospital to Live Birth Newborn Born in Hospital.	Value Set		

CMS32v6 - Median Time from ED Arrival to ED Departure for Discharged ED Patients

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Copyright.	Header	Copyright	Annual Update
Incremented eMeasure Version number.	Header	eMeasure Version number	Measure Lead
Replaced emergency department visit attribute:(admission datetime) with (facility location arrival datetime) and (discharge datetime) to (facility location departure datetime) to use timestamps that reflect the arrival and departure date and times for the Emergency Department visit.	Header	Guidance	JIRA (CQM-1645)
Modified the language for the description of the Initial Population to more accurately reflect the timing logic.	Header	Initial Population	JIRA (CQM-1623)
Revised description to include same facility to clarify intent.	Header	Measure Population Exclusion	JIRA (CQM-1499)
Revised Stratum 3 narrative to specifically state this includes patients who do not have a principal diagnosis consistent with mental disorders and who are not transferred.	Header	Stratification	QDM Standards
Replaced operator 'Datetime difference of' with 'Datetimediff' to align with the name of the QDM function.	Logic	Measure Observations	QDM Standards
Removed Emergency Department visit <=6 hour(s) before or concurrent with the start of Inpatient Encounter from Measure Population logic to better align with the measure intent.	Logic	Measure Population	
Added logic to exclude patients with an Emergency Department visit <=1 hour(s) before or concurrent with the start of the Inpatient Encounter in order to meet the intent of the measure.	Logic	Measure Population Exclusions	
Added new attribute 'principal diagnosis' to 'Encounter, performed' datatype to conform to QDM 4.2 changes and provide more accurate logic. Removed QDM data element Attribute: 'Ordinality: Principal' using 'Principal SNOMEDCT Value Set (2.16.840.1.113883.3.1.7.1.14.)' to conform to QDM 4.2. changes and provide more accurate logic.	Logic	QDM Data Elements	QDM Standards
Added 'Occurrence A of' to the Emergency Department Encounter and replaced the AND NOT Union of with AND NOT starting each line of logic.	Logic	Stratification	QDM Standards
Replaced 'Diagnosis, Active: XXX (ordinality: Principal)' datatype with 'Encounter, Performed: XXX (principal diagnosis: XXX)' datatype to conform with QDM 4.2 changes and provide more accurate logic.	Logic	Stratification	QDM Standards
Value set Psychiatric/Mental Health Patient (2.16.840.1.113883.3.117.1.7.1.299): Deleted 477 ICD9CM codes. Added 15 SNOMEDCT codes and deleted 1 SNOMEDCT code (426041005). Added 121 ICD10CM codes and deleted 23 ICD10CM codes.	Value Set		

CMS53v5 - Primary PCI Received Within 90 Minutes of Hospital Arrival

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Copyright.	Header	Copyright	Annual Update
Updated denominator header guidance to include patients in the initial population with an ECG result of acute or evolving MI and a primary PCI procedure that does not start after fibrinolytic therapy.	Header	Denominator	Measure Lead
Updated Denominator Exception criteria to include documented reasons and for consistency across AMI measures.	Header	Denominator Exceptions	Measure Lead
Corrected 'PCI within 30 minutes' to 'PCI within 90 minutes' to align with the logic and intent of the measure.	Header	Denominator Exclusions	Measure Lead
Incremented eMeasure Version number.	Header	eMeasure Version number	Measure Lead
Added a clarifying statement to the current guidance regarding using first to meet the intent of the measure in capturing the primary PCI procedure performed during the inpatient encounter.	Header	Guidance	Measure Lead
Updated the header language to add clarity and conciseness by removing duplicated population explanations from the guidance, and only listing these explanations in the denominator exclusions and denominator exception sections.	Header	Guidance	Measure Lead
Removed ED visit information from the Initial Population section of the header to align with the logic.	Header	Initial Population	Measure Lead
Added 'FIRST' to replace 'Ordinality: Primary Procedure' to capture the first (primary) PCI procedure performed during an inpatient encounter.	Logic	Denominator	JIRA (CQM-1692)
Removed Occurrence A of from Medication Administered: Fibrinolytic Therapy because it is not referenced elsewhere.	Logic	Denominator	Measure Lead
Updated the timing constraint for 'Occurrence A of Encounter, Performed: Emergency Department Visit' by changing 'starts after start' to 'starts during' to capture an ECG during the ED visit.	Logic	Denominator	Measure Lead
Replaced variable name '\$ReasonForNoFibrinolyticTherapy' with '\$ReasonForNoPCI' to align with the measure content.	Logic	Denominator Exceptions	JIRA (CQM-1557)
Extended the temporal operators to 'starts before or concurrent with start of' and 'ends before or concurrent with start of' to provide greater flexibility to hospitals in fulfilling the 'Transfer From' statements.	Logic	Denominator Exclusions	JIRA (CQM-1656)
Removed the 'Union of' operator from the Initial Population logic as it is no longer needed to meet the measure intent.	Logic	Initial Population	Measure Lead
Removed the Emergency Department (ED) section of logic from the Initial Population as it is not needed to capture the principal diagnosis.	Logic	Initial Population	Measure Lead
Replaced 'Diagnosis, Active: XXX (ordinality: Principal)' datatype with 'Encounter, Performed: XXX (principal diagnosis: XXX)' datatype to conform with QDM 4.2 changes and provide more accurate logic.	Logic	Initial Population	QDM Standards
Added new attribute 'principal diagnosis' to 'Encounter, performed' datatype to conform to QDM 4.2 changes and provide more accurate logic. Removed QDM data element Attribute: 'Ordinality: Principal' using 'Principal SNOMEDCT Value Set (2.16.840.1.113883.3.1.7.1.14.)' to conform to QDM 4.2. changes and provide more accurate logic.	Logic	QDM Data Elements	QDM Standards
Replaced datatypes 'Diagnosis, Active; with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Value set Primary Procedure (2.16.840.1.113762.1.4.1111.12): Removed Primary Procedure.	Logic	QDM Data Elements	
Replaced datatypes 'Diagnosis, Active; with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Variables	QDM Standards
Replaced variable name '\$ReasonForNoFibrinolyticTherapy' with '\$ReasonForNoPCI' to align with the measure content.	Logic	QDM Variables	JIRA (CQM-1557)
Value set Acute Myocardial Infarction (AMI) (2.16.840.1.113883.3.666.5.3011): Added 9 SNOMEDCT codes (15712841000119100, 15712881000119105, 15712921000119103, 15712961000119108, 15713041000119103, 15713081000119108, 15713121000119105, 15713161000119100, 15713201000119105) and deleted 1 SNOMEDCT code (194798004).	Value Set		
Value set Acute or Evolving MI (2.16.840.1.113883.3.666.5.3022): Added 9 SNOMEDCT codes (15712841000119100, 15712881000119105, 15712921000119103, 15712961000119108, 15713041000119103, 15713081000119108, 15713121000119105, 15713161000119100, 15713201000119105) and deleted 1 SNOMEDCT code (194798004).	Value Set		
Value set Ambulatory surgical center (2.16.840.1.113883.3.666.5.687): Added 2 SNOMEDCT codes (10531005, 69362002).	Value Set		
Value set Cardiopulmonary arrest (2.16.840.1.113883.3.666.5.748): Added 1 SNOMEDCT code (699748007).	Value Set		
Value set Fibrinolytic Therapy (2.16.840.1.113883.3.666.5.736): Deleted 4 RXNORM codes (238721, 346773, 351449, 562122).	Value Set		
Value set STEMI Exclusions (2.16.840.1.113762.1.4.1045.36): Added 3 SNOMEDCT codes (233835003, 30277009, 57054005).	Value Set		
Value set Ventricular Assist Device placement (2.16.840.1.113883.3.666.5.3015): Deleted 2 SNOMEDCT codes (16965008, 175113001).	Value Set		

CMS55v5 - Median Time from ED Arrival to ED Departure for Admitted ED Patients

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Copyright.	Header	Copyright	Annual Update
Incremented eMeasure Version number.	Header	eMeasure Version number	Measure Lead
Replaced emergency department visit attribute:(admission datetime) with (facility location arrival datetime) and (discharge datetime) to (facility location departure datetime) to use timestamps that reflect the arrival and departure date and times for the Emergency Department visit.	Header	Guidance	JIRA (CQM-1645)
Clarified Initial Population by adding Inpatient Encounters preceded by an emergency department visit (at the same physical facility) to meet measures intent.	Header	Initial Population	JIRA (CQM-1605)
Clarified IP by adding Inpatient Encounters preceded by an emergency department visit (at the same physical facility) to meet measures intent.	Header	Initial Population	JIRA (CQM-1649)
Moved Measure Population definition to the IP definition in order for the strata to work as intended and to align with the logic.	Header	Initial Population	JIRA (CQM-1738)
Replaced emergency department visit attribute:(admission datetime) with (facility location arrival datetime) and (discharge datetime) to (facility location departure datetime) to use timestamps that reflect the arrival and departure date and times for the Emergency Department visit.	Header	Measure Observations	JIRA (CQM-1645)
Moved Measure Population definition to the IP definition in order for the strata to work as intended and to align with the logic.	Header	Measure Population	JIRA (CQM-1738)
Added a definition for the exclusion Transfer from: Hospital Settings.	Header	Measure Population Exclusions	JIRA (CQM-1475)
Replaced emergency department visit attribute:(admission datetime) with (facility location arrival datetime) and (discharge datetime) to (facility location departure datetime) to use timestamps that reflect the arrival and departure date and times for the Emergency Department visit.	Header	Rate Aggregation	JIRA (CQM-1645)
Updated language to clarify that the principal diagnosis consistent with psychiatric/mental health disorders is related to inpatient encounters.	Header	Stratification	Measure Lead
Revised and moved Measure Population logic to the IP definition in order for the strata to work as intended.	Logic	Initial Population	JIRA (CQM-1738)
Replaced emergency department visit attribute:(admission datetime) with (facility location arrival datetime) and (discharge datetime) to (facility location departure datetime) to use timestamps that reflect the arrival and departure date and times for the Emergency Department visit.	Logic	Measure Observations	JIRA (CQM-1645)
Replaced emergency department visit attribute:(admission datetime) with (facility location arrival datetime) and (discharge datetime) to (facility location departure datetime) to use timestamps that reflect the arrival and departure date and times for the Emergency Department visit.	Logic	Measure Observations	JIRA (CQM-1781)
Replaced operator 'Datetime difference of' with 'Datetimediff' to align with the name of the QDM function.	Logic	Measure Observations	QDM Standards
Revised and moved Measure Population logic to the IP definition in order for the strata to work as intended.	Logic	Measure Population	JIRA (CQM-1738)
Added a definition for the exclusion Transfer from: Hospital Settings.	Logic	Measure Population Exclusions	JIRA (CQM-1757)
Added an exclusion of Transfer from: Hospital Settings to meet the measure intent.	Logic	Measure Population Exclusions	JIRA (CQM-1475)
Value set Hospital Settings (2.16.840.1.113762.1.4.1111.126): Added Hospital Settings.	Logic	Measure Population Exclusions	
Added new attribute 'principal diagnosis' to 'Encounter, performed' datatype to conform to QDM 4.2 changes and provide more accurate logic. Removed QDM data element Attribute: 'Ordinality: Principal' using 'Principal SNOMEDCT Value Set (2.16.840.1.113883.3.1.7.1.14.)' to conform to QDM 4.2. changes and provide more accurate logic.	Logic	QDM Data Elements	QDM Standards
Value set Hospital Settings (2.16.840.1.113762.1.4.1111.126): Added Hospital Settings.	Logic	QDM Data Elements	
Changed the logic of the strata to include principal diagnosis with Inpatient Encounter rather than the ED Visit to meet the measure intent.	Logic	Stratification	Measure Lead
Introduced the operator Intersection of to condense logic and reduce complexity.	Logic	Stratification	Measure Lead
Replaced 'Diagnosis, Active: XXX (ordinality: Principal)' datatype with 'Encounter, Performed: XXX (principal diagnosis: XXX)' datatype to conform with QDM 4.2 changes and provide more accurate logic.	Logic	Stratification	QDM Standards
Value set Principal (2.16.840.1.113883.3.117.1.7.1.14): Removed Principal.	Logic	Stratification	
Value set Hospital Settings (2.16.840.1.113762.1.4.1111.126): Added Hospital Settings.	Value Set		
Value set Psychiatric/Mental Health Patient (2.16.840.1.113883.3.117.1.7.1.299): Deleted 477 ICD9CM codes. Added 15 SNOMEDCT codes and deleted 1 SNOMEDCT code (426041005). Added 121 ICD10CM codes and deleted 23 ICD10CM codes.	Value Set		

CMS60v5 - Fibrinolytic Therapy Received Within 30 Minutes of Hospital Arrival

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Copyright.	Header	Copyright	Annual Update
Updated Denominator Exception criteria to include documented reasons and for consistency across AMI measures.	Header	Denominator Exceptions	Measure Lead
Consolidated the Denominator Exclusions header language into one statement for conciseness.	Header	Denominator Exclusions	Measure Lead
Incremented eMeasure Version number.	Header	eMeasure Version number	Measure Lead
Updated the header language to add clarity and conciseness by removing duplicated population explanations from the guidance, and only listing these explanations in the denominator exclusions and denominator exception sections.	Header	Guidance	Measure Lead
Removed ED visit information from the Initial Population section of the header to align with the logic.	Header	Initial Population	Measure Lead
Updated Endorsed by to 'None.'	Header	Endorsed By	Measure Lead
Updated NQF Number to 'Not Applicable.'	Header	NQF Number	Measure Lead
Added occurring to Medication, Administered: Fibrinolytic Therapy to meet the intent of the measure in capturing the first occurrence of fibrinolytic therapy during the inpatient encounter.	Logic	Denominator	JIRA (CQM-1676)
Added occurring to Medication, Administered: Fibrinolytic Therapy to meet the intent of the measure in capturing the first occurrence of fibrinolytic therapy during the inpatient encounter. (see CQM-1676 where this is also addressed).	Logic	Denominator	Harmonization Review
Updated the timing constraint for 'Occurrence A of Encounter, Performed: Emergency Department Visit' by changing 'starts after start' to 'starts during' to capture an ECG during the ED visit.	Logic	Denominator	Measure Lead
Extended the temporal operators to 'starts before or concurrent with start of' and 'ends before or concurrent with start of' to provide greater flexibility to hospitals in fulfilling the 'Transfer From' statements.	Logic	Denominator Exclusions	JIRA (CQM-1656)
Removed the 'Union of' operator from the Initial Population logic as it is no longer needed to meet the measure intent.	Logic	Initial Population	Measure Lead
Removed the Emergency Department (ED) section of logic from the Initial Population as it is not needed to capture the principal diagnosis.	Logic	Initial Population	Measure Lead
Replaced 'Diagnosis, Active: XXX (ordinality: Principal)' datatype with 'Encounter, Performed: XXX (principal diagnosis: XXX)' datatype to conform with QDM 4.2 changes and provide more accurate logic.	Logic	Initial Population	QDM Standards
Updated the timing constraint by adding 'or concurrent with' to 'start of Occurrence A' to meet the measure intent.	Logic	Numerator	JIRA (CQM-1789)
Added new attribute 'principal diagnosis' to 'Encounter, performed' datatype to conform to QDM 4.2 changes and provide more accurate logic. Removed QDM data element Attribute: 'Ordinality: Principal' using 'Principal SNOMEDCT Value Set (2.16.840.1.113883.3.1.7.1.14.)' to conform to QDM 4.2. changes and provide more accurate logic.	Logic	QDM Data Elements	QDM Standards
Replaced datatypes 'Diagnosis, Active; with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Replaced datatypes 'Diagnosis, Active; with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Variables	QDM Standards
Value set Acute Myocardial Infarction (AMI) (2.16.840.1.113883.3.666.5.3011): Added 9 SNOMEDCT codes (15712841000119100, 15712881000119105, 15712921000119103, 15712961000119108, 15713041000119103, 15713081000119108, 15713121000119105, 15713161000119100, 15713201000119105) and deleted 1 SNOMEDCT code (194798004).	Value Set		
Value set Acute or Evolving MI (2.16.840.1.113883.3.666.5.3022): Added 9 SNOMEDCT codes (15712841000119100, 15712881000119105, 15712921000119103, 15712961000119108, 15713041000119103, 15713081000119108, 15713121000119105, 15713161000119100, 15713201000119105) and deleted 1 SNOMEDCT code (194798004).	Value Set		
Value set Ambulatory surgical center (2.16.840.1.113883.3.666.5.687): Added 2 SNOMEDCT codes (10531005, 69362002).	Value Set		
Value set Cardiopulmonary arrest (2.16.840.1.113883.3.666.5.748): Added 1 SNOMEDCT code (699748007).	Value Set		
Value set Fibrinolytic Therapy (2.16.840.1.113883.3.666.5.736): Deleted 4 RXNORM codes (238721, 346773, 351449, 562122).	Value Set		
Value set STEMI Exclusions (2.16.840.1.113762.1.4.1045.36): Added 3 SNOMEDCT codes (233835003, 30277009, 57054005).	Value Set		
Value set Ventricular Assist Device placement (2.16.840.1.113883.3.666.5.3015): Deleted 2 SNOMEDCT codes (16965008, 175113001).	Value Set		

CMS71v6 - Anticoagulation Therapy for Atrial Fibrillation/Flutter

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Copyright.	Header	Copyright	Annual Update
Updated the Denominator header statement to better align with measure logic.	Header	Denominator	Measure Lead
Incremented eMeasure Version number.	Header	eMeasure Version number	Measure Lead
Removed unit of measurement language from Guidance. HQMF now has a header field, 'measure item count', where the unit of measurement can be identified in a computable fashion.	Header	Guidance	Measure Lead
Updated initial population header to harmonize across all stroke measures.	Header	Initial Population	Measure Lead
Update references to align with chart-abstracted measures.	Header	Reference	Chart Abstracted Measures
Added new attribute 'diagnosis' to 'Encounter, performed' datatype to conform to QDM 4.2 changes and provide more accurate logic.	Logic	Denominator	QDM Standards
Replaced datatypes 'Diagnosis, Active; with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Denominator	QDM Standards
Replaced datatypes 'Diagnosis, Inactive'; 'Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Denominator	QDM Standards
Replaced 'Diagnosis, Active: XXX (ordinality: Principal)' datatype with 'Encounter, Performed: XXX (principal diagnosis: XXX)' datatype to conform with QDM 4.2 changes and provide more accurate logic.	Logic	Denominator	QDM Standards
Introduced the operator 'Intersection of' to condense logic and reduce complexity.	Logic	Initial Population	Measure Lead
Replaced 'Diagnosis, Active: XXX (ordinality: Principal)' datatype with 'Encounter, Performed: XXX (principal diagnosis: XXX)' datatype to conform with QDM 4.2 changes and provide more accurate logic.	Logic	Initial Population	QDM Standards
Added new attribute 'diagnosis' to 'Encounter, performed' datatype to conform to QDM 4.2 changes and provide more accurate logic.	Logic	QDM Data Elements	QDM Standards
Added new attribute 'principal diagnosis' to 'Encounter, performed' datatype to conform to QDM 4.2 changes and provide more accurate logic. Removed QDM data element Attribute: 'Ordinality: Principal' using 'Principal SNOMEDCT Value Set (2.16.840.1.113883.3.1.7.1.14.)' to conform to QDM 4.2. changes and provide more accurate logic.	Logic	QDM Data Elements	QDM Standards
Replaced datatypes 'Diagnosis, Active; with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Replaced datatypes 'Diagnosis, Inactive'; 'Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Value set Anticoagulant Therapy (2.16.840.1.113883.3.117.1.7.1.200): Added 2 RXNORM codes (1659195, 1659197) and deleted 18 RXNORM codes.	Value Set		
Value set Ischemic Stroke (2.16.840.1.113883.3.117.1.7.1.247): Added 3 SNOMEDCT codes (230701008, 307363008, 426107000) and deleted 5 SNOMEDCT codes (233964008, 288723005, 300920004, 64586002, 71444005). Deleted 18 ICD10CM codes.	Value Set		
Value set Medical Reason (2.16.840.1.113883.3.117.1.7.1.473): Deleted 1 SNOMEDCT code (161590003).	Value Set		

CMS72v5 - Antithrombotic Therapy By End of Hospital Day 2

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Copyright.	Header	Copyright	Annual Update
Incremented eMeasure Version number.	Header	eMeasure Version number	Measure Lead
Added additional guidance language to clarify intent of the measure.	Header	Guidance	JIRA (CQM-1512)
Removed unit of measurement language from Guidance. HQMF now has a header field, 'measure item count', where the unit of measurement can be identified in a computable fashion.	Header	Guidance	Measure Lead
Updated initial population header to harmonize across all stroke measures.	Header	Initial Population	Measure Lead
Replaced 'Diagnosis, Active: XXX (ordinality: Principal)' datatype with 'Encounter, Performed: XXX (principal diagnosis: XXX)' datatype to conform with QDM 4.2 changes and provide more accurate logic.	Logic	Denominator	QDM Standards
Introduced the operator 'Intersection of' to condense logic and reduce complexity.	Logic	Initial Population	Measure Lead
Replaced 'Diagnosis, Active: XXX (ordinality: Principal)' datatype with 'Encounter, Performed: XXX (principal diagnosis: XXX)' datatype to conform with QDM 4.2 changes and provide more accurate logic.	Logic	Initial Population	QDM Standards
Added new attribute 'principal diagnosis' to 'Encounter, performed' datatype to conform to QDM 4.2 changes and provide more accurate logic. Removed QDM data element Attribute: 'Ordinality: Principal' using 'Principal SNOMEDCT Value Set (2.16.840.1.113883.3.1.7.1.14.)' to conform to QDM 4.2. changes and provide more accurate logic.	Logic	QDM Data Elements	QDM Standards
Value set Antithrombotic Therapy (2.16.840.1.113883.3.117.1.7.1.201): Added 6 RXNORM codes (103863, 1659195, 1659197, 198463, 198464, 198473) and deleted 35 RXNORM codes.	Value Set		JIRA (CQM-1513)
Value set Antithrombotic Therapy (2.16.840.1.113883.3.117.1.7.1.201): Added 6 RXNORM codes (103863, 1659195, 1659197, 198463, 198464, 198473) and deleted 35 RXNORM codes.	Value Set		JIRA (CQM-1830)
Value set Ischemic Stroke (2.16.840.1.113883.3.117.1.7.1.247): Added 3 SNOMEDCT codes (230701008, 307363008, 426107000) and deleted 5 SNOMEDCT codes (233964008, 288723005, 300920004, 64586002, 71444005). Deleted 18 ICD10CM codes.	Value Set		
Value set Medical Reason (2.16.840.1.113883.3.117.1.7.1.473): Deleted 1 SNOMEDCT code (161590003).	Value Set		

CMS73v5 - Venous Thromboembolism Patients with Anticoagulation Overlap Therapy

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Copyright.	Header	Copyright	Annual Update
Revised statement to better align with logic content.	Header	Denominator	JIRA (CQM-1756)
Removed two statements to align with denominator exclusions logic. The related logic is found in the denominator logic, and not the denominator exclusions logic.	Header	Denominator Exclusions	JIRA (CQM-1756)
Incremented eMeasure Version number.	Header	eMeasure Version number	Measure Lead
Added guidance statement to clarify use of 'First' operator for VTE diagnostic test.	Header	Guidance	Measure Lead
Added guidance to clarify threshold used for overlap therapy duration calculation (4 days) vs. Numerator narrative (5 days).	Header	Guidance	JIRA (CQM-1632)
Removed unit of measurement language from Guidance. HQMF now has a header field, 'measure item count', where the unit of measurement can be identified in a computable fashion.	Header	Guidance	Measure Lead
Revised statement to align with initial population statements in other VTE eCQMs.	Header	Initial Population	Measure Lead
Added First operator to diagnostic study, performed, to ensure the first VTE confirmatory test is used throughout the eCQM logic.	Logic	Denominator	Measure Lead
Added new attribute 'diagnosis' to 'Encounter, performed' datatype to conform to QDM 4.2 changes and provide more accurate logic.	Logic	Initial Population	QDM Standards
Introduced the operator 'Intersection of' to condense logic and reduce complexity.	Logic	Initial Population	Measure Lead
Replaced datatypes 'Diagnosis, Active; with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Initial Population	QDM Standards
Reformatted logic surrounding the use of the First operator to clarify its scope of applicability.	Logic	Numerator	JIRA (CQM-1755)
Replaced datatypes 'Diagnosis, Active; with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Numerator	QDM Standards
Added new attribute 'diagnosis' to 'Encounter, performed' datatype to conform to QDM 4.2 changes and provide more accurate logic.	Logic	QDM Data Elements	QDM Standards
Replaced datatypes 'Diagnosis, Active; with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Replaced datatypes 'Diagnosis, Active; with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Variables	QDM Standards
Value set Dabigatran (2.16.840.1.113762.1.4.1110.4): Added 1 RXNORM code (1723476).	Value Set		
Value set Medical Reason (2.16.840.1.113883.3.117.1.7.1.473): Deleted 1 SNOMEDCT code (161590003).	Value Set		
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 (1599543, 1599551, 1599555).	Value Set		
Value set Parenteral Anticoagulant (2.16.840.1.113883.3.117.1.7.1.266): Added 5 RXNORM codes (1658637, 1658717, 1658720, 1659195, 1659197) and deleted 13 RXNORM codes.	Value Set		JIRA (CQM-1482)
Value set Thrombocytopenia (2.16.840.1.113762.1.4.1045.45): Removed ICD9CM extensional value set (2.16.840.1.113762.1.4.1045.44) including 7 codes.	Value Set		
Value set VTE Diagnostic Test (2.16.840.1.113883.3.117.1.7.1.276): Deleted 12 LOINC codes.	Value Set		

CMS91v6 - Thrombolytic Therapy

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Copyright.	Header	Copyright	Annual Update
Added unit of measurement to platelet count because it was missing.	Header	Denominator Exceptions	JIRA (CQM-1538)
Updated criteria in the Denominator Exceptions representing reasons for extending the initiation of IV thrombolytic to align better with the chart-abstracted measure.	Header	Denominator Exceptions	Chart Abstracted Measures
Updated criteria in the Denominator Exceptions representing reasons for extending the initiation of IV thrombolytic to align better with the chart-abstracted measure.	Header	Denominator Exceptions	JIRA (CQM-1332)
Updated Denominator Exceptions header to clarify intent of measure logic.	Header	Denominator Exceptions	JIRA (CQM-1658)
Updated the Denominator Exceptions header statement to better align with measure logic and intent.	Header	Denominator Exceptions	JIRA (CQM-1659)
Incremented eMeasure Version number.	Header	eMeasure Version number	Measure Lead
Added additional guidance to clarify the intent of the Baseline State and Time of Symptom Onset data elements.	Header	Guidance	JIRA (CQM-1637)
Removed unit of measurement language from Guidance. HQMF now has a header field, 'measure item count', where the unit of measurement can be identified in a computable fashion.	Header	Guidance	Measure Lead
Replaced 'Diagnosis, Active: XXX (ordinality: Principal)' datatype with 'Encounter, Performed: XXX (principal diagnosis: XXX)' datatype to conform with QDM 4.2 changes and provide more accurate logic.	Logic	Denominator	QDM Standards
Added unit of measurement to platelet count because it was missing.	Logic	Denominator Exceptions	JIRA (CQM-1538)
Modified 'OR: First: 'Occurrence A of Risk Category Assessment: National Institute of Health Stroke Scale (result = 0)' starts during 'Occurrence A of Encounter, Performed: Emergency Department Visit' in the Denominator Exception logic. Changed logic to read: —OR: —AND: First: Occurrence A of 'Risk Category Assessment: National Institute of Health Stroke Scale' starts during 'Occurrence A of Encounter, Performed: Emergency Department Visit' —AND: Occurrence A of Risk Category Assessment: National Institute of Health Stroke Scale (result=0) This change is to better align with the intent of the measure.	Logic	Denominator Exceptions	Measure Lead
Replace Procedure, Performed: Intravenous Thrombolytic (t-PA) Therapy OID: 2.16.840.1.113762.1.4.1045.15 with Procedure, Performed: Intravenous or Intra-arterial Thrombolytic (t-PA) Therapy OID: 2.16.840.1.113762.1.4.1045.21.	Logic	Denominator Exceptions	Measure Lead
Updated criteria in the Denominator Exceptions representing reasons for extending the initiation of IV thrombolytic to align better with the chart-abstracted measure.	Logic	Denominator Exceptions	Chart Abstracted Measures
Updated criteria in the Denominator Exceptions representing reasons for extending the initiation of IV thrombolytic to align better with the chart-abstracted measure.	Logic	Denominator Exceptions	JIRA (CQM-1332)
Introduced the operator 'Intersection of' to condense logic and reduce complexity.	Logic	Initial Population	Measure Lead
Replaced 'Diagnosis, Active: XXX (ordinality: Principal)' datatype with 'Encounter, Performed: XXX (principal diagnosis: XXX)' datatype to conform with QDM 4.2 changes and provide more accurate logic.	Logic	Initial Population	QDM Standards
Added new attribute 'principal diagnosis' to 'Encounter, performed' datatype to conform to QDM 4.2 changes and provide more accurate logic. Removed QDM data element Attribute: 'Ordinality: Principal' using 'Principal SNOMEDCT Value Set (2.16.840.1.113883.3.1.7.1.14.)' to conform to QDM 4.2. changes and provide more accurate logic.	Logic	QDM Data Elements	QDM Standards
Replace Procedure, Performed: Intravenous Thrombolytic (t-PA) Therapy OID: 2.16.840.1.113762.1.4.1045.15 with Procedure, Performed: Intravenous or Intra-arterial Thrombolytic (t-PA) Therapy OID: 2.16.840.1.113762.1.4.1045.21.	Logic	QDM Data Elements	Measure Lead
Value set IV AntiHypertensives (2.16.840.1.113762.1.4.1110.10): Added IV AntiHypertensives.	Logic	QDM Data Elements	
Value set Ischemic Stroke (2.16.840.1.113883.3.117.1.7.1.247): Added 3 SNOMEDCT codes (230701008, 307363008, 426107000) and deleted 5 SNOMEDCT codes (233964008, 288723005, 300920004, 64586002, 71444005). Deleted 18 ICD10CM codes.	Value Set		
Value set IV AntiHypertensives (2.16.840.1.113762.1.4.1110.10): Added IV AntiHypertensives.	Value Set		
Value set Medical Reason (2.16.840.1.113883.3.117.1.7.1.473): Deleted 1 SNOMEDCT code (161590003).	Value Set		
Value set Partial Thromboplastin Time (2.16.840.1.113762.1.4.1045.25): Added 11 LOINC codes (14979-9, 40100-0, 43734-3, 52123-7, 30323-0, 33890-5, 33891-3, 34189-1, 38276-2, 5946-9, 5950-1).	Value Set		JIRA (CQM-1876)
Value set Partial Thromboplastin Time (2.16.840.1.113762.1.4.1045.25): Added 11 LOINC codes (14979-9, 40100-0, 43734-3, 52123-7, 30323-0, 33890-5, 33891-3, 34189-1, 38276-2, 5946-9, 5950-1).	Value Set		JIRA (CQM-1909)
Value set Prothrombin Time (2.16.840.1.113762.1.4.1045.24): Added 1 LOINC code (5902-2).	Value Set		JIRA (CQM-1824)

