

Technical Release Notes:
2019 Reporting/Performance Period Electronic Clinical Quality Measure (eCQM)
Value Set Addendum for Eligible Hospitals, Critical Access Hospitals,
Eligible Professionals, and Eligible Clinicians

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CMS9v7 - Exclusive Breast Milk Feeding

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Version Number.	Header	eMeasure Version number	Measure Lead
Added statement to header description that explains measure rate to better align with the clinical intent and the chart-abstracted version of the measure.	Header	Description	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Corrected website link for Ip, et al reference.	Header	Reference	Measure Lead
Corrected website link for the California Department of Public Health reference.	Header	Reference	Measure Lead
Removed the 'Single Live Birth' value set from the logic because it was revised and was added to the 'Single Live Born Newborn Born in Hospital' grouping value set.	Logic	Initial Population	Measure Lead
Added 'code' attribute to all datatypes to conform with QDM 5.3 changes.	Logic	Denominator Exclusions	Standards Update
Modeled the Location attribute for Encounter, Performed to allow for describing the patient's presence in more than one location during an individual Encounter to conform with QDM 5.3 changes.	Logic	Denominator Exclusions	Standards Update
Replaced 'Discharge status' attribute with 'Discharge Disposition' attribute for 'Encounter, Performed' and 'Encounter, Active' datatypes to align with QDM 5.3 changes.	Logic	Denominator Exclusions	Standards Update
Added supplemental timing attributes to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Replaced measure-defined definitions with similar definitions and functions from CQL shared libraries for consistency across measures.	Logic	Multiple Sections	Standards Update
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update
Value set Single Live Born Newborn Born in Hospital (2.16.840.1.113883.3.117.1.7.1.26): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.117.1.7.1.25) including 3 codes.	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update

CMS9v7 - Exclusive Breast Milk Feeding

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum

CMS26v6 - Home Management Plan of Care (HMPC) Document Given to Patient/Caregiver

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Version Number.	Header	eMeasure Version number	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Removed outdated reference (American College of Chest Physicians , 2015) because linked document is no longer available.	Header	Reference	Measure Lead
Updated Reference to include Asthma facts and figures.	Header	Reference	Measure Lead
Revised the Numerator header statement to better align with measure logic.	Header	Numerator	Measure Lead
Replaced 'Discharge status' attribute with 'Discharge Disposition' attribute for 'Encounter, Performed' datatype to align with QDM 5.3 changes.	Logic	Denominator	Standards Update
Added 'AuthorDateTime' attribute to QDM datatypes that include negation rationale: 'Communication: From Provider to Patient, Not Done' to conform with QDM 5.3 changes.	Logic	Numerator	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Replaced measure-defined definitions with similar definitions and functions from CQL shared libraries for consistency across measures.	Logic	Multiple Sections	Standards Update
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update
Value set Patient Refusal (2.16.840.1.113883.3.117.1.7.1.93): Deleted 2 SNOMEDCT codes (183956002, 385648002).	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update
Value set Asthma (2.16.840.1.113883.3.117.1.7.1.271): Added 26 SNOMEDCT codes and deleted 1 SNOMEDCT code (641000119106).	Value Set	QDM Data Elements	Annual Update
Replaced LOINC single code value sets with direct referenced codes. A direct referenced code is a single concept code that is used to describe a clinical element directly within the logic. The use of direct referenced codes replaces the need for single code value sets. Measures using other code systems in single value sets may optionally transition to direct referenced codes.	Value Set	QDM Data Elements	Standards Update
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum

CMS31v7 - Hearing Screening Prior To Hospital Discharge

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Version Number.	Header	eMeasure Version number	Measure Lead
Replaced the word 'None' with the standard copyright information.	Header	Copyright	Annual Update
Removed the measurement period/reporting period text because it is not needed.	Header	Guidance	Measure Lead
Revised guidance to define and clarify what constitutes a Complete Hearing Screening: Complete hearing screening is defined as having both ears screened during the inpatient encounter.	Header	Guidance	Measure Lead
Revised denominator exclusion statement by replacing text '...hearing screening for the left or right ear' with '...a complete hearing screening' to better align with logic and the measure intent.	Header	Denominator Exclusions	Measure Lead
Revised numerator by replacing text 'Live birth encounters during the measurement period where a patient born at the facility is screened for hearing loss prior to discharge or...' with 'A live birth encounter where a complete newborn hearing screening is performed prior to discharge or the newborn is...' to better align with the measure intent.	Header	Numerator	Measure Lead
Added Author Datetime attribute to 'Diagnosis' datatype to align with QDM 5.3 changes.	Logic	Denominator Exclusions	Standards Update
Replaced 'Discharge status' attribute with 'Discharge Disposition' attribute for 'Encounter, Performed' and 'Encounter, Active' datatypes to align with QDM 5.3 changes.	Logic	Denominator Exclusions	Standards Update
Replaced the Newborn Hearing Screen Right and Newborn Hearing Screen Left with Complete Hearing Screening in logic to better align with intent of the measure.	Logic	Denominator Exclusions	Measure Lead
Added 'code' attribute to all datatypes to conform with QDM 5.3 changes.	Logic	Denominator Exclusions	Standards Update
Added Author Datetime attribute to 'Diagnosis' datatype to align with QDM 5.3 changes.	Logic	Numerator	Standards Update
Added 'Component' attribute to 'Assessment, Performed', 'Diagnostic, Performed' and 'Laboratory Test, Performed' datatypes to conform with QDM 5.3 changes.	Logic	Numerator	Standards Update
Replaced the Newborn Hearing Screen Right and Newborn Hearing Screen Left with Complete Hearing Screening in logic to better align with intent of the measure.	Logic	Numerator	Measure Lead
Added 'code' attribute to all datatypes to conform with QDM 5.3 changes.	Logic	Numerator	Standards Update
Added supplemental timing attributes to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Replaced measure-defined definitions with similar definitions and functions from CQL shared libraries for consistency across measures.	Logic	Multiple Sections	Standards Update

CMS31v7 - Hearing Screening Prior To Hospital Discharge

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update
Value set Live Birth Newborn Born in Hospital (2.16.840.1.113762.1.4.1046.6): Added 2 SNOMEDCT codes (17561000119102, 717803002).	Value Set	QDM Data Elements	Annual Update
Replaced the Patient Expired value set with a direct reference code. The value set is no longer used by the measure because the CQL expression uses the direct-referenced code rather than this single code value set. A direct referenced code is a single concept code that is used to describe a clinical element directly within the logic. The use of direct referenced codes replaces the need for single code value sets.	Value Set	QDM Data Elements	Measure Lead
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum

CMS32v8 - Median Time from ED Arrival to ED Departure for Discharged ED Patients

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Version Number.	Header	eMeasure Version number	Measure Lead
Updated Description.	Header	Description	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Replaced the word Stratum with Stratification to align with CQL MAT export.	Header	Stratification	Measure Lead
Updated Measure Observations for ED patients placed in observation services, to use the time of the observation order for ED Departure time to better align with the chart-abstraction version of the measure.	Header	Measure Observations	Measure Lead
Replaced 'Discharge status' attribute with 'Discharge Disposition' attribute for 'Encounter, Performed' and 'Transfer From' with 'Admission Source' for 'Encounter, Performed' datatypes to align with QDM 5.3 changes.	Logic	Denominator Exclusions	Standards Update
Updated Measure Population for emergency department encounters.	Header	Measure Population	Measure Lead
Added 'code' attribute to all datatypes to conform with QDM 5.3 changes.	Logic	Measure Population Exclusions	Standards Update
Modeled the Location attribute for Encounter, Performed to allow for describing the patient's presence in a single location during an individual Encounter to conform with QDM 5.3 changes.	Logic	Measure Observations	Standards Update
Added logic to the Measure Observation for ED patients placed in observation services, to use the time of the observation order for ED Departure time to determine the Median elapsed time (in minutes) from emergency department arrival to ED departure. This logic change better aligns with the chart-abstraction version of the measure.	Logic	Measure Observations	Measure Lead
Replaced the word Stratum with Stratification to align with CQL MAT export.	Logic	Stratification	Measure Lead
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update
Value set (2.16.840.1.113883.3.117.1.7.1.299): Renamed to Psychiatric/Mental Health Diagnosis.	Value Set	QDM Data Elements	Annual Update
Value set Psychiatric/Mental Health Diagnosis (2.16.840.1.113883.3.117.1.7.1.299): Deleted 5 SNOMEDCT codes (191536002, 191537006, 191540006, 1938002, 230290000).	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update
Value set Observation Services (2.16.840.1.113762.1.4.1111.143): Added Observation Services that contains revised ED departure time for ED patients placed in observation services.	Value Set	QDM Data Elements	Chart Abstracted Measures

CMS32v8 - Median Time from ED Arrival to ED Departure for Discharged ED Patients

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Replaced SNOMEDCT single code value sets with direct referenced codes. A direct referenced code is a single concept code that is used to describe a clinical element directly within the logic. The use of direct referenced codes replaces the need for single code value sets. Measures using other code systems in single value sets may optionally transition to direct referenced codes.	Value Set	QDM Data Elements	Standards Update
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum
Value set Psychiatric/Mental Health Diagnosis (2.16.840.1.113883.3.117.1.7.1.299): Added 6 ICD10CM codes (F12.23, F12.93, F53.0, F68.A, Z62.813, Z91.42) and deleted 1 ICD10CM code (F53). Deleted 5 SNOMEDCT codes (191601008, 191602001, 191606003, 268620009, 79578000).	Value Set	QDM Data Elements	2019 Addendum