CMS100v5 - Aspirin Prescribed at Discharge

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Copyright.	Header	Copyright	Annual Update
Incremented eMeasure Version number.	Header	eMeasure Version number	Measure Lead
Added clarifying guidance for capturing the principal diagnosis to the Initial Population header.	Header	Guidance	Measure Lead
Replaced 'Diagnosis, Active: XXX (ordinality: Principal)' datatype with 'Encounter, Performed: XXX (principal diagnosis: XXX)' datatype to conform with QDM 4.2 changes and provide more accurate logic.	Logic	Denominator	QDM Standards
Replaced the 'Union of' operator from the Initial Population logic as it is no longer needed to meet the measure intent.	Logic	Initial Population	Measure Lead
Removed the Emergency Department (ED) section of logic from the Initial Population as it is not needed to capture the principal diagnosis.	Logic	Initial Population	Measure Lead
Replaced 'Diagnosis, Active: XXX (ordinality: Principal)' datatype with 'Encounter, Performed: XXX (principal diagnosis: XXX)' datatype to conform with QDM 4.2 changes and provide more accurate logic.	Logic	Initial Population	QDM Standards
Added new attribute 'principal diagnosis' to 'Encounter, performed' datatype to conform to QDM 4.2 changes and provide more accurate logic. Removed QDM data element Attribute: 'Ordinality: Principal' using 'Principal SNOMEDCT Value Set (2.16.840.1.113883.3.1.7.1.14.)' to conform to QDM 4.2. changes and provide more accurate logic.	Logic	QDM Data Elements	QDM Standards
Value set Acute Myocardial Infarction (AMI) (2.16.840.1.113883.3.666.5.3011): Added 9 SNOMEDCT codes (15712841000119100, 15712881000119105, 15712921000119103, 15712961000119108, 15713041000119103, 15713081000119108, 15713121000119105, 15713161000119100, 15713201000119105) and deleted 1 SNOMEDCT code (194798004).	Value Set		
Value set Aspirin (2.16.840.1.113883.3.666.5.626): Added 3 RXNORM codes (1593110, 1665356, 1722689) and deleted 24 RXNORM codes.	Value Set		
Value set Aspirin Allergen (2.16.840.1.113883.3.117.1.7.1.139): Added 2 RXNORM codes (1593109, 817958) and deleted 13 RXNORM codes.	Value Set		
Value set Medical Reason (2.16.840.1.113883.3.117.1.7.1.473): Deleted 1 SNOMEDCT code (161590003).	Value Set		
Value set Other Anticoagulants for Acute Myocardial Infarction (AMI) (2.16.840.1.113762.1.4.1045.31): Added 1 RXNORM code (1723476).	Value Set		

CMS102v5 - Assessed for Rehabilitation

Technical Release Notes

Updated Copyright.	Header	Measure Section	Source of Change
Added statement addressing the implicit exclusion of elective carotid intervention patients to align with other STK measures to which this implicit exclusion applies.	Header	Copyright	Annual Update
Incremented eMeasure Version number.	Header	Denominator Exclusions	Measure Lead
Removed unit of measurement language from Guidance. HQMF now has a header field, 'measure item count', where the unit of measurement can be identified in a computable fashion.	Header	eMeasure Version number	Measure Lead
Updated initial population header to harmonize across all stroke measures.	Header	Guidance	Measure Lead
Update references to align with chart-abstracted measures.	Header	Initial Population	Measure Lead
Introduced the operator 'Intersection of' to condense logic and reduce complexity.	Header	Reference	Chart Abstracted Measures
	Logic	Initial Population	Measure Lead
Replaced 'Diagnosis, Active: XXX (ordinality: Principal)' datatype with 'Encounter, Performed: XXX (principal diagnosis: XXX)' datatype to conform with QDM 4.2 changes and provide more accurate logic.	Logic	Initial Population	QDM Standards
Updated criteria in the Numerator representing Medical Reasons for No Rehabilitation Therapy Assessment to better align with the chart-abstracted measure.	Logic	Numerator	JIRA (CQM-1594)
Added new attribute 'principal diagnosis' to 'Encounter, performed' datatype to conform to QDM 4.2 changes and provide more accurate logic. Removed QDM data element Attribute: 'Ordinality: Principal' using 'Principal SNOMEDCT Value Set (2.16.840.1.113883.3.1.7.1.14.)' to conform to QDM 4.2. changes and provide more accurate logic.	Logic	QDM Data Elements	QDM Standards
Value set Ischemic Stroke (2.16.840.1.113883.3.117.1.7.1.247): Added 3 SNOMEDCT codes (230701008, 307363008, 426107000) and deleted 5 SNOMEDCT codes (233964008, 288723005, 300920004, 64586002, 71444005). Deleted 18 ICD10CM codes.	Value Set		
Value set Rehabilitation Assessment (2.16.840.1.113762.1.4.1045.18): Added 9 SNOMEDCT codes (32908001, 385816003, 410155007, 410161005, 410173005, 64374001, 712492003, 77837000, 84478008) and deleted 1 SNOMEDCT code (410427003).	Value Set		
Value set Rehabilitation Therapy (2.16.840.1.113762.1.4.1045.19): Added 4 SNOMEDCT codes (229315006, 28150003, 302259009, 306173009).	Value Set		

CMS104v5 - Discharged on Antithrombotic Therapy

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Copyright.	Header	Copyright	Annual Update
Incremented eMeasure Version number.	Header	eMeasure Version number	Measure Lead
Removed unit of measurement language from Guidance. HQMF now has a header field, 'measure item count', where the unit of measurement can be identified in a computable fashion.	Header	Guidance	Measure Lead
Updated initial population header to harmonize across all stroke measures.	Header	Initial Population	Measure Lead
Update references to align with chart-abstracted measures.	Header	Reference	Chart Abstracted Measures
Replaced 'Diagnosis, Active: XXX (ordinality: Principal)' datatype with 'Encounter, Performed: XXX (principal diagnosis: XXX)' datatype to conform with QDM 4.2 changes and provide more accurate logic.	Logic	Denominator	QDM Standards
Introduced the operator 'Intersection of' to condense logic and reduce complexity.	Logic	Initial Population	Measure Lead
Replaced 'Diagnosis, Active: XXX (ordinality: Principal)' datatype with 'Encounter, Performed: XXX (principal diagnosis: XXX)' datatype to conform with QDM 4.2 changes and provide more accurate logic.	Logic	Initial Population	QDM Standards
Added new attribute 'principal diagnosis' to 'Encounter, performed' datatype to conform to QDM 4.2 changes and provide more accurate logic. Removed QDM data element Attribute: 'Ordinality: Principal' using 'Principal SNOMEDCT Value Set (2.16.840.1.113883.3.1.7.1.14.)' to conform to QDM 4.2. changes and provide more accurate logic.	Logic	QDM Data Elements	QDM Standards
Value set Antithrombotic Therapy (2.16.840.1.113883.3.117.1.7.1.201): Added 6 RXNORM codes (103863, 1659195, 1659197, 198463, 198464, 198473) and deleted 35 RXNORM codes.	Value Set		JIRA (CQM-1513)
Value set Antithrombotic Therapy (2.16.840.1.113883.3.117.1.7.1.201): Added 6 RXNORM codes (103863, 1659195, 1659197, 198463, 198464, 198473) and deleted 35 RXNORM codes.	Value Set		JIRA (CQM-1830)
Value set Ischemic Stroke (2.16.840.1.113883.3.117.1.7.1.247): Added 3 SNOMEDCT codes (230701008, 307363008, 426107000) and deleted 5 SNOMEDCT codes (233964008, 288723005, 300920004, 64586002, 71444005). Deleted 18 ICD10CM codes.	Value Set		
Value set Medical Reason (2.16.840.1.113883.3.117.1.7.1.473): Deleted 1 SNOMEDCT code (161590003).	Value Set		

CMS105v5 - Discharged on Statin Medication

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Copyright.	Header	Copyright	Annual Update
Incremented eMeasure Version number.	Header	eMeasure Version number	Measure Lead
Removed unit of measurement language from Guidance. HQMF now has a header field, 'measure item count', where the unit of measurement can be identified in a computable fashion.	Header	Guidance	Measure Lead
Updated initial population header to harmonize across all stroke measures.	Header	Initial Population	Measure Lead
Update references to align with chart-abstracted measures.	Header	Reference	Chart Abstracted Measures
Replaced 'Diagnosis, Active: XXX (ordinality: Principal)' datatype with 'Encounter, Performed: XXX (principal diagnosis: XXX)' datatype to conform with QDM 4.2 changes and provide more accurate logic.	Logic	Denominator	QDM Standards
Updated denominator exclusion logic by removing occurrence of Laboratory Test, Performed because it is not needed since this lab is not referenced elsewhere in the logic. Added occurrence of \$EncounterInpatientNonElective since it was missing to ensure the same instance of the encounter is referenced.	Logic	Denominator Exclusions	Measure Lead
Introduced the operator 'Intersection of' to condense logic and reduce complexity.	Logic	Initial Population	Measure Lead
Replaced 'Diagnosis, Active: XXX (ordinality: Principal)' datatype with 'Encounter, Performed: XXX (principal diagnosis: XXX)' datatype to conform with QDM 4.2 changes and provide more accurate logic.	Logic	Initial Population	QDM Standards
Value Set Statin (2.16.840.1.113883.3.117.1.7.1.225) is replaced by Statin Grouper (2.16.840.1.113762.1.4.1110.19). This is a harmonization effort across measures, in which the statin medications are modularized into different intensity value sets. For this measure, we need all of the medications, so the modularized value sets have been grouped together in this new value set.	Logic	Numerator	Measure Lead
Added new attribute 'principal diagnosis' to 'Encounter, performed' datatype to conform to QDM 4.2 changes and provide more accurate logic. Removed QDM data element Attribute: 'Ordinality: Principal' using 'Principal SNOMEDCT Value Set (2.16.840.1.113883.3.1.7.1.14.)' to conform to QDM 4.2. changes and provide more accurate logic.	Logic	QDM Data Elements	QDM Standards
Value set Ischemic Stroke (2.16.840.1.113883.3.117.1.7.1.247): Added 3 SNOMEDCT codes (230701008, 307363008, 426107000) and deleted 5 SNOMEDCT codes (233964008, 288723005, 300920004, 64586002, 71444005). Deleted 18 ICD10CM codes.	Value Set		
Value set Medical Reason (2.16.840.1.113883.3.117.1.7.1.473): Deleted 1 SNOMEDCT code (161590003).	Value Set		
Value Set Statin (2.16.840.1.113883.3.117.1.7.1.225) is replaced by Statin Grouper (2.16.840.1.113762.1.4.1110.19). This is a harmonization effort across measures, in which the statin medications are modularized into different intensity value sets. For this measure, we need all of the medications, so the modularized value sets have been grouped together in this new value set.	Value Set		

CMS107v5 - Stroke Education

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Copyright.	Header	Copyright	Annual Update
Incremented eMeasure Version number.	Header	eMeasure Version number	Measure Lead
Removed unit of measurement language from Guidance. HQMF now has a header field, 'measure item count', where the unit of measurement can be identified in a computable fashion.	Header	Guidance	Measure Lead
Updated initial population header to harmonize across all stroke measures.	Header	Initial Population	Measure Lead
Introduced the operator 'Intersection of' to condense logic and reduce complexity.	Logic	Initial Population	Measure Lead
Replaced 'Diagnosis, Active: XXX (ordinality: Principal)' datatype with 'Encounter, Performed: XXX (principal diagnosis: XXX)' datatype to conform with QDM 4.2 changes and provide more accurate logic.	Logic	Initial Population	QDM Standards
Added new attribute 'principal diagnosis' to 'Encounter, performed' datatype to conform to QDM 4.2 changes and provide more accurate logic. Removed QDM data element Attribute: 'Ordinality: Principal' using 'Principal SNOMEDCT Value Set (2.16.840.1.113883.3.1.7.1.14.)' to conform to QDM 4.2. changes and provide more accurate logic.	Logic	QDM Data Elements	QDM Standards
Value set Instructions for Follow Up After Discharge (2.16.840.1.113883.3.117.1.7.1.378): Added 1 SNOMEDCT code (183616001) and deleted 1 SNOMEDCT code (61342007).	Value Set		
Value set Ischemic Stroke (2.16.840.1.113883.3.117.1.7.1.247): Added 3 SNOMEDCT codes (230701008, 307363008, 426107000) and deleted 5 SNOMEDCT codes (233964008, 288723005, 300920004, 64586002, 71444005). Deleted 18 ICD10CM codes.	Value Set		

CMS108v5 - Venous Thromboembolism Prophylaxis

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Copyright.	Header	Copyright	Annual Update
Incremented eMeasure Version number.	Header	eMeasure Version number	Measure Lead
Removed guidance related to the intent of the logic related to IV heparin. This guidance is no longer needed due to updates to the content of the unfractionated heparin value set.	Header	Guidance	Measure Lead
Removed unit of measurement language from Guidance. HQMF now has a header field, 'measure item count', where the unit of measurement can be identified in a computable fashion.	Header	Guidance	Measure Lead
Replaced 'Diagnosis, Active: XXX (ordinality: Principal)' datatype with 'Encounter, Performed: XXX (principal diagnosis: XXX)' datatype to conform with QDM 4.2 changes and provide more accurate logic.	Logic	Denominator Exclusions	QDM Standards
Replaced Mental Disorders value set (OID 2.16.840.1.113883.3.117.1.7.1.262) with Mental Health Diagnoses value set (OID 2.16.840.1.113883.3.464.1003.105.12.1004) to harmonize across measures.	Logic	Denominator Exclusions	Harmonization Review
Added logic to expand allowable timing for VTE and obstetrics diagnoses to the ED visit. This allows patients who are diagnosed with a VTE or obstetrics diagnosed in the ED to be excluded from the initial population.	Logic	Initial Population	JIRA (CQM-581)
Added new attribute 'diagnosis' to 'Encounter, performed' datatype to conform to QDM 4.2 changes and provide more accurate logic.	Logic	Initial Population	QDM Standards
Introduced the operator 'Intersection of' to condense logic and reduce complexity.	Logic	Initial Population	Measure Lead
Added new attribute 'diagnosis' to 'Encounter, performed' datatype to conform to QDM 4.2 changes and provide more accurate logic.	Logic	Numerator	QDM Standards
Replaced datatypes 'Diagnosis, Inactive'; 'Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Numerator	QDM Standards
Added new attribute 'diagnosis' to 'Encounter, performed' datatype to conform to QDM 4.2 changes and provide more accurate logic.	Logic	QDM Data Elements	QDM Standards
Added new attribute 'principal diagnosis' to 'Encounter, performed' datatype to conform to QDM 4.2 changes and provide more accurate logic. Removed QDM data element Attribute: 'Ordinality: Principal' using 'Principal SNOMEDCT Value Set (2.16.840.1.113883.3.1.7.1.14.)' to conform to QDM 4.2. changes and provide more accurate logic.	Logic	QDM Data Elements	QDM Standards
Replaced datatypes 'Diagnosis, Active; with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Replaced datatypes 'Diagnosis, Inactive'; 'Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Value set Mental Disorders (2.16.840.1.113883.3.117.1.7.1.262): Removed Mental Disorders.	Logic	QDM Data Elements	Harmonization Review
Value set Mental Health Diagnoses (2.16.840.1.113883.3.464.1003.105.12.1004): Added Mental Health Diagnoses.	Logic	QDM Data Elements	Harmonization Review
Replaced datatypes 'Diagnosis, Active; with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Variables	QDM Standards
Value set Direct Thrombin Inhibitor (2.16.840.1.113883.3.117.1.7.1.205): Deleted 1 RXNORM code (200322).	Value Set		
Value set General or Neuraxial Anesthesia (2.16.840.1.113883.3.666.5.1743): Added 3 SNOMEDCT codes (50697003, 74527005, 82776005).	Value Set		
Value set General Surgery (2.16.840.1.113883.3.117.1.7.1.255): Removed ICD9CM extensional value set (2.16.840.1.113883.3.117.1.7.1.362) including 214 codes.	Value Set		
Value set Gynecological Surgery (2.16.840.1.113883.3.117.1.7.1.257): Removed ICD9CM extensional value set (2.16.840.1.113883.3.117.1.7.1.312) including 21 codes.	Value Set		
Value set Hip Fracture Surgery (2.16.840.1.113883.3.117.1.7.1.258): Removed ICD9CM extensional value set (2.16.840.1.113883.3.117.1.7.1.324) including 1 code.	Value Set		
Value set Hip Replacement Surgery (2.16.840.1.113883.3.117.1.7.1.259): Removed ICD9CM extensional value set (2.16.840.1.113883.3.117.1.7.1.320) including 11 codes.	Value Set		
Value set Injectable Factor Xa Inhibitor for VTE Prophylaxis (2.16.840.1.113883.3.117.1.7.1.211): Deleted 2 RXNORM codes (349308, 545076).	Value Set		
Value set Intermittent pneumatic compression devices (IPC) (2.16.840.1.113883.3.117.1.7.1.214): Added 2 SNOMEDCT codes (469317002, 469365001).	Value Set		
Value set Intracranial Neurosurgery (2.16.840.1.113883.3.117.1.7.1.260): Removed ICD9CM extensional value set (2.16.840.1.113883.3.117.1.7.1.345) including 13 codes.	Value Set		
Value set Ischemic Stroke (2.16.840.1.113883.3.117.1.7.1.247): Added 3 SNOMEDCT codes (230701008, 307363008, 426107000) and deleted 5 SNOMEDCT codes (233964008, 288723005, 300920004, 64586002, 71444005). Deleted 18 ICD10CM codes.	Value Set		
Value set Knee Replacement Surgery (2.16.840.1.113883.3.117.1.7.1.261): Removed ICD9CM extensional value set (2.16.840.1.113883.3.117.1.7.1.316) including 7 codes.	Value Set		
Value set Low Dose Unfractionated Heparin for VTE Prophylaxis (2.16.840.1.113762.1.4.1045.39): Added 4 RXNORM codes (1658634, 1658637, 1659260, 1659263) and deleted 2 RXNORM codes (1361568, 1362837).	Value Set		
Value set Low Molecular Weight Heparin for VTE Prophylaxis (2.16.840.1.113883.3.117.1.7.1.219): Deleted 3 RXNORM codes (854258, 978717, 978761).	Value Set		
Value set Medical Reason (2.16.840.1.113883.3.117.1.7.1.473): Deleted 1 SNOMEDCT code (161590003).	Value Set		
Value set Obstetrics (2.16.840.1.113883.3.117.1.7.1.263): Deleted 5 SNOMEDCT codes (200015003, 200016002, 200026009, 308551004, 405235009). Removed ICD9CM extensional value set (2.16.840.1.113883.3.117.1.7.1.272) including 828 codes.	Value Set		
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 (1599543, 1599551, 1599555).	Value Set		
Value set Unfractionated Heparin (2.16.840.1.113883.3.117.1.7.1.218): Added 4 RXNORM codes (1658717, 1658720, 1659195, 1659197) and deleted 9 RXNORM codes (1361048, 1361226, 1361568, 1361574, 1361577, 1361613, 1361615, 1362831, 1362837).	Value Set		
Value set Urological Surgery (2.16.840.1.113883.3.117.1.7.1.272): Removed ICD9CM extensional value set (2.16.840.1.113883.3.117.1.7.1.332) including 31 codes.	Value Set		

CMS109v5 - Venous Thromboembolism Patients Receiving Unfractionated Heparin with Dosages/Platelet Count Monitoring by Protocol or Nomogram

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Copyright.	Header	Copyright	Annual Update
Incremented eMeasure Version number.	Header	eMeasure Version number	Measure Lead
Removed guidance related to the intent of the logic related to IV heparin. This guidance is no longer needed due to updates to the content of the unfractionated heparin value set.	Header	Guidance	Measure Lead
Removed unit of measurement language from Guidance. HQMF now has a header field, 'measure item count', where the unit of measurement can be identified in a computable fashion.	Header	Guidance	Measure Lead
Added new attribute 'diagnosis' to 'Encounter, performed' datatype to conform to QDM 4.2 changes and provide more accurate logic.	Logic	Initial Population	QDM Standards
Introduced the operator 'Intersection of' to condense logic and reduce complexity.	Logic	Initial Population	Measure Lead
Replaced datatypes 'Diagnosis, Active; with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Initial Population	QDM Standards
Added new attribute 'diagnosis' to 'Encounter, performed' datatype to conform to QDM 4.2 changes and provide more accurate logic.	Logic	QDM Data Elements	QDM Standards
Replaced datatypes 'Diagnosis, Active; with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Replaced datatypes 'Diagnosis, Active; with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Variables	QDM Standards
Value set Unfractionated Heparin (2.16.840.1.113883.3.117.1.7.1.218): Added 4 RXNORM codes (1658717, 1658720, 1659195, 1659197) and deleted 9 RXNORM codes (1361048, 1361226, 1361568, 1361574, 1361577, 1361613, 1361615, 1362831, 1362837).	Value Set		JIRA (QDM-1582)
Value set Unfractionated Heparin (2.16.840.1.113883.3.117.1.7.1.218): Added 4 RXNORM codes (1658717, 1658720, 1659195, 1659197) and deleted 9 RXNORM codes (1361048, 1361226, 1361568, 1361574, 1361577, 1361613, 1361615, 1362831, 1362837).	Value Set		JIRA (QDM-1697)
Value set Unfractionated Heparin (2.16.840.1.113883.3.117.1.7.1.218): Added 4 RXNORM codes (1658717, 1658720, 1659195, 1659197) and deleted 9 RXNORM codes (1361048, 1361226, 1361568, 1361574, 1361577, 1361613, 1361615, 1362831, 1362837).	Value Set		JIRA (QDM-1771)
Value set VTE Diagnostic Test (2.16.840.1.113883.3.117.1.7.1.276): Deleted 12 LOINC codes.	Value Set		Measure Lead

CMS110v5 - Venous Thromboembolism Discharge Instructions

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Copyright.	Header	Copyright	Annual Update
Incremented eMeasure Version number.	Header	eMeasure Version number	Measure Lead
Added guidance regarding granularity of data capture in the EHR vs. Elements defined in the eCQM logic.	Header	Guidance	JIRA (CQM-1693)
Removed unit of measurement language from Guidance. HQMF now has a header field, 'measure item count', where the unit of measurement can be identified in a computable fashion.	Header	Guidance	Measure Lead
Revised numerator statement to better align with logic.	Header	Numerator	JIRA (CQM-1693)
Added missing Occurrence A for \$EncounterInpatient variable.	Logic	Denominator	Measure Lead
Added new attribute 'diagnosis' to 'Encounter, performed' datatype to conform to QDM 4.2 changes and provide more accurate logic.	Logic	Initial Population	QDM Standards
Introduced the operator 'Intersection of' to condense logic and reduce complexity.	Logic	Initial Population	Measure Lead
Replaced datatypes 'Diagnosis, Active; with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Initial Population	QDM Standards
Added new attribute 'diagnosis' to 'Encounter, performed' datatype to conform to QDM 4.2 changes and provide more accurate logic.	Logic	QDM Data Elements	QDM Standards
Replaced datatypes 'Diagnosis, Active; with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Replaced datatypes 'Diagnosis, Active; with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Variables	QDM Standards
Value set VTE Diagnostic Test (2.16.840.1.113883.3.117.1.7.1.276): Deleted 12 LOINC codes.	Value Set		

CMS111v5 - Median Admit Decision Time to ED Departure Time for Admitted Patients

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Copyright.	Header	Copyright	Annual Update
Incremented eMeasure Version number.	Header	eMeasure Version number	Measure Lead
Replaced emergency department visit attribute:(admission datetime) with (facility location arrival datetime) and (discharge datetime) to (facility location departure datetime) to use timestamps that reflect the arrival and departure date and times for the Emergency Department visit.	Header	Guidance	JIRA (CQM-1645)
Clarified Initial Population by adding Inpatient Encounters preceded by an emergency department visit (at the same physical facility) to meet measures intent.	Header	Initial Population	JIRA (CQM-1649)
Clarified Initial Population by adding Inpatient Encounters preceded by an emergency department visit (at the same physical facility) to meet measures intent.	Header	Initial Population	JIRA (CQM-1605)
Moved Measure Population definition to the IP definition in order for the strata to work as intended and to align with the logic.	Header	Initial Population	JIRA (CQM-1738)
Replaced emergency department visit attribute:(admission datetime) with (facility location arrival datetime) and (discharge datetime) to (facility location departure datetime) to use timestamps that reflect the arrival and departure date and times for the Emergency Department visit.	Header	Measure Observations	JIRA (CQM-1645)
Moved Measure Population definition to the IP definition in order for the strata to work as intended and to align with the logic.	Header	Measure Population	JIRA (CQM-1738)
Added a definition for the exclusion Transfer from: Hospital Settings.	Header	Measure Population Exclusions	JIRA (CQM-1475)
Added a definition for the exclusion Transfer from: Hospital Settings.	Header	Measure Population Exclusions	JIRA (CQM-1757)
Replaced emergency department visit attribute:(admission datetime) with (facility location arrival datetime) and (discharge datetime) to (facility location departure datetime) to use timestamps that reflect the arrival and departure date and times for the Emergency Department visit.	Header	Rate Aggregation	JIRA (CQM-1645)
Updated language to clarify that the principal diagnosis consistent with psychiatric/mental health disorders is related to inpatient encounters.	Header	Stratification	Measure Lead
Revised and moved Measure Population logic to the IP definition in order for the strata to work as intended.	Logic	Initial Population	JIRA (CQM-1738)
Replaced emergency department visit attribute:(admission datetime) with (facility location arrival datetime) and (discharge datetime) to (facility location departure datetime) to use timestamps that reflect the arrival and departure date and times for the Emergency Department visit.	Logic	Measure Observations	JIRA (CQM-1645)
Replaced operator 'Datetime difference of' with 'Datetimediff' to align with the name of the QDM function.	Logic	Measure Observations	QDM Standards
Revised and moved Measure Population logic to the IP definition in order for the strata to work as intended.	Logic	Measure Population	JIRA (CQM-1738)
Added an exclusion of Transfer from: Hospital Settings to meet the measure intent.	Logic	Measure Population Exclusions	JIRA (CQM-1475)
Added an exclusion of Transfer from: Hospital Settings to meet the measure intent.	Logic	Measure Population Exclusions	JIRA (CQM-1757)
Value set Hospital Settings (2.16.840.1.113762.1.4.1111.126): Added Hospital Settings.	Logic	Measure Population Exclusions	
Added new attribute 'principal diagnosis' to 'Encounter, performed' datatype to conform to QDM 4.2 changes and provide more accurate logic. Removed QDM data element Attribute: 'Ordinality: Principal' using 'Principal SNOMEDCT Value Set (2.16.840.1.113883.3.1.7.1.14.)' to conform to QDM 4.2. changes and provide more accurate logic.	Logic	QDM Data Elements	QDM Standards
Value set Hospital Settings (2.16.840.1.113762.1.4.1111.126): Added Hospital Settings.	Logic	QDM Data Elements	
Changed the logic of the strata to include principal diagnosis with Inpatient Encounter rather than the ED Visit to meet the measure intent.	Logic	Stratification	Measure Lead
Introduced the operator Intersection of to condense logic and reduce complexity.	Logic	Stratification	Measure Lead
Replaced 'Diagnosis, Active: XXX (ordinality: Principal)' datatype with 'Encounter, Performed: XXX (principal diagnosis: XXX)' datatype to conform with QDM 4.2 changes and provide more accurate logic.	Logic	Stratification	QDM Standards
Value set Principal (2.16.840.1.113883.3.117.1.7.1.14): Removed Principal.	Logic	Stratification	QDM Standards
Value set Hospital Settings (2.16.840.1.113762.1.4.1111.126): Added Hospital Settings.	Value Set		
Value set Psychiatric/Mental Health Patient (2.16.840.1.113883.3.117.1.7.1.299): Deleted 477 ICD9CM codes. Added 15 SNOMEDCT codes and deleted 1 SNOMEDCT code (426041005). Added 121 ICD10CM codes and deleted 23 ICD10CM codes.	Value Set		