CMS53v7 - Primary PCI Received Within 90 Minutes of Hospital Arrival

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Version Number.	Header	eMeasure Version number	Measure Lead
Updated the measure description to make the language clear and concise. This is a language update only.	Header	Description	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Removed guidance statement related to the inability to explicitly express the primary percutaneous coronary intervention (PCI) with QDM-based logic because the measure is now expressed using CQL and this is no longer an issue.	Header	Guidance	Measure Lead
Updated the numerator statement to better align with the CQL-based logic and for consistency with the denominator statement.	Header	Numerator	Measure Lead
Removed the QDM subset operator 'Most Recent' since timing in CQL only requires 'First' to capture the intent.	Logic	Denominator	Measure Lead
Removed 'Transfer from' datatype to conform with QDM 5.3 changes.	Logic	Denominator Exclusions	Standards Update
Replaced 'Discharge status' attribute with 'Admission Source' and attribute for 'Encounter, Performed' and 'Encounter, Active' datatypes to align with QDM 5.3 changes.	Logic	Denominator Exclusions	Standards Update
Modeled the Location attribute for Encounter, Performed to allow for describing the patient's presence in more than one location during an individual Encounter to conform with QDM 5.3 changes.	Logic	Numerator	Standards Update
Added supplemental timing attributes to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Replaced measure-defined definitions with similar definitions and functions from CQL shared libraries for consistency across measures.	Logic	Multiple Sections	Standards Update
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update
Value set Endotracheal Intubation (2.16.840.1.113762.1.4.1045.69): Added 3 ICD10PCS codes (OB110F4, OB113F4, OB114F4).	Value Set	QDM Data Elements	Annual Update

CMS53v7 - Primary PCI Received Within 90 Minutes of Hospital Arrival

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Value set Acute or Evolving MI (2.16.840.1.113883.3.666.5.3022): Added 1 SNOMEDCT code (15962541000119106).	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update
Value set Acute or Evolving MI (2.16.840.1.113883.3.666.5.3022): Added 1 SNOMEDCT code (15963181000119104).	Value Set	QDM Data Elements	2019 Addendum
Value set PCI (2.16.840.1.113762.1.4.1045.67): Added 1 SNOMEDCT code (737085003).	Value Set	QDM Data Elements	2019 Addendum
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum

CMS55v7 - Median Time from ED Arrival to ED Departure for Admitted ED Patients

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Version Number.	Header	eMeasure Version number	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Replaced the word Stratum with Stratification to align with CQL MAT export.	Header	Stratification	Measure Lead
Added 'resulting in an inpatient stay' to the Measure Population Exclusion to clarify intent of the measure and better align with the logic.	Header	Measure Population Exclusions	Measure Lead
Removed 'Transfer from' datatype to conform with QDM 5.3 changes.	Logic	Measure Population Exclusions	Standards Update
Replaced 'Discharge status' attribute with 'Discharge Disposition' attribute for 'Encounter, Performed' and 'Transfer From' with 'Admission Source' for 'Encounter, Performed' datatypes to align with QDM 5.3 changes.	Logic	Measure Population Exclusions	Standards Update
Replaced <= 6 hours timing constraint with logic that ties the 'admissionSource' ('transfer from') to the Inpatient Encounter and the ED Encounter visit because the timing constraint is not required with CQL.	Logic	Measure Population Exclusions	Measure Lead
Added 'code' attribute to all datatypes to conform with QDM 5.3 changes.	Logic	Measure Observations	Standards Update
Modeled the Location attribute for Encounter, Performed to allow for describing the patient's presence in a single location during an individual Encounter to conform with QDM 5.3 changes.	Logic	Measure Observations	Standards Update
Replaced the word Stratum with Stratification to align with CQL MAT export.	Logic	Stratification	Measure Lead
Added supplemental timing attributes to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Replaced measure-defined definitions with similar definitions and functions from CQL shared libraries for consistency across measures.	Logic	Multiple Sections	Standards Update
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update
Value set (2.16.840.1.113883.3.117.1.7.1.299): Renamed to Psychiatric/Mental Health Diagnosis.	Value Set	QDM Data Elements	Annual Update
Value set Psychiatric/Mental Health Diagnosis (2.16.840.1.113883.3.117.1.7.1.299): Deleted 5 SNOMEDCT codes (191536002, 191537006, 191540006, 1938002, 230290000).	Value Set	QDM Data Elements	Annual Update

CMS55v7 - Median Time from ED Arrival to ED Departure for Admitted ED Patients

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum
Value set Psychiatric/Mental Health Diagnosis (2.16.840.1.113883.3.117.1.7.1.299): Added 6 ICD10CM codes (F12.23, F12.93, F53.0, F68.A, Z62.813, Z91.42) and deleted 1 ICD10CM code (F53). Deleted 5 SNOMEDCT codes (191601008, 191602001, 191606003, 268620009, 79578000).	Value Set	QDM Data Elements	2019 Addendum

CMS71v8 - Anticoagulation Therapy for Atrial Fibrillation/Flutter

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Version Number.	Header	eMeasure Version number	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Added 'AuthorDateTime' attribute to QDM datatypes that include negation rationale: 'Medication, Not Discharged' to conform with QDM 5.3 changes.	Logic	Denominator Exclusions	Standards Update
Replaced 'Discharge status' attribute with 'Discharge Disposition' attribute for 'Encounter, Performed' and 'Encounter, Active' datatypes to align with QDM 5.3 changes.	Logic	Denominator Exclusions	Standards Update
Added supplemental timing attributes to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Replaced measure-defined definitions with similar definitions and functions from CQL shared libraries for consistency across measures.	Logic	Multiple Sections	Standards Update
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update
Value set Patient Refusal (2.16.840.1.113883.3.117.1.7.1.93): Deleted 2 SNOMEDCT codes (183956002, 385648002).	Value Set	QDM Data Elements	Annual Update
Value set Hemorrhagic Stroke (2.16.840.1.113883.3.117.1.7.1.212): Deleted 1 SNOMEDCT code (28837001).	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update
Value set Anticoagulant Therapy (2.16.840.1.113883.3.117.1.7.1.200): Added 1 RXNORM code (1549682).	Value Set	QDM Data Elements	2019 Addendum
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum
Value set Ischemic Stroke (2.16.840.1.113883.3.117.1.7.1.247): Added 2 ICD10CM codes (I63.81, I63.89) and deleted 1 ICD10CM code (I63.8).	Value Set	QDM Data Elements	2019 Addendum

CMS72v7 - Antithrombotic Therapy By End of Hospital Day 2

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Version Number.	Header	eMeasure Version number	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Updated Reference.	Header	Reference	Measure Lead
Updated Guidance.	Header	Guidance	Measure Lead
Added 'AuthorDateTime' attribute to QDM datatypes that include negation rationale: 'Medication, Not Discharged' to conform with QDM 5.3 changes.	Logic	Denominator Exclusions	Standards Update
Added supplemental timing attributes to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Replaced measure-defined definitions with similar definitions and functions from CQL shared libraries for consistency across measures.	Logic	Multiple Sections	Standards Update
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update
Value set Antithrombotic Therapy (2.16.840.1.113883.3.117.1.7.1.201): Added 1 RXNORM code (1536467) and deleted 5 RXNORM codes (1536871, 198463, 205281, 308370, 545871).	Value Set	QDM Data Elements	Annual Update
Value set Patient Refusal (2.16.840.1.113883.3.117.1.7.1.93): Deleted 2 SNOMEDCT codes (183956002, 385648002).	Value Set	QDM Data Elements	Annual Update
Value set Hemorrhagic Stroke (2.16.840.1.113883.3.117.1.7.1.212): Deleted 1 SNOMEDCT code (28837001).	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update
Value set Antithrombotic Therapy (2.16.840.1.113883.3.117.1.7.1.201): Deleted 1 RXNORM code (647869).	Value Set	QDM Data Elements	2019 Addendum
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum
Value set Ischemic Stroke (2.16.840.1.113883.3.117.1.7.1.247): Added 2 ICD10CM codes (I63.81, I63.89) and deleted 1 ICD10CM code (I63.8).	Value Set	QDM Data Elements	2019 Addendum

CMS102v7 - Assessed for Rehabilitation

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Version Number.	Header	eMeasure Version number	Measure Lead
Replaced 'Discharge status' attribute with 'Discharge Disposition' attribute for 'Encounter, Performed' and 'Encounter, Active' datatypes to align with QDM 5.3 changes.	Logic	Denominator Exclusions	Standards Update
Added 'AuthorDateTime' attribute to QDM datatypes that include negation rationale: 'Procedure, Not Performed' to conform with QDM 5.3 changes.	Logic	Numerator	Standards Update
Replaced 'Discharge status' attribute with 'Discharge Disposition' attribute for 'Encounter, Performed' and 'Transfer From' with 'Admission Source for' 'Encounter, Performed' datatypes to align with QDM 5.3 changes.	Logic	Numerator	Standards Update
Added supplemental timing attributes to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Replaced measure-defined definitions with similar definitions and functions from CQL shared libraries for consistency across measures.	Logic	Multiple Sections	Standards Update
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update
Value set Patient Refusal (2.16.840.1.113883.3.117.1.7.1.93): Deleted 2 SNOMEDCT codes (183956002, 385648002).	Value Set	QDM Data Elements	Annual Update
Value set Hemorrhagic Stroke (2.16.840.1.113883.3.117.1.7.1.212): Deleted 1 SNOMEDCT code (28837001).	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update
Value set Rehabilitation Therapy (2.16.840.1.113762.1.4.1045.19): Deleted 1 SNOMEDCT code (448275004).	Value Set	QDM Data Elements	2019 Addendum
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum
Value set Ischemic Stroke (2.16.840.1.113883.3.117.1.7.1.247): Added 2 ICD10CM codes (I63.81, I63.89) and deleted 1 ICD10CM code (I63.8).	Value Set	QDM Data Elements	2019 Addendum