CMS113v5 - Elective Delivery

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Copyright.	Header	Copyright	Annual Update
Incremented eMeasure Version number.	Header	eMeasure Version number	Measure Lead
Added guidance to support calculation of gestational age based on best obstetrical estimated due date (EDD).	Header	Guidance	JIRA (CQM-1897)
Removed unit of measurement language from Guidance. HQMF now has a header field, 'measure item count', where the unit of measurement can be identified in a computable fashion.	Header	Guidance	Measure Lead
Replaced datatypes 'Diagnosis, Active; with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Data Criteria	QDM Standards
Added new attribute 'diagnosis' to 'Encounter, performed' datatype to conform to QDM 4.2 changes and provide more accurate logic.	Logic	Denominator Exclusions	QDM Standards
Replaced datatypes 'Diagnosis, Active; with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Denominator Exclusions	QDM Standards
Removed ICD-9-CM stand-alone value sets for which the existing ICD-10-PCS value set addresses the same concept.	Logic	Initial Population	JIRA (CQM-1639)
Added 2 in-line comments to identify logic representing: - Cesarean birth while not in labor and no history of prior uterine surgery - medical induction of labor while not in labor.	Logic	Numerator	Measure Lead
Replaced datatypes 'Diagnosis, Active; with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Numerator	QDM Standards
Where appropriate, added ICD10 codes and created grouping value sets including both SNOMEDCT and ICD10CM or ICD10PCS representations of numerator conditions, including Perforation of Uterus, Uterine Rupture, Cornual Ectopic Pregnancy, and Transabdominal Cerclage.	Logic	Numerator	
Removed the ICD-9 Value Set from the 'Cesarean Birth Grouping Value Set (2.16.840.1.113883.3.117.1.7.1.282)'. Added new attribute 'diagnosis' to 'Encounter, performed' datatype to conform to QDM 4.2 changes and provide more accurate logic.	Logic	QDM Data Elements	Measure Lead
Removed ICD-9-CM stand-alone value sets for which the existing ICD-10-PCS value set addresses the same concept.	Logic	QDM Data Elements	QDM Standards
Replaced datatypes 'Diagnosis, Active; with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	JIRA (CQM-1639)
Removed the ICD-9-CM Value Set from the 'Cesarean Birth Grouping Value Set (2.16.840.1.113883.3.117.1.7.1.282)'. Value set Cesarean Birth (2.16.840.1.113883.3.117.1.7.1.282): Removed ICD9CM extensional value set (2.16.840.1.113883.3.117.1.7.1.368) including 5 codes and added 2 SNOMEDCT codes (450483001, 450484007).	Value Set	QDM Data Elements	QDM Standards
Value set Classical Cesarean Birth (2.16.840.1.113883.3.117.1.7.1.421): Removed ICD9CM extensional value set (2.16.840.1.113883.3.117.1.7.1.420) including 1 code.	Value Set	QDM Data Elements	
Value set Conditions Possibly Justifying Elective Delivery Prior to 39 Weeks Gestation (2.16.840.1.113883.3.117.1.7.1.286): Deleted 1 SNOMEDCT code (308551004).	Value Set	QDM Data Elements	
Value Set Cornual Ectopic Pregnancy: created grouping value set (2.16.840.1.113762.1.4.1110.12) and added 1 ICD-10-CM code (O00.8).	Value Set	QDM Data Elements	
Value set Dinoprostone (2.16.840.1.113762.1.4.1045.56): Added 2 RXNORM codes (309922, 597957) and deleted 1 RXNORM code (197619).	Value Set	QDM Data Elements	
Value set Oxytocin (2.16.840.1.113762.1.4.1045.55): Deleted 1 RXNORM code (1249598).	Value Set	QDM Data Elements	
Value Set Perforation of Uterus: Created grouping value set (2.16.840.1.113762.1.4.1110.14) and added 1 ICD-10-CM code (O71.81).	Value Set	QDM Data Elements	
Value Set Transabdominal Cerclage: Created grouping value set (2.16.840.1.113762.1.4.1110.18) and added 13 ICD-10-PCS codes.	Value Set	QDM Data Elements	
Value Set Uterine Rupture: Created grouping value set (2.16.840.1.113762.1.4.1110.16) and added 4 ICD-10-CM codes (O71.00, O71.02, O71.03, O71.1).	Value Set	QDM Data Elements	

CMS114v5 - Incidence of Potentially-Preventable Venous Thromboembolism

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Copyright.	Header	Copyright	Annual Update
Incremented eMeasure Version number.	Header	eMeasure Version number	Measure Lead
Added guidance statement to clarify use of 'First' operator for VTE diagnostic test.	Header	Guidance	Measure Lead
Removed unit of measurement language from Guidance. HQMF now has a header field, 'measure item count', where the unit of measurement can be identified in a computable fashion.	Header	Guidance	Measure Lead
Replaced datatypes 'Diagnosis, Active; with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Denominator Exclusions	QDM Standards
Added new attribute 'diagnosis' to 'Encounter, performed' datatype to conform to QDM 4.2 changes and provide more accurate logic.	Logic	Initial Population	QDM Standards
Introduced the operator 'Intersection of' to condense logic and reduce complexity.	Logic	Initial Population	Measure Lead
Introduced the operator 'Union of' to condense logic and reduce complexity.	Logic	Initial Population	Measure Lead
Replaced datatypes 'Diagnosis, Active; with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Initial Population	QDM Standards
Replaced 'Diagnosis, Active: XXX (ordinality: Principal)' datatype with 'Encounter, Performed: XXX (principal diagnosis: XXX)' datatype to conform with QDM 4.2 changes and provide more accurate logic.	Logic	Initial Population	QDM Standards
Added new attribute 'diagnosis' to 'Encounter, performed' datatype to conform to QDM 4.2 changes and provide more accurate logic.	Logic	QDM Data Elements	QDM Standards
Added new attribute 'principal diagnosis' to 'Encounter, performed' datatype to conform to QDM 4.2 changes and provide more accurate logic. Removed QDM data element Attribute: 'Ordinality: Principal' using 'Principal SNOMEDCT Value Set (2.16.840.1.113883.3.1.7.1.14.)' to conform to QDM 4.2. changes and provide more accurate logic.	Logic	QDM Data Elements	QDM Standards
Replaced datatypes 'Diagnosis, Active; with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Replaced datatypes 'Diagnosis, Active; with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Variables	QDM Standards
Value set Injectable Factor Xa Inhibitor for VTE Prophylaxis (2.16.840.1.113883.3.117.1.7.1.211): Deleted 2 RXNORM codes (349308, 545076).	Value Set		
Value set Intermittent pneumatic compression devices (IPC) (2.16.840.1.113883.3.117.1.7.1.214): Added 2 SNOMEDCT codes (469317002, 469365001).	Value Set		
Value set Low Dose Unfractionated Heparin for VTE Prophylaxis (2.16.840.1.113762.1.4.1045.39): Added 4 RXNORM codes (1658634, 1658637, 1659260, 1659263) and deleted 2 RXNORM codes (1361568, 1362837).	Value Set		
Value set Low Molecular Weight Heparin for VTE Prophylaxis (2.16.840.1.113883.3.117.1.7.1.219): Deleted 3 RXNORM codes (854258, 978717, 978761).	Value Set		
Value set Medical Contraindication (2.16.840.1.113883.3.117.1.7.1.412): Deleted 1 SNOMEDCT code (161590003).	Value Set		
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 (1599543, 1599551, 1599555).	Value Set		
Value set VTE Diagnostic Test (2.16.840.1.113883.3.117.1.7.1.276): Deleted 12 LOINC codes.	Value Set		

CMS171v6 - Prophylactic Antibiotic Received Within One Hour Prior to Surgical Incision

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Copyright.	Header	Copyright	Annual Update
Replaced the word spinal with neuraxial anesthesia to align with value set name.	Header	Denominator Exclusions	Measure Lead
Incremented eMeasure Version number.	Header	eMeasure Version number	Measure Lead
Removed definition of reporting period as reporting periods can change.	Header	Guidance	Measure Lead
Added logic to link the selected surgery to the Occurrence A of the anesthesia episode in each population's denominator exclusion. An example from Population 1, the CABG surgery: AND: 'Occurrence A of Procedure, Performed: CABG Surgeries' during 'Occurrence A of Procedure, Performed: General or Neuraxial Anesthesia'.	Logic	Denominator Exceptions	QDM Standards
Removed attribute from variable \$EncounterInpatient' in all denominator exclusions. Logic originally written like this: —Occurrence \$EncounterInpatient (principal diagnosis: Any infection) —'Occurrence A of Diagnosis, Active: Any infection (ordinality: Principal)' during Occurrence A of \$EncounterInpatient	Logic	Denominator Exclusions	Measure Lead
has been revised to the following: OR: Intersection of: —Occurrence A of \$EncounterInpatient —'Encounter, Performed: Encounter Inpatient (principal diagnosis: Any infection).			
Replaced datatypes 'Diagnosis, Active; with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Denominator Exclusions	QDM Standards
Replaced 'Diagnosis, Active: XXX (ordinality: Principal)' datatype with 'Encounter, Performed: XXX (principal diagnosis: XXX)' datatype to conform with QDM 4.2 changes and provide more accurate logic. (CMS108, CMS171, CMS172).	Logic	Denominator Exclusions	QDM Standards
Removed the Occurrence A from the SCIP Major Surgical Procedure Performed logic as it is not referenced elsewhere and to align with SCIP 2.	Logic	Initial Population	QDM Standards
Changed the value set in CMS171, CMS172 and CMS188 which was using the following OID: 2.16.840.1.113883.3.666.5.1108 to use 'Intravenous Route: 2.16.840.1.113883.3.117.1.7.1.222 for harmonization across all the eligible hospital measures.	Logic	Numerator	
Replaced datatypes 'Diagnosis, Active; with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Numerator	QDM Standards
Added new attribute 'principal diagnosis' to 'Encounter, performed' datatype to conform to QDM 4.2 changes and provide more accurate logic.	Logic	QDM Data Elements	QDM Standards
Replaced datatypes 'Diagnosis, Active; with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Changed the value set in CMS171, CMS172 and CMS188 which was using the following OID: 2.16.840.1.113883.3.666.5.1108 to use 'Intravenous Route: 2.16.840.1.113883.3.117.1.7.1.222 for harmonization across all the eligible hospital measures.	Value Set		JIRA (CQM-509)
Value set Any infection (2.16.840.1.113883.3.666.5.696): Deleted 38 SNOMEDCT codes. Deleted 49 ICD10CM codes.	Value Set		
Value set Any Infection Prior to Anesthesia Concepts (2.16.840.1.113883.3.666.5.2256): Removed ICD9CM extensional value sets (2.16.840.1.113883.3.666.5.2258 and 2.16.840.1.113883.3.666.5.902). Deleted 127 SNOMEDCT codes. Deleted 91 ICD10CM codes.	Value Set		
Value set General or Neuraxial Anesthesia (2.16.840.1.113883.3.666.5.1743): Added 3 SNOMEDCT codes (50697003, 74527005, 82776005).	Value Set		
Value set IV Antimicrobial medication (2.16.840.1.113883.3.666.5.765): Added 54 RXNORM codes and deleted 96 RXNORM codes.	Value Set		
Value set IV Quinolones (2.16.840.1.113883.3.666.5.835): Added 9 RXNORM codes (1665210, 1665212, 1665227, 1665229, 1665497, 1665507, 1665515, 1665517, 1665519) and deleted 7 RXNORM codes (199886, 200195, 240640, 309304, 315065, 895915, 998756).	Value Set		
Value set Pocketed Device Implantation Procedures (2.16.840.1.113883.3.666.5.1741): Added 89 ICD10PCS codes.	Value Set		
Value set Vaginal Hysterectomy (2.16.840.1.113883.3.666.5.712): Deleted 2 ICD10PCS codes (OUT48ZZ, OUT98ZZ). Removed ICD9CM extensional value set (2.16.840.1.113883.3.666.5.1827) including 3 codes. Deleted 1 SNOMEDCT code (75835007).	Value Set		
Value set Vascular Surgery (2.16.840.1.113883.3.666.5.713): Deleted 1 SNOMEDCT code (3546002).	Value Set		

CMS172v6 - Prophylactic Antibiotic Selection for Surgical Patients

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Copyright.	Header	Copyright	Annual Update
Replaced the word spinal with neuraxial anesthesia to align with value set name.	Header	Denominator Exclusions	Measure Lead
Incremented eMeasure Version number.	Header	eMeasure Version number	Measure Lead
Removed definition of reporting period as reporting periods can change.	Header	Guidance	Measure Lead
Removed attribute from variable \$EncounterInpatient in all denominator exclusions. Logic originally written like this: —Occurrence A of &EncounterInpatient (principal diagnosis: Any infection) —'Occurrence A of Diagnosis, Active: Any infection (ordinality: Principal)' during Occurrence A of \$EncounterInpatient	Logic	Denominator Exclusions	Measure Lead
has been revised to the following: OR: Intersection of: —Occurrence A of \$EncounterInpatient —'Encounter, Performed: Encounter Inpatient (principal diagnosis: Any infection)'.	Logic	Denominator Exclusions	JIRA (CQM-1660)
Removed 'route' attribute from Medication, Active to align with measure intent.	Logic	Denominator Exclusions	QDM Standards
Replaced datatypes 'Diagnosis, Active; with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Denominator Exclusions	QDM Standards
Replaced 'Diagnosis, Active: XXX (ordinality: Principal)' datatype with 'Encounter, Performed: XXX (principal diagnosis: XXX)' datatype to conform with QDM 4.2 changes and provide more accurate logic.	Logic	Denominator Exclusions	QDM Standards
Value set Intravenous route (2.16.840.1.113883.3.117.1.7.1.222): Added Intravenous route.	Logic	Denominator Exclusions	
Value set Substance or Medication Administration Route IV (2.16.840.1.113883.3.666.5.1108): Removed Substance or Medication Administration Route IV.	Logic	Denominator Exclusions	
Removed Occ A from Procedure performed: SCIP Major Surgical Procedure as it is not referenced elsewhere and to align with SCIP 1.	Logic	Initial Population	Measure Lead
Changed logic in the numerator of all 8 populations in SCIP2 so that the procedure in each population will be bound to the surgical episode represented by: 'Occurrence A of Procedure, Performed: General or Neuraxial Anesthesia'.	Logic	Numerator	Measure Lead
Removed attribute 'discharge datetime' from 'Encounter, Performed: Encounter Inpatient' as the timing in the logic indicates the end of the encounter.	Logic	Numerator	Measure Lead
Replaced datatypes 'Diagnosis, Inactive'; 'Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Numerator	QDM Standards
Replaced the current 'History of MRSA Colonization or Infection' logic as a reason for giving Vancomycin to the following logic: 'Diagnosis: MRSA Colonization or Infection' satisfies any: starts before start of 'Occurrence A of Procedure, Performed: CABG Surgeries (incision datetime)' overlaps 'Occurrence A of Procedure, Performed: CABG Surgeries (incision datetime)'.	Logic	Numerator	JIRA (CQM-1745)
Value set Intravenous route (2.16.840.1.113883.3.117.1.7.1.222): Added Intravenous route.	Logic	Numerator	
Value set Substance or Medication Administration Route IV (2.16.840.1.113883.3.666.5.1108): Removed Substance or Medication Administration Route IV.	Logic	Numerator	
Added new attribute 'principal diagnosis' to 'Encounter, performed' datatype to conform to QDM 4.2 changes and provide more accurate logic.	Logic	QDM Data Elements	QDM Standards
Replaced datatypes 'Diagnosis, Active; with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Value set Intravenous route (2.16.840.1.113883.3.117.1.7.1.222): Added Intravenous route.	Logic	QDM Data Elements	
Value set Substance or Medication Administration Route IV, oral or IM (2.16.840.1.113883.3.666.5.1111): Renamed Substance or Medication Administration Route IV, oral or IM to Route IV, oral or IM.	Logic	QDM Data Elements	
Changed the value set in CMS171, CMS172 and CMS188 which was using the following OID: 2.16.840.1.113883.3.666.5.1108 to use 'Intravenous Route: 2.16.840.1.113883.3.117.1.7.1.222 for harmonization across all the eligible hospital measures.	Value Set		JIRA (CQM-509)
The value sets that were included in the grouping value set 'History of MRSA Colonization or Infection' were changed to represent 'MRSA Colonization or Infection', including history of MRSA infection, current MRSA infection, colonization of MRSA, a positive MRSA screen.	Value Set		JIRA (CQM-1745)
Value set Acute care hospital Inpatient Encounter (2.16.840.1.113883.3.666.5.2289): Deleted 4 SNOMEDCT codes (183497001, 305335007, 32485007, 8715000).	Value Set		
Value set Antibiotics for Prophylaxis for Hysterectomy Surgeries (2.16.840.1.113883.3.666.5.729): Added 24 RXNORM codes and deleted 23 RXNORM codes.	Value Set		
Value set Any infection (2.16.840.1.113883.3.666.5.696): Deleted 38 SNOMEDCT codes. Deleted 49 ICD10CM codes.	Value Set		
Value set Any Infection Prior to Anesthesia Concepts (2.16.840.1.113883.3.666.5.2256): Removed ICD9CM extensional value sets (2.16.840.1.113883.3.666.5.2258 and 2.16.840.1.113883.3.666.5.902). Deleted 127 SNOMEDCT codes. Deleted 91 ICD10CM codes.	Value Set		
Value set Beta Lactams for Allergy Determination (2.16.840.1.113883.3.666.5.1058): Deleted 5 RXNORM codes (214233, 2183, 2239, 267073, 6927).	Value Set		
Value set CABG Surgeries (2.16.840.1.113883.3.666.5.694): Added 1 SNOMEDCT code (232722009) and deleted 1 SNOMEDCT code (61236006).	Value Set		
Value set Cefuroxime and Cefazolin Antibiotics for IV Administration (2.16.840.1.113883.3.666.5.768): Added 6 RXNORM codes (1665050, 1665052, 1665060, 1665444, 1665447, 1665449) and deleted 11 RXNORM codes (204929, 309051, 309052, 309053, 309099, 309100, 313929, 796301, 854220, 904288, 997632).	Value Set		
Value set General or Neuraxial Anesthesia (2.16.840.1.113883.3.666.5.1743): Added 3 SNOMEDCT codes (50697003, 74527005, 82776005).	Value Set		

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Value set Hemodialysis or Peritoneal Dialysis (2.16.840.1.113883.3.666.5.2282): Added 2 SNOMEDCT codes (708931003, 708932005).	Value Set		
Value set IM or PO Antimicrobial medications (2.16.840.1.113762.1.4.1045.5): Added 15 RXNORM codes and deleted 55 RXNORM codes.	Value Set		
Value set Intravenous route (2.16.840.1.113883.3.117.1.7.1.222): Added Intravenous route.	Value Set		
Value set IV Aminoglycosides (2.16.840.1.113883.3.666.5.727): Added 3 RXNORM codes (1723156, 1723160, 1727174) and deleted 3 RXNORM codes (415059, 905143, 905148).	Value Set		
Value set IV Antibiotics Used For Prophylaxis for Colon Surgery (2.16.840.1.113883.3.666.5.724): Added 7 RXNORM codes (1659592, 1659598, 1665102, 1665107, 1722916, 1722919, 1722921) and deleted 12 RXNORM codes.	Value Set		
Value set IV Antimicrobial medication (2.16.840.1.113883.3.666.5.765): Added 54 RXNORM codes and deleted 96 RXNORM codes.	Value Set		
Value set IV Aztreonam (2.16.840.1.113883.3.666.5.728): Added 2 RXNORM codes (1664981, 1664986) and deleted 3 RXNORM codes (308466, 308467, 308468).	Value Set		
Value set IV Cefazolin (2.16.840.1.113762.1.4.1045.7): Added 3 RXNORM codes (1665050, 1665052, 1665060) and deleted 7 RXNORM codes (1483787, 309051, 309052, 309053, 313929, 796301, 854220).	Value Set		
Value set IV Ceftriaxone (2.16.840.1.113762.1.4.1045.3): Added 3 RXNORM codes (1665005, 1665021, 1665046) and deleted 3 RXNORM codes (204871, 309091, 309093).	Value Set		
Value set IV Cefuroxime (2.16.840.1.113762.1.4.1045.8): Added 2 RXNORM codes (1665444, 1665449) and deleted 5 RXNORM codes (204929, 309099, 309100, 904288, 997632).	Value Set		
Value set IV Quinolones Used For Prophylaxis for Hysterectomy and Colon Surgery (2.16.840.1.113883.3.666.5.767): Added 9 RXNORM codes (1665210, 1665212, 1665227, 1665229, 1665497, 1665507, 1665515, 1665517, 1665519) and deleted 4 RXNORM codes (199886, 309304, 895915, 998756).	Value Set		
Value set IV, IM, PO Antimicrobial Medications (2.16.840.1.113883.3.666.5.693): Deleted 146 RXNORM codes.	Value Set		
Value set Pocketed Device Implantation Procedures (2.16.840.1.113883.3.666.5.1741): Added 89 ICD10PCS codes.	Value Set		
Value set Route IV, oral or IM (2.16.840.1.113883.3.666.5.1111): Deleted 2 SNOMEDCT codes (447963004, 449137004).	Value Set		
Value set Substance or Medication Administration Route IV (2.16.840.1.113883.3.666.5.1108): Removed Substance or Medication Administration Route IV.	Value Set		
Value set Substance or Medication Administration Route IV, oral or IM (2.16.840.1.113883.3.666.5.1111): Renamed Substance or Medication Administration Route IV, oral or IM to Route IV, oral or IM.	Value Set		
Value set Vaginal Hysterectomy (2.16.840.1.113883.3.666.5.712): Deleted 2 ICD10PCS codes (0UT48ZZ, 0UT98ZZ). Removed ICD9CM extensional value set (2.16.840.1.113883.3.666.5.1827) including 3 codes. Deleted 1 SNOMEDCT code (75835007).	Value Set		
Value set Vascular Surgery (2.16.840.1.113883.3.666.5.713): Deleted 1 SNOMEDCT code (3546002).	Value Set		

CMS178v6 - Urinary catheter removed on Postoperative Day 1 (POD 1) or Postoperative Day 2 (POD 2) with day of surgery being day zero

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Copyright.	Header	Copyright	Annual Update
ICU admission or transfer <= 2 days starts after start and medications (diuretics, paralytics and inotropic and vasopressor agents) moved from exclusions to denominator exceptions.	Header	Denominator Exceptions	Measure Lead
Rearranged denominator exclusion list to better align with logic and removed statement related to not having a catheter as those patients would not have been included in denominator.	Header	Denominator Exclusions	Measure Lead
Replaced the term suprapubic to urethral catheter to align with logic. Suprapubic catheters are captured through urinary diversions.	Header	Denominator Exclusions	Measure Lead
Incremented eMeasure Version number.	Header	eMeasure Version number	Measure Lead
Updated Endorsed by to 'None.'	Header	Endorsed By	Measure Lead
Moved definitions and explanations from denominator and denominator exclusion statements to Guidance to reduce duplication; added definition of perioperative and postoperative periods, and perioperative death to Guidance section; provided explanation of what is indicative of a urinary diversion.	Header	Guidance	Measure Lead
Revised IP to include principal and to read more clearly.	Header	Initial Population	Measure Lead
Updated NQF Number to 'Not Applicable.'	Header	NQF Number	Measure Lead
Removed Occurrence A from: Occurrence A ('Encounter, Performed: Emergency Department Visit' <= 1 hour(s) ends before or concurrent with start of Occurrence A of \$EncounterInpatient because another piece of the Union captures the occurrence.	Logic	Denominator	Measure Lead
Replaced Intervention and Procedure performed with Device, applied for urinary catheters and urinary diversions.	Logic	Denominator	Measure Lead
Revised AND NOT logic by adding (removal datetime) during Occurrence A of \$EncounterInpatient to constrain timing.	Logic	Denominator	Measure Lead
Revised the AND NOT logic in the denominator by replacing the Procedure, Performed to Device, Applied to allow the logic to refer to the same catheter throughout and by removing <= 6 hours and adding a removal datetime to enforce timing constraint.	Logic	Denominator	JIRA (CQM-1735)
Logic for ICU admission or transfer <= 2 days starts after start and medications (diuretics, paralytics and inotropic and vasopressor agents) moved to denominator exceptions. Added 'overlaps' operator to timing constraint for better accuracy.	Logic	Denominator Exceptions	
Replaced Intervention and Procedure performed with Device, applied for urinary catheters and urinary diversions.	Logic	Denominator Exclusions	Measure Lead
Replaced Intervention and Procedure performed with Device, applied for urinary catheters and urinary diversions.			
Introduced variable \$UrinaryDiversionCatheterization = Union of: 'Device, Applied: Urinary Diversion'; 'Device, Applied: Urethral Catheter'; and 'Device, Applied: Intermittent Catheterization' to allow re-use of logical expressions and reduce redundancy/complexity.	Logic	Denominator Exclusions	JIRA (CQM-1677)
Revised patient expired logic to account for the patient expiring during the perioperative period to meet measure intent.	Logic	Denominator Exclusions	Measure Lead
Replaced Intervention and Procedure performed with Device, applied for urinary catheters and urinary diversions.	Logic	Numerator	Measure Lead
Value set Devices indicating intermittent catheterization (2.16.840.1.113762.1.4.1111.135): Added Devices indicating intermittent catheterization.	Logic	QDM Data Elements	
Value set Devices indicating urethral catheter (2.16.840.1.113762.1.4.1111.136): Added Devices indicating urethral catheter.	Logic	QDM Data Elements	
Value set Devices indicating urinary diversion (2.16.840.1.113762.1.4.1111.133): Added Devices indicating urinary diversion.	Logic	QDM Data Elements	
Value set Intermittent Catheterization (2.16.840.1.113883.3.666.5.825): Removed Intermittent Catheterization.	Logic	QDM Data Elements	
Value set SCIP urinary diversion procedures (2.16.840.1.113883.3.666.5.2313): Removed SCIP urinary diversion procedures.	Logic	QDM Data Elements	
Value set Suprapubic catheter (2.16.840.1.113883.3.666.5.827): Removed Suprapubic catheter.	Logic	QDM Data Elements	
Value set Urethral catheter placement (2.16.840.1.113762.1.4.1045.74): Removed Urethral catheter placement.	Logic	QDM Data Elements	
Value set Urethral catheter removal (2.16.840.1.113762.1.4.1111.4): Removed Urethral catheter removal.	Logic	QDM Data Elements	
Introduced \$UrinaryDiversion/Catheterization variable to allow re-use of logical expressions and reduce redundancy/complexity.	Logic	QDM variables	
Value set Devices indicating intermittent catheterization (2.16.840.1.113762.1.4.1111.135): Added Devices indicating intermittent catheterization.	Logic	QDM Variables	
Value set Devices indicating urethral catheter (2.16.840.1.113762.1.4.1111.136): Added Devices indicating urethral catheter.	Logic	QDM Variables	
Value set Devices indicating urinary diversion (2.16.840.1.113762.1.4.1111.133): Added Devices indicating urinary diversion.	Logic	QDM Variables	
Value set Devices indicating intermittent catheterization (2.16.840.1.113762.1.4.1111.135): Added Devices indicating intermittent catheterization.	Value Set		
Value set Devices indicating urethral catheter (2.16.840.1.113762.1.4.1111.136): Added Devices indicating urethral catheter.	Value Set		
Value set Devices indicating urinary diversion (2.16.840.1.113762.1.4.1111.133): Added Devices indicating urinary diversion.	Value Set		
Value set Diuretics (2.16.840.1.113883.3.666.5.829): Added 101 RXNORM codes and deleted 5 RXNORM codes (1233658, 1233851, 282452, 314020, 314029).	Value Set		
Value set General or Neuraxial Anesthesia (2.16.840.1.113883.3.666.5.1743): Added 3 SNOMEDCT codes (50697003, 74527005, 82776005).	Value Set		
Value set IV Positive Inotropic and Vasopressor Agents (2.16.840.1.113883.3.666.5.2128): Added 2 RXNORM codes (1660014, 1666372) and deleted 33 RXNORM codes.	Value Set		
Value set Medical Reason (2.16.840.1.113883.3.117.1.7.1.473): Deleted 1 SNOMEDCT code (161590003).	Value Set		
Value set Paralytic Agents (2.16.840.1.113883.3.666.5.2129): Added 3 RXNORM codes (1594585, 1594589, 1594598) and deleted 6 RXNORM codes (1235036, 204398, 240414, 259033, 315105, 998231).	Value Set		

CMS185v5 - Healthy Term Newborn

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Copyright.	Header	Copyright	Annual Update
Incremented eMeasure Version number.	Header	eMeasure Version number	Measure Lead
Replaced datatypes 'Diagnosis, Active; with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Data Criteria	QDM Standards
Replaced datatypes 'Diagnosis, Active; with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Denominator Exclusions	QDM Standards
Replaced datatypes 'Diagnosis, Active; with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Initial Population	QDM Standards
Replaced datatypes 'Diagnosis, Active; with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Numerator	QDM Standards
Replaced datatypes 'Diagnosis, Active; with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Value set Congenital Anomalies Group (2.16.840.1.113883.3.666.5.1570): Deleted 16 SNOMEDCT codes.	Value Set		
Value set Gestational age >= 37 weeks (2.16.840.1.113883.3.666.5.1596): Added 7 ICD10CM codes (Z3A.37, Z3A.38, Z3A.39, Z3A.40, Z3A.41, Z3A.42, Z3A.49).	Value Set		
Value set Social Reasons Group (2.16.840.1.113883.3.666.5.1595): Deleted 1 SNOMEDCT code (5015009).	Value Set		

CMS188v6 - Initial Antibiotic Selection for Community-Acquired Pneumonia (CAP) in Immunocompetent Patients