CMS104v7 - Discharged on Antithrombotic Therapy

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Version Number.	Header	eMeasure Version number	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Added 'AuthorDateTime' attribute to QDM datatypes that include negation rationale: 'Medication, Not Discharged' to conform with QDM 5.3 changes.	Logic	Denominator Exclusions	Standards Update
Replaced 'Discharge status' attribute with 'Discharge Disposition' attribute for 'Encounter, Performed' and 'Encounter, Active' datatypes to align with QDM 5.3 changes.	Logic	Denominator Exclusions	Standards Update
Added supplemental timing attributes to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Replaced measure-defined definitions with similar definitions and functions from CQL shared libraries for consistency across measures.	Logic	Multiple Sections	Standards Update
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update
Value set Antithrombotic Therapy (2.16.840.1.113883.3.117.1.7.1.201): Added 1 RXNORM code (1536467) and deleted 5 RXNORM codes (1536871, 198463, 205281, 308370, 545871).	Value Set	QDM Data Elements	Annual Update
Value set Patient Refusal (2.16.840.1.113883.3.117.1.7.1.93): Deleted 2 SNOMEDCT codes (183956002, 385648002).	Value Set	QDM Data Elements	Annual Update
Value set Hemorrhagic Stroke (2.16.840.1.113883.3.117.1.7.1.212): Deleted 1 SNOMEDCT code (28837001).	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update
Value set Antithrombotic Therapy (2.16.840.1.113883.3.117.1.7.1.201): Deleted 1 RXNORM code (647869).	Value Set	QDM Data Elements	2019 Addendum
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum
Value set Ischemic Stroke (2.16.840.1.113883.3.117.1.7.1.247): Added 2 ICD10CM codes (I63.81, I63.89) and deleted 1 ICD10CM code (I63.8).	Value Set	QDM Data Elements	2019 Addendum

CMS105v7 - Discharged on Statin Medication

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Version Number.	Header	eMeasure Version number	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Removed *Patients with an LDL-c of less than 70 mg/dL <30 days prior to arrival or any time during the hospital stay from Denominator Exclusions narrative. Added *Patients with a maximum LDL-c result of less than 70 mg/dL <30 days prior to arrival or any time during the hospital stay to Denominator Exceptions.	Header	Denominator Exclusions	JIRA (CQM-2799)
Added *Patients with a maximum LDL-c result of less than 70 mg/dL <30 days prior to arrival or any time during the hospital stay to Denominator Exceptions to better align with the clinical intent and the chart-abstracted version of measure.	Header	Denominator Exceptions	Measure Lead
Removed *Patients with an LDL-c of less than 70 mg/dL <30 days prior to arrival or any time during the hospital stay from Denominator Exclusions narrative. Added *Patients with a maximum LDL-c result of less than 70 mg/dL <30 days prior to arrival or any time during the hospital stay to Denominator Exceptions.	Header	Denominator Exceptions	JIRA (CQM-2799)
Revised denominator exception time frame for patients with a maximum LDL-c result of less than 70 mg/dL so it is inclusive of 30 days to better align with measure logic and intent.	Header	Denominator Exceptions	Measure Lead
Added AuthorDateTime Attribute to QDM datatypes that include negation rationale: 'Medication, Not Discharged' to conform with QDM 5.3 changes.	Logic	Denominator Exclusions	Standards Update
Removed LDL logic from Denominator Exclusions and added it to the Denominator Exceptions to align better with clinical intent of the measure.	Logic	Denominator Exclusions	JIRA (CQM-2799)
Replaced 'Discharge status' attribute with 'Discharge Disposition' attribute for 'Encounter, Performed' and 'Encounter, Active' datatypes to align with QDM 5.3 changes.	Logic	Denominator Exclusions	Standards Update
Removed LDL logic from Denominator Exclusions and added it to the Denominator Exceptions to align better with clinical intent of the measure.	Logic	Denominator Exceptions	JIRA (CQM-2799)
Replaced 'Allergy, Intolerance' datatypes with 'Allergy/Intolerance' category to conform with QDM 5.3 changes.	Logic	Denominator Exceptions	Standards Update
Revised LDL logic to be more precise with CQL. Logic now looks at the attribute of .resultDatetime during the specified time interval.	Logic	Denominator Exceptions	JIRA (CQM-2710)
Revised LDL logic to look for the Maximum LDL < 70 mg/dL in the specified time frame to better align with the clinical intent and the chart-abstracted version of measure.	Logic	Denominator Exceptions	Measure Lead
Added supplemental timing attributes to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update

CMS105v7 - Discharged on Statin Medication

Technical Release Notes	Type of TRN	Measure Section	Source of Change
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Replaced measure-defined definitions with similar definitions and functions from CQL shared libraries for consistency across measures.	Logic	Multiple Sections	Standards Update
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update
Value set LDL-c (2.16.840.1.113883.3.117.1.7.1.215): Added 1 LOINC code (86911-5).	Value Set	QDM Data Elements	Annual Update
Value set Patient Refusal (2.16.840.1.113883.3.117.1.7.1.93): Deleted 2 SNOMEDCT codes (183956002, 385648002).	Value Set	QDM Data Elements	Annual Update
Value set Hemorrhagic Stroke (2.16.840.1.113883.3.117.1.7.1.212): Deleted 1 SNOMEDCT code (28837001).	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum
Value set Ischemic Stroke (2.16.840.1.113883.3.117.1.7.1.247): Added 2 ICD10CM codes (I63.81, I63.89) and deleted 1 ICD10CM code (I63.8).	Value Set	QDM Data Elements	2019 Addendum
Value set Statin Grouper (2.16.840.1.113762.1.4.1110.19): Added 3 RXNORM codes (2001254, 2001262, 2001266).	Value Set	QDM Data Elements	2019 Addendum

CMS107v7 - Stroke Education

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Version Number.	Header	eMeasure Version number	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Replaced 'Discharge status' attribute with 'Discharge Disposition' attribute for 'Encounter, Performed' and 'Transfer From' with 'Admission Source for' 'Encounter, Performed' datatypes to align with QDM 5.3 changes.	Logic	Denominator	Standards Update
Added 'AuthorDateTime' attribute to QDM datatypes that include negation rationale: 'Communication: From Provider to Patient, Not Done' to conform with QDM 5.3 changes.	Logic	Numerator	Standards Update
Added supplemental timing attributes to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Replaced measure-defined definitions with similar definitions and functions from CQL shared libraries for consistency across measures.	Logic	Multiple Sections	Standards Update
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update
Value set Patient Refusal (2.16.840.1.113883.3.117.1.7.1.93): Deleted 2 SNOMEDCT codes (183956002, 385648002).	Value Set	QDM Data Elements	Annual Update
Value set Hemorrhagic Stroke (2.16.840.1.113883.3.117.1.7.1.212): Deleted 1 SNOMEDCT code (28837001).	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum
Value set Ischemic Stroke (2.16.840.1.113883.3.117.1.7.1.247): Added 2 ICD10CM codes (I63.81, I63.89) and deleted 1 ICD10CM code (I63.8).	Value Set	QDM Data Elements	2019 Addendum

CMS108v7 - Venous Thromboembolism Prophylaxis

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Version Number.	Header	eMeasure Version number	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Added statement to header guidance regarding documentation requirements of reasons for no pharmacologic and no mechanical VTE prophylaxis. Statement clarifies guidance to better meet measure intent.	Header	Guidance	JIRA (CQM-2870)
Reworded the statement regarding administration of low dose unfractionated heparin to make it more clear.	Header	Guidance	Measure Lead
Added 'code' attribute to all datatypes to conform with QDM 5.3 changes.	Logic	Denominator Exclusions	Standards Update
Modeled the Location attribute for Encounter, Performed to allow for describing the patient's presence in more than one location during an individual Encounter to conform with QDM 5.3 changes.	Logic	Denominator Exclusions	Standards Update
Replaced 'Encounter, Performed: ICU Admission or Transfer' with an attribute of facility location in 'Intensive Care Unit' to better align with the intent of the measure.	Logic	Denominator Exclusions	JIRA (CQM-2172)
Added 'AuthorDateTime' attribute to QDM datatypes that include negation rationale: 'Medication, Not Administered', 'Medication, Not Ordered', 'Device, Not Applied', and 'Device, Not Ordered' to conform with QDM 5.3 changes.	Logic	Numerator	Standards Update
Added supplemental timing attributes to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Replaced measure-defined definitions with similar definitions and functions from CQL shared libraries for consistency across measures.	Logic	Multiple Sections	Standards Update
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update
Value set Low Dose Unfractionated Heparin for VTE Prophylaxis (2.16.840.1.113762.1.4.1045.39): Added 4 RXNORM codes (1361226, 1361568, 1658647, 1658659).	Value Set	QDM Data Elements	Annual Update
Value set Direct Thrombin Inhibitor (2.16.840.1.113883.3.117.1.7.1.205): Added 1 RXNORM code (1723476).	Value Set	QDM Data Elements	Annual Update

CMS108v7 - Venous Thromboembolism Prophylaxis

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Value set ICU Admission or Transfer (2.16.840.1.113883.3.117.1.7.1.305): Removed ICU Admission or Transfer.	Value Set	QDM Data Elements	Annual Update
Value set General Surgery (2.16.840.1.113883.3.117.1.7.1.255): Deleted 6 SNOMEDCT codes (18319008, 235326000, 235331003, 275015005, 37572001, 83462004).	Value Set	QDM Data Elements	Annual Update
Value set Obstetrics VTE (2.16.840.1.113883.3.117.1.7.1.264): Added 4 ICD10CM codes (O03.85, O04.85, O08.7, O87.8) and deleted 1 ICD10CM code (O87.0). Deleted 2 SNOMEDCT codes (72044001, 88980002).	Value Set	QDM Data Elements	Annual Update
Value set Patient Refusal (2.16.840.1.113883.3.117.1.7.1.93): Deleted 2 SNOMEDCT codes (183956002, 385648002).	Value Set	QDM Data Elements	Annual Update
Value set Hemorrhagic Stroke (2.16.840.1.113883.3.117.1.7.1.212): Deleted 1 SNOMEDCT code (28837001).	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update
Value set Obstetrics (2.16.840.1.113883.3.117.1.7.1.263): Deleted 4 SNOMEDCT codes (13010001, 1938002, 200117009, 88980002). Added 185 ICD10CM codes.	Value Set	QDM Data Elements	Annual Update
Value set Mental Health Diagnoses (2.16.840.1.113883.3.464.1003.105.12.1004): Deleted 59 SNOMEDCT codes. Added 12 ICD10CM codes.	Value Set	QDM Data Elements	Annual Update
Value set Intensive Care Unit (2.16.840.1.113762.1.4.1110.23): Added Intensive Care Unit.	Value Set	QDM Data Elements	Annual Update
Replaced LOINC single code value sets with direct referenced codes. A direct referenced code is a single concept code that is used to describe a clinical element directly within the logic. The use of direct referenced codes replaces the need for single code value sets. Measures using other code systems in single value sets may optionally transition to direct referenced codes.	Value Set	QDM Data Elements	Standards Update
Value set Low Dose Unfractionated Heparin for VTE Prophylaxis (2.16.840.1.113762.1.4.1045.39): Added 1 RXNORM code (1798389).	Value Set	QDM Data Elements	2019 Addendum
Value set Oral Factor Xa Inhibitor for VTE Prophylaxis or VTE Treatment (2.16.840.1.113883.3.117.1.7.1.134): Added 2 RXNORM codes (1927856, 1927864).	Value Set	QDM Data Elements	2019 Addendum
Value set Direct Thrombin Inhibitor (2.16.840.1.113883.3.117.1.7.1.205): Added 3 RXNORM codes (1798389, 1997015, 1997017).	Value Set	QDM Data Elements	2019 Addendum
Value set General Surgery (2.16.840.1.113883.3.117.1.7.1.255): Deleted 3 SNOMEDCT codes (287330000, 359604006, 359606008).	Value Set	QDM Data Elements	2019 Addendum
Value set Gynecological Surgery (2.16.840.1.113883.3.117.1.7.1.257): Deleted 10 SNOMEDCT codes (112917009, 14353000, 176909001, 27950001, 307263006, 307264000, 31545000, 4010009, 53139002, 59750000).	Value Set	QDM Data Elements	2019 Addendum
Value set Hip Replacement Surgery (2.16.840.1.113883.3.117.1.7.1.259): Deleted 1 SNOMEDCT code (339905004).	Value Set	QDM Data Elements	2019 Addendum
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum
Value set Obstetrics (2.16.840.1.113883.3.117.1.7.1.263): Added 18 ICD10CM codes and deleted 1 ICD10CM code (O86.0). Deleted 21 SNOMEDCT codes.	Value Set	QDM Data Elements	2019 Addendum
Value set Ischemic Stroke (2.16.840.1.113883.3.117.1.7.1.247): Added 2 ICD10CM codes (I63.81, I63.89) and deleted 1 ICD10CM code (I63.8).	Value Set	QDM Data Elements	2019 Addendum
Value set Mental Health Diagnoses (2.16.840.1.113883.3.464.1003.105.12.1004): Added 353 SNOMEDCT codes and deleted 222 SNOMEDCT codes. Added 1 ICD10CM code (F32.8).	Value Set	QDM Data Elements	2019 Addendum

CMS111v7 - Median Admit Decision Time to ED Departure Time for Admitted Patients

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Version Number.	Header	eMeasure Version number	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Replaced the word Stratum with Stratification to align with CQL MAT export.	Header	Stratification	Measure Lead
Added 'resulting in an inpatient stay' to the Measure Population Exclusion to clarify intent of the measure and better align with the logic.	Header	Measure Population Exclusions	Measure Lead
Removed 'Transfer from' datatype to conform with QDM 5.3 changes.	Logic	Denominator Exclusions	Standards Update
Replaced 'Discharge status' attribute with 'Discharge Disposition' attribute for 'Encounter, Performed' and 'Transfer From' with 'Admission Source' for 'Encounter, Performed' datatypes to align with QDM 5.3 changes.	Logic	Denominator Exclusions	Standards Update
Replaced <= 6 hours timing constraint with logic that ties the 'admissionSource' (transfer from) to the Inpatient Encounter and the ED Encounter visit because the timing constraint is not required with CQL.	Logic	Measure Population Exclusions	Measure Lead
Modeled the Location attribute for Encounter, Performed to allow for describing the patient's presence in a single location during an individual Encounter to conform with QDM 5.3 changes.	Logic	Measure Observations	Standards Update
Replaced the word Stratum with Stratification to align with CQL MAT export.	Logic	Stratification	Measure Lead
Added supplemental timing attributes to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Replaced measure-defined definitions with similar definitions and functions from CQL shared libraries for consistency across measures.	Logic	Multiple Sections	Standards Update
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update
Value set (2.16.840.1.113883.3.117.1.7.1.299): Renamed to Psychiatric/Mental Health Diagnosis.	Value Set	QDM Data Elements	Annual Update
Value set Psychiatric/Mental Health Diagnosis (2.16.840.1.113883.3.117.1.7.1.299): Deleted 5 SNOMEDCT codes (191536002, 191537006, 191540006, 1938002, 230290000).	Value Set	QDM Data Elements	Annual Update

CMS111v7 - Median Admit Decision Time to ED Departure Time for Admitted Patients

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum
Value set Psychiatric/Mental Health Diagnosis (2.16.840.1.113883.3.117.1.7.1.299): Added 6 ICD10CM codes (F12.23, F12.93, F53.0, F68.A, Z62.813, Z91.42) and deleted 1 ICD10CM code (F53). Deleted 5 SNOMEDCT codes (191601008, 191602001, 191606003, 268620009, 79578000).	Value Set	QDM Data Elements	2019 Addendum

CMS113v7 - Elective Delivery

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Version Number.	Header	eMeasure Version number	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Added two value sets for procedures, performed to the history of prior uterine surgery procedure to better align with the clinical intent and the chart-abstracted version of the measure.	Logic	Numerator	Measure Lead
Added supplemental timing attributes to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Replaced measure-defined definitions with similar definitions and functions from CQL shared libraries for consistency across measures.	Logic	Multiple Sections	Standards Update
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update
Value set Dinoprostone (2.16.840.1.113762.1.4.1045.56): Added 1 RXNORM code (197619).	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update
Value set Conditions Possibly Justifying Elective Delivery Prior to 39 Weeks Gestation (2.16.840.1.113883.3.117.1.7.1.286): Added 3 ICD10CM codes (O26.611, O26.612, O26.613) and deleted 1 ICD10CM code (O90.3).	Value Set	QDM Data Elements	Annual Update
Value set Uterine Horn (2.16.840.1.113762.1.4.1110.24): Added Uterine Horn.	Value Set	QDM Data Elements	Annual Update
Value set Metroplasty (2.16.840.1.113762.1.4.1110.25): Added Metroplasty.	Value Set	QDM Data Elements	Annual Update
Value set Artificial Rupture of Membranes (2.16.840.1.113762.1.4.1045.57): Added 1 SNOMEDCT code (408817009).	Value Set	QDM Data Elements	2019 Addendum
Value set Delivery Procedures (2.16.840.1.113762.1.4.1045.59): Added 27 SNOMEDCT codes.	Value Set	QDM Data Elements	2019 Addendum
Value set Cesarean Birth (2.16.840.1.113883.3.117.1.7.1.282): Added 1 SNOMEDCT code (709004006).	Value Set	QDM Data Elements	2019 Addendum

CMS113v7 - Elective Delivery

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Value set Medical Induction of Labor (2.16.840.1.113883.3.117.1.7.1.288): Added 3 ICD10PCS codes (3E0DXGC, 3E0P3VZ, 3E0P7VZ). Added 4 SNOMEDCT codes (225245001, 236971007, 237001001, 288191008).	Value Set	QDM Data Elements	2019 Addendum
Value set Perforation of Uterus (2.16.840.1.113762.1.4.1110.14): Added 1 SNOMEDCT code (236738001).	Value Set	QDM Data Elements	2019 Addendum
Value set Uterine Rupture (2.16.840.1.113762.1.4.1110.16): Added 2 SNOMEDCT codes (199958008, 23431000119106).	Value Set	QDM Data Elements	2019 Addendum
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum
Value set Conditions Possibly Justifying Elective Delivery Prior to 39 Weeks Gestation (2.16.840.1.113883.3.117.1.7.1.286): Added 9 ICD10CM codes (O30.131, O30.132, O30.133, O30.231, O30.232, O30.233, O30.831, O30.832, O30.833) and deleted 6 ICD10CM codes (O16.9, O43.219, O44.20, O44.30, O44.40, O44.50). Deleted 5 SNOMEDCT codes (200473005, 200474004, 37382001, 57480000, 80190007).	Value Set	QDM Data Elements	2019 Addendum

CMS190v7 - Intensive Care Unit Venous Thromboembolism Prophylaxis

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Version Number.	Header	eMeasure Version number	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Added statement to header guidance regarding documentation requirements of reasons for no pharmacologic and no mechanical VTE prophylaxis. Statement clarifies guidance to better meet measure intent.	Header	Guidance	JIRA (CQM-2870)
Replaced 'Encounter, Performed: ICU Admission or Transfer' with an attribute of facility location in 'Intensive Care Unit' to better align with the intent of the measure.	Logic	Denominator	JIRA (CQM-2172)
Replaced 'Encounter, Performed: ICU Admission or Transfer' with an attribute of facility location in 'Intensive Care Unit' to better align with the intent of the measure.	Logic	Denominator Exclusions	JIRA (CQM-2172)
Added 'AuthorDateTime' attribute to QDM datatypes that include negation rationale: 'Medication, Not Administered', 'Medication, Not Ordered', 'Device, Not Applied', and 'Device, Not Ordered' to conform with QDM 5.3 changes.	Logic	Numerator	Standards Update
Replaced 'Encounter, Performed: ICU Admission or Transfer' with an attribute of facility location in 'Intensive Care Unit' to better align with the intent of the measure.	Logic	Numerator	JIRA (CQM-2172)
Added 'code' attribute to all datatypes to conform with QDM 5.3 changes.	Logic	Multiple Sections	Standards Update
Added supplemental timing attributes to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Modeled the Location attribute for Encounter, Performed to allow for describing the patient's presence in more than one location during an individual Encounter to conform with QDM 5.3 changes.	Logic	Multiple Sections	Standards Update
Replaced measure-defined definitions with similar definitions and functions from CQL shared libraries for consistency across measures.	Logic	Multiple Sections	Standards Update
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update