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Copyright.	Header	Copyright	Annual Update
Removed the word Active from diagnosis of immunocompromised condition to align with logic.	Header	Denominator Exclusions	Measure Lead
Incremented eMeasure Version number.	Header	eMeasure Version number	Measure Lead
Removed the word acute from inpatient statement to align with logic.	Header	Initial Population	Measure Lead
Replaced datatypes 'Diagnosis, Active; with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Header	Numerator	QDM Standards
Inline comments added to provide clarification to logic sections.	Logic		Measure Lead
Changed all attributes for route which were on the left hand side of the phrase so that they were after the 'satisfies all' or 'satisfies any' which put them on the right hand side of the logic phrase.	Logic	Denominator	JIRA (CQM-1690)
Changed the denominator logic so that it is either looking for a 'Medication, Administered' within 24 hours of the inpatient encounter start time or 'Medication, Active' within 24 hours prior to the inpatient encounter start time.	Logic	Denominator	JIRA (CQM-1679)
Changed the value set in CMS171, CMS172 and CMS188 which was using the following OID: 2.16.840.1.113883.3.666.5.1108 to use 'Intravenous Route: 2.16.840.1.113883.3.117.1.7.1.222 for harmonization across all the eligible hospital measures.	Logic	Denominator	JIRA (CQM-509)
Removed the route attribute from all the Medication, Active logic in the denominator in both the ICU and non-ICU population.	Logic	Denominator	Measure Lead
Replaced datatypes 'Diagnosis, Active; with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Denominator	QDM Standards
Value set Substance or Medication Administration Route IV, oral or IM (2.16.840.1.113883.3.666.5.1111): Renamed Substance or Medication Administration Route IV, oral or IM to Route IV, oral or IM.	Logic	Denominator	
Added timing of <= 1 hour(s) to this logic in the non-ICU population that states a patient is seen in the ED and that the ED visit ends before the start of (within 1 hour) or concurrent with the start of the Inpatient Encounter.	Logic	Denominator Exceptions	Measure Lead
Changed Medication, Administered datatype to Medication, Active datatype in the Denominator Exceptions logic in both the ICU and non-ICU populations.	Logic	Denominator Exceptions	Measure Lead
Removed the route attribute from the Medication, Active logic in the Denominator Exceptions logic in the ICU and non-ICU populations.	Logic	Denominator Exceptions	Measure Lead
Replaced datatypes 'Diagnosis, Active; with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Denominator Exceptions	QDM Standards
Changed all logic where 3 months is used to say 90 days, which harmonizes the 3 month and 90 day timings throughout the measure.	Logic	Denominator Exclusions	Measure Lead
Extended the temporal operators to 'starts before or concurrent with start of' and 'ends before or concurrent with start of' to provide for greater flexibility to hospitals in fulfilling the 'Transfer From' statements.	Logic	Denominator Exclusions	JIRA (CQM-1656)
Removed the route attribute from the Medication, Active logic in the Denominator logic in the ICU and non-ICU populations.	Logic	Denominator Exclusions	Measure Lead
Replaced datatypes 'Diagnosis, Active; with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Denominator Exclusions	QDM Standards
Introduced the operator 'Intersection of' to condense logic and reduce complexity.	Logic	Initial Population	Measure Lead
Replaced datatypes 'Diagnosis, Active; with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Initial Population	QDM Standards
Replaced 'Diagnosis, Active: XXX (ordinality: Principal)' datatype with 'Encounter, Performed: XXX (principal diagnosis: XXX)' datatype to conform with QDM 4.2 changes and provide more accurate logic.	Logic	Initial Population	QDM Standards
Changed all attributes for route which were on the left hand side of the phrase so that they were after the 'satisfies all' or 'satisfies any' which put them on the right hand side of the logic phrase.	Logic	Numerator	JIRA (CQM-1690)
Changed Medication, Administered datatype to Medication, Active datatype in the pseudomonal risk factor section of the logic in the numerator of the non-ICU patient logic.	Logic	Numerator	Measure Lead
Removed the route attribute from the Medication, Active logic in the Numerator logic in the non-ICU population.	Logic	Numerator	Measure Lead
Replaced datatypes 'Diagnosis, Active; with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Numerator	QDM Standards
Added new attribute 'principal diagnosis' to 'Encounter, performed' datatype to conform to QDM 4.2 changes and provide more accurate logic. Removed QDM data element Attribute: 'Ordinality: Principal' using 'Principal SNOMEDCT Value Set (2.16.840.1.113883.3.1.7.1.14.)' to conform to QDM 4.2. changes and provide more accurate logic.	Logic	QDM Data Elements	QDM Standards
Replaced datatypes 'Diagnosis, Active; with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Value set Substance or Medication Administration Route IV, oral or IM (2.16.840.1.113883.3.666.5.1111): Renamed Substance or Medication Administration Route IV, oral or IM to Route IV, oral or IM.	Logic	QDM Data Elements	
Changed the value set in CMS171, CMS172 and CMS188 which was using the following OID: 2.16.840.1.113883.3.666.5.1108 to use 'Intravenous Route: 2.16.840.1.113883.3.117.1.7.1.222 for harmonization across all the eligible hospital measures.	Value Set		JIRA (CQM-509)
Value set Acute care hospital Inpatient Encounter (2.16.840.1.113883.3.666.5.2289): Deleted 4 SNOMEDCT codes (183497001, 305335007, 32485007, 8715000).	Value Set		
Value set Ambulatory surgical center (2.16.840.1.113883.3.666.5.687): Added 2 SNOMEDCT codes (10531005, 69362002).	Value Set		
Value set Another Source of Infection (2.16.840.1.113762.1.4.1111.28): Deleted 4 SNOMEDCT codes (111181004, 25957002, 286998005, 53295002).	Value Set		
Value set Beta Lactams for Allergy Determination (2.16.840.1.113883.3.666.5.1058): Deleted 5 RXNORM codes (214233, 2183, 2239, 267073, 6927).	Value Set		
Value set Diagnoses as Reasons For Admission to ICU due to Pneumonia (2.16.840.1.113762.1.4.1045.84): Added 3 SNOMEDCT codes (101301000119106, 709110009, 709111008).	Value Set		

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Value set Emergency department location (2.16.840.1.113762.1.4.1111.14): Added 1 SNOMEDCT code (73770003).	Value Set		
Value set Francisella Tularensis or Yersinia pestis (2.16.840.1.113883.3.666.5.2205): Added 8 SNOMEDCT codes (186293006, 21857006, 34023009, 37722001, 398554008, 398575000, 398599000, 73363000).	Value Set		
Value set Hemodialysis or Peritoneal Dialysis (2.16.840.1.113883.3.666.5.2282): Added 2 SNOMEDCT codes (708931003, 708932005).	Value Set		
Value set Immunocompromised Conditions (2.16.840.1.113883.3.666.5.1940): Added 7 SNOMEDCT codes (234646005, 402355000, 402356004, 402357008, 402358003, 444547006, 47650006) and deleted 1 SNOMEDCT code (80255009). Added 1 ICD10CM code (C86.6).	Value Set		
Value set Immunodeficient Conditions (2.16.840.1.113883.3.666.5.1726): Deleted 2 SNOMEDCT codes (402916007, 431347008).	Value Set		
Value set Interstitial lung disease (2.16.840.1.113883.3.666.5.777): Deleted 38 SNOMEDCT codes. Added 22 ICD10CM codes.	Value Set		
Value set IV Aminoglycosides (2.16.840.1.113883.3.666.5.727): Added 3 RXNORM codes (1723156, 1723160, 1727174) and deleted 3 RXNORM codes (415059, 905143, 905148).	Value Set		
Value set IV Antipseudomoccal/antipseudomonal beta lactams (2.16.840.1.113883.3.666.5.759): Added 9 RXNORM codes (1659131, 1659149, 1665088, 1665093, 1665097, 1722934, 1722939, 1726204, 1726214) and deleted 11 RXNORM codes (1043464, 309055, 309056, 309057, 309292, 311549, 312443, 312446, 313922, 581374, 998355).	Value Set		
Value set IV Antipseudomonal quinolones (2.16.840.1.113883.3.666.5.896): Added 9 RXNORM codes (1665210, 1665212, 1665227, 1665229, 1665497, 1665507, 1665515, 1665517, 1665519) and deleted 4 RXNORM codes (199886, 309304, 895915, 998756).	Value Set		
Value set IV Beta lactams (2.16.840.1.113883.3.666.5.770): Added 7 RXNORM codes (1656313, 1656318, 1659592, 1659598, 1665005, 1665021, 1665046) and deleted 9 RXNORM codes (198395, 198396, 204871, 308208, 309066, 309067, 309091, 309093, 993109).	Value Set		
Value set IV Macrolides ICU (2.16.840.1.113883.3.666.5.758): Added 2 RXNORM codes (1668238, 1668264) and deleted 8 RXNORM codes (308461, 310163, 597298, 686354, 686447, 891294, 997999, 998004).	Value Set		
Value set IV or IM Aztreonam (2.16.840.1.113883.3.666.5.779): Added 2 RXNORM codes (1664981, 1664986) and deleted 3 RXNORM codes (308466, 308467, 308468).	Value Set		
Value set IV or IM Beta lactams (2.16.840.1.113883.3.666.5.720): Added 7 RXNORM codes (1656313, 1656318, 1659592, 1659598, 1665005, 1665021, 1665046) and deleted 10 RXNORM codes (198395, 198396, 204871, 308208, 309066, 309067, 309091, 309093, 313819, 993109).	Value Set		
Value set IV or PO Doxycyclines (2.16.840.1.113883.3.666.5.840): Added 13 RXNORM codes and deleted 7 RXNORM codes (197633, 199026, 199027, 310029, 310030, 359465, 597808).	Value Set		
Value set IV or PO Levofloxacin (2.16.840.1.113883.3.666.5.760): Added 5 RXNORM codes (1665497, 1665507, 1665515, 1665517, 1665519) and deleted 2 RXNORM codes (199886, 895915).	Value Set		
Value set IV or PO Macrolides Non ICU (2.16.840.1.113883.3.666.5.772): Added 2 RXNORM codes (1668238, 1668264) and deleted 13 RXNORM codes.	Value Set		
Value set IV PO AntiPseudomonal Quinolones (2.16.840.1.113883.3.666.5.804): Added 9 RXNORM codes (1665210, 1665212, 1665227, 1665229, 1665497, 1665507, 1665515, 1665517, 1665519) and deleted 4 RXNORM codes (199886, 309304, 895915, 998756).	Value Set		
Value set IV PO Quinolone Antipseudomoccal (2.16.840.1.113883.3.666.5.463): Added 5 RXNORM codes (1665497, 1665507, 1665515, 1665517, 1665519) and deleted 2 RXNORM codes (199886, 895915).	Value Set		
Value set IV Quinolones Antipseudomoccal (2.16.840.1.113883.3.666.5.465): Added 5 RXNORM codes (1665497, 1665507, 1665515, 1665517, 1665519) and deleted 2 RXNORM codes (199886, 895915).	Value Set		
Value set IV, IM, PO Antimicrobial Medications (2.16.840.1.113883.3.666.5.693): Deleted 146 RXNORM codes.	Value Set		
Value set Pneumonia (2.16.840.1.113883.3.666.5.752): Added 1 SNOMEDCT code (195889001) and deleted 1 SNOMEDCT code (312403005).	Value Set		
Value set Procedures as Reasons for Admission to ICU Due to Pneumonia (2.16.840.1.113762.1.4.1111.26): Added 1 SNOMEDCT code (40617009) and deleted 1 SNOMEDCT code (243142003).	Value Set		
Value set Respiratory failure acute or chronic (2.16.840.1.113883.3.666.5.2319): Added 3 SNOMEDCT codes (101301000119106, 709110009, 709111008).	Value Set		
Value set Respiratory infection (2.16.840.1.113883.3.666.5.2162): Deleted 4 SNOMEDCT codes (233607000, 53084003, 76090006, 81164001). Deleted 7 ICD10CM codes (A37.91, J15.6, J15.8, J15.9, J18.1, J18.8, J18.9).	Value Set		
Value set Route IV, oral or IM (2.16.840.1.113883.3.666.5.1111): Deleted 2 SNOMEDCT codes (447963004, 449137004).	Value Set		
Value set Route IV/IM (2.16.840.1.113883.3.666.5.1109): Deleted 2 SNOMEDCT codes (447963004, 449137004).	Value Set		
Value set Structural lung disease (2.16.840.1.113883.3.666.5.774): Added 10 ICD10CM codes (J62.0, J63.2, J63.3, J63.4, J66.8, J67.2, J67.5, J67.6, J67.7, J67.9). Added 28 SNOMEDCT codes.	Value Set		
Value set Substance or Medication Administration Route IV, oral or IM (2.16.840.1.113883.3.666.5.1111): Renamed Substance or Medication Administration Route IV, oral or IM to Route IV, oral or IM.	Value Set		
Value set Systemic corticosteroid/prednisone therapy (2.16.840.1.113883.3.666.5.805): Deleted 19 RXNORM codes.	Value Set		JIRA (CQM-1713)
Value set Systemic immunosuppressive therapy (2.16.840.1.113883.3.666.5.803): Added 5 RXNORM codes (1656643, 1656648, 1726324, 1726333, 1726492) and deleted 133 RXNORM codes.	Value Set		JIRA (CQM-1713)

CMS190v5 - Intensive Care Unit Venous Thromboembolism Prophylaxis

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Copyright.	Header	Copyright	Annual Update
Incremented eMeasure Version number.	Header	eMeasure Version number	Measure Lead
Removed guidance related to the intent of the logic related to IV heparin. This guidance is no longer needed due to updates to the content of the unfractionated heparin value set.	Header	Guidance	Measure Lead
Removed unit of measurement language from Guidance. HQMF now has a header field, 'measure item count', where the unit of measurement can be identified in a computable fashion.	Header	Guidance	Measure Lead
Added logic to expand allowable timing for VTE and obstetrics diagnoses to the ED visit. This allows patients who are diagnosed with a VTE or obstetrics diagnosed in the ED to be excluded from the initial population.	Logic	Initial Population	JIRA (CQM-581)
Added new attribute 'diagnosis' to 'Encounter, performed' datatype to conform to QDM 4.2 changes and provide more accurate logic.	Logic	Initial Population	QDM Standards
Introduced the operator 'Intersection of' to condense logic and reduce complexity.	Logic	Initial Population	Measure Lead
Replaced datatypes 'Diagnosis, Active; with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Initial Population	QDM Standards
Added new attribute 'diagnosis' to 'Encounter, performed' datatype to conform to QDM 4.2 changes and provide more accurate logic.	Logic	Numerator	QDM Standards
Introduced the operator 'Intersection of' to condense logic and reduce complexity.	Logic	Numerator	Measure Lead
Replaced datatypes 'Diagnosis, Active; with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Numerator	QDM Standards
Replaced datatypes 'Diagnosis, Inactive'; 'Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Numerator	QDM Standards
Added new attribute 'diagnosis' to 'Encounter, performed' datatype to conform to QDM 4.2 changes and provide more accurate logic.	Logic	QDM Data Elements	QDM Standards
Replaced datatypes 'Diagnosis, Active; with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Replaced datatypes 'Diagnosis, Inactive'; 'Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Replaced datatypes 'Diagnosis, Active; with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Variables	QDM Standards
Value set General or Neuraxial Anesthesia (2.16.840.1.113883.3.666.5.1743): Added 3 SNOMEDCT codes (50697003, 74527005, 82776005).	Value Set		
Value set General Surgery (2.16.840.1.113883.3.117.1.7.1.255): Removed ICD9CM extensional value set (2.16.840.1.113883.3.117.1.7.1.362) including 214 codes.	Value Set		
Value set Gynecological Surgery (2.16.840.1.113883.3.117.1.7.1.257): Removed ICD9CM extensional value set (2.16.840.1.113883.3.117.1.7.1.312) including 21 codes.	Value Set		
Value set Hip Fracture Surgery (2.16.840.1.113883.3.117.1.7.1.258): Removed ICD9CM extensional value set (2.16.840.1.113883.3.117.1.7.1.324) including 1 code.	Value Set		
Value set Hip Replacement Surgery (2.16.840.1.113883.3.117.1.7.1.259): Removed ICD9CM extensional value set (2.16.840.1.113883.3.117.1.7.1.320) including 11 codes.	Value Set		
Value set Injectable Factor Xa Inhibitor for VTE Prophylaxis (2.16.840.1.113883.3.117.1.7.1.211): Deleted 2 RXNORM codes (349308, 545076).	Value Set		
Value set Intermittent pneumatic compression devices (IPC) (2.16.840.1.113883.3.117.1.7.1.214): Added 2 SNOMEDCT codes (469317002, 469365001).	Value Set		
Value set Intracranial Neurosurgery (2.16.840.1.113883.3.117.1.7.1.260): Removed ICD9CM extensional value set (2.16.840.1.113883.3.117.1.7.1.345) including 13 codes.	Value Set		
Value set Knee Replacement Surgery (2.16.840.1.113883.3.117.1.7.1.261): Removed ICD9CM extensional value set (2.16.840.1.113883.3.117.1.7.1.316) including 7 codes.	Value Set		
Value set Low Dose Unfractionated Heparin for VTE Prophylaxis (2.16.840.1.113762.1.4.1045.39): Added 4 RXNORM codes (1658634, 1658637, 1659260, 1659263) and deleted 2 RXNORM codes (1361568, 1362837).	Value Set		
Value set Low Molecular Weight Heparin for VTE Prophylaxis (2.16.840.1.113883.3.117.1.7.1.219): Deleted 3 RXNORM codes (854258, 978717, 978761).	Value Set		
Value set Medical Reason (2.16.840.1.113883.3.117.1.7.1.473): Deleted 1 SNOMEDCT code (161590003).	Value Set		
Value set Obstetrics (2.16.840.1.113883.3.117.1.7.1.263): Deleted 5 SNOMEDCT codes (200015003, 200016002, 200026009, 308551004, 405235009). Removed ICD9CM extensional value set (2.16.840.1.113883.3.117.1.7.1.272) including 828 codes.	Value Set		
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 (1599543, 1599551, 1599555).	Value Set		
Value set Unfractionated Heparin (2.16.840.1.113883.3.117.1.7.1.218): Added 4 RXNORM codes (1658717, 1658720, 1659195, 1659197) and deleted 9 RXNORM codes (1361048, 1361226, 1361568, 1361574, 1361577, 1361613, 1361615, 1362831, 1362837).	Value Set		
Value set Urological Surgery (2.16.840.1.113883.3.117.1.7.1.272): Removed ICD9CM extensional value set (2.16.840.1.113883.3.117.1.7.1.332) including 31 codes.	Value Set		

CMS2v6 - Preventive Care and Screening: Screening for Depression and Follow-Up Plan

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Copyright.	Header	Copyright	Annual Update
Added Patient Health Questionnaire (PHQ-9) and Pediatric Symptom Checklist (PSC-17) to Definition: Examples of depression screening tools for adolescents to clarify other options of standardized depression screening tools available for provider use.	Header	Definition	JIRA (CQM-1533)
Changed term Clinical Depression to Depression because the term 'clinical' could reduce the sensitivity of screening.	Header	Description	Measure Lead
Incremented eMeasure Version number.	Header	eMeasure Version number	Annual Update
Changed term Clinical Depression to Depression because the term 'clinical' could reduce the sensitivity of screening.	Header	Guidance	Measure Lead
Changed term Clinical Depression to Depression because the term 'clinical' could reduce the sensitivity of screening.	Header	Numerator	Measure Lead
Updated to incorporate new literature.	Header	Rationale	Expert Work Group Review
Changed title from Clinical Depression to Depression because the term 'clinical' could reduce the sensitivity of screening.	Header	Title	Measure Lead
Updated logic to prevent a scenario where the case may be erroneously identified as a denominator exception rather than a denominator hit/numerator miss. This misidentification would occur when all of the following criteria were met: 1) patient has a qualified encounter and are excepted from the measure (refusal, medical reason) 2) patient has a qualified encounter later in the measurement period and are screened for depression 3) depression screen at second encounter is positive 4) follow-up is not documented.	Logic	Denominator Exceptions	External Review
The revised logic for denominator exceptions requires that no depression screenings were performed during the measurement period and patient refusal or medical reason for not screening is documented during a qualifying encounter.			
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Denominator Exclusions	QDM Standards
Numerator logic has been updated to correct a situation where depression screenings outside of qualified encounters could impact numerator criteria. It is the intent of the measure to look for most recent screening during an encounter defined by the denominator criteria and to disregard screenings which do not take place during a qualified encounter.	Logic		JIRA (CQM-1852)
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Value set Bipolar Diagnosis (2.16.840.1.113883.3.600.450): Added 1 ICD9CM code (296.52).	Value Set		JIRA (CQM-1477)
Value set Depression medications - adult (2.16.840.1.113883.3.600.470): Added 1 RXNORM code (259197) and deleted 10 RXNORM codes (107078, 242345, 242637, 242715, 252718, 259993, 309671, 309672, 410062, 991200).	Value Set		
Value set Depression Screening Encounter Codes (2.16.840.1.113883.3.600.1916): Deleted 1 CPT code (90839). Value Set			

CMS22v5 - Preventive Care and Screening: Screening for High Blood Pressure and Follow-Up Documented

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Copyright.	Header	Copyright	Annual Update
Incremented eMeasure Version number.	Header	eMeasure Version number	Annual Update
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Denominator Exclusions	QDM Standards
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Value set Anti-Hypertensive Pharmacologic Therapy (2.16.840.1.113883.3.600.1476): Added 3 RXNORM codes (1665057, 1719286, 1719290) and deleted 18 RXNORM codes.	Value Set		
Value set BP Screening Encounter Codes (2.16.840.1.113883.3.600.1920): Deleted 11 CPT codes (97532, 99218, 99219, 99220, 99224, 99225, 99226, 99234, 99235, 99236, 99340).	Value Set		
Value set Followup within one year (2.16.840.1.113883.3.600.1474): Deleted 1 SNOMEDCT code (61342007).	Value Set		

CMS50v5 - Closing the Referral Loop: Receipt of Specialist Report

Technical Release Notes

	Type of TRN	Measure Section	Source of Change
Updated Copyright.	Header	Copyright	Annual Update
Incremented eMeasure Version number.	Header	eMeasure Version number	Annual Update
Added Guidance to account for the numerator actions intentionally not having an end parameter. If the consultant report is communicated after the referral but falls outside the measurement period, that would satisfy the numerator criteria as long as the communication occurs before the submission of measure results is required.	Header	Guidance	Measure Lead
Updated Reference.	Header	Reference	Measure Lead
Updated numerator timing from 'during 'Measurement Period' to 'starts after start of 'Occurrence A of Intervention, Performed: Referral'. This update further connects the Referral and the communication of the Consultant Report, by requiring the correct workflow sequencing and allows additional time for closing the referral loop in instances of referrals nearing the end of the measurement period.	Logic	Numerator	Measure Lead

CMS52v5 - HIV/AIDS: Pneumocystis Jiroveci Pneumonia (PCP) Prophylaxis

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Clinical Recommendation Statement.	Header	Clinical Recommendation Statement	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Updated the word 'Numerator' to 'Denominator Exception' to reflect the correct section of the measure.	Header	Denominator Exceptions	Measure Lead
Updated Disclaimer.	Header	Disclaimer	Measure Lead
Incremented eMeasure Version number.	Header	eMeasure Version number	Annual Update
Updated the word 'Denominator' to 'Initial Population' to reflect the correct section of the measure.	Header	Initial Population	Measure Lead
Capitalized the word Pneumocystis.	Header	Numerator	Measure Lead
Updated Rationale.	Header	Rationale	Measure Lead
Updated References.	Header	Reference	Measure Lead
Moved HIV Visit from grouping value set to variable name to increase the visibility of which visits qualify for the measure.	Logic	Initial Population	Measure Lead
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Initial Population	QDM Standards
Value set HIV (2.16.840.1.113883.3.464.1003.120.12.1003): Removed HIV.	Logic	Initial Population	
Value set HIV 1 (2.16.840.1.113883.3.464.1003.120.12.1004): Added HIV 1.	Logic	Initial Population	
Adjusted timing statement to capture the time period specified in the measure description.	Logic	Numerator	Measure Lead
Combined timing for Medication Ordered into one statement to simplify the logic.	Logic	Numerator	Measure Lead
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Numerator	QDM Standards
Updated numerator logic to meet QDM standards.	Logic	Numerator	JIRA (CQM-1797)
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Value set Face-to-Face Interaction (2.16.840.1.113883.3.464.1003.101.12.1048): Added Face-to-Face Interaction.	Logic	QDM Data Elements	
Value set HIV (2.16.840.1.113883.3.464.1003.120.12.1003): Removed HIV.	Logic	QDM Data Elements	
Value set HIV 1 (2.16.840.1.113883.3.464.1003.120.12.1004): Added HIV 1.	Logic	QDM Data Elements	
Value set HIV Visit (2.16.840.1.113883.3.464.1003.101.12.1047): Removed HIV Visit.	Logic	QDM Data Elements	
Value set Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001): Added Office Visit.	Logic	QDM Data Elements	
Value set Outpatient Consultation (2.16.840.1.113883.3.464.1003.101.12.1008): Added Outpatient Consultation.	Logic	QDM Data Elements	
Value set Preventive Care - Established Office Visit, 0 to 17 (2.16.840.1.113883.3.464.1003.101.12.1024): Added Preventive Care - Established Office Visit, 0 to 17.	Logic	QDM Data Elements	
Value set Preventive Care- Initial Office Visit, 0 to 17 (2.16.840.1.113883.3.464.1003.101.12.1022): Added Preventive Care- Initial Office Visit, 0 to 17.	Logic	QDM Data Elements	
Value set Preventive Care Services - Established Office Visit, 18 and Up (2.16.840.1.113883.3.464.1003.101.12.1025): Added Preventive Care Services - Established Office Visit, 18 and Up.	Logic	QDM Data Elements	
Value set Preventive Care Services-Initial Office Visit, 18 and Up (2.16.840.1.113883.3.464.1003.101.12.1023): Added Preventive Care Services-Initial Office Visit, 18 and Up.	Logic	QDM Data Elements	
Moved HIV Visit from grouping value set to variable name to increase the visibility of which visits qualify for the measure.	Logic	QDM Variables	Measure Lead
Value set Face-to-Face Interaction (2.16.840.1.113883.3.464.1003.101.12.1048): Added Face-to-Face Interaction.	Logic	QDM Variables	
Value set Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001): Added Office Visit.	Logic	QDM Variables	
Value set Outpatient Consultation (2.16.840.1.113883.3.464.1003.101.12.1008): Added Outpatient Consultation.	Logic	QDM Variables	
Value set Preventive Care - Established Office Visit, 0 to 17 (2.16.840.1.113883.3.464.1003.101.12.1024): Added Preventive Care - Established Office Visit, 0 to 17.	Logic	QDM Variables	
Value set Preventive Care- Initial Office Visit, 0 to 17 (2.16.840.1.113883.3.464.1003.101.12.1022): Added Preventive Care- Initial Office Visit, 0 to 17.	Logic	QDM Variables	
Value set Preventive Care Services - Established Office Visit, 18 and Up (2.16.840.1.113883.3.464.1003.101.12.1025): Added Preventive Care Services - Established Office Visit, 18 and Up.	Logic	QDM Variables	
Value set Preventive Care Services-Initial Office Visit, 18 and Up (2.16.840.1.113883.3.464.1003.101.12.1023): Added Preventive Care Services-Initial Office Visit, 18 and Up.	Logic	QDM Variables	
Value set Face-to-Face Interaction (2.16.840.1.113883.3.464.1003.101.12.1048): Added Face-to-Face Interaction.	Value Set		
Value set HIV (2.16.840.1.113883.3.464.1003.120.12.1003): Removed HIV.	Value Set		
Value set HIV 1 (2.16.840.1.113883.3.464.1003.120.12.1004): Added HIV 1.	Value Set		
Value set HIV Visit (2.16.840.1.113883.3.464.1003.101.12.1047): Removed HIV Visit.	Value Set		
Value set Leucovorin (2.16.840.1.113883.3.464.1003.196.12.1205): Deleted 1 RXNORM code (250288).	Value Set		
Value set Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001): Added Office Visit.	Value Set		
Value set Outpatient Consultation (2.16.840.1.113883.3.464.1003.101.12.1008): Added Outpatient Consultation.	Value Set		
Value set Pneumocystis Jiroveci Pneumonia (PCP) Prophylaxis (2.16.840.1.113883.3.464.1003.196.12.1076): Deleted 1 RXNORM code (197384).	Value Set		
Value set Preventive Care - Established Office Visit, 0 to 17 (2.16.840.1.113883.3.464.1003.101.12.1024): Added Preventive Care - Established Office Visit, 0 to 17.	Value Set		

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Value set Preventive Care- Initial Office Visit, 0 to 17 (2.16.840.1.113883.3.464.1003.101.12.1022): Added Preventive Care- Initial Office Visit, 0 to 17.	Value Set		
Value set Preventive Care Services - Established Office Visit, 18 and Up (2.16.840.1.113883.3.464.1003.101.12.1025): Added Preventive Care Services - Established Office Visit, 18 and Up.	Value Set		
Value set Preventive Care Services-Initial Office Visit, 18 and Up (2.16.840.1.113883.3.464.1003.101.12.1023): Added Preventive Care Services-Initial Office Visit, 18 and Up.	Value Set		

CMS56v5 - Functional Status Assessment for Total Hip Replacement

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Clinical Recommendation Statement.	Header	Clinical Recommendation Statement	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Updated Denominator Exclusion language to reference fractures as an indication of trauma.	Header	Denominator Exclusions	Measure Lead
Updated the description to 'years of age' instead of 'aged' to align language with other measures.	Header	Description	Measure Lead
Incremented eMeasure Version number.	Header	eMeasure Version number	Annual Update
Removed guidance about QRDA as it is not pertinent to the measure calculation.	Header	Guidance	Measure Lead
Updated Initial Population description to reference patients of a certain age instead of adults to align language with other measures.	Header	Initial Population	Measure Lead
Updated Rationale.	Header	Rationale	Measure Lead
Updated References.	Header	Reference	Measure Lead
Added the word 'Total' to the title to indicate the type of replacement surgery.	Header	Title	Measure Lead
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Denominator Exclusions	QDM Standards
Moved the attribute to the right hand side of the numerator statement to align with QDM requirements.	Logic	Numerator	QDM Standards
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Value set Fracture - Lower Body (2.16.840.1.113883.3.464.1003.113.12.1037): Added 40 SNOMEDCT codes.	Value Set		
Value set Primary THA Procedure (2.16.840.1.113883.3.464.1003.198.12.1006): Added 2 SNOMEDCT codes (265158005, 450813004).	Value Set		