CMS190v7 - Intensive Care Unit Venous Thromboembolism Prophylaxis

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Value set Low Dose Unfractionated Heparin for VTE Prophylaxis (2.16.840.1.113762.1.4.1045.39): Added 4 RXNORM codes (1361226, 1361568, 1658647, 1658659).	Value Set	QDM Data Elements	Annual Update
Value set General Surgery (2.16.840.1.113883.3.117.1.7.1.255): Deleted 6 SNOMEDCT codes (18319008, 235326000, 235331003, 275015005, 37572001, 83462004).	Value Set	QDM Data Elements	Annual Update
Value set ICU Admission or Transfer (2.16.840.1.113883.3.117.1.7.1.305): Removed ICU Admission or Transfer.	Value Set	QDM Data Elements	Annual Update
Value set Obstetrics VTE (2.16.840.1.113883.3.117.1.7.1.264): Added 4 ICD10CM codes (O03.85, O04.85, O08.7, O87.8) and deleted 1 ICD10CM code (O87.0). Deleted 2 SNOMEDCT codes (72044001, 88980002).	Value Set	QDM Data Elements	Annual Update
Value set Patient Refusal (2.16.840.1.113883.3.117.1.7.1.93): Deleted 2 SNOMEDCT codes (183956002, 385648002).	Value Set	QDM Data Elements	Annual Update
Value set Direct Thrombin Inhibitor (2.16.840.1.113883.3.117.1.7.1.205): Added 1 RXNORM code (1723476).	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update
Value set Obstetrics (2.16.840.1.113883.3.117.1.7.1.263): Deleted 4 SNOMEDCT codes (13010001, 1938002, 200117009, 88980002). Added 185 ICD10CM codes.	Value Set	QDM Data Elements	Annual Update
Value set Intensive Care Unit (2.16.840.1.113762.1.4.1110.23): Added Intensive Care Unit.	Value Set	QDM Data Elements	Annual Update
Replaced LOINC single code value sets with direct referenced codes. A direct referenced code is a single concept code that is used to describe a clinical element directly within the logic. The use of direct referenced codes replaces the need for single code value sets. Measures using other code systems in single value sets may optionally transition to direct referenced codes.	Value Set	QDM Data Elements	Standards Update
Value set Low Dose Unfractionated Heparin for VTE Prophylaxis (2.16.840.1.113762.1.4.1045.39): Added 1 RXNORM code (1798389).	Value Set	QDM Data Elements	2019 Addendum
Value set Oral Factor Xa Inhibitor for VTE Prophylaxis or VTE Treatment (2.16.840.1.113883.3.117.1.7.1.134): Added 2 RXNORM codes (1927856, 1927864).	Value Set	QDM Data Elements	2019 Addendum
Value set General Surgery (2.16.840.1.113883.3.117.1.7.1.255): Deleted 3 SNOMEDCT codes (287330000, 359604006, 359606008).	Value Set	QDM Data Elements	2019 Addendum
Value set Gynecological Surgery (2.16.840.1.113883.3.117.1.7.1.257): Deleted 10 SNOMEDCT codes (112917009, 14353000, 176909001, 27950001, 307263006, 307264000, 31545000, 4010009, 53139002, 59750000).	Value Set	QDM Data Elements	2019 Addendum
Value set Direct Thrombin Inhibitor (2.16.840.1.113883.3.117.1.7.1.205): Added 3 RXNORM codes (1798389, 1997015, 1997017).	Value Set	QDM Data Elements	2019 Addendum
Value set Hip Replacement Surgery (2.16.840.1.113883.3.117.1.7.1.259): Deleted 1 SNOMEDCT code (339905004).	Value Set	QDM Data Elements	2019 Addendum
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum
Value set Obstetrics (2.16.840.1.113883.3.117.1.7.1.263): Added 18 ICD10CM codes and deleted 1 ICD10CM code (O86.0). Deleted 21 SNOMEDCT codes.	Value Set	QDM Data Elements	2019 Addendum

CMS2v8 - Preventive Care and Screening: Screening for Depression and Follow-Up Plan

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Version Number.	Header	eMeasure Version number	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Updated Disclaimer.	Header	Disclaimer	Measure Lead
Updated rationale to include information from more current source.	Header	Rationale	Expert Work Group
Updated reference updated to include information from more current source.	Header	Reference	Expert Work Group
Added 'or assessment' to the definition of Follow-Up Plan to allow for use of additional assessment tools.	Header	Definition	JIRA (CQM-2194)
Updated the definitions section to add two standardized and validated screening tools to the example screening tool list.	Header	Definition	Expert Work Group
Added the statement 'Depression screening is required once per measurement period, not all encounters; this is patient based and not an encounter based measure' to clarify the assessment frequency.	Header	Guidance	Expert Work Group
Updated guidance related to standardized depression screening tools.	Header	Guidance	Expert Work Group
Added examples of a follow-up plan to the guidance section based on expert recommendations.	Header	Guidance	Expert Work Group
Replaced 'before the beginning of' with 'at the beginning of' to better align with CQL logic.	Header	Initial Population	Measure Lead
Updated logic expressed using CQL to address an encounter issue resulting in an unexpected exclusion of cases.	Logic	Denominator Exclusions	JIRA (CQM-2574)
Changed 'Procedure performed' to 'Intervention performed' to harmonize the representation of the data elements within other measures.	Logic	Numerator	JIRA (CQM-2752)
Revised logic for timing of follow-up interventions to better align with the measure intent.	Logic	Numerator	QDM Standards
Added supplemental timing attributes to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Replaced measure-defined definitions with similar definitions and functions from CQL shared libraries for consistency across measures.	Logic	Multiple Sections	Standards Update

CMS2v8 - Preventive Care and Screening: Screening for Depression and Follow-Up Plan

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update
Value set Additional evaluation for depression - adolescent (2.16.840.1.113883.3.600.1542): Deleted 1 SNOMEDCT code (428161000124109).	Value Set	QDM Data Elements	Annual Update
Value set Additional evaluation for depression - adult (2.16.840.1.113883.3.600.1545): Deleted 1 SNOMEDCT code (428151000124107).	Value Set	QDM Data Elements	Annual Update
Value set Depression Screening Encounter Codes (2.16.840.1.113883.3.600.1916): Added 25 CPT codes and deleted 5 HCPC codes (G0502, G0503, G0504, G0505, G0507).	Value Set	QDM Data Elements	Annual Update
Value set Follow-up for depression - adolescent (2.16.840.1.113883.3.600.467): Added 11 SNOMEDCT codes (108313002, 1555005, 15558000, 18512000, 229065009, 75516001, 76168009, 28868002, 304891004, 405780009, 81294000).	Value Set	QDM Data Elements	Annual Update
Value set Follow-up for depression - adult (2.16.840.1.113883.3.600.468): Added 11 SNOMEDCT codes (108313002, 1555005, 15558000, 18512000, 229065009, 75516001, 76168009, 28868002, 304891004, 405780009, 81294000).	Value Set	QDM Data Elements	Annual Update
Value set Suicide Risk Assessment (2.16.840.1.113883.3.600.559): Added 1 SNOMEDCT code (454331000124109).	Value Set	QDM Data Elements	Annual Update
Value set Depression medications - adult (2.16.840.1.113883.3.600.470): Deleted 3 RXNORM codes (730440, 730441, 730442).	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update
Replaced LOINC single code value sets with direct referenced codes. A direct referenced code is a single concept code that is used to describe a clinical element directly within the logic. The use of direct referenced codes replaces the need for single code value sets. Measures using other code systems in single value sets may optionally transition to direct referenced codes.	Value Set	QDM Data Elements	Standards Update
Value set Depression diagnosis (2.16.840.1.113883.3.600.145): Added 2 ICD10CM codes (F53.0, F53.1) and deleted 1 ICD10CM code (F53).	Value Set	QDM Data Elements	2019 Addendum
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum
Value set Depression medications - adult (2.16.840.1.113883.3.600.470): Deleted 1 RXNORM code (245373).	Value Set	QDM Data Elements	2019 Addendum

CMS22v7 - 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 Version Number.	Header	eMeasure Version number	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Updated Disclaimer.	Header	Disclaimer	Measure Lead
Replaced 'Before the beginning of' with 'at the beginning of' to align with CQL logic.	Header	Initial Population	Measure Lead
Additional timing attributes were added to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Cardinality was assigned to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Replaced measure-defined definitions with similar definitions and functions from CQL shared libraries for consistency across measures.	Logic	Multiple Sections	Standards Update
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update
Value set BP Screening Encounter Codes (2.16.840.1.113883.3.600.1920): Added 5 CPT codes (99236, 99315, 99316, 99339, 99340).	Value Set	QDM Data Elements	Annual Update
Value set Anti-Hypertensive Pharmacologic Therapy (2.16.840.1.113883.3.600.1476): Deleted 2 RXNORM codes (247516, 901446).	Value Set	QDM Data Elements	Annual Update
Finding of Hypertension (2.16.840.1.113883.3.600.2395): Removed Finding of Hypertension.	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update
Replaced LOINC single code value sets with direct referenced codes. A direct referenced code is a single concept code that is used to describe a clinical element directly within the logic. The use of direct referenced codes replaces the need for single code value sets. Measures using other code systems in single value sets may optionally transition to direct referenced codes.	Value Set	QDM Data Elements	Standards Update
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum

CMS22v7 - Preventive Care and Screening: Screening for High Blood Pressure and Follow-Up Documented