CMS61v6 - Preventive Care and Screening: Cholesterol – Fasting Low Density Lipoprotein (LDL-C) Test Performed

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Copyright.	Header	Copyright	Annual Update
Incremented eMeasure Version number.	Header	eMeasure Version number	Annual Update
Update two broken links.	Header	Reference	Measure Lead
Changed QDM category for Palliative Care exclusion from Procedure to Intervention for harmonization with other like MU measures.	Logic	QDM Data Elements	JIRA (CQM-1546)
Replaced datatype 'Diagnosis, Family Hx' with new 'Family history' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Value set Female (2.16.840.1.113883.3.560.100.2): Changed code system from 'AdministrativeSex' to 'AdministrativeGender'.	Logic	QDM Data Elements	Code System Update
Value set Male (2.16.840.1.113883.3.560.100.1): Changed code system from 'AdministrativeSex' to 'AdministrativeGender'.	Logic	QDM Data Elements	Code System Update
Value set Peripheral Arterial or Vascular Disease (2.16.840.1.113762.1.4.1047.21): Renamed Peripheral Arterial or Vascular Disease to Atherosclerosis and Peripheral Arterial Disease.	Logic	QDM Data Elements	
Changed QDM category for Palliative Care exclusion from Procedure to Intervention for harmonization with other like MU measures.	Logic	QDM Variables	JIRA (CQM-1546)
Replaced datatype 'Diagnosis, Family Hx' with new 'Family history' datatype to conform to QDM 4.2 changes.	Logic	QDM Variables	QDM Standards
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Variables	QDM Standards
Value set Peripheral Arterial or Vascular Disease (2.16.840.1.113762.1.4.1047.21): Renamed Peripheral Arterial or Vascular Disease to Atherosclerosis and Peripheral Arterial Disease.	Logic	QDM Variables	
Value set Acute Myocardial Infarction (2.16.840.1.113883.3.464.1003.104.12.1001): Added 21 ICD9CM codes. Added 15 ICD10CM codes.	Value Set		
Value set Anti-Hypertensive Pharmacologic Therapy (2.16.840.1.113883.3.600.1476): Added 3 RXNORM codes (1665057, 1719286, 1719290) and deleted 18 RXNORM codes.	Value Set		
Value set Atherosclerosis and Peripheral Arterial Disease (2.16.840.1.113762.1.4.1047.21): Added 14 SNOMEDCT codes. Added 14 ICD9CM codes. Added 61 ICD10CM codes.	Value Set		
Value set CABG Surgeries (2.16.840.1.113883.3.666.5.694): Added 1 SNOMEDCT code (232722009) and deleted 1 SNOMEDCT code (61236006).	Value Set		
Value set Coronary Artery Disease No MI (2.16.840.1.113883.3.526.3.369): Added 1 SNOMEDCT code (443502000).	Value Set		JIRA (CQM-1854)
Value set Diabetes (2.16.840.1.113883.3.464.1003.103.12.1001): Added 11 ICD9CM codes (250.40, 357.2, 362.01, 362.02, 362.03, 362.04, 362.05, 362.06, 362.07, 366.41, 648.00).	Value Set		
Value set Female (2.16.840.1.113883.3.560.100.2): Changed code system from 'AdministrativeSex' to 'AdministrativeGender'.	Value Set		Code System Update
Value set Ischemic Stroke (2.16.840.1.113883.3.117.1.7.1.247): Added 3 SNOMEDCT codes (230701008, 307363008, 426107000) and deleted 5 SNOMEDCT codes (233964008, 288723005, 300920004, 64586002, 71444005). Deleted 18 ICD10CM codes.	Value Set		
Value set Ischemic Vascular Disease (2.16.840.1.113883.3.464.1003.104.12.1003): Added 9 ICD9CM codes (414.3, 414.4, 437.0, 440.0, 440.30, 440.31, 440.32, 440.8, 440.9) and deleted 1 ICD9CM code(413.1). Added 206 ICD10CM codes and deleted 1 ICD10CM code (I20.1).	Value Set		
Value set Male (2.16.840.1.113883.3.560.100.1): Changed code system from 'AdministrativeSex' to 'AdministrativeGender'.	Value Set		Code System Update
Value set Peripheral Arterial or Vascular Disease (2.16.840.1.113762.1.4.1047.21): Renamed Peripheral Arterial or Vascular Disease to Atherosclerosis and Peripheral Arterial Disease.	Value Set		

CMS62v5 - HIV/AIDS: Medical Visit

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Copyright.	Header	Copyright	Annual Update
Updated Disclaimer.	Header	Disclaimer	Measure Lead
Incremented eMeasure Version number.	Header	eMeasure Version number	Annual Update
Changed the phrase'12 month period' to 'measurement period' to match the logic and the language in other parts of the measure.	Header	Initial Population	Measure Lead
Changed the word 'year' to 'period' to match the language in other parts of the measure.	Header	Numerator	Measure Lead
Moved HIV Visit from grouping value set to variable name to increase the visibility of which visits qualify for the measure.	Logic	Initial Population	Measure Lead
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Initial Population	QDM Standards
Value set HIV (2.16.840.1.113883.3.464.1003.120.12.1003): Removed HIV.	Logic	Initial Population	
Value set HIV 1 (2.16.840.1.113883.3.464.1003.120.12.1004): Added HIV 1.	Logic	Initial Population	
Moved HIV Visit from grouping value set to variable name to increase the visibility of which visits qualify for the measure.	Logic	Numerator	Measure Lead
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Value set Face-to-Face Interaction (2.16.840.1.113883.3.464.1003.101.12.1048): Added Face-to-Face Interaction.	Logic	QDM Data Elements	
Value set HIV (2.16.840.1.113883.3.464.1003.120.12.1003): Removed HIV.	Logic	QDM Data Elements	
Value set HIV 1 (2.16.840.1.113883.3.464.1003.120.12.1004): Added HIV 1.	Logic	QDM Data Elements	
Value set HIV Visit (2.16.840.1.113883.3.464.1003.101.12.1047): Removed HIV Visit.	Logic	QDM Data Elements	
Value set Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001): Added Office Visit.	Logic	QDM Data Elements	
Value set Outpatient Consultation (2.16.840.1.113883.3.464.1003.101.12.1008): Added Outpatient Consultation.	Logic	QDM Data Elements	
Value set Preventive Care - Established Office Visit, 0 to 17 (2.16.840.1.113883.3.464.1003.101.12.1024): Added Preventive Care - Established Office Visit, 0 to 17.	Logic	QDM Data Elements	
Value set Preventive Care- Initial Office Visit, 0 to 17 (2.16.840.1.113883.3.464.1003.101.12.1022): Added Preventive Care- Initial Office Visit, 0 to 17.	Logic	QDM Data Elements	
Value set Preventive Care Services - Established Office Visit, 18 and Up (2.16.840.1.113883.3.464.1003.101.12.1025): Added Preventive Care Services - Established Office Visit, 18 and Up.	Logic	QDM Data Elements	
Value set Preventive Care Services-Initial Office Visit, 18 and Up (2.16.840.1.113883.3.464.1003.101.12.1023): Added Preventive Care Services-Initial Office Visit, 18 and Up.	Logic	QDM Data Elements	
Moved HIV Visit from grouping value set to variable name to increase the visibility of which visits qualify for the measure.	Logic	QDM Variables	Measure Lead
Value set Face-to-Face Interaction (2.16.840.1.113883.3.464.1003.101.12.1048): Added Face-to-Face Interaction.	Logic	QDM Variables	
Value set Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001): Added Office Visit.	Logic	QDM Variables	
Value set Outpatient Consultation (2.16.840.1.113883.3.464.1003.101.12.1008): Added Outpatient Consultation.	Logic	QDM Variables	
Value set Preventive Care - Established Office Visit, 0 to 17 (2.16.840.1.113883.3.464.1003.101.12.1024): Added Preventive Care - Established Office Visit, 0 to 17.	Logic	QDM Variables	
Value set Preventive Care- Initial Office Visit, 0 to 17 (2.16.840.1.113883.3.464.1003.101.12.1022): Added Preventive Care- Initial Office Visit, 0 to 17.	Logic	QDM Variables	
Value set Preventive Care Services - Established Office Visit, 18 and Up (2.16.840.1.113883.3.464.1003.101.12.1025): Added Preventive Care Services - Established Office Visit, 18 and Up.	Logic	QDM Variables	
Value set Preventive Care Services-Initial Office Visit, 18 and Up (2.16.840.1.113883.3.464.1003.101.12.1023): Added Preventive Care Services-Initial Office Visit, 18 and Up.	Logic	QDM Variables	
Value set Face-to-Face Interaction (2.16.840.1.113883.3.464.1003.101.12.1048): Added Face-to-Face Interaction.	Value Set		
Value set HIV (2.16.840.1.113883.3.464.1003.120.12.1003): Removed HIV.	Value Set		
Value set HIV 1 (2.16.840.1.113883.3.464.1003.120.12.1004): Added HIV 1.	Value Set		
Value set HIV Visit (2.16.840.1.113883.3.464.1003.101.12.1047): Removed HIV Visit.	Value Set		
Value set Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001): Added Office Visit.	Value Set		
Value set Outpatient Consultation (2.16.840.1.113883.3.464.1003.101.12.1008): Added Outpatient Consultation.	Value Set		
Value set Preventive Care - Established Office Visit, 0 to 17 (2.16.840.1.113883.3.464.1003.101.12.1024): Added Preventive Care - Established Office Visit, 0 to 17.	Value Set		
Value set Preventive Care- Initial Office Visit, 0 to 17 (2.16.840.1.113883.3.464.1003.101.12.1022): Added Preventive Care- Initial Office Visit, 0 to 17.	Value Set		
Value set Preventive Care Services - Established Office Visit, 18 and Up (2.16.840.1.113883.3.464.1003.101.12.1025): Added Preventive Care Services - Established Office Visit, 18 and Up.	Value Set		
Value set Preventive Care Services-Initial Office Visit, 18 and Up (2.16.840.1.113883.3.464.1003.101.12.1023): Added Preventive Care Services-Initial Office Visit, 18 and Up.	Value Set		

CMS64v6 - Preventive Care and Screening: Risk-Stratified Cholesterol – Fasting Low Density Lipoprotein (LDL-C)

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Copyright.	Header	Copyright	Annual Update
Incremented eMeasure Version number.	Header	eMeasure Version number	Annual Update
Update two broken links.	Header	Reference	Measure Lead
Changed QDM category for Palliative Care exclusion from Procedure to Intervention for harmonization with other like MU measures.	Logic	QDM Data Elements	JIRA (CQM-1546)
Replaced datatype 'Diagnosis, Family Hx' with new 'Family history' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Value set Female (2.16.840.1.113883.3.560.100.2): Changed code system from 'AdministrativeSex' to 'AdministrativeGender'.	Logic	QDM Data Elements	Code System Update
Value set Male (2.16.840.1.113883.3.560.100.1): Changed code system from 'AdministrativeSex' to 'AdministrativeGender'.	Logic	QDM Data Elements	Code System Update
Value set Peripheral Arterial or Vascular Disease (2.16.840.1.113762.1.4.1047.21): Renamed Peripheral Arterial or Vascular Disease to Atherosclerosis and Peripheral Arterial Disease.	Logic	QDM Data Elements	
Changed QDM category for Palliative Care exclusion from Procedure to Intervention for harmonization with other like MU measures.	Logic	QDM Variables	JIRA (CQM-1546)
Replaced datatype 'Diagnosis, Family Hx' with new 'Family history' datatype to conform to QDM 4.2 changes.	Logic	QDM Variables	QDM Standards
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Variables	QDM Standards
Value set Peripheral Arterial or Vascular Disease (2.16.840.1.113762.1.4.1047.21): Renamed Peripheral Arterial or Vascular Disease to Atherosclerosis and Peripheral Arterial Disease.	Logic	QDM Variables	
Value set Acute Myocardial Infarction (2.16.840.1.113883.3.464.1003.104.12.1001): Added 21 ICD9CM codes. Added 15 ICD10CM codes.	Value Set		
Value set Anti-Hypertensive Pharmacologic Therapy (2.16.840.1.113883.3.600.1476): Added 3 RXNORM codes (1665057, 1719286, 1719290) and deleted 18 RXNORM codes.	Value Set		
Value set Atherosclerosis and Peripheral Arterial Disease (2.16.840.1.113762.1.4.1047.21): Added 14 SNOMEDCT codes. Added 14 ICD9CM codes. Added 61 ICD10CM codes.	Value Set		
Value set CABG Surgeries (2.16.840.1.113883.3.666.5.694): Added 1 SNOMEDCT code (232722009) and deleted 1 SNOMEDCT code (61236006).	Value Set		
Value set Coronary Artery Disease No MI (2.16.840.1.113883.3.526.3.369): Added 1 SNOMEDCT code (443502000).	Value Set		JIRA (CQM-1854)
Value set Diabetes (2.16.840.1.113883.3.464.1003.103.12.1001): Added 11 ICD9CM codes (250.40, 357.2, 362.01, 362.02, 362.03, 362.04, 362.05, 362.06, 362.07, 366.41, 648.00).	Value Set		
Value set Female (2.16.840.1.113883.3.560.100.2): Changed code system from 'AdministrativeSex' to 'AdministrativeGender'.	Value Set		Code System Update
Value set Ischemic Stroke (2.16.840.1.113883.3.117.1.7.1.247): Added 3 SNOMEDCT codes (230701008, 307363008, 426107000) and deleted 5 SNOMEDCT codes (233964008, 288723005, 300920004, 64586002, 71444005). Deleted 18 ICD10CM codes.	Value Set		
Value set Ischemic Vascular Disease (2.16.840.1.113883.3.464.1003.104.12.1003): Added 9 ICD9CM codes (414.3, 414.4, 437.0, 440.0, 440.30, 440.31, 440.32, 440.8, 440.9) and deleted 1 ICD9CM code(413.1). Added 206 ICD10CM codes and deleted 1 ICD10CM code (I20.1).	Value Set		
Value set Male (2.16.840.1.113883.3.560.100.1): Changed code system from 'AdministrativeSex' to 'AdministrativeGender'.	Value Set		Code System Update
Value set Peripheral Arterial or Vascular Disease (2.16.840.1.113762.1.4.1047.21): Renamed Peripheral Arterial or Vascular Disease to Atherosclerosis and Peripheral Arterial Disease.	Value Set		

CMS65v6 - Hypertension: Improvement in Blood Pressure

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Copyright.	Header	Copyright	Annual Update
Incremented eMeasure Version number.	Header	eMeasure Version number	Annual Update
Updated Rationale.	Header	Rationale	Measure Lead
Updated References.	Header	Reference	Measure Lead
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Denominator Exclusions	QDM Standards
Adjusted timing statement to capture the time period specified in the measure description.	Logic	Initial Population	Measure Lead
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Initial Population	QDM Standards
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Value set Kidney Transplant (2.16.840.1.113883.3.464.1003.109.12.1012): Added 1 HCPCS code (S2065).	Value Set		

CMS66v5 - Functional Status Assessment for Total Knee Replacement

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Clinical Recommendation Statement.	Header	Clinical Recommendation Statement	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Updated Denominator Exclusion language to reference fractures as an indication of trauma.	Header	Denominator Exclusions	Measure Lead
Updated the description to 'years of age' instead of 'aged' to align language with other measures.	Header	Description	Measure Lead
Incremented eMeasure Version number.	Header	eMeasure Version number	Annual Update
Removed guidance about QRDA as it is not pertinent to the measure calculation.	Header	Guidance	Measure Lead
Updated Initial Population description to reference patients of a certain age instead of adults to align language with other measures.	Header	Initial Population	Measure Lead
Updated Rationale.	Header	Rationale	Measure Lead
Updated References.	Header	Reference	Measure Lead
Added the word 'Total' to the title to indicate the type of replacement surgery.	Header	Title	Measure Lead
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Denominator Exclusions	QDM Standards
Moved the attribute to the right hand side of the numerator statement to align with QDM requirements.	Logic	Numerator	QDM Standards
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Value set Fracture - Lower Body (2.16.840.1.113883.3.464.1003.113.12.1037): Added 40 SNOMEDCT codes.	Value Set		

CMS68v6 - Documentation of Current Medications in the Medical Record

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Clinical Recommendation Statement.	Header	Clinical Recommendation Statement	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Incremented eMeasure Version number.	Header	eMeasure Version number	Annual Update
Added Measure Item Count entry to indicate data element counted for an episode of care.	Header	Measure Item Count	External Review
Revised rationale to provide succinct review of information.	Header	Rationale	Measure Lead
Updated References.	Header	Reference	Measure Lead
Value set Medications Encounter Code Set (2.16.840.1.113883.3.600.1.1834): Deleted 3 SNOMEDCT codes (278465006, 397745006, 428119001). Added 4 CPT codes (92537, 92538, 92540, 92550) and deleted 8 CPT codes (90957, 90958, 90959, 90960, 90962, 90965, 90966, 92543).	Value Set		

CMS69v5 - Preventive Care and Screening: Body Mass Index (BMI) Screening and Follow-Up Plan

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Clinical recommendations with information on treatment of older populations.	Header	Clinical Recommendation Statement	Expert Work Group Review
Updated Copyright.	Header	Copyright	Annual Update
Added exceptions to the measure specifications, including medical reasons for not performing indicated follow-up plan.	Header	Denominator Exceptions	Expert Work Group Review
Updated to reflect the change in measure specifications to one Initial Population. Removed Medical reason for exclusion.	Header	Denominator Exclusions	Expert Work Group Review
Updated measure description to align with clinical guidelines by removing separate population criteria for patients age 65 and older.	Header	Description	Expert Work Group Review
Incremented eMeasure Version number.	Header	eMeasure Version number	Annual Update
Updated Guidance to address elderly population.	Header	Guidance	Expert Work Group Review
Updated Initial Population to align with clinical guidelines by removing separate population criteria for patients age 65 and older.	Header	Initial Population	Expert Work Group Review
Updated Rationale with most recent literature review.	Header	Rationale	Expert Work Group Review
Updated.	Header	Reference	Expert Work Group Review
Added medical reason exception for interventions and medication order.	Logic	Denominator Exceptions	Expert Work Group Review
Changed QDM category for Palliative Care exclusion from Procedure to Intervention for harmonization with other like MU measures.	Logic	Denominator Exclusions	JIRA (CQM-1546)
Removed medical reason exclusion.	Logic	Denominator Exclusions	Expert Work Group Review
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Denominator Exclusions	QDM Standards
Removed Population Criteria 2 from measure; Updated Initial Population for Population Criteria 1 by removing the upper age limit.	Logic	Initial Population	Expert Work Group Review
Changed QDM category for Palliative Care exclusion from Procedure to Intervention for harmonization with other like MU measures.	Logic	QDM Data Elements	JIRA (CQM-1546)
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Value set BMI Encounter Code Set (2.16.840.1.113883.3.600.1.1751): Deleted 1 CPT code (90839).	Value Set		
Value set Overweight (2.16.840.1.113883.3.600.2387): Added 1 SNOMEDCT code (414916001).	Value Set		JIRA (CQM-1642)

CMS74v6 - Primary Caries Prevention Intervention as Offered by Primary Care Providers, including Dentists

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Clinical Recommendation Statement.	Header	Clinical Recommendation Statement	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Incremented eMeasure Version number.	Header	eMeasure Version number	Annual Update
Updated References.	Header	Reference	Measure Lead
Value set Fluoride Varnish Application for Children (2.16.840.1.113883.3.464.1003.125.12.1002): Added 1 CPT code (99188).	Value Set		

CMS75v5 - Children Who Have Dental Decay or Cavities

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Copyright.	Header	Copyright	Annual Update
Removed period from the end of the description.	Header	Description	Measure Lead
Incremented eMeasure Version number.	Header	eMeasure Version number	Annual Update
Added the word 'None' to align with QDM guidance when there is no guidance.	Header	Guidance	Measure Lead
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Numerator	QDM Standards
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards

CMS77v5 - HIV/AIDS: RNA Control for Patients with HIV

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Clinical Recommendation Statement.	Header	Clinical Recommendation Statement	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Updated Denominator Exclusion with the word 'None' as required by the QDM.	Header	Denominator Exclusions	Measure Lead
Incremented eMeasure Version number.	Header	eMeasure Version number	Annual Update
Added the timing of during the measurement period to the numerator description to match the logic.	Header	Numerator	Measure Lead
Updated Rate Aggregation with the word 'None' as required by the QDM.	Header	Rate Aggregation	Measure Lead
Updated Rationale.	Header	Rationale	Measure Lead
Updated References.	Header	Reference	Measure Lead
Moved HIV Visit from grouping value set to variable name to increase the visibility of which visits qualify for the measure.	Logic	Initial Population	Measure Lead
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Initial Population	QDM Standards
Value set HIV (2.16.840.1.113883.3.464.1003.120.12.1003): Removed HIV.	Logic	Initial Population	
Value set HIV 1 (2.16.840.1.113883.3.464.1003.120.12.1004): Added HIV 1.	Logic	Initial Population	
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Value set Face-to-Face Interaction (2.16.840.1.113883.3.464.1003.101.12.1048): Added Face-to-Face Interaction.	Logic	QDM Data Elements	
Value set HIV (2.16.840.1.113883.3.464.1003.120.12.1003): Removed HIV.	Logic	QDM Data Elements	
Value set HIV 1 (2.16.840.1.113883.3.464.1003.120.12.1004): Added HIV 1.	Logic	QDM Data Elements	
Value set HIV Visit (2.16.840.1.113883.3.464.1003.101.12.1047): Removed HIV Visit.	Logic	QDM Data Elements	
Value set Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001): Added Office Visit.	Logic	QDM Data Elements	
Value set Outpatient Consultation (2.16.840.1.113883.3.464.1003.101.12.1008): Added Outpatient Consultation.	Logic	QDM Data Elements	
Value set Preventive Care - Established Office Visit, 0 to 17 (2.16.840.1.113883.3.464.1003.101.12.1024): Added Preventive Care - Established Office Visit, 0 to 17.	Logic	QDM Data Elements	
Value set Preventive Care- Initial Office Visit, 0 to 17 (2.16.840.1.113883.3.464.1003.101.12.1022): Added Preventive Care- Initial Office Visit, 0 to 17.	Logic	QDM Data Elements	
Value set Preventive Care Services - Established Office Visit, 18 and Up (2.16.840.1.113883.3.464.1003.101.12.1025): Added Preventive Care Services - Established Office Visit, 18 and Up.	Logic	QDM Data Elements	
Value set Preventive Care Services-Initial Office Visit, 18 and Up (2.16.840.1.113883.3.464.1003.101.12.1023): Added Preventive Care Services-Initial Office Visit, 18 and Up.	Logic	QDM Data Elements	
Moved HIV Visit from grouping value set to variable name to increase the visibility of which visits qualify for the measure.	Logic	QDM Variables	Measure Lead
Value set Face-to-Face Interaction (2.16.840.1.113883.3.464.1003.101.12.1048): Added Face-to-Face Interaction.	Logic	QDM Variables	
Value set Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001): Added Office Visit.	Logic	QDM Variables	
Value set Outpatient Consultation (2.16.840.1.113883.3.464.1003.101.12.1008): Added Outpatient Consultation.	Logic	QDM Variables	
Value set Preventive Care - Established Office Visit, 0 to 17 (2.16.840.1.113883.3.464.1003.101.12.1024): Added Preventive Care - Established Office Visit, 0 to 17.	Logic	QDM Variables	
Value set Preventive Care- Initial Office Visit, 0 to 17 (2.16.840.1.113883.3.464.1003.101.12.1022): Added Preventive Care- Initial Office Visit, 0 to 17.	Logic	QDM Variables	
Value set Preventive Care Services - Established Office Visit, 18 and Up (2.16.840.1.113883.3.464.1003.101.12.1025): Added Preventive Care Services - Established Office Visit, 18 and Up.	Logic	QDM Variables	
Value set Preventive Care Services-Initial Office Visit, 18 and Up (2.16.840.1.113883.3.464.1003.101.12.1023): Added Preventive Care Services-Initial Office Visit, 18 and Up.	Logic	QDM Variables	
Value set Face-to-Face Interaction (2.16.840.1.113883.3.464.1003.101.12.1048): Added Face-to-Face Interaction.	Value Set		
Value set HIV (2.16.840.1.113883.3.464.1003.120.12.1003): Removed HIV.	Value Set		
Value set HIV 1 (2.16.840.1.113883.3.464.1003.120.12.1004): Added HIV 1.	Value Set		
Value set HIV Visit (2.16.840.1.113883.3.464.1003.101.12.1047): Removed HIV Visit.	Value Set		
Value set Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001): Added Office Visit.	Value Set		
Value set Outpatient Consultation (2.16.840.1.113883.3.464.1003.101.12.1008): Added Outpatient Consultation.	Value Set		
Value set Preventive Care - Established Office Visit, 0 to 17 (2.16.840.1.113883.3.464.1003.101.12.1024): Added Preventive Care - Established Office Visit, 0 to 17.	Value Set		
Value set Preventive Care- Initial Office Visit, 0 to 17 (2.16.840.1.113883.3.464.1003.101.12.1022): Added Preventive Care- Initial Office Visit, 0 to 17.	Value Set		
Value set Preventive Care Services - Established Office Visit, 18 and Up (2.16.840.1.113883.3.464.1003.101.12.1025): Added Preventive Care Services - Established Office Visit, 18 and Up.	Value Set		
Value set Preventive Care Services-Initial Office Visit, 18 and Up (2.16.840.1.113883.3.464.1003.101.12.1023): Added Preventive Care Services-Initial Office Visit, 18 and Up.	Value Set		

CMS82v4 - Maternal depression screening

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Clinical Recommendation Statement.	Header	Clinical Recommendation Statement	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Incremented eMeasure Version number.	Header	eMeasure Version number	Annual Update
Clarified which chart the guidance was referring to.	Header	Guidance	Measure Lead
Updated the age logic for the Initial Population to capture all patients turning 6 months old in the measurement period.	Logic	Initial Population	Measure Lead
Value set BH Medical or psychiatric consultation (2.16.840.1.113883.3.1257.1.1652): Added 10 SNOMEDCT codes (183654001, 185211000, 185389009, 30346009, 371883000, 37894004, 390906007, 40274000, 86013001, 90526000) and deleted 1 SNOMEDCT code (108311000).	Value Set		

CMS90v6 - Functional Status Assessments for Congestive Heart Failure

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Clinical Recommendation Statement.	Header	Clinical Recommendation Statement	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Removed the word 'active' from the denominator exclusion description to conform with QDM 4.2 changes.	Header	Denominator Exclusions	QDM Standards
Updated the measure description to align with the measure intent.	Header	Description	Measure Lead
Incremented eMeasure Version number.	Header	eMeasure Version number	Annual Update
Added the word 'days' after 180 to clarify the unit. Added guidance to indicate the same FSA instrument should be used. Removed the statement about QRDA as it is not pertinent to the measure calculation.	Header	Guidance	Measure Lead
Updated the Initial Population description to align with the measure intent.	Header	Initial Population	Measure Lead
Updated Rationale.	Header	Rationale	Measure Lead
Updated References.	Header	Reference	Measure Lead
Updated measure name to reflect the measure intent.	Header	Title	Measure Lead
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Denominator Exclusions	QDM Standards
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Initial Population	QDM Standards
Revised '\$CCFollowUp' variable logic to capture the most recent encounter so occurencing is no longer needed.	Logic	Initial Population	Measure Lead
Revised '\$CCFollowUp' variable logic to capture the most recent encounter so occurencing is no longer needed.	Logic	Numerator	Measure Lead
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Revised '\$CCFollowUp' variable logic to capture the most recent encounter so occurencing is no longer needed.	Logic	QDM Variables	Measure Lead