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Value set Anti-Hypertensive Pharmacologic Therapy (2.16.840.1.113883.3.600.1476): Deleted 6 RXNORM codes (1009220, 1009247, 1009315, 1009320, 197497, 310139).	Value Set	QDM Data Elements	2019 Addendum

CMS50v7 - Closing the Referral Loop: Receipt of Specialist Report

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Version Number.	Header	eMeasure Version number	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Added supplemental timing attributes to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Removed the 'Face-To-Face Interaction' data element and added relevant SNOMED codes to the Encounter Grouping value sets to better align between the SNOMED and CPT encounter codes.	Logic	Multiple Sections	Measure Lead
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update
Value set Referral (2.16.840.1.113883.3.464.1003.101.12.1046): Added 3 SNOMEDCT codes (103698003, 183583007, 390866009).	Value Set	QDM Data Elements	Annual Update
Value set Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1264) including 7 codes.	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update
Value set Face-to-Face Interaction (2.16.840.1.113883.3.464.1003.101.12.1048): Removed Face-to-Face Interaction.	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum

CMS52v7 - HIV/AIDS: Pneumocystis Jiroveci Pneumonia (PCP) Prophylaxis

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Version Number.	Header	eMeasure Version number	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Updated clinical recommendation statement to align with current recommendations.	Header	Clinical Recommendation Statement	Measure Lead
Updated header references to align with updated rationale and clinical recommendation statement.	Header	Reference	Measure Lead
Replaced 'Discharge status' attribute with 'Admission Source' and 'Discharge Disposition' attributes for 'Encounter, Performed' and 'Encounter, Active' datatypes to align with QDM 5.3 changes.	Logic	Denominator Exclusions	Standards Update
Added supplemental timing attributes to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Removed the 'Face-To-Face Interaction' data element and added relevant SNOMED codes to the Encounter Grouping value sets to better align between the SNOMED and CPT encounter codes.	Logic	Multiple Sections	Measure Lead
Replaced measure-defined definitions with similar definitions and functions from CQL shared libraries for consistency across measures.	Logic	Multiple Sections	Standards Update
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update
Value set Face-to-Face Interaction (2.16.840.1.113883.3.464.1003.101.12.1048): Removed Face-to-Face Interaction.	Value Set	QDM Data Elements	Annual Update
Value set HIV 1 (2.16.840.1.113883.3.464.1003.120.12.1004): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.120.11.1005) including 2 codes.	Value Set	QDM Data Elements	Annual Update
Value set Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1264) including 7 codes.	Value Set	QDM Data Elements	Annual Update
Value set Outpatient Consultation (2.16.840.1.113883.3.464.1003.101.12.1008): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1266) including 3 codes.	Value Set	QDM Data Elements	Annual Update

CMS52v7 - HIV/AIDS: Pneumocystis Jiroveci Pneumonia (PCP) Prophylaxis

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update
Replaced SNOMEDCT single code value sets with direct referenced codes. A direct referenced code is a single concept code that is used to describe a clinical element directly within the logic. The use of direct referenced codes replaces the need for single code value sets. Measures using other code systems in single value sets may optionally transition to direct referenced codes.	Value Set	QDM Data Elements	Standards Update
Replaced RXNORM single code value sets with direct referenced codes. A direct referenced code is a single concept code that is used to describe a clinical element directly within the logic. The use of direct referenced codes replaces the need for single code value sets. Measures using other code systems in single value sets may optionally transition to direct referenced codes.	Value Set	QDM Data Elements	Standards Update
Value set Pneumocystis Jiroveci Pneumonia (PCP) Prophylaxis (2.16.840.1.113883.3.464.1003.196.12.1076): Deleted 1 RXNORM code (198229).	Value Set	QDM Data Elements	2019 Addendum
Value set Leucovorin (2.16.840.1.113883.3.464.1003.196.12.1205): Added 1 RXNORM code (2003753).	Value Set	QDM Data Elements	2019 Addendum
Value set HIV 1 (2.16.840.1.113883.3.464.1003.120.12.1004): Added 58 SNOMEDCT codes.	Value Set	QDM Data Elements	2019 Addendum
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum

CMS56v7 - Functional Status Assessment for Total Hip Replacement

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Version Number.	Header	eMeasure Version number	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Updated measure header rationale to align with most recent literature.	Header	Rationale	Measure Lead
Added new reference to clinical recommendation statement to align with current recommendations.	Header	Clinical Recommendation Statement	Measure Lead
Updated the Initial Population age to 19 to better align with measure intent.	Header	Initial Population	Measure Lead
Revised the denominator exclusions statement to better align with the logic.	Header	Denominator Exclusions	Measure Lead
Updated the Denominator Exclusion statement for patients in hospice care to better align with the logic.	Header	Denominator Exclusions	JIRA (CQM-2815)
Revised the numerator description to better align with the logic.	Header	Numerator	Measure Lead
Updated the Initial Population age to 19 to better align with measure intent.	Logic	Initial Population	Measure Lead
Replaced 'Discharge status' attribute with 'Admission Source' and 'Discharge Disposition' attributes for 'Encounter, Performed' and 'Encounter, Active' datatypes to align with QDM 5.3 changes.	Logic	Denominator Exclusions	Standards Update
Revised the numerator logic to ensure the entire functional status assessment is completed to better align with the measure intent.	Logic	Numerator	Measure Lead
Added supplemental timing attributes to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Removed the 'Face-To-Face Interaction' data element and added relevant SNOMED codes to the Encounter Grouping value sets to better align between the SNOMED and CPT encounter codes.	Logic	Multiple Sections	Measure Lead
Replaced measure-defined definitions with similar definitions and functions from CQL shared libraries for consistency across measures.	Logic	Multiple Sections	Standards Update
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update

CMS56v7 - Functional Status Assessment for Total Hip Replacement

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Value set Hip Dysfunction and Osteoarthritis Outcome Score for Joint Replacement [HOOSJR] (2.16.840.1.113883.3.464.1003.118.12.1210): Added Hip Dysfunction and Osteoarthritis Outcome Score for Joint Replacement [HOOSJR].	Value Set	QDM Data Elements	Annual Update
Value set Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1264) including 7 codes.	Value Set	QDM Data Elements	Annual Update
Value set Outpatient Consultation (2.16.840.1.113883.3.464.1003.101.12.1008): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1266) including 3 codes.	Value Set	QDM Data Elements	Annual Update
Value set Fracture - Lower Body (2.16.840.1.113883.3.464.1003.113.12.1037): Added 41 ICD10CM codes and deleted 1835 ICD10CM codes.	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update
Value set PROMIS-10 Global Mental Health Score (2.16.840.1.113883.3.464.1003.118.12.1138): Added PROMIS-10 Global Mental Health Score.	Value Set	QDM Data Elements	Annual Update
Value set PROMIS-10 Global Physical Health Score (2.16.840.1.113883.3.464.1003.118.12.1139): Added PROMIS-10 Global Physical Health Score.	Value Set	QDM Data Elements	Annual Update
Value set VR-12 Mental Component T-Score (2.16.840.1.113883.3.464.1003.118.12.1177): Added VR-12 Mental Component T-Score.	Value Set	QDM Data Elements	Annual Update
Value set VR-12 Physical Component T-Score (2.16.840.1.113883.3.464.1003.118.12.1176): Added VR-12 Physical Component T-Score.	Value Set	QDM Data Elements	Annual Update
Value set Face-to-Face Interaction (2.16.840.1.113883.3.464.1003.101.12.1048): Removed Face-to-Face Interaction.	Value Set	QDM Data Elements	Annual Update
Value set Functional Status Assessment for Hip Replacement (2.16.840.1.113883.3.464.1003.118.12.1029): Removed Functional Status Assessment for Hip Replacement.	Value Set	QDM Data Elements	Annual Update
Replaced LOINC single code value sets with direct referenced codes. A direct referenced code is a single concept code that is used to describe a clinical element directly within the logic. The use of direct referenced codes replaces the need for single code value sets. Measures using other code systems in single value sets may optionally transition to direct referenced codes.	Value Set	QDM Data Elements	Standards Update
Replaced SNOMEDCT single code value sets with direct referenced codes. A direct referenced code is a single concept code that is used to describe a clinical element directly within the logic. The use of direct referenced codes replaces the need for single code value sets. Measures using other code systems in single value sets may optionally transition to direct referenced codes.	Value Set	QDM Data Elements	Standards Update
Replaced CPT single code value sets with direct referenced codes. A direct referenced code is a single concept code that is used to describe a clinical element directly within the logic. The use of direct referenced codes replaces the need for single code value sets. Measures using other code systems in single value sets may optionally transition to direct referenced codes.	Value Set	QDM Data Elements	Standards Update
Value set Fracture - Lower Body (2.16.840.1.113883.3.464.1003.113.12.1037): Added 1 SNOMEDCT code (735782008).	Value Set	QDM Data Elements	2019 Addendum
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum

CMS66v7 - Functional Status Assessment for Total Knee Replacement

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Version Number.	Header	eMeasure Version number	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Updated measure header rationale to align with most recent literature.	Header	Rationale	Measure Lead
Added new reference to clinical recommendation statement to align with current recommendations.	Header	Clinical Recommendation Statement	Measure Lead
Updated the Initial Population age to 19 to better align with measure intent.	Header	Initial Population	Measure Lead
Revised the denominator exclusions statement to better align with the logic.	Header	Denominator Exclusions	Measure Lead
Updated the Denominator Exclusion statement for patients in hospice care to better align with the logic.	Header	Denominator Exclusions	JIRA (CQM-2815)
Revised the numerator description to better align with the logic.	Header	Numerator	Measure Lead
Updated the Initial Population age to 19 to better align with measure intent.	Logic	Initial Population	Measure Lead
Replaced 'Discharge status' attribute with 'Admission Source' and 'Discharge Disposition' attributes for 'Encounter, Performed' and 'Encounter, Active' datatypes to align with QDM 5.3 changes.	Logic	Denominator Exclusions	Standards Update
Revised the numerator logic to ensure the entire functional status assessment is completed to better align with the measure intent.	Logic	Numerator	Measure Lead
Added supplemental timing attributes to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Removed the 'Face-To-Face Interaction' data element and added relevant SNOMED codes to the Encounter Grouping value sets to better align between the SNOMED and CPT encounter codes.	Logic	Multiple Sections	Measure Lead
Replaced measure-defined definitions with similar definitions and functions from CQL shared libraries for consistency across measures.	Logic	Multiple Sections	Standards Update
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update