CMS117v5 - Childhood Immunization Status

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Clinical Recommendation Statement.	Header	Clinical Recommendation	Measure Lead
Updated Copyright.	Header	Statement Copyright	Annual Update
Incremented eMeasure Version number.	Header	eMeasure Version number	Annual Update
Clarified the guidance around what events were allowable for numerator compliance.	Header	Guidance	Measure Lead
Updated Improvement Notation.	Header	Improvement Notation	Measure Lead
Updated References.	Header	Reference	Measure Lead
Reordered numerator statements so all vaccinations follow the same pattern.	Logic	Numerator	Measure Lead
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Numerator	QDM Standards
Replaced 'Medication' QDM category with 'Immunization' QDM category for instances associated with a vaccination/immunization value set (CVX) to conform to QDM 4.2 changes.	Logic	Numerator	QDM Standards
Updated 'hours' to 'days' for the timing between Rotavirus 3 shots to align the timing with the other vaccinations.	Logic	Numerator	JIRA (CQM-1581)
Value set Encephalopathy (2.16.840.1.113883.3.464.1003.114.12.1007): Renamed Encephalopathy to Encephalopathy due to Childhood Vaccination.	Logic	Numerator	
Value set Hemophilus Influenze B (HiB) Vaccine (2.16.840.1.113883.3.464.1003.196.12.1217): Renamed Hemophilus Influenze B (HiB) Vaccine to Haemophilus Influenzae Type B (HiB) Vaccine.	Logic	Numerator	
Value set Hemophilus Influenze B (HiB) Vaccine Administered (2.16.840.1.113883.3.464.1003.110.12.1043): Renamed Hemophilus Influenze B (HiB) Vaccine Administered to Haemophilus Influenzae Type B (HiB) Vaccine Administered.	Logic	Numerator	
Value set Malignant Neoplasm of Lymphatic and Hematopietic Tissue (2.16.840.1.113883.3.464.1003.108.12.1009): Renamed Malignant Neoplasm of Lymphatic and Hematopietic Tissue to Malignant Neoplasm of Lymphatic and Hematopietic Tissue.	Logic	Numerator	
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Replaced 'Medication' QDM category with 'Immunization' QDM category for instances associated with a vaccination/immunization value set (CVX) to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Value set Encephalopathy (2.16.840.1.113883.3.464.1003.114.12.1007): Renamed Encephalopathy to Encephalopathy due to Childhood Vaccination.	Logic	QDM Data Elements	
Value set Hemophilus Influenze B (HiB) Vaccine (2.16.840.1.113883.3.464.1003.196.12.1217): Renamed Hemophilus Influenze B (HiB) Vaccine to Haemophilus Influenzae Type B (HiB) Vaccine.	Logic	QDM Data Elements	
Value set Hemophilus Influenze B (HiB) Vaccine Administered (2.16.840.1.113883.3.464.1003.110.12.1043): Renamed Hemophilus Influenze B (HiB) Vaccine Administered to Haemophilus Influenzae Type B (HiB) Vaccine Administered.	Logic	QDM Data Elements	
Value set Malignant Neoplasm of Lymphatic and Hematopietic Tissue (2.16.840.1.113883.3.464.1003.108.12.1009): Renamed Malignant Neoplasm of Lymphatic and Hematopietic Tissue to Malignant Neoplasm of Lymphatic and Hematopietic Tissue.	Logic	QDM Data Elements	
Replaced 'Medication' QDM category with 'Immunization' QDM category for instances associated with a vaccination/immunization value set (CVX) to conform to QDM 4.2 changes.	Logic	QDM Variables	QDM Standards
Value set Disorders of the Immune System (2.16.840.1.113883.3.464.1003.120.12.1001): Deleted 1 SNOMEDCT code (191352003).	Value Set		
Value set Encephalopathy (2.16.840.1.113883.3.464.1003.114.12.1007): Renamed Encephalopathy to Encephalopathy due to Childhood Vaccination.	Value Set		
Value set Hemophilus Influenze B (HiB) Vaccine (2.16.840.1.113883.3.464.1003.196.12.1217): Renamed Hemophilus Influenze B (HiB) Vaccine to Haemophilus Influenzae Type B (HiB) Vaccine.	Value Set		
Value set Hemophilus Influenze B (HiB) Vaccine Administered (2.16.840.1.113883.3.464.1003.110.12.1043): Renamed Hemophilus Influenze B (HiB) Vaccine Administered to Haemophilus Influenzae Type B (HiB) Vaccine Administered.	Value Set		
Value set Hepatitis A (2.16.840.1.113883.3.464.1003.110.12.1024): Deleted 1 SNOMEDCT code (186621007).	Value Set		
Value set Hepatitis B (2.16.840.1.113883.3.464.1003.110.12.1025): Deleted 1 SNOMEDCT code (186623005).	Value Set		
Value set HIV (2.16.840.1.113883.3.464.1003.120.12.1003): Added 1 ICD9CM code (079.53). Added 1 ICD10CM code (B97.35).	Value Set		
Value set Malignant Neoplasm of Lymphatic and Hematopietic Tissue (2.16.840.1.113883.3.464.1003.108.12.1009): Renamed Malignant Neoplasm of Lymphatic and Hematopietic Tissue to Malignant Neoplasm of Lymphatic and Hematopietic Tissue.	Value Set		

CMS122v5 - Diabetes: Hemoglobin A1c (HbA1c) Poor Control (> 9%)

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Clinical Recommendation Statement.	Header	Clinical Recommendation Statement	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Incremented eMeasure Version number.	Header	eMeasure Version number	Annual Update
Clarified when the HBA1c test result was in the medical record, it could be used to determine numerator compliance.	Header	Guidance	Measure Lead
Updated Rationale.	Header	Rationale	Measure Lead
Updated References.	Header	Reference	Measure Lead
Updated measure name to harmonize with the endorsed measure name.	Header	Title	Measure Lead
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Initial Population	QDM Standards
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Value set Diabetes (2.16.840.1.113883.3.464.1003.103.12.1001): Added 11 ICD9CM codes (250.40, 357.2, 362.01, 362.02, 362.03, 362.04, 362.05, 362.06, 362.07, 366.41, 648.00).	Value Set		

CMS123v5 - Diabetes: Foot Exam

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Clinical Recommendation Statement.	Header	Clinical Recommendation Statement	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Updated measure description to align with the NQF-endorsed description.	Header	Description	Measure Lead
Incremented eMeasure Version number.	Header	eMeasure Version number	Annual Update
Updated Numerator Exclusion to Not Applicable to match the QDM standard when there are no exclusions.	Header	Numerator Exclusions	Measure Lead
Updated Rationale.	Header	Rationale	Measure Lead
Updated References.	Header	Reference	Measure Lead
Replaced 'laterality' attribute with 'anatomical location site' attribute on 'Procedure, performed' and 'Diagnosis' datatypes to conform to QDM 4.2 changes.	Logic	Denominator Exclusions	QDM Standards
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Denominator Exclusions	QDM Standards
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Initial Population	QDM Standards
Replaced 'laterality' attribute with 'anatomical location site' attribute on 'Procedure, performed' and 'Diagnosis' datatypes to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Value set Diabetes (2.16.840.1.113883.3.464.1003.103.12.1001): Added 11 ICD9CM codes (250.40, 357.2, 362.01, 362.02, 362.03, 362.04, 362.05, 362.06, 362.07, 366.41, 648.00).	Value Set		
Value set Left (2.16.840.1.113883.3.464.1003.122.12.1036): Added 1 SNOMEDCT code (419161000).	Value Set		
Value set Right (2.16.840.1.113883.3.464.1003.122.12.1035): Added 1 SNOMEDCT code (419465000).	Value Set		

CMS124v5 - Cervical Cancer Screening

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Clinical Recommendation Statement.	Header	Clinical Recommendation Statement	
Updated Copyright.	Header	Copyright	Annual Update
Added an HPV/Pap co-test in the past 5 years for women 30-64 years of age to the numerator to align with updated USPSTF guidelines.	Header	Description	JIRA (CQM-1440)
Incremented eMeasure Version number.	Header	eMeasure Version number	Annual Update
Added guidance to explain the age ranges in the measure logic and description.	Header	Guidance	JIRA (CQM-1440)
Added an HPV/Pap co-test in the past 5 years for women 30-64 years of age to the numerator to align with updated USPSTF guidelines.	Header	Numerator	JIRA (CQM-1440)
Updated Rationale.	Header	Rationale	Measure Lead
Updated References.	Header	Reference	Measure Lead
Added an HPV/Pap co-test in the past 5 years for women 30-64 years of age to the numerator to align with updated USPSTF guidelines.	Logic	Numerator	JIRA (CQM-1440)
Value set Female (2.16.840.1.113883.3.560.100.2): Changed code system from 'AdministrativeSex' to 'AdministrativeGender'.	Logic	QDM Data Elements	Code System Update
Value Set HPV Test(2.16.840.1.113883.3.464.1003.110.12.1059): Added value set HPV Test to measure.	Logic	QDM Data Elements	
Value set Female (2.16.840.1.113883.3.560.100.2): Changed code system from 'AdministrativeSex' to 'AdministrativeGender'.	Value Set		Code System Update
Value Set HPV Test(2.16.840.1.113883.3.464.1003.110.12.1059): Added value set HPV Test to measure.	Value Set		

CMS125v5 - Breast Cancer Screening

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Copyright.	Header	Copyright	Annual Update
Added exclusion for women who self-report as previously having a mastectomy.	Header	Denominator Exclusions	Measure Lead
Update the age range from 40-69 to 50-74 years of age to align with USPSTF guidelines.	Header	Description	JIRA (CQM-1635)
Incremented eMeasure Version number.	Header	eMeasure Version number	Annual Update
Added NQF as endorsing organization and endorsement number.	Header	Endorsed By	JIRA (CQM-1635)
Update the age range from 40-69 to 50-74 years of age to align with USPSTF guidelines.	Header	Initial Population	JIRA (CQM-1635)
Added NQF as endorsing organization and endorsement number.	Header	NQF Number	JIRA (CQM-1635)
Extended numerator timeframe from 24 months to 27 months to allow a 3-month grace period.	Header	Numerator	Measure Lead
Added exclusion for women who self-report as previously having a mastectomy.	Logic	Denominator Exclusions	Measure Lead
Replaced ‘laterality’ attribute with ‘anatomical location site’ attribute on ‘Procedure, performed’ and ‘Diagnosis’ datatypes to conform to QDM 4.2 changes.	Logic	Denominator Exclusions	QDM Standards
Update the age range from 40-69 to 50-74 years of age to align with USPSTF guidelines.	Logic	Initial Population	JIRA (CQM-1635)
Extend numerator timeframe from 24 months to 27 months to allow a 3-month grace period.	Logic	Numerator	Measure Lead
Replaced ‘laterality’ attribute with ‘anatomical location site’ attribute on ‘Procedure, performed’ and ‘Diagnosis’ datatypes to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Value set Female (2.16.840.1.113883.3.560.100.2): Changed code system from 'AdministrativeSex' to 'AdministrativeGender'.	Logic	QDM Data Elements	Code System Update
Value set Bilateral Mastectomy (2.16.840.1.113883.3.464.1003.198.12.1005): Added 1 SNOMEDCT code (456903003).	Value Set		
Value set History of bilateral mastectomy (2.16.840.1.113883.3.464.1003.198.12.1068): Added History of bilateral mastectomy.	Value Set		
Value set Left (2.16.840.1.113883.3.464.1003.122.12.1036): Added 1 SNOMEDCT code (419161000).	Value Set		
Value set Left Mastectomy (2.16.840.1.113883.3.464.1003.198.12.1069): Added Left Mastectomy.	Value Set		
Value set Male (2.16.840.1.113883.3.560.100.1): Changed code system from 'AdministrativeSex' to 'AdministrativeGender'.	Value Set		Code System Update
Value set Right (2.16.840.1.113883.3.464.1003.122.12.1035): Added 1 SNOMEDCT code (419465000).	Value Set		
Value set Right Mastectomy (2.16.840.1.113883.3.464.1003.198.12.1070): Added Right Mastectomy.	Value Set		
Value set Unilateral Mastectomy (2.16.840.1.113883.3.464.1003.198.12.1020): Deleted 6 SNOMEDCT codes (22964006, 317230007, 72269009, 73359007, 8115005, 88764002).	Value Set		
Value set Unilateral Mastectomy, Unspecified Laterality (2.16.840.1.113883.3.464.1003.198.12.1071): Added Unilateral Mastectomy, Unspecified Laterality.	Value Set		

CMS126v5 - Use of Appropriate Medications for Asthma

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Clinical Recommendation Statement.	Header	Clinical Recommendation Statement	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Updated exclusion logic to include Obstructive Chronic Bronchitis as a denominator exclusion to ensure all exclusions were captured in the measure logic.	Header	Denominator Exclusions	JIRA (CQM-1671)
Updated language for the Denominator Exclusions description to match the logic.	Header	Denominator Exclusions Description	Measure Lead
Updated Medication Dispensed to Medication Order.	Header		JIRA (CQM-1488)
Incremented eMeasure Version number.	Header	eMeasure Version number	Annual Update
Removed Endorsement.	Header	Endorsed By	Measure Lead
Removed Endorsement Number.	Header	NQF Number	Measure Lead
Updated References.	Header	Reference	Measure Lead
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Denominator Exclusions	QDM Standards
Value set Obstructive Chronic Bronchitis (2.16.840.1.113883.3.464.1003.102.12.1024): Added Obstructive Chronic Bronchitis.	Logic	Denominator Exclusions	JIRA (CQM-1671)
Value set Obstructive Chronic Bronchitis (2.16.840.1.113883.3.464.1003.102.12.1024): Added Obstructive Chronic Bronchitis.	Logic	Denominator Exclusions	
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Initial Population	QDM Standards
Updated Medication Dispensed to Medication Order.	Logic	Numerator	JIRA (CQM-1488)
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Updated Medication Dispensed to Medication Order.	Logic	QDM Data Elements	JIRA (CQM-1488)
Value set Obstructive Chronic Bronchitis (2.16.840.1.113883.3.464.1003.102.12.1024): Added Obstructive Chronic Bronchitis.	Logic	QDM Data Elements	
Value set Obstructive Chronic Bronchitis (2.16.840.1.113883.3.464.1003.102.12.1024): Added Obstructive Chronic Bronchitis.	Value Set		
Value set Preferred Asthma Therapy (2.16.840.1.113883.3.464.1003.196.12.1212): Deleted 22 RXNORM codes.	Value Set		

CMS127v5 - Pneumococcal Vaccination Status for Older Adults

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Clinical Recommendation Statement.	Header	Clinical Recommendation Statement	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Incremented eMeasure Version number.	Header	eMeasure Version number	Annual Update
Removed the guidance statement as it no longer aligns with the clinical guidelines.	Header	Guidance	Measure Lead
Updated References.	Header	Reference	Measure Lead
Updated measure name to harmonize with the endorsed measure name.	Header	Title	Measure Lead
Replaced 'Medication' QDM category with 'Immunization' QDM category for instances associated with a vaccination/immunization value set (CVX) to conform to QDM 4.2 changes.	Logic	Numerator	QDM Standards
Replaced 'Medication' QDM category with 'Immunization' QDM category for instances associated with a vaccination/immunization value set (CVX) to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Value set Pneumococcal Vaccine Administered (2.16.840.1.113883.3.464.1003.110.12.1034): Added 1 CPT code (90670).	Value Set		

CMS128v5 - Anti-depressant Medication Management

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Copyright.	Header	Copyright	Annual Update
Removed the definition for index episode start date and updated the description for index prescription start date to match the new timing requirements.	Header	Definition	Measure Lead
Update the timing of the medication for the Denominator Exclusion to reflect 105 days instead of 90 days for a negative medication history to capture patients refilling prescriptions before their prior 90-day prescription is complete.	Header	Denominator Exclusions	JIRA (CQM-1712)
Updated description and logic to reflect a change in the measure intent to include patients who were prescribed a new antidepressant medication, rather than patients who had a diagnosis of depression.	Header	Description	Measure Lead
Incremented eMeasure Version number.	Header	eMeasure Version number	Annual Update
Updated description and logic to reflect a change in the measure intent to include patients who were prescribed a new antidepressant medication, rather than patients who had a diagnosis of depression.	Header	Initial Population	Measure Lead
Updated Rationale.	Header	Rationale	Measure Lead
Updated References.	Header	Reference	Measure Lead
Update the timing of the medication for the Denominator Exclusion to reflect 105 days instead of 90 days for a negative medication history to capture patients refilling prescriptions before their prior 90-day prescription is complete.	Logic	Denominator Exclusions	JIRA (CQM-1712)
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Variables	QDM Standards
Value set Antidepressant Medication (2.16.840.1.113883.3.464.1003.196.12.1213): Added 3 RXNORM codes (1607617, 616402, 1430122) and deleted 3 RXNORM codes (1098710, 309671, 309672).	Value Set		
Value set Major Depression (2.16.840.1.113883.3.464.1003.105.12.1007): Deleted 2 ICD9CM codes (298.0, 311). Added 4 SNOMEDCT codes (251000119105, 281000119103, 321717001, 450714000).	Value Set		

CMS129v6 - Prostate Cancer: Avoidance of Overuse of Bone Scan for Staging Low Risk Prostate Cancer Patients

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Copyright.	Header	Copyright	Annual Update
Updated Definitions.	Header	Definition	Measure Lead
Updated Denominator to align with current guidelines. Added reference to very low risk stratum.	Header	Denominator	Measure Lead
Updated Description to align with current guidelines. Added reference to very low risk stratum.	Header	Description	Measure Lead
Updated Disclaimer.	Header	Disclaimer	Measure Lead
Incremented eMeasure Version number.	Header	eMeasure Version number	Annual Update
Updated Guidance to align with current guidelines. Added reference to very low risk stratum.	Header	Guidance	Measure Lead
Updated Measure Developer.	Header	Measure Developer	Measure Lead
Updated Measure Steward.	Header	Measure Steward	Measure Lead
Updated Rationale.	Header	Rationale	Measure Lead
Updated References.	Header	Reference	Measure Lead
Added attributes, 'Result: Prostate Cancer Primary Tumor Size T1a' and 'Result: Prostate Cancer Primary Tumor Size T1b', to \$MostRecentPrCaCancerStaging logic to align with current guidelines.	Logic	Denominator	Measure Lead
Replaced 'Clinical Staging Procedure' value set with 'Cancer Staging' value set to address clinical experts' recommendation.	Logic	Denominator	Measure Lead
Replaced \$MostRecentPrCaClinicalStaging variable with \$MostRecentPrCaCancerStaging.	Logic	Denominator	Measure Lead
Updated PSA threshold result value from <= 10 ng/mL to < 10 ng/mL in the denominator logic to align with current guidelines.	Logic	Denominator	Measure Lead
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Denominator Exceptions	QDM Standards
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Initial Population	QDM Standards
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Numerator	QDM Standards
Added attributes, 'Result: Prostate Cancer Primary Tumor Size T1a' and 'Result: Prostate Cancer Primary Tumor Size T1b', to align with current guidelines.	Logic	QDM Data Elements	Measure Lead
Replaced 'Clinical Staging Procedure' (2.16.840.1.113883.3.526.3.1098) value set with 'Cancer Staging' (2.16.840.1.113883.3.526.3.1536) value set to address clinical experts' recommendation.	Logic	QDM Data Elements	Measure Lead
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Value set Male (2.16.840.1.113883.3.560.100.1): Changed code system from 'AdministrativeSex' to 'AdministrativeGender'.	Logic	QDM Data Elements	Code System Update
Added attributes, 'Result: Prostate Cancer Primary Tumor Size T1a' and 'Result: Prostate Cancer Primary Tumor Size T1b', to \$MostRecentPrCaCancerStaging logic to align with current guidelines.	Logic	QDM Variables	Measure Lead
Replaced 'Clinical Staging Procedure' value set with 'Cancer Staging' value set to address clinical experts' recommendation.	Logic	QDM Variables	Measure Lead
Replaced \$MostRecentPrCaClinicalStaging variable with \$MostRecentPrCaCancerStaging.	Logic	QDM Variables	Measure Lead
Replaced 'Clinical Staging Procedure' (2.16.840.1.113883.3.526.3.1098) value set with 'Cancer Staging' (2.16.840.1.113883.3.526.3.1536) value set to address clinical experts' recommendation.	Value Set		Measure Lead
Value set Male (2.16.840.1.113883.3.560.100.1): Changed code system from 'AdministrativeSex' to 'AdministrativeGender'.	Value Set		Code System Update
Value set Prostate Cancer Primary Tumor Size T1a (2.16.840.1.113883.3.526.3.1534): Added to measure including 1 SNOMEDCT code (369833007).	Value Set		
Value set Prostate Cancer Primary Tumor Size T1b (2.16.840.1.113883.3.526.3.1535): Added to measure including 1 SNOMEDCT code (369834001).	Value Set		
Value set Prostate Cancer Treatment (2.16.840.1.113883.3.526.3.398): Added 2 CPT codes (77772, 77799) and deleted 3 CPT codes (77776, 77777, 77787).	Value Set		

CMS130v5 - Colorectal Cancer Screening

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Clinical Recommendation Statement.	Header	Clinical Recommendation Statement	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Incremented eMeasure Version number.	Header	eMeasure Version number	Annual Update
Removed the word 'below' from the description because it is redundant.	Header	Numerator	Measure Lead
Updated Rationale.	Header	Rationale	Measure Lead
Updated References.	Header	Reference	Measure Lead
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Denominator Exclusions	QDM Standards
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Value set Malignant Neoplasm of Colon (2.16.840.1.113883.3.464.1003.108.12.1001): Added 1 SNOMEDCT code (123721000119108). Added 1 ICD9CM code (154.8).	Value Set		
Value set Total Colectomy (2.16.840.1.113883.3.464.1003.198.12.1019): Deleted 1 SNOMEDCT code (427816007).	Value Set		

CMS131v5 - Diabetes: Eye Exam

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Clinical Recommendation Statement.	Header	Clinical Recommendation Statement	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Incremented eMeasure Version number.	Header	eMeasure Version number	Annual Update
Updated Rationale.	Header	Rationale	Measure Lead
Updated References.	Header	Reference	Measure Lead
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Initial Population	QDM Standards
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Value set Diabetes (2.16.840.1.113883.3.464.1003.103.12.1001): Added 11 ICD9CM codes (250.40, 357.2, 362.01, 362.02, 362.03, 362.04, 362.05, 362.06, 362.07, 366.41, 648.00).	Value Set		

CMS132v5 - Cataracts: Complications within 30 Days Following Cataract Surgery Requiring Additional Surgical Procedures

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Copyright.	Header	Copyright	Annual Update
Updated Disclaimer.	Header	Disclaimer	Measure Lead
Incremented eMeasure Version number.	Header	eMeasure Version number	Annual Update
Updated Measure Developer.	Header	Measure Developer	Measure Lead
Updated Measure Steward.	Header	Measure Steward	Measure Lead
Updated Rationale.	Header	Rationale	Measure Lead
Updated References.	Header	Reference	Measure Lead
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Denominator Exclusions	QDM Standards
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Value set Retinal Repair Procedures (2.16.840.1.113883.3.526.3.1437): Deleted 1 CPT code (67112).	Value Set		
Value set Use of Systemic Sympathetic alpha-1a Antagonist Medication for Treatment of Prostatic Hypertrophy (2.16.840.1.113883.3.526.3.1442): Deleted 1 RXNORM code (1088455).	Value Set		
Value set Uveitis (2.16.840.1.113883.3.526.3.1444): Deleted 1 SNOMEDCT code (414602008).	Value Set		

CMS133v5 - Cataracts: 20/40 or Better Visual Acuity within 90 Days Following Cataract Surgery

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Copyright.	Header	Copyright	Annual Update
Updated Disclaimer.	Header	Disclaimer	Measure Lead
Incremented eMeasure Version number.	Header	eMeasure Version number	Annual Update
Updated Measure Developer.	Header	Measure Developer	Measure Lead
Updated Measure Steward.	Header	Measure Steward	Measure Lead
Updated Rationale.	Header	Rationale	Measure Lead
Updated References.	Header	Reference	Measure Lead
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Denominator Exclusions	QDM Standards
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Value set Amblyopia (2.16.840.1.113883.3.526.3.1448): Deleted 1 SNOMEDCT code (12541004).	Value Set		
Value set Uveitis (2.16.840.1.113883.3.526.3.1444): Deleted 1 SNOMEDCT code (414602008).	Value Set		

CMS134v5 - Diabetes: Medical Attention for Nephropathy

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Clinical Recommendation Statement.	Header	Clinical Recommendation Statement	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Incremented eMeasure Version number.	Header	eMeasure Version number	Annual Update
Updated Rationale.	Header	Rationale	Measure Lead
Updated References.	Header	Reference	Measure Lead
Updated measure name to harmonize with the endorsed measure name.	Header	Title	Measure Lead
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Initial Population	QDM Standards
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Numerator	QDM Standards
Value set Kidney Failure (2.16.840.1.113883.3.464.1003.109.12.1028): Added Kidney Failure.	Logic	Numerator	
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Value set Kidney Failure (2.16.840.1.113883.3.464.1003.109.12.1028): Added Kidney Failure.	Logic	QDM Data Elements	
Value set ACE Inhibitor or ARB (2.16.840.1.113883.3.526.3.1139): Added 16 RXNORM codes and deleted 2 RXNORM codes (251857, 833237).	Value Set		
Value set Diabetes (2.16.840.1.113883.3.464.1003.103.12.1001): Added 11 ICD9CM codes (250.40, 357.2, 362.01, 362.02, 362.03, 362.04, 362.05, 362.06, 362.07, 366.41, 648.00).	Value Set		
Value set Kidney Failure (2.16.840.1.113883.3.464.1003.109.12.1028): Added Kidney Failure.	Value Set		
Value set Kidney Transplant (2.16.840.1.113883.3.464.1003.109.12.1012): Added 1 HCPCS code (S2065).	Value Set		
Value set Urine Protein Tests (2.16.840.1.113883.3.464.1003.109.12.1024): Added 4 LOINC codes (20454-5, 53525-2, 57369-1, 57735-3).	Value Set		

CMS135v5 - Heart Failure (HF): Angiotensin-Converting Enzyme (ACE) Inhibitor or Angiotensin Receptor Blocker (ARB) Therapy for Left Ventricular Systolic Dysfunction (LVSD)

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Copyright.	Header	Copyright	Annual Update
Updated Disclaimer.	Header	Disclaimer	Measure Lead
Incremented eMeasure Version number.	Header	eMeasure Version number	Annual Update
Updated Measure Developer.	Header	Measure Developer	Measure Lead
Updated Measure Steward.	Header	Measure Steward	Measure Lead
Updated NQF Number to '2907'. As of February 2016, this measure is endorsed by NQF as an eMeasure and has been assigned a new NQF number.	Header	NQF Number	Measure Lead
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Denominator	QDM Standards
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Denominator Exceptions	QDM Standards
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Initial Population	QDM Standards
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Value set ACE Inhibitor or ARB (2.16.840.1.113883.3.526.3.1139): Added 16 RXNORM codes and deleted 2 RXNORM codes (251857, 833237).	Value Set		
Value set ACE Inhibitor or ARB Ingredient (2.16.840.1.113883.3.526.3.1489): Deleted 1 RXNORM code (214507).	Value Set		
Value set Allergy to ACE Inhibitor or ARB (2.16.840.1.113883.3.526.3.1211): Deleted 1 SNOMEDCT code (407579007).	Value Set		
Value set Medical Reason (2.16.840.1.113883.3.526.3.1007): Deleted 1 SNOMEDCT code (161590003).	Value Set		
Value set Patient Reason (2.16.840.1.113883.3.526.3.1008): Deleted 1 SNOMEDCT code (5015009).	Value Set		

CMS136v6 - ADHD: Follow-Up Care for Children Prescribed Attention-Deficit/ Hyperactivity Disorder (ADHD) Medication

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Clinical Recommendation Statement.	Header	Clinical Recommendation Statement	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Incremented eMeasure Version number.	Header	eMeasure Version number	Annual Update
Updated Rationale.	Header	Rationale	Measure Lead
Updated References.	Header	Reference	Measure Lead
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Denominator Exclusions	QDM Standards
Replaced 'Diagnosis, Active: XXX (ordinality: Principal)' datatype with 'Encounter, Performed: XXX (principal diagnosis)' datatype to conform with QDM 4.2 changes and provide more accurate logic.	Logic	Denominator Exclusions	QDM Standards
Added a 300-day timing constraint for the ADHD medication to align with the Initial Population description.	Logic	Initial Population	JIRA (CQM-1724)
Removed occurring from \$InitialADHDMedication as it is not needed.	Logic	Initial Population	Measure Lead
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Replaced 'Diagnosis, Active: XXX (ordinality: Principal)' datatype with 'Encounter, Performed: XXX (principal diagnosis)' datatype to conform with QDM 4.2 changes and provide more accurate logic.	Logic	QDM Data Elements	QDM Standards
Value set Principal (2.16.840.1.113883.3.117.1.7.1.14): Removed Principal.	Logic	QDM Data Elements	
Combine timing for Medication Dispensed into one statement to simplify the logic.	Logic	QDM Variables	Measure Lead
Rearranged the logic statements to make all sections of the measure match.	Logic	QDM Variables	Measure Lead
Value set ADHD Medications (2.16.840.1.113883.3.464.1003.196.12.1171): Deleted 6 RXNORM codes (1251820, 410062, 884660,977844, 977851, 977857).	Value Set		
Value set Mental Health Diagnoses (2.16.840.1.113883.3.464.1003.105.12.1004): Added 6 ICD9CM codes (294.20, 294.21, 302.51, 302.52, 302.53, 302.6).	Value Set		
Value set Principal (2.16.840.1.113883.3.117.1.7.1.14): Removed Principal value set from measure.	Value Set		

CMS137v5 - Initiation and Engagement of Alcohol and Other Drug Dependence Treatment

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Clinical Recommendation Statement.	Header	Clinical Recommendation Statement	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Incremented eMeasure Version number.	Header	eMeasure Version number	Annual Update
Updated References.	Header	Reference	Measure Lead
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Denominator Exclusions	QDM Standards
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Variables	QDM Standards
Value set Alcohol and Drug Dependence Treatment (2.16.840.1.113883.3.464.1003.106.12.1005): Added 5 SNOMEDCT codes (23915005, 266707007, 310653000, 370884004, 56876005).	Value Set		

CMS138v5 - Preventive Care and Screening: Tobacco Use: Screening and Cessation Intervention

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Clinical Recommendation Statements.	Header	Clinical Recommendation Statement	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Updated Disclaimer.	Header	Disclaimer	Measure Lead
Incremented eMeasure Version number.	Header	eMeasure Version number	Annual Update
Added Guidance regarding the omission of electronic nicotine delivery systems (ENDS) from this measure due to insufficient evidence.	Header	Guidance	JIRA (CQM-1889)
Updated Guidance related to denominator exception applicability; clarified the medical reason exception is unchanged, but the limited life expectancy applicability has been updated.	Header	Guidance	JIRA (CQM-1335)
Updated Measure Developer.	Header	Measure Developer	Measure Lead
Updated Measure Steward.	Header	Measure Steward	Measure Lead
Updated References.	Header	Reference	Measure Lead
Expanded the applicability of the 'Limited Life Expectancy' denominator exception to apply to either of the numerator quality actions (screening or cessation intervention). If a patient has a diagnosis of 'Limited Life Expectancy', it is an allowable exception.	Logic	Denominator Exceptions	JIRA (CQM-1335)
Added 'Home Healthcare Services' as applicable encounters.	Logic	Initial Population	JIRA (CQM-1708)
Updated 'Limited Life Expectancy' to reflect a QDM datatype of 'Diagnosis'.	Logic	QDM Data Elements	JIRA (CQM-1335)
Value set Home Healthcare Services (2.16.840.1.113883.3.464.1003.101.12.1016): added to measure including 9 CPT codes (99341, 99342, 99343, 99344, 99345, 99347, 99348, 99349, 99350).	Value Set		JIRA (CQM-1708)
Value set Medical Reason (2.16.840.1.113883.3.526.3.1007): Deleted 1 SNOMEDCT code (161590003).	Value Set		
Value set Tobacco Use Cessation Pharmacotherapy (2.16.840.1.113883.3.526.3.1190): Added 3 RXNORM codes (1232585, 1551468, 966531) and deleted 5 RXNORM codes (1046847, 1046858, 311972, 311973, 419168).	Value Set		