CMS66v7 - Functional Status Assessment for Total Knee Replacement

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Value set Knee Dysfunction and Osteoarthritis Outcome Score [KOOS] Activities of Daily Living Score (2.16.840.1.113883.3.464.1003.118.12.1153): Added Knee Dysfunction and Osteoarthritis Outcome Score [KOOS] Activities of Daily Living Score.	Value Set	QDM Data Elements	Annual Update
Value set Knee Dysfunction and Osteoarthritis Outcome Score [KOOS] Pain Score (2.16.840.1.113883.3.464.1003.118.12.1180): Added Knee Dysfunction and Osteoarthritis Outcome Score [KOOS] Pain Score.	Value Set	QDM Data Elements	Annual Update
Value set Knee Dysfunction and Osteoarthritis Outcome Score [KOOS] Sport Recreation Score (2.16.840.1.113883.3.464.1003.118.12.1152): Added Knee Dysfunction and Osteoarthritis Outcome Score [KOOS] Sport Recreation Score.	Value Set	QDM Data Elements	Annual Update
Value set Knee Dysfunction and Osteoarthritis Outcome Score [KOOS] Symptoms Score (2.16.840.1.113883.3.464.1003.118.12.1182): Added Knee Dysfunction and Osteoarthritis Outcome Score [KOOS] Symptoms Score.	Value Set	QDM Data Elements	Annual Update
Value set Knee Injury and Osteoarthritis Outcome Score for Joint Replacement [KOOSJR] (2.16.840.1.113883.3.464.1003.118.12.1218): Added Knee Injury and Osteoarthritis Outcome Score for Joint Replacement [KOOSJR].	Value Set	QDM Data Elements	Annual Update
Value set Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1264) including 7 codes.	Value Set	QDM Data Elements	Annual Update
Value set Outpatient Consultation (2.16.840.1.113883.3.464.1003.101.12.1008): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1266) including 3 codes.	Value Set	QDM Data Elements	Annual Update
Value set Fracture - Lower Body (2.16.840.1.113883.3.464.1003.113.12.1037): Added 41 ICD10CM codes and deleted 1835 ICD10CM codes.	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update
Value set PROMIS-10 Global Mental Health Score (2.16.840.1.113883.3.464.1003.118.12.1138): Added PROMIS-10 Global Mental Health Score.	Value Set	QDM Data Elements	Annual Update
Value set PROMIS-10 Global Physical Health Score (2.16.840.1.113883.3.464.1003.118.12.1139): Added PROMIS-10 Global Physical Health Score.	Value Set	QDM Data Elements	Annual Update
Value set VR-12 Mental Component T-Score (2.16.840.1.113883.3.464.1003.118.12.1177): Added VR-12 Mental Component T-Score.	Value Set	QDM Data Elements	Annual Update
Value set VR-12 Physical Component T-Score (2.16.840.1.113883.3.464.1003.118.12.1176): Added VR-12 Physical Component T-Score.	Value Set	QDM Data Elements	Annual Update
Value set Face-to-Face Interaction (2.16.840.1.113883.3.464.1003.101.12.1048): Removed Face-to-Face Interaction.	Value Set	QDM Data Elements	Annual Update
Value set Functional Status Assessment for Knee Replacement (2.16.840.1.113883.3.464.1003.118.12.1030): Removed Functional Status Assessment for Knee Replacement.	Value Set	QDM Data Elements	Annual Update
Replaced LOINC single code value sets with direct referenced codes. A direct referenced code is a single concept code that is used to describe a clinical element directly within the logic. The use of direct referenced codes replaces the need for single code value sets. Measures using other code systems in single value sets may optionally transition to direct referenced codes.	Value Set	QDM Data Elements	Standards Update

CMS66v7 - Functional Status Assessment for Total Knee Replacement

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Replaced SNOMEDCT single code value sets with direct referenced codes. A direct referenced code is a single concept code that is used to describe a clinical element directly within the logic. The use of direct referenced codes replaces the need for single code value sets. Measures using other code systems in single value sets may optionally transition to direct referenced codes.	Value Set	QDM Data Elements	Standards Update
Replaced CPT single code value sets with direct referenced codes. A direct referenced code is a single concept code that is used to describe a clinical element directly within the logic. The use of direct referenced codes replaces the need for single code value sets. Measures using other code systems in single value sets may optionally transition to direct referenced codes.	Value Set	QDM Data Elements	Standards Update
Value set Fracture - Lower Body (2.16.840.1.113883.3.464.1003.113.12.1037): Added 1 SNOMEDCT code (735782008).	Value Set	QDM Data Elements	2019 Addendum
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum

CMS68v8 - Documentation of Current Medications in the Medical Record

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Version Number.	Header	eMeasure Version number	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Updated Disclaimer.	Header	Disclaimer	Measure Lead
Added information to rationale section based upon a reference that was added by recommendation of the measure expert work group.	Header	Rationale	Expert Work Group Review
Removed citation of reference because it is not included in the reference section.	Header	Rationale	Expert Work Group Review
Added information to rationale section based upon a reference that was added by recommendation of the measure expert work group.	Header	Reference	Expert Work Group Review
Added supplemental timing attributes to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Replaced measure-defined definitions with similar definitions and functions from CQL shared libraries for consistency across measures.	Logic	Multiple Sections	Standards Update
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update
Value set Medications Encounter Code Set (2.16.840.1.113883.3.600.1.1834): Added 14 CPT codes and deleted 1 CPT code (97532).	Value Set	QDM Data Elements	Annual Update
Replaced SNOMEDCT single code value sets with direct referenced codes. A direct referenced code is a single concept code that is used to describe a clinical element directly within the logic. The use of direct referenced codes replaces the need for single code value sets. Measures using other code systems in single value sets may optionally transition to direct referenced codes.	Value Set	QDM Data Elements	Standards Update
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum

CMS68v8 - Documentation of Current Medications in the Medical Record

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Value set Medications Encounter Code Set (2.16.840.1.113883.3.600.1.1834): Deleted 1 CPT code (99024). Added 1 HCPCS code (G0515).	Value Set	QDM Data Elements	2019 Addendum

CMS69v7 - Preventive Care and Screening: Body Mass Index (BMI) Screening and Follow-Up

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Version Number.	Header	eMeasure Version number	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Updated Disclaimer.	Header	Disclaimer	Measure Lead
Updated Rationale and References based on review of more recent literature.	Header	Rationale	Measure Lead
Updated Clinical Recommendation Statement based on most recent guidelines added to references.	Header	Clinical Recommendation Statement	Measure Lead
Updated Rationale and References based on review of more recent literature.	Header	Reference	Measure Lead
Revised RDN title based on expert workgroup recommendation and added language to align with revisions made to clinical recommendation statement.	Header	Definition	Expert Work Group Review
Updated to reflect addition of logic that allows for the use of medical reason exception for not obtaining a BMI result.	Header	Guidance	JIRA (CQM-2640)
Updated to reflect addition of logic that allows for the use of medical reason exception for not obtaining a BMI result.	Header	Denominator Exceptions	JIRA (CQM-2640)
Added medical reason exception for not obtaining a BMI result.	Logic	Denominator Exceptions	JIRA (CQM-2640)
Added supplemental timing attributes to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Replaced measure-defined definitions with similar definitions and functions from CQL shared libraries for consistency across measures.	Logic	Multiple Sections	Standards Update
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update
Value set BMI Encounter Code Set (2.16.840.1.113883.3.600.1.1751): Added 24 CPT codes. Added 1 HCPCS code (G0473).	Value Set	QDM Data Elements	Annual Update

CMS69v7 - Preventive Care and Screening: Body Mass Index (BMI) Screening and Follow-Up

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update
Replaced 'Overweight' (2.16.840.1.113883.3.600.2387) value set with new 'Overweight or Obese' grouping value set (2.16.840.1.113762.1.4.1047.502) that incorporates the 'Overweight' value set and includes seven additional ICD10CM codes. Change better aligns with measure intent.	Value Set	QDM Data Elements	JIRA (CQM-2793)
Replaced LOINC single code value sets with direct referenced codes. A direct referenced code is a single concept code that is used to describe a clinical element directly within the logic. The use of direct referenced codes replaces the need for single code value sets. Measures using other code systems in single value sets may optionally transition to direct referenced codes.	Value Set	QDM Data Elements	Standards Update
Value set Pregnancy Dx (2.16.840.1.113883.3.600.1.1623): Added 6 ICD10CM codes (O86.00, O86.01, O86.02, O86.03, O86.04, O86.09) and deleted 1 ICD10CM code (O86.0).	Value Set	QDM Data Elements	2019 Addendum
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum

CMS74v8 - Primary Caries Prevention Intervention as Offered by Primary Care Providers, including Dentists

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Version Number.	Header	eMeasure Version number	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Updated the Denominator Exclusion statement for patients in hospice care to better align with the logic.	Header	Denominator Exclusions	JIRA (CQM-2815)
Replaced 'Discharge status' attribute with 'Admission Source' and 'Discharge Disposition' attributes for 'Encounter, Performed' and 'Encounter, Active' datatypes to align with QDM 5.3 changes.	Logic	Denominator Exclusions	Standards Update
Added supplemental timing attributes to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Removed the 'Face-To-Face Interaction' data element and added relevant SNOMED codes to the Encounter Grouping value sets to better align between the SNOMED and CPT encounter codes.	Logic	Multiple Sections	Measure Lead
Replaced measure-defined definitions with similar definitions and functions from CQL shared libraries for consistency across measures.	Logic	Multiple Sections	Standards Update
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update
Value set Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1264) including 7 codes.	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update
Value set Face-to-Face Interaction (2.16.840.1.113883.3.464.1003.101.12.1048): Removed Face-to-Face Interaction.	Value Set	QDM Data Elements	Annual Update
Replaced SNOMEDCT single code value sets with direct referenced codes. A direct referenced code is a single concept code that is used to describe a clinical element directly within the logic. The use of direct referenced codes replaces the need for single code value sets. Measures using other code systems in single value sets may optionally transition to direct referenced codes.	Value Set	QDM Data Elements	Standards Update