CMS139v5 - Falls: Screening for Future Fall Risk

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Copyright.	Header	Copyright	Annual Update
Clarified the definition of screening for future fall risk.	Header	Definition	Measure Lead
Updated Disclaimer.	Header	Disclaimer	Measure Lead
Incremented eMeasure Version number.	Header	eMeasure Version number	Annual Update
Updated Measure Developer.	Header	Measure Developer	Measure Lead
Updated Rationale.	Header	Rationale	Measure Lead
Updated References.	Header	Reference	Measure Lead
Value set Falls Screening (2.16.840.1.113883.3.464.1003.118.12.1028): Added 10 SNOMEDCT codes (401196007, 408422004, 408423009, 408589008, 414191008, 426938003, 427206005, 443731004, 445990009, 711054005).	Value Set		
Value set Medical Reason (2.16.840.1.113883.3.526.3.1007): Deleted 1 SNOMEDCT code (161590003).	Value Set		

CMS140v5 - Breast Cancer: Hormonal Therapy for Stage I (T1b)-IIIC Estrogen Receptor/Progesterone Receptor (ER/PR) Positive Breast Cancer

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Clinical Recommendation Statements.	Header	Clinical Recommendation Statement	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Added definition for 'Prescribed'.	Header	Definition	Measure Lead
Updated Denominator to align with current guidelines. Reference to Stage IC has been replaced with Stage I (T1b).	Header	Denominator	Measure Lead
Updated Denominator Exceptions to pluralize medical reason.	Header	Denominator Exceptions	Measure Lead
Updated Description to align with current guidelines. Reference to Stage IC has been replaced with Stage I (T1b).	Header	Description	Measure Lead
Updated Disclaimer.	Header	Disclaimer	Measure Lead
Incremented eMeasure Version number.	Header	eMeasure Version number	Annual Update
Added Guidance in reference to the 'Clinical Trial Participant' data element to clarify that the patient should be participating in a clinical trial related to breast cancer treatment in order to qualify as a denominator exception.	Header	Guidance	JIRA (CQM-1809)
Updated Guidance to clarify that the numerator captures patients who are ordered adjuvant tamoxifen or AI, or are already taking adjuvant tamoxifen or AI during the 12 month reporting period.	Header	Guidance	Measure Lead
Updated Measure Developer.	Header	Measure Developer	Measure Lead
Updated Measure Steward.	Header	Measure Steward	Measure Lead
Updated Rationale to align with current guidelines. References to Stage IC have been replaced with Stage I (T1b).	Header	Rationale	Measure Lead
Updated Reference.	Header	Reference	Measure Lead
Updated eMeasure Title to align with current guidelines. Reference to Stage IC has been replaced with Stage I (T1b).	Header	Title	Measure Lead
Renamed 'Clinical Staging Procedure' value set to 'Pathology Evaluation' to align with value set content.	Logic	Denominator	JIRA (CQM-1500)
Renamed 'Clinical Staging Procedure' value set to 'Pathology Evaluation' to align with value set content.	Logic	Denominator	JIRA (CQM-1497)
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Denominator	QDM Standards
Revised to include primary tumor size T1b in appropriate stage combination section to allow for capture of Stage I (T1b).	Logic	Denominator	Measure Lead
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Denominator Exceptions	QDM Standards
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Initial Population	QDM Standards
Revised logic to capture first ever diagnosis of breast cancer. This diagnosis is then constrained to occur within five years of the encounter.	Logic	Initial Population	Measure Lead
Renamed 'Clinical Staging Procedure' value set to 'Pathology Evaluation' (2.16.840.1.113883.3.526.3.1098) to align with value set content.	Logic	QDM Data Elements	JIRA (CQM-1500)
Renamed 'Clinical Staging Procedure' value set to 'Pathology Evaluation' (2.16.840.1.113883.3.526.3.1098) to align with value set content.	Logic	QDM Data Elements	JIRA (CQM-1497)
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Value set Female (2.16.840.1.113883.3.560.100.2): Changed code system from 'AdministrativeSex' to 'AdministrativeGender'.	Logic	QDM Data Elements	Code System Update
Renamed 'Clinical Staging Procedure' value set to 'Pathology Evaluation' (2.16.840.1.113883.3.526.3.1098) to align with value set content.	Value Set		JIRA (CQM-1500)
Renamed 'Clinical Staging Procedure' value set to 'Pathology Evaluation' (2.16.840.1.113883.3.526.3.1098) to align with value set content.	Value Set		JIRA (CQM-1497)
Value set Breast Cancer (2.16.840.1.113883.3.526.3.389): Added 1 SNOMEDCT code (708921005) and deleted 1 SNOMEDCT code (286892007).	Value Set		
Value set Clinical Trial Participant (2.16.840.1.113883.3.526.3.1125): Deleted 2 SNOMEDCT codes (399223003, 444734003).	Value Set		
Value set Female (2.16.840.1.113883.3.560.100.2): Changed code system from 'AdministrativeSex' to 'AdministrativeGender'.	Value Set		Code System Update
Value set Gonadotropin-Releasing Hormone Analogue Medication (2.16.840.1.113883.3.526.3.1316): Added 2 RXNORM codes (1488616, 1488618) and deleted 6 RXNORM codes (1116124, 348161, 348163, 545844, 545848, 583425).	Value Set		
Value set Medical Reason (2.16.840.1.113883.3.526.3.1007): Deleted 1 SNOMEDCT code (161590003).	Value Set		
Value set Patient Reason (2.16.840.1.113883.3.526.3.1008): Deleted 1 SNOMEDCT code (5015009).	Value Set		

CMS141v6 - Colon Cancer: Chemotherapy for AJCC Stage III Colon Cancer Patients

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Copyright.	Header	Copyright	Annual Update
Updated Disclaimer.	Header	Disclaimer	Measure Lead
Incremented eMeasure Version number.	Header	eMeasure Version number	Annual Update
Added Guidance in reference to the 'Clinical Trial Participant' data element to clarify that the patient should be participating in a clinical trial related to colon cancer treatment in order to qualify as a denominator exception.	Header	Guidance	JIRA (CQM-1809)
Updated Guidance to clarify that the denominator has been limited to patients with a first ever lifetime diagnosis of colon cancer recorded during the 12 month reporting period. The date of colon cancer diagnosis is defined as date of first pathologic diagnosis.	Header	Guidance	Measure Lead
Updated Measure Developer.	Header	Measure Developer	Measure Lead
Updated Measure Steward.	Header	Measure Steward	Measure Lead
Updated Reference.	Header	Reference	Measure Lead
Renamed 'Clinical Staging Procedure' value set to 'Pathology Evaluation' to align with value set content.	Logic	Denominator	JIRA (CQM-1497)
Renamed 'Clinical Staging Procedure' value set to 'Pathology Evaluation' to align with value set content.	Logic	Denominator	JIRA (CQM-1500)
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Denominator Exceptions	QDM Standards
Renamed 'Clinical Staging Procedure' value set to 'Pathology Evaluation' to align with value set content.	Logic	Numerator	JIRA (CQM-1497)
Renamed 'Clinical Staging Procedure' value set to 'Pathology Evaluation' to align with value set content.	Logic	Numerator	JIRA (CQM-1500)
Renamed 'Clinical Staging Procedure' value set to 'Pathology Evaluation' (2.16.840.1.113883.3.526.3.1098) to align with value set content.	Logic	QDM Data Elements	JIRA (CQM-1497)
Renamed 'Clinical Staging Procedure' value set to 'Pathology Evaluation' (2.16.840.1.113883.3.526.3.1098) to align with value set content.	Logic	QDM Data Elements	JIRA (CQM-1500)
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Variables	QDM Standards
Renamed 'Clinical Staging Procedure' value set to 'Pathology Evaluation' (2.16.840.1.113883.3.526.3.1098) to align with value set content.	Value Set		JIRA (CQM-1497)
Renamed 'Clinical Staging Procedure' value set to 'Pathology Evaluation' (2.16.840.1.113883.3.526.3.1098) to align with value set content.	Value Set		JIRA (CQM-1500)
Value set Chemotherapy for Colon Cancer - Leucovorin and Levo-Leucovorin (2.16.840.1.113883.3.526.3.1290): Added 3 RXNORM codes (1720760, 1720765, 1720773) and deleted 2 RXNORM codes (1113384, 250288).	Value Set		
Value set Clinical Trial Participant (2.16.840.1.113883.3.526.3.1125): Deleted 2 SNOMEDCT codes (399223003, 444734003).	Value Set		
Value set Medical Reason (2.16.840.1.113883.3.526.3.1007): Deleted 1 SNOMEDCT code (161590003).	Value Set		
Value set Patient Reason (2.16.840.1.113883.3.526.3.1008): Deleted 1 SNOMEDCT code (5015009).	Value Set		

CMS142v5 - Diabetic Retinopathy: Communication with the Physician Managing Ongoing Diabetes Care

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Copyright.	Header	Copyright	Annual Update
Updated Disclaimer.	Header	Disclaimer	Measure Lead
Incremented eMeasure Version number.	Header	eMeasure Version number	Annual Update
Updated Measure Developer.	Header	Measure Developer	Measure Lead
Updated Measure Steward.	Header	Measure Steward	Measure Lead
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Initial Population	QDM Standards
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Value set Medical Reason (2.16.840.1.113883.3.526.3.1007): Deleted 1 SNOMEDCT code (161590003).	Value Set		
Value set Patient Reason (2.16.840.1.113883.3.526.3.1008): Deleted 1 SNOMEDCT code (5015009).	Value Set		

CMS143v5 - Primary Open-Angle Glaucoma (POAG): Optic Nerve Evaluation

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Copyright.	Header	Copyright	Annual Update
Updated Disclaimer.	Header	Disclaimer	Measure Lead
Incremented eMeasure Version number.	Header	eMeasure Version number	Annual Update
Updated Measure Developer.	Header	Measure Developer	Measure Lead
Updated Measure Steward.	Header	Measure Steward	Measure Lead
Updated Rationale.	Header	Rationale	Measure Lead
Updated Reference.	Header	Reference	Measure Lead
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Initial Population	QDM Standards
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Value set Medical Reason (2.16.840.1.113883.3.526.3.1007): Deleted 1 SNOMEDCT code (161590003).	Value Set		

CMS144v5 - Heart Failure (HF): Beta-Blocker Therapy for Left Ventricular Systolic Dysfunction (LVSD)

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Copyright.	Header	Copyright	Annual Update
Updated Disclaimer.	Header	Disclaimer	Measure Lead
Incremented eMeasure Version number.	Header	eMeasure Version number	Annual Update
Updated Measure Developer.	Header	Measure Developer	Measure Lead
Updated Measure Steward.	Header	Measure Steward	Measure Lead
Updated NQF Number to '2908'. As of February 2016, this measure is endorsed by NQF as an eMeasure and has been assigned a new NQF number.	Header	NQF Number	Measure Lead
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Denominator	QDM Standards
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Denominator Exceptions	QDM Standards
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Initial Population	QDM Standards
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Value set Allergy to Beta Blocker Therapy (2.16.840.1.113883.3.526.3.1177): Deleted 1 SNOMEDCT code (407577009).	Value Set		
Value set Asthma (2.16.840.1.113883.3.526.3.362): Added 9 SNOMEDCT codes (707445000, 707446004, 707447008, 708038006, 708090002, 708093000, 708094006, 708095007, 708096008) and deleted 7 SNOMEDCT codes (233681001, 233685005, 266364000, 427354000, 57546000, 59327009, 91340006).	Value Set		
Value set Beta Blocker Therapy (2.16.840.1.113883.3.526.3.1174): Added 16 RXNORM codes and deleted 4 RXNORM codes (856412, 896974, 896975, 896976).	Value Set		
Value set Beta Blocker Therapy Ingredient (2.16.840.1.113883.3.526.3.1493): Deleted 1 RXNORM code (689716).	Value Set		
Value set Medical Reason (2.16.840.1.113883.3.526.3.1007): Deleted 1 SNOMEDCT code (161590003).	Value Set		
Value set Patient Reason (2.16.840.1.113883.3.526.3.1008): Deleted 1 SNOMEDCT code (5015009).	Value Set		

CMS145v5 - Coronary Artery Disease (CAD): Beta-Blocker Therapy—Prior Myocardial Infarction (MI) or Left Ventricular Systolic Dysfunction (LVEF <40%)

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Copyright.	Header	Copyright	Annual Update
Updated Disclaimer.	Header	Disclaimer	Measure Lead
Incremented eMeasure Version number.	Header	eMeasure Version number	Annual Update
Updated Endorsed By to 'None'. As of February 2016, this measure is not endorsed by NQF as an eMeasure. The former NQF Number of 0070 is now a reference to the registry modality endorsement of this measure.	Header	Endorsed By	Measure Lead
Updated Guidance to confirm currency of no recommendations or evidence.	Header	Guidance	Measure Lead
Updated Measure Developer.	Header	Measure Developer	Measure Lead
Updated Measure Steward.	Header	Measure Steward	Measure Lead
Updated NQF Number to 'Not Applicable'. As of February 2016, this measure is not endorsed by NQF as an eMeasure. The former NQF Number of 0070 is now a reference to the registry modality endorsement of this measure.	Header	NQF Number	Measure Lead
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Denominator	QDM Standards
Revised timing in Population Criteria 2, Denominator for 'Diagnosis: Myocardial Infarction' from 'starts before end of' to 'ends before start of' Occurrence A of \$CADEncounters145 as a result of the QDM update.	Logic	Denominator	Measure Lead
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Denominator Exceptions	QDM Standards
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Initial Population	QDM Standards
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Value set Allergy to Beta Blocker Therapy (2.16.840.1.113883.3.526.3.1177): Deleted 1 SNOMEDCT code (407577009).	Value Set		
Value set Asthma (2.16.840.1.113883.3.526.3.362): Added 9 SNOMEDCT codes (707445000, 707446004, 707447008, 708038006, 708090002, 708093000, 708094006, 708095007, 708096008) and deleted 7 SNOMEDCT codes (233681001, 233685005, 266364000, 427354000, 57546000, 59327009, 91340006).	Value Set		
Value set Beta Blocker Therapy (2.16.840.1.113883.3.526.3.1174): Added 16 RXNORM codes and deleted 4 RXNORM codes (856412, 896974, 896975, 896976).	Value Set		
Value set Beta Blocker Therapy Ingredient (2.16.840.1.113883.3.526.3.1493): Deleted 1 RXNORM code (689716).	Value Set		
Value set Coronary Artery Disease No MI (2.16.840.1.113883.3.526.3.369): Added 1 SNOMEDCT code (443502000).	Value Set		JIRA (CQM-1854)
Value set Medical Reason (2.16.840.1.113883.3.526.3.1007): Deleted 1 SNOMEDCT code (161590003).	Value Set		
Value set Myocardial Infarction (2.16.840.1.113883.3.526.3.403): Deleted 1 SNOMEDCT code (194798004).	Value Set		
Value set Patient Reason (2.16.840.1.113883.3.526.3.1008): Deleted 1 SNOMEDCT code (5015009).	Value Set		

CMS146v5 - Appropriate Testing for Children with Pharyngitis

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Clinical Recommendation Statement.	Header	Clinical Recommendation Statement	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Updated lower age range from age 2 to age 3 to align with IDSA/AHA guidelines.	Header	Description	Measure Lead
Incremented eMeasure Version number.	Header	eMeasure Version number	Annual Update
Removed Endorsement.	Header	Endorsed By	Measure Lead
Updated lower age range from age 2 to age 3 to align with IDSA/AHA guidelines.	Header	Initial Population	Measure Lead
Removed Endorsement Number.	Header	NQF Number	Measure Lead
Updated Rationale.	Header	Rationale	Measure Lead
Updated References.	Header	Reference	Measure Lead
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Denominator Exclusions	QDM Standards
Updated the Denominator Exclusion to ensure patients on antibiotics for more than 30 days prior to the Occurrence A Diagnosis are excluded.	Logic	Denominator Exclusions	JIRA (CQM-1570)
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Initial Population	QDM Standards
Updated lower age range from age 2 to age 3 to align with IDSA/AHA guidelines.	Logic	Initial Population	Measure Lead
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Value set Acute Pharyngitis (2.16.840.1.113883.3.464.1003.102.12.1011): Added 1 ICD10CM code (J02.8).	Value Set		
Value set Ambulatory/ED Visit (2.16.840.1.113883.3.464.1003.101.12.1061): Added 25 CPT codes.	Value Set		
Value set Antibiotic Medications for Pharyngitis (2.16.840.1.113883.3.464.1003.196.12.1001): Deleted 73 RXNORM codes.	Value Set		
Value set Group A Streptococcus Test (2.16.840.1.113883.3.464.1003.198.12.1012): Deleted 1 LOINC code (6556-5).	Value Set		

CMS147v6 - Preventive Care and Screening: Influenza Immunization

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Clinical Recommendation Statement.	Header	Clinical Recommendation Statement	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Updated Disclaimer.	Header	Disclaimer	Measure Lead
Incremented eMeasure Version number.	Header	eMeasure Version number	Annual Update
Updated Measure Developer.	Header	Measure Developer	Measure Lead
Updated Measure Steward.	Header	Measure Steward	Measure Lead
Updated Reference.	Header	Reference	Measure Lead
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Denominator Exceptions	QDM Standards
Replaced 'Medication' QDM category with 'Immunization' QDM category for instances associated with a vaccination/immunization value set (CVX) to conform to QDM 4.2 changes.	Logic	Denominator Exceptions	QDM Standards
Revised timing from 'starts before end of' to 'overlaps' for the following data elements: 'Diagnosis: Allergy to Eggs', 'Diagnosis: Allergy to Influenza Vaccine', 'Diagnosis: Intolerance to Influenza Vaccine', 'Procedure, Intolerance: Influenza Vaccination', 'Immunization, Intolerance: Influenza Vaccine', 'Immunization, Allergy: Influenza Vaccine'.	Logic	Denominator Exceptions	Measure Lead
Replaced 'Medication' QDM category with 'Immunization' QDM category for instances associated with a vaccination/immunization value set (CVX) to conform to QDM 4.2 changes.	Logic	Numerator	QDM Standards
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Replaced 'Medication' QDM category with 'Immunization' QDM category for instances associated with a vaccination/immunization value set (CVX) to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Value set Allergy to Eggs (2.16.840.1.113883.3.526.3.1253): Added ICD10CM extensional value set (2.16.840.1.113883.3.526.2.1760) including 4 codes.	Value Set		
Value set Allergy to Eggs (2.16.840.1.113883.3.526.3.1253): Added ICD9CM extensional value set (2.16.840.1.113883.3.526.2.1759) including 2 codes.	Value Set		
Value set Allergy to Influenza Vaccine (2.16.840.1.113883.3.526.3.1256): Deleted 1 SNOMEDCT code (315631004).	Value Set		
Value set Influenza Vaccination (2.16.840.1.113883.3.526.3.402): Added 1 CPT code (90654).	Value Set		
Value set Influenza Vaccination (2.16.840.1.113883.3.526.3.402): Added HCPCS extensional value set (2.16.840.1.113883.3.526.2.1761) including 7 codes.	Value Set		
Value set Influenza Vaccination (2.16.840.1.113883.3.526.3.402): Deleted 1 SNOMEDCT code (442333005).	Value Set		
Value set Influenza Vaccine (2.16.840.1.113883.3.526.3.1254): Added 2 CVX codes (151, 168).	Value Set		
Value set Medical Reason (2.16.840.1.113883.3.526.3.1007): Deleted 1 SNOMEDCT code (161590003).	Value Set		
Value set Patient Reason (2.16.840.1.113883.3.526.3.1008): Deleted 1 SNOMEDCT code (5015009).	Value Set		

CMS148v5 - Hemoglobin A1c Test for Pediatric Patients

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Copyright.	Header	Copyright	Annual Update
Spelled out the abbreviation HBA1c at the time of first usage.	Header	Description	Measure Lead
Incremented eMeasure Version number.	Header	eMeasure Version number	Annual Update
Removed Endorsement.	Header	Endorsed By	Measure Lead
Updated the Initial Population description with a timing statement to match the Initial Population logic.	Header	Initial Population	Measure Lead
Removed Endorsement Number.	Header	NQF Number	Measure Lead
Moved Diabetes Visit from grouping value set to variable name to increase the visibility of which visits qualify for the measure.	Logic	Initial Population	Measure Lead
Removed the encounter that was required prior to the measurement period from the logic.	Logic	Initial Population	Measure Lead
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Initial Population	QDM Standards
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Value set Critical Care Management (2.16.840.1.113883.3.464.1003.101.12.1067): Added Critical Care Management.	Logic	QDM Data Elements	
Value set Diabetes Visit (2.16.840.1.113883.3.464.1003.103.12.1012): Removed Diabetes Visit.	Logic	QDM Data Elements	
Value set Discharge Services - Hospital Inpatient (2.16.840.1.113883.3.464.1003.101.12.1007): Added Discharge Services - Hospital Inpatient.	Logic	QDM Data Elements	
Value set Discharge Services- Observation Care (2.16.840.1.113883.3.464.1003.101.12.1039): Added Discharge Services- Observation Care.	Logic	QDM Data Elements	
Value set Emergency Department Interaction (2.16.840.1.113883.3.464.1003.101.12.1068): Added Emergency Department Interaction.	Logic	QDM Data Elements	
Value set Emergency Department Visit (2.16.840.1.113883.3.464.1003.101.12.1010): Added Emergency Department Visit.	Logic	QDM Data Elements	
Value set Face-to-Face Interaction (2.16.840.1.113883.3.464.1003.101.12.1048): Added Face-to-Face Interaction.	Logic	QDM Data Elements	
Value set Home Healthcare Services (2.16.840.1.113883.3.464.1003.101.12.1016): Added Home Healthcare Services.	Logic	QDM Data Elements	
Value set Hospital Inpatient Visit - Initial (2.16.840.1.113883.3.464.1003.101.12.1004): Added Hospital Inpatient Visit - Initial.	Logic	QDM Data Elements	
Value set Hospital Inpatient Visit Subsequent (2.16.840.1.113883.3.464.1003.101.12.1069): Added Hospital Inpatient Visit Subsequent.	Logic	QDM Data Elements	
Value set Hospital Observation Care - Initial (2.16.840.1.113883.3.464.1003.101.12.1002): Added Hospital Observation Care - Initial.	Logic	QDM Data Elements	
Value set Inpatient Consultation (2.16.840.1.113883.3.464.1003.101.12.1071): Added Inpatient Consultation.	Logic	QDM Data Elements	
Value set Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001): Added Office Visit.	Logic	QDM Data Elements	
Value set Ophthalmologic Outpatient Visit (2.16.840.1.113883.3.464.1003.101.12.1072): Added Ophthalmologic Outpatient Visit.	Logic	QDM Data Elements	
Value set Outpatient Consultation (2.16.840.1.113883.3.464.1003.101.12.1008): Added Outpatient Consultation.	Logic	QDM Data Elements	
Value set Preventive Care - Established Office Visit, 0 to 17 (2.16.840.1.113883.3.464.1003.101.12.1024): Added Preventive Care - Established Office Visit, 0 to 17.	Logic	QDM Data Elements	
Value set Preventive Care- Initial Office Visit, 0 to 17 (2.16.840.1.113883.3.464.1003.101.12.1022): Added Preventive Care- Initial Office Visit, 0 to 17.	Logic	QDM Data Elements	
Value set Preventive Care Services - Other (2.16.840.1.113883.3.464.1003.101.12.1030): Added Preventive Care Services - Other.	Logic	QDM Data Elements	
Value set Preventive Care Services-Individual Counseling (2.16.840.1.113883.3.464.1003.101.12.1026): Added Preventive Care Services-Individual Counseling.	Logic	QDM Data Elements	
Moved Diabetes Visit from grouping value set to variable name to increase the visibility of which visits qualify for the measure.	Logic	QDM Variables	Measure Lead
Value set Critical Care Management (2.16.840.1.113883.3.464.1003.101.12.1067): Added Critical Care Management.	Logic	QDM Variables	
Value set Discharge Services - Hospital Inpatient (2.16.840.1.113883.3.464.1003.101.12.1007): Added Discharge Services - Hospital Inpatient.	Logic	QDM Variables	
Value set Discharge Services- Observation Care (2.16.840.1.113883.3.464.1003.101.12.1039): Added Discharge Services- Observation Care.	Logic	QDM Variables	
Value set Emergency Department Interaction (2.16.840.1.113883.3.464.1003.101.12.1068): Added Emergency Department Interaction.	Logic	QDM Variables	
Value set Emergency Department Visit (2.16.840.1.113883.3.464.1003.101.12.1010): Added Emergency Department Visit.	Logic	QDM Variables	
Value set Face-to-Face Interaction (2.16.840.1.113883.3.464.1003.101.12.1048): Added Face-to-Face Interaction.	Logic	QDM Variables	
Value set Home Healthcare Services (2.16.840.1.113883.3.464.1003.101.12.1016): Added Home Healthcare Services.	Logic	QDM Variables	
Value set Hospital Inpatient Visit - Initial (2.16.840.1.113883.3.464.1003.101.12.1004): Added Hospital Inpatient Visit - Initial.	Logic	QDM Variables	
Value set Hospital Inpatient Visit Subsequent (2.16.840.1.113883.3.464.1003.101.12.1069): Added Hospital Inpatient Visit Subsequent.	Logic	QDM Variables	
Value set Hospital Observation Care - Initial (2.16.840.1.113883.3.464.1003.101.12.1002): Added Hospital Observation Care - Initial.	Logic	QDM Variables	
Value set Inpatient Consultation (2.16.840.1.113883.3.464.1003.101.12.1071): Added Inpatient Consultation.	Logic	QDM Variables	
Value set Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001): Added Office Visit.	Logic	QDM Variables	

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Value set Ophthalmologic Outpatient Visit (2.16.840.1.113883.3.464.1003.101.12.1072): Added Ophthalmologic Outpatient Visit.	Logic	QDM Variables	
Value set Outpatient Consultation (2.16.840.1.113883.3.464.1003.101.12.1008): Added Outpatient Consultation.	Logic	QDM Variables	
Value set Preventive Care - Established Office Visit, 0 to 17 (2.16.840.1.113883.3.464.1003.101.12.1024): Added Preventive Care - Established Office Visit, 0 to 17.	Logic	QDM Variables	
Value set Preventive Care- Initial Office Visit, 0 to 17 (2.16.840.1.113883.3.464.1003.101.12.1022): Added Preventive Care- Initial Office Visit, 0 to 17.	Logic	QDM Variables	
Value set Preventive Care Services - Other (2.16.840.1.113883.3.464.1003.101.12.1030): Added Preventive Care Services - Other.	Logic	QDM Variables	
Value set Preventive Care Services-Individual Counseling (2.16.840.1.113883.3.464.1003.101.12.1026): Added Preventive Care Services-Individual Counseling.	Logic	QDM Variables	
Value set Critical Care Management (2.16.840.1.113883.3.464.1003.101.12.1067): Added Critical Care Management.	Value Set		
Value set Diabetes Visit (2.16.840.1.113883.3.464.1003.103.12.1012): Removed Diabetes Visit.	Value Set		
Value set Discharge Services - Hospital Inpatient (2.16.840.1.113883.3.464.1003.101.12.1007): Added Discharge Services - Hospital Inpatient.	Value Set		
Value set Discharge Services- Observation Care (2.16.840.1.113883.3.464.1003.101.12.1039): Added Discharge Services- Observation Care.	Value Set		
Value set Emergency Department Interaction (2.16.840.1.113883.3.464.1003.101.12.1068): Added Emergency Department Interaction.	Value Set		
Value set Emergency Department Visit (2.16.840.1.113883.3.464.1003.101.12.1010): Added Emergency Department Visit.	Value Set		
Value set Face-to-Face Interaction (2.16.840.1.113883.3.464.1003.101.12.1048): Added Face-to-Face Interaction.	Value Set		
Value set Home Healthcare Services (2.16.840.1.113883.3.464.1003.101.12.1016): Added Home Healthcare Services.	Value Set		
Value set Hospital Inpatient Visit - Initial (2.16.840.1.113883.3.464.1003.101.12.1004): Added Hospital Inpatient Visit - Initial.	Value Set		
Value set Hospital Inpatient Visit Subsequent (2.16.840.1.113883.3.464.1003.101.12.1069): Added Hospital Inpatient Visit Subsequent.	Value Set		
Value set Hospital Observation Care - Initial (2.16.840.1.113883.3.464.1003.101.12.1002): Added Hospital Observation Care - Initial.	Value Set		
Value set Inpatient Consultation (2.16.840.1.113883.3.464.1003.101.12.1071): Added Inpatient Consultation.	Value Set		
Value set Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001): Added Office Visit.	Value Set		
Value set Ophthalmologic Outpatient Visit (2.16.840.1.113883.3.464.1003.101.12.1072): Added Ophthalmologic Outpatient Visit.	Value Set		
Value set Outpatient Consultation (2.16.840.1.113883.3.464.1003.101.12.1008): Added Outpatient Consultation.	Value Set		
Value set Preventive Care - Established Office Visit, 0 to 17 (2.16.840.1.113883.3.464.1003.101.12.1024): Added Preventive Care - Established Office Visit, 0 to 17.	Value Set		
Value set Preventive Care- Initial Office Visit, 0 to 17 (2.16.840.1.113883.3.464.1003.101.12.1022): Added Preventive Care- Initial Office Visit, 0 to 17.	Value Set		
Value set Preventive Care Services - Other (2.16.840.1.113883.3.464.1003.101.12.1030): Added Preventive Care Services - Other.	Value Set		
Value set Preventive Care Services-Individual Counseling (2.16.840.1.113883.3.464.1003.101.12.1026): Added Preventive Care Services-Individual Counseling.	Value Set		

CMS149v5 - Dementia: Cognitive Assessment

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Copyright.	Header	Copyright	Annual Update
Updated Definition to add Mini-Cog to the measure as an allowable standardized tool to assess cognition.	Header	Definition	Measure Lead
Updated Denominator Exceptions by adding receiving palliative care to align with the logic.	Header	Denominator Exceptions	Measure Lead
Updated Disclaimer.	Header	Disclaimer	Measure Lead
Incremented eMeasure Version number.	Header	eMeasure Version number	Annual Update
Updated Measure Developer.	Header	Measure Developer	Measure Lead
Updated Measure Steward.	Header	Measure Steward	Measure Lead
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Denominator Exceptions	QDM Standards
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Initial Population	QDM Standards
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Value set Medical Reason (2.16.840.1.113883.3.526.3.1007): Deleted 1 SNOMEDCT code (161590003).	Value Set		
Value set Patient Reason (2.16.840.1.113883.3.526.3.1008): Deleted 1 SNOMEDCT code (5015009).	Value Set		
Value set Standardized Tools for Assessment of Cognition (2.16.840.1.113883.3.526.3.1006): Added 1 LOINC code (72233-0).	Value Set		

CMS153v5 - Chlamydia Screening for Women

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Clinical Recommendation Statement.	Header	Clinical Recommendation Statement	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Clarified the description of the denominator exclusions.	Header	Denominator Exclusions	Measure Lead
Incremented eMeasure Version number.	Header	eMeasure Version number	Annual Update
Added a sentence to clarify who was eligible for the denominator exclusion.	Header	Guidance	Measure Lead
Updated Rationale.	Header	Rationale	Measure Lead
Updated References.	Header	Reference	Measure Lead
Added logic to match the guidance for the denominator exclusion.	Logic	Denominator Exclusions	JIRA (CQM-850)
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Denominator Exclusions	QDM Standards
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Initial Population	QDM Standards
Changed value set name from 'AdministrativeSex' to 'AdministrativeGender' to align with code system updates.	Logic	QDM Data Elements	Code System Update
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Value set Female (2.16.840.1.113883.3.560.100.2): Changed code system from 'AdministrativeSex' to 'AdministrativeGender'.	Logic	QDM Data Elements	Code System Update
Updated age stratification 1 to < 20 to clarify difference between 1st and 2nd stratification.	Logic	Stratification	Measure Lead
Value set Chlamydia (2.16.840.1.113883.3.464.1003.112.12.1003): Added 4 SNOMEDCT codes (197172005, 236683007, 237043008, 237106009).	Value Set		
Value set Complications of Pregnancy, Childbirth and the Puerperium (2.16.840.1.113883.3.464.1003.111.12.1012): Deleted 3 SNOMEDCT codes (200015003, 200016002, 200026009).	Value Set		
Value set Contraceptive Medications (2.16.840.1.113883.3.464.1003.196.12.1080): Deleted 8 RXNORM codes (1000373, 1359293, 310226, 311556, 311557, 311558, 315098, 315146).	Value Set		
Value set Delivery Live Births (2.16.840.1.113883.3.464.1003.111.12.1015): Added 22 SNOMEDCT codes and deleted 1 SNOMEDCT code (1807002). Added 4 CPT codes (59412, 59414, 59430, 59525).	Value Set		
Value set Diagnostic Studies During Pregnancy (2.16.840.1.113883.3.464.1003.111.12.1008): Deleted 2 LOINC codes (33182-7, 33183-5).	Value Set		
Value set Female (2.16.840.1.113883.3.560.100.2): Changed code system from 'AdministrativeSex' to 'AdministrativeGender'.	Value Set		Code System Update
Value set HIV (2.16.840.1.113883.3.464.1003.120.12.1003): Added 1 ICD9CM code (079.53). Added 1 ICD10CM code (B97.35).	Value Set		
Value set Inflammatory Diseases of Female Reproductive Organs (2.16.840.1.113883.3.464.1003.112.12.1004): Deleted 1 SNOMEDCT code (403481005).	Value Set		
Value set Isotretinoin (2.16.840.1.113883.3.464.1003.196.12.1143): Added 2 RXNORM codes (1547561, 1547565).	Value Set		
Value set Procedures During Pregnancy (2.16.840.1.113883.3.464.1003.111.12.1009): Added 33 SNOMEDCT codes.	Value Set		
Value set Syphilis (2.16.840.1.113883.3.464.1003.112.12.1002): Deleted 2 SNOMEDCT codes (186841000, 286882004).	Value Set		
Value set X-Ray Study (all inclusive) (2.16.840.1.113883.3.464.1003.198.12.1034): Deleted 45 LOINC codes.	Value Set		

CMS154v5 - Appropriate Treatment for Children with Upper Respiratory Infection (URI)

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Copyright.	Header	Copyright	Annual Update
Incremented eMeasure Version number.	Header	eMeasure Version number	Annual Update
Updated Rationale.	Header	Rationale	Measure Lead
Updated References.	Header	Reference	Measure Lead
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Denominator Exclusions	QDM Standards
Updated the Denominator Exclusion to ensure patients on antibiotics for more than 30 days prior to the Occurrence A Diagnosis are excluded.	Logic	Denominator Exclusions	JIRA (CQM-1570)
Updated the Initial Population logic to clarify which events are eligible for the Initial Population.	Logic	Initial Population	Measure Lead
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Value set Antibiotic Medications for Pharyngitis (2.16.840.1.113883.3.464.1003.196.12.1001): Deleted 73 RXNORM codes.	Value Set		
Value set Competing Conditions for Respiratory Conditions (2.16.840.1.113883.3.464.1003.102.12.1017): Deleted 6 SNOMEDCT codes (186841000, 286882004, 371308001, 403481005, 72643006, 95572004). Added 4 SNOMEDCT codes (197172005, 236683007, 237043008, 237106009). Added 1 ICD10CM code (J02.8).	Value Set		

CMS155v5 - Weight Assessment and Counseling for Nutrition and Physical Activity for Children and Adolescents

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Copyright.	Header	Copyright	Annual Update
Incremented eMeasure Version number.	Header	eMeasure Version number	Annual Update
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Denominator Exclusions	QDM Standards
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards

CMS156v5 - Use of High-Risk Medications in the Elderly

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Clinical Recommendation Statement.	Header	Clinical Recommendation Statement	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Incremented eMeasure Version number.	Header	eMeasure Version number	Annual Update
Clarified the intent of the of the measure.	Header	Guidance	Measure Lead
Updated Rationale.	Header	Rationale	Measure Lead
Updated References.	Header	Reference	Measure Lead
Value Set Ophthalmologic Outpatient Visit (2.16.840.1.113883.3.464.1003.101.11.1206): Added	Logic	Initial Population	JIRA (CQM-1494)
Ophthalmologic Outpatient Visit value set to measure.			
Value Set Ophthalmologic Outpatient Visit (2.16.840.1.113883.3.464.1003.101.11.1206): Added	Logic	QDM Data Elements	JIRA (CQM-1494)
Ophthalmologic Outpatient Visit value set to measure.			
Value set High Risk Medications for the Elderly (2.16.840.1.113883.3.464.1003.196.12.1253): Added 13 RXNORM codes and deleted 115 RXNORM codes.	Value Set		
Value set High-Risk Medications With Days Supply Criteria (2.16.840.1.113883.3.464.1003.196.12.1254): Added 3 RXNORM codes (311991, 1648755, 1648759) and deleted 1 RXNORM code (311992).	Value Set		
Value Set Ophthalmologic Outpatient Visit (2.16.840.1.113883.3.464.1003.101.11.1206): Added	Value Set		JIRA (CQM-1494)
Ophthalmologic Outpatient Visit value set to measure.			

CMS157v5 - Oncology: Medical and Radiation – Pain Intensity Quantified

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Clinical Recommendation Statements.	Header	Clinical Recommendation Statement	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Updated Disclaimer.	Header	Disclaimer	Measure Lead
Incremented eMeasure Version number.	Header	eMeasure Version number	Annual Update
Updated Guidance to provide additional examples of standardized pain assessment tools.	Header	Guidance	Measure Lead
Updated Measure Developer.	Header	Measure Developer	Measure Lead
Updated Measure Steward.	Header	Measure Steward	Measure Lead
Updated References.	Header	Reference	Measure Lead
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Initial Population	QDM Standards
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Value set Cancer (2.16.840.1.113883.3.526.3.1010): Added 4 SNOMEDCT codes (126667002, 708921005, 711414003, 712525007) and deleted 8 SNOMEDCT codes (109365008, 188651007, 254630009, 255076003, 255117000, 269462001, 269468002, 286892007).	Value Set		
Value set Standardized Pain Assessment Tool (2.16.840.1.113883.3.526.3.1028): Added 1 LOINC code (77565-0).	Value Set		

CMS158v5 - Pregnant women that had HBsAg testing

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Copyright.	Header	Copyright	Annual Update
Updated Disclaimer.	Header	Disclaimer	Measure Lead
Incremented eMeasure Version number.	Header	eMeasure Version number	Annual Update
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Denominator Exceptions	QDM Standards
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Value set Female (2.16.840.1.113883.3.560.100.2): Changed code system from 'AdministrativeSex' to 'AdministrativeGender'.	Logic	QDM Data Elements	Code System Update
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Variables	QDM Standards
Value set Delivery - Procedure (2.16.840.1.113762.1.4.1078.5): Deleted 2 SNOMEDCT codes (274128005, 274129002).	Value Set		
Value set Female (2.16.840.1.113883.3.560.100.2): Changed code system from 'AdministrativeSex' to 'AdministrativeGender'.	Value Set		Code System Update
Value set Hepatitis B (2.16.840.1.113883.3.67.1.101.1.269): Added 1 SNOMEDCT code (235865005) and deleted 1 SNOMEDCT code (186623005).	Value Set		

CMS159v5 - Depression Remission at Twelve Months

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated the Clinical Recommendation Statement to include all PHQ-9 questions.	Header	Clinical Recommendation Statement	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Updated the Definition statement to better reflect the measure intent.	Header	Definition	Measure Lead
Simplified the Description statement by changing 'Adult patients' to 'Patients'.	Header	Description	Measure Lead
The header Description did not indicate that remission at twelve months includes a grace period. Description updated to 'remission at twelve months (+/- 30 days) after an index visit'.	Header	Description	Measure Lead
Incremented eMeasure Version number.	Header	eMeasure Version number	Annual Update
Simplified the Initial Population header statement by changing 'Adult patients' to 'Patients'.	Header	Initial Population	Measure Lead
To better meet the measure intent, updated the Initial Population to reflect the patient age at the index encounter, rather than the age at the Measurement Period.	Header	Initial Population	Measure Lead
Simplified the Numerator header statement by changing 'Adult patients' to 'Patients'.	Header	Numerator	Measure Lead
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Denominator Exclusions	QDM Standards
To better meet the measure intent and to establish consistency between measures CMS159 and CMS160, revised the Denominator Exclusions timing logic. Timing for 'Intervention, Order' and 'Encounter, Performed' has been updated to '<= 1 year(s) starts before end of Measurement Period'; timing for 'Expired' and 'Diagnoses' has been updated to 'starts before end of Measurement Period'.	Logic	Denominator Exclusions	Measure Lead
To better meet the measure intent, updated the Initial Population to reflect the patient age at the index encounter, rather than the age at the Measurement Period.	Logic	Initial Population	Measure Lead
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Replaced 'Diagnosis, Active: XXX (ordinality: Principal)' datatype with 'Encounter, Performed: XXX (principal diagnosis)' datatype to conform with QDM 4.2 changes and provide more accurate logic.	Logic	QDM Data Elements	QDM Standards
Value set Face to Face Interaction - No ED (2.16.840.1.113762.1.4.1080.1): OID changed from 2.16.840.1.113762.1.4.1080.2 to 2.16.840.1.113762.1.4.1080.1.	Logic	QDM Data Elements	
Value set Principal (2.16.840.1.113883.3.117.1.7.1.14): Removed Principal value set from measure.	Logic	QDM Data Elements	
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Variables	QDM Standards
Replaced 'Diagnosis, Active: XXX (ordinality: Principal)' datatype with 'Encounter, Performed: XXX (principal diagnosis)' datatype to conform with QDM 4.2 changes and provide more accurate logic.	Logic	QDM Variables	QDM Standards
To establish consistency across measures CMS159 and CMS160, updated the encounter timing logic in the \$DepressionEncounter, \$DepressionF2FSnomed and \$DepressionEncounterBH variables from 'starts before start' and 'ends after start' to 'ends before start'. Also updated the corresponding numeric month timings to more accurately reflect the measure intent.	Logic	QDM Variables	Measure Lead
Value set Face to Face Interaction - No ED (2.16.840.1.113762.1.4.1080.1): OID changed from 2.16.840.1.113762.1.4.1080.2 to 2.16.840.1.113762.1.4.1080.1.	Logic	QDM Variables	
Value set Face to Face Interaction - No ED (2.16.840.1.113762.1.4.1080.1): OID changed from 2.16.840.1.113762.1.4.1080.2 to 2.16.840.1.113762.1.4.1080.1.	Value Set		
Value set Major Depression (2.16.840.1.113762.1.4.1080.3): Created with 12 ICD9CM codes.	Value Set		
Value set Major Depression Including Remission (2.16.840.113883.3.67.1.101.3.2444): Added extensional value set Major Depression (2.16.840.1.113762.1.4.1080.3).	Value Set		
Value set Major Depression Including Remission (2.16.840.113883.3.67.1.101.3.2444): Deleted 2 ICD9CM codes (298.0, 311). Added 6 SNOMEDCT codes (251000119105, 281000119103, 321717001, 450714000, 191606003, 68019004).	Value Set		
Value set Personality Disorder (2.16.840.1.113883.3.67.1.101.1.246): Deleted 2 ICD10CM codes (F68.8, F69).	Value Set		
Value set Principal (2.16.840.1.113883.3.117.1.7.1.14): Removed Principal value set from measure.	Value Set		

CMS160v5 - Depression Utilization of the PHQ-9 Tool

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated the Clinical Recommendation Statement to include all PHQ-9 questions.	Header	Clinical Recommendation Statement	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Simplified the Description statement by changing 'Adult patients' to 'Patients'.	Header	Description	Measure Lead
Incremented eMeasure Version number.	Header	eMeasure Version number	Annual Update
Simplified the Initial Population header statement by changing 'Adult patients' to 'Patients'.	Header	Initial Population	Measure Lead
The Initial Population header statement referred to a diagnosis 'during each four month period'. Since a diagnosis will only meet the criteria for one four month period, clarified the statement by changing it to 'during the four month period'.	Header	Initial Population	Measure Lead
Simplified the Numerator header statement by changing 'Adult patients' to 'Patients'.	Header	Numerator	Measure Lead
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Denominator Exclusions	QDM Standards
To better meet the measure intent and to establish consistency between measures CMS159 and CMS160, revised the Denominator Exclusions timing logic. Timing for 'Intervention, Order' and 'Encounter, Performed' has been updated to '<= 1 year(s) starts before end of Measurement Period'; timing for 'Expired' and 'Diagnoses' has been updated to 'starts before end of Measurement Period'.	Logic	Denominator Exclusions	Measure Lead
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Initial Population	QDM Standards
Replaced 'Diagnosis, Active: XXX (ordinality: Principal)' datatype with 'Encounter, Performed: XXX (principal diagnosis)' datatype to conform with QDM 4.2 changes and provide more accurate logic.	Logic	Initial Population	QDM Standards
To establish consistency across measures CMS159 and CMS160, updated the encounter timing logic in Initial Population 2 from 'starts after start' to 'ends after start'.	Logic	Initial Population	Measure Lead
Value set Face to Face Interaction - No ED (2.16.840.1.113762.1.4.1080.1): OID changed from 2.16.840.1.113762.1.4.1080.2 to 2.16.840.1.113762.1.4.1080.1.	Logic	Initial Population	
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Replaced 'Diagnosis, Active: XXX (ordinality: Principal)' datatype with 'Encounter, Performed: XXX (principal diagnosis)' datatype to conform with QDM 4.2 changes and provide more accurate logic.	Logic	QDM Data Elements	QDM Standards
Value set Face to Face Interaction - No ED (2.16.840.1.113762.1.4.1080.1): OID changed from 2.16.840.1.113762.1.4.1080.2 to 2.16.840.1.113762.1.4.1080.1.	Logic	QDM Data Elements	
Value set Principal (2.16.840.1.113883.3.117.1.7.1.14): Removed Principal value set from measure.	Logic	QDM Data Elements	
Value set Face to Face Interaction - No ED (2.16.840.1.113762.1.4.1080.1): OID changed from 2.16.840.1.113762.1.4.1080.2 to 2.16.840.1.113762.1.4.1080.1.	Value Set		
Value set Major Depression (2.16.840.1.113762.1.4.1080.3): Created with 12 ICD9CM codes.	Value Set		
Value set Major Depression Including Remission (2.16.840.113883.3.67.1.101.3.2444): Added extensional value set Major Depression (2.16.840.1.113762.1.4.1080.3).	Value Set		
Value set Major Depression Including Remission (2.16.840.113883.3.67.1.101.3.2444): Deleted 2 ICD9CM codes (298.0, 311). Added 6 SNOMEDCT codes (251000119105, 281000119103, 321717001, 450714000, 191606003, 68019004).	Value Set		
Value set Personality Disorder (2.16.840.1.113883.3.67.1.101.1.246): Deleted 2 ICD10CM codes (F68.8, F69).	Value Set		
Value set Principal (2.16.840.1.113883.3.117.1.7.1.14): Removed Principal value set from measure.	Value Set		

CMS161v5 - Adult Major Depressive Disorder (MDD): Suicide Risk Assessment

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Copyright.	Header	Copyright	Annual Update
Updated Disclaimer.	Header	Disclaimer	Measure Lead
Incremented eMeasure Version number.	Header	eMeasure Version number	Annual Update
Updated Measure Developer.	Header	Measure Developer	Measure Lead
Updated Measure Steward.	Header	Measure Steward	Measure Lead
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Initial Population	QDM Standards
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards

CMS163v5 - Diabetes: Low Density Lipoprotein (LDL-C) Control (<100 mg/dL)

Technical Release Notes

Updated Copyright.
Incremented eMeasure Version number.
Updated measure name to harmonize with the endorsed measure name.
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.
Value set Diabetes (2.16.840.1.113883.3.464.1003.103.12.1001): Added 11 ICD9CM codes (250.40, 357.2, 362.01, 362.02, 362.03, 362.04, 362.05, 362.06, 362.07, 366.41, 648.00).

Type of TRN	Measure Section	Source of Change
Header	Copyright	Annual Update
Header	eMeasure Version number	Annual Update
Header	Title	Measure Lead
Logic	Initial Population	QDM Standards
Logic	QDM Data Elements	QDM Standards
Value Set		

CMS164v5 - Ischemic Vascular Disease (IVD): Use of Aspirin or Another Antiplatelet

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Clinical Recommendation Statement.	Header	Clinical Recommendation Statement	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Added an exclusion for patients who used anticoagulant medications during the measurement year to align with the NQF-endorsed measure.	Header	Denominator Exclusions	JIRA (CQM-1589)
Updated the measure description to more accurately reflect the measure intent.	Header	Description	JIRA (CQM-1741)
Incremented eMeasure Version number.	Header	eMeasure Version number	Annual Update
Removed guidance as it no longer applied.	Header	Guidance	JIRA (CQM-1741)
Updated the Initial Population to more accurately reflect the measure intent.	Header	Initial Population	JIRA (CQM-1741)
Updated Rationale.	Header	Rationale	Measure Lead
Updated References.	Header	Reference	Measure Lead
Updated measure title to harmonize with the endorsed measure title.	Header	Title	JIRA (CQM-1741)
Added an exclusion for patients who used anticoagulant medications during the measurement year to align with the NQF-endorsed measure.	Logic	Denominator Exclusions	JIRA (CQM-1589)
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Initial Population	QDM Standards
Updated the name of the value set from anti-thrombotics to antiplatelets to align with the content of the value set.	Logic	Numerator	JIRA (CQM-1589)
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Value set Anticoagulant Medications (2.16.840.1.113883.3.464.1003.196.12.1283): Added Anticoagulant Medications.	Logic	QDM Data Elements	
Value set Aspirin and Other Anti-thrombotics (2.16.840.1.113883.3.464.1003.196.12.1211): Renamed Aspirin and Other Anti-thrombotics to Aspirin and Other Antiplatelets.	Logic	QDM Data Elements	
Value set Acute Myocardial Infarction (2.16.840.1.113883.3.464.1003.104.12.1001): Added 21 ICD9CM codes. Added 15 ICD10CM codes.	Value Set		
Value set Anticoagulant Medications (2.16.840.1.113883.3.464.1003.196.12.1283): Added Anticoagulant Medications.	Value Set		
Value set Aspirin and Other Antiplatelets (2.16.840.1.113883.3.464.1003.196.12.1211): Deleted 7 RXNORM codes (243663, 246460, 252380, 403924, 432389, 435504, 435521).	Value Set		
Value set Aspirin and Other Anti-thrombotics (2.16.840.1.113883.3.464.1003.196.12.1211): Renamed Aspirin and Other Anti-thrombotics to Aspirin and Other Antiplatelets.	Value Set		
Value set Ischemic Vascular Disease (2.16.840.1.113883.3.464.1003.104.12.1003): Added 9 ICD9CM codes (414.3, 414.4, 437.0, 440.0, 440.30, 440.31, 440.32, 440.8, 440.9) and deleted 1 ICD9CM code(413.1). Added 206 ICD10CM codes and deleted 1 ICD10CM code (I20.1).	Value Set		

CMS165v5 - Controlling High Blood Pressure

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Copyright.	Header	Copyright	Annual Update
Incremented eMeasure Version number.	Header	eMeasure Version number	Annual Update
Added guidance indicating which blood pressure reading to use when there are multiple readings on the same day.	Header	Guidance	JIRA (CQM-1775)
Updated Rationale.	Header	Rationale	Measure Lead
Updated References.	Header	Reference	Measure Lead
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Denominator Exclusions	QDM Standards
Adjusted timing statement to capture the time period specified in the measure description.	Logic	Initial Population	Measure Lead
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Initial Population	QDM Standards
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Numerator	QDM Standards
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Value set Kidney Transplant (2.16.840.1.113883.3.464.1003.109.12.1012): Added 1 HCPCS code (S2065).	Value Set		

CMS166v6 - Use of Imaging Studies for Low Back Pain

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Copyright.	Header	Copyright	Annual Update
Incremented eMeasure Version number.	Header	eMeasure Version number	Annual Update
Updated Initial Patient Population to Initial Population to align with the change to the QDM.	Header	Guidance	Measure Lead
Updated Rationale.	Header	Rationale	Measure Lead
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Denominator Exclusions	QDM Standards
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Initial Population	QDM Standards
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Numerator	QDM Standards
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Variables	QDM Standards
Value set CT Scan of Lower Spine (2.16.840.1.113883.3.464.1003.113.12.1035): Deleted 1 LOINC code (70928-7).	Value Set		
Value set Low Back Pain (2.16.840.1.113883.3.464.1003.113.12.1001): Deleted 2 ICD10CM codes (M43.27, M43.28).	Value Set		
Value set MRI of Lower Spine (2.16.840.1.113883.3.464.1003.113.12.1034): Deleted 1 LOINC code (38060-0).	Value Set		
Value set Neurologic impairment (2.16.840.1.113883.3.464.1003.114.12.1012): Added 1 ICD10CM code (M79.2).	Value Set		

CMS167v5 - Diabetic Retinopathy: Documentation of Presence or Absence of Macular Edema and Level of Severity of Retinopathy

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Copyright.	Header	Copyright	Annual Update
Updated Disclaimer.	Header	Disclaimer	Measure Lead
Incremented eMeasure Version number.	Header	eMeasure Version number	Annual Update
Updated Measure Developer.	Header	Measure Developer	Measure Lead
Updated Measure Steward.	Header	Measure Steward	Measure Lead
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Initial Population	QDM Standards
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Value set Medical Reason (2.16.840.1.113883.3.526.3.1007): Deleted 1 SNOMEDCT code (161590003).	Value Set		
Value set Patient Reason (2.16.840.1.113883.3.526.3.1008): Deleted 1 SNOMEDCT code (5015009).	Value Set		

CMS169v5 - Bipolar Disorder and Major Depression: Appraisal for alcohol or chemical substance use

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Incremented eMeasure Version number.	Header	eMeasure Version number	Annual Update
Updated the Guidance to provide direction on BH Outpatient Psychotherapy encounters.	Header	Guidance	Measure Lead
Removed parenthetical note from the Numerator header statement. This information is already included in the Guidance.	Header	Numerator	Measure Lead
Due to value set updates, created the new variable \$BHOupptPsychotherapy to capture BH Outpatient Psychotherapy encounters separately from BH Outpatient encounters.	Logic	Initial Population	Measure Lead
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Initial Population	QDM Standards
Simplified the Initial Population logic by combining two 'satisfies any' clauses into a single clause.	Logic	Initial Population	Measure Lead
Simplified the Initial Population logic by removing 'AND: Occurrence A of \$BHEncounter'. This statement is redundant as other logic within the Initial Population references Occurrence A of \$BHEncounter.	Logic	Initial Population	Measure Lead
The earlier version of this measure contained Initial Population logic that incorrectly referenced the same instance of the \$BHEncounter variable in a timing relationship to itself. This issue has been corrected.	Logic	Initial Population	Measure Lead
Updated the Initial Population logic so a BH Outpatient Psychotherapy encounter is evaluated as both an encounter and a treatment.	Logic	Initial Population	Measure Lead
Due to value set updates, created the new variable \$BHOupptPsychotherapy to capture BH Outpatient Psychotherapy encounters separately from BH Outpatient encounters.	Logic	Numerator	Measure Lead
The previous Numerator timing logic was not fully meeting the measure intent. Updated timings to 'starts after or concurrent with start of' and 'ends before or concurrent with start of'.	Logic	Numerator	Measure Lead
Updated the Numerator logic so a BH Outpatient Psychotherapy encounter is evaluated as both an encounter and a treatment.	Logic	Numerator	Measure Lead
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Due to value set updates, created the new variable \$BHOupptPsychotherapy to capture BH Outpatient Psychotherapy encounters separately from BH Outpatient encounters.	Logic	QDM Variables	Measure Lead
Value set BH Antidepressant Medication (2.16.840.1.113883.3.1257.1.972): Deleted 1 RXNORM code (1098710).	Value Set		
Value set BH Mood Stabilizer Medication (2.16.840.1.113883.3.1257.1.950): Deleted 7 RXNORM codes (865148, 238104, 856706, 856720, 856797, 856825, 856840).	Value Set		
Value set BH Outpatient encounter (2.16.840.1.113883.3.464.1.49): Deleted 5 SNOMEDCT codes (108313002, 183382003, 183383008, 75516001, 76168009). Deleted 16 ICD9CM codes. Deleted 1 CPT code (99211).	Value Set		
Deleted 11 ICD10PCS codes (GZ50ZZZ, GZ51ZZZ, GZ52ZZZ, GZ53ZZZ, GZ54ZZZ, GZ55ZZZ, GZ56ZZZ, GZ58ZZZ, GZ59ZZZ, GZ72ZZZ, GZHZZZZ).	Value Set		

CMS177v5 - Child and Adolescent Major Depressive Disorder (MDD): Suicide Risk Assessment

Technical Release Notes

Updated Copyright.

Updated Disclaimer.

Incremented eMeasure Version number.

Updated Measure Developer.

Updated Measure Steward.

Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.

Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.

Type of TRN

Header

Header

Header

Header

Header

Logic

Logic

Measure Section

Copyright

Disclaimer

eMeasure Version number

Measure Developer

Measure Steward

Initial Population

QDM Data Elements

Source of Change

Annual Update

Measure Lead

Annual Update

Measure Lead

Measure Lead

QDM Standards

QDM Standards

CMS179v5 - ADE Prevention and Monitoring: Warfarin Time in Therapeutic Range

Technical Release Notes

Updated Copyright.

Incremented eMeasure Version number.

Removed the capital 'A' from the word 'all' in the measure population.

Updated Rationale.

Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.

Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.

Type of TRN

Header

Header

Header

Header

Logic

Logic

Measure Section

Copyright

eMeasure Version number

Measure Population

Rationale

Initial Population

QDM Data Elements

Source of Change

Annual Update

Annual Update

Measure Lead

Measure Lead

QDM Standards

QDM Standards

CMS182v6 - Ischemic Vascular Disease (IVD): Complete Lipid Profile and LDL-C Control (<100 mg/dL)

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Copyright.	Header	Copyright	Annual Update
Updated Denominator Exclusion with the word 'None' as required by the QDM.	Header	Denominator Exclusions	Measure Lead
Updated the measure description to align the descriptions for both Ischemic Vascular Disease measures.	Header	Description	Measure Lead
Incremented eMeasure Version number.	Header	eMeasure Version number	Annual Update
Updated the guidance wording to align the with the Ischemic Vascular Disease measures.	Header	Guidance	Measure Lead
Updated the Initial Population description to align the descriptions for both Ischemic Vascular Disease measures.	Header	Initial Population	Measure Lead
Updated measure name to harmonize with the endorsed measure name.	Header	Title	Measure Lead
Adjusted timing statement to capture the time period specified in the measure description.	Logic	Initial Population	Measure Lead
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	Initial Population	QDM Standards
Replaced datatypes 'Diagnosis, Active; Diagnosis, Inactive; Diagnosis, Resolved' with the re-specified 'Diagnosis' datatype to conform to QDM 4.2 changes.	Logic	QDM Data Elements	QDM Standards
Value set Acute Myocardial Infarction (2.16.840.1.113883.3.464.1003.104.12.1001): Added 21 ICD9CM codes. Added 15 ICD10CM codes.	Value Set		
Value set Ischemic Vascular Disease (2.16.840.1.113883.3.464.1003.104.12.1003): Added 9 ICD9CM codes (414.3, 414.4, 437.0, 440.0, 440.30, 440.31, 440.32, 440.8, 440.9) and deleted 1 ICD9CM code(413.1). Added 206 ICD10CM codes and deleted 1 ICD10CM code (I20.1).	Value Set		