CMS74v8 - Primary Caries Prevention Intervention as Offered by Primary Care Providers, including Dentists

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum

CMS75v7 - Children Who Have Dental Decay or Cavities

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Version Number.	Header	eMeasure Version number	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Updated measure header rationale to align with most recent literature.	Header	Rationale	Measure Lead
Updated header references to align with updated rationale and clinical recommendation statement.	Header	Reference	Measure Lead
Updated the Denominator Exclusion statement for patients in hospice care to better align with the logic.	Header	Denominator Exclusions	JIRA (CQM-2815)
Replaced 'Discharge status' attribute with 'Admission Source' and 'Discharge Disposition' attributes for 'Encounter, Performed' and 'Encounter, Active' datatypes to align with QDM 5.3 changes.	Logic	Denominator Exclusions	Standards Update
Added supplemental timing attributes to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Removed the 'Face-To-Face Interaction' data element and added relevant SNOMED codes to the Encounter Grouping value sets to better align between the SNOMED and CPT encounter codes.	Logic	Multiple Sections	Measure Lead
Replaced measure-defined definitions with similar definitions and functions from CQL shared libraries for consistency across measures.	Logic	Multiple Sections	Standards Update
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update
Value set Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1264) including 7 codes.	Value Set	QDM Data Elements	Annual Update
Value set Dental Caries (2.16.840.1.113883.3.464.1003.125.12.1004): Added 16 SNOMEDCT codes and deleted 1 SNOMEDCT code (80753001).	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update
Value set Face-to-Face Interaction (2.16.840.1.113883.3.464.1003.101.12.1048): Removed Face-to-Face Interaction.	Value Set	QDM Data Elements	Annual Update

CMS75v7 - Children Who Have Dental Decay or Cavities

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Replaced LOINC single code value sets with direct referenced codes. A direct referenced code is a single concept code that is used to describe a clinical element directly within the logic. The use of direct referenced codes replaces the need for single code value sets. Measures using other code systems in single value sets may optionally transition to direct referenced codes.	Value Set	QDM Data Elements	Standards Update
Replaced SNOMEDCT single code value sets with direct referenced codes. A direct referenced code is a single concept code that is used to describe a clinical element directly within the logic. The use of direct referenced codes replaces the need for single code value sets. Measures using other code systems in single value sets may optionally transition to direct referenced codes.	Value Set	QDM Data Elements	Standards Update
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum

CMS82v6 - Maternal Depression Screening

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Version Number.	Header	eMeasure Version number	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Updated measure header rationale to align with most recent literature.	Header	Rationale	Measure Lead
Updated clinical recommendation statement to align with current recommendations.	Header	Clinical Recommendation Statement	Measure Lead
Updated header references to align with updated rationale and clinical recommendation statement.	Header	Reference	Measure Lead
Updated the measure guidance to remove irrelevant language and clarify where to locate information for the measure.	Header	Guidance	Measure Lead
Replaced behavioral health visits with 0 to 17 month well child visits to more accurately capture the Initial Population based on the measure intent.	Logic	Initial Population	QDM Standards
Added supplemental timing attributes to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Removed the 'Face-To-Face Interaction' data element and added relevant SNOMED codes to the Encounter Grouping value sets to better align between the SNOMED and CPT encounter codes.	Logic	Multiple Sections	Measure Lead
Replaced measure-defined definitions with similar definitions and functions from CQL shared libraries for consistency across measures.	Logic	Multiple Sections	Standards Update
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update
Replaced SNOMEDCT single code value sets with direct referenced codes. A direct referenced code is a single concept code that is used to describe a clinical element directly within the logic. The use of direct referenced codes replaces the need for single code value sets. Measures using other code systems in single value sets may optionally transition to direct referenced codes.	Value Set	QDM Data Elements	Standards Update

CMS82v6 - Maternal Depression Screening

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Value set Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1264) including 7 codes.	Value Set	QDM Data Elements	Annual Update
Value set Preventive Care Services, Initial Office Visit, 0 to 17 (2.16.840.1.113883.3.464.1003.101.12.1022): Added Preventive Care Services, Initial Office Visit, 0 to 17.	Value Set	QDM Data Elements	Annual Update
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	QDM Data Elements	Annual Update
Value set BH Medical or psychiatric consultation (2.16.840.1.113883.3.1257.1.1652): Removed BH Medical or psychiatric consultation.	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update
Value set Face-to-Face Interaction (2.16.840.1.113883.3.464.1003.101.12.1048): Removed Face-to-Face Interaction.	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum

CMS90v8 - Functional Status Assessments for Congestive Heart Failure

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Version Number.	Header	eMeasure Version number	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Updated measure header rationale to align with most recent literature.	Header	Rationale	Measure Lead
Updated clinical recommendation statement to align with current recommendations.	Header	Clinical Recommendation Statement	Measure Lead
Removed cancer diagnosis denominator exclusion to align with an eCQM under development.	Header	Denominator Exclusions	Measure Lead
Revised the Denominator Exclusions statement for severe cognitive impairment timing to better align with measure logic and intent.	Header	Denominator Exclusions	Measure Lead
Updated the Denominator Exclusion statement for patients in hospice care to better align with the logic.	Header	Denominator Exclusions	JIRA (CQM-2815)
Replaced 'eg' with 'ie' in the numerator statement to indicate that the list is complete.	Header	Numerator	Measure Lead
Removed cancer diagnosis denominator exclusion to align with an eCQM under development.	Logic	Denominator Exclusions	Measure Lead
Replaced 'Discharge status' attribute with 'Admission Source' and 'Discharge Disposition' attributes for 'Encounter, Performed' and 'Encounter, Active' datatypes to align with QDM 5.3 changes.	Logic	Denominator Exclusions	Standards Update
Revised the numerator logic to ensure the entire functional status assessment is completed to better align with the measure intent.	Logic	Numerator	Measure Lead
Added supplemental timing attributes to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Removed the 'Face-To-Face Interaction' data element and added relevant SNOMED codes to the Encounter Grouping value sets to better align between the SNOMED and CPT encounter codes.	Logic	Multiple Sections	Measure Lead
Replaced measure-defined definitions with similar definitions and functions from CQL shared libraries for consistency across measures.	Logic	Multiple Sections	Standards Update
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update

CMS90v8 - Functional Status Assessments for Congestive Heart Failure

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Value set KCCQ Physical Limitation Score (2.16.840.1.113883.3.464.1003.118.12.1220): Added KCCQ Physical Limitation Score.	Value Set	QDM Data Elements	Annual Update
Value set KCCQ Self Efficacy Score (2.16.840.1.113883.3.464.1003.118.12.1221): Added KCCQ Self Efficacy Score.	Value Set	QDM Data Elements	Annual Update
Value set KCCQ Social Limitation Score (2.16.840.1.113883.3.464.1003.118.12.1222): Added KCCQ Social Limitation Score.	Value Set	QDM Data Elements	Annual Update
Value set KCCQ Total Symptom Score (2.16.840.1.113883.3.464.1003.118.12.1223): Added KCCQ Total Symptom Score.	Value Set	QDM Data Elements	Annual Update
Value set Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1264) including 7 codes.	Value Set	QDM Data Elements	Annual Update
Value set Heart Failure (2.16.840.1.113883.3.526.3.376): Deleted 2 SNOMEDCT codes (359620001, 77737007).	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update
Value set PROMIS-10 Global Mental Health Score (2.16.840.1.113883.3.464.1003.118.12.1138): Added PROMIS-10 Global Mental Health Score.	Value Set	QDM Data Elements	Annual Update
Value set PROMIS-10 Global Physical Health Score (2.16.840.1.113883.3.464.1003.118.12.1139): Added PROMIS-10 Global Physical Health Score.	Value Set	QDM Data Elements	Annual Update
Value set VR-12 Mental Component T-Score (2.16.840.1.113883.3.464.1003.118.12.1177): Added VR-12 Mental Component T-Score.	Value Set	QDM Data Elements	Annual Update
Value set VR-12 Physical Component T-Score (2.16.840.1.113883.3.464.1003.118.12.1176): Added VR-12 Physical Component T-Score.	Value Set	QDM Data Elements	Annual Update
Value set PROMIS 29 Anxiety Score (2.16.840.1.113883.3.464.1003.118.12.1216): Added PROMIS 29 Anxiety Score.	Value Set	QDM Data Elements	Annual Update
Value set PROMIS 29 Depression Score (2.16.840.1.113883.3.464.1003.118.12.1215): Added PROMIS 29 Depression Score.	Value Set	QDM Data Elements	Annual Update
Value set PROMIS 29 Fatigue Score (2.16.840.1.113883.3.464.1003.118.12.1214): Added PROMIS 29 Fatigue Score.	Value Set	QDM Data Elements	Annual Update
Value set PROMIS 29 Pain Interference Score (2.16.840.1.113883.3.464.1003.118.12.1213): Added PROMIS 29 Pain Interference Score.	Value Set	QDM Data Elements	Annual Update
Value set PROMIS 29 Physical Function Score (2.16.840.1.113883.3.464.1003.118.12.1212): Added PROMIS 29 Physical Function Score.	Value Set	QDM Data Elements	Annual Update
Value set PROMIS 29 Sleep Disturbance Score (2.16.840.1.113883.3.464.1003.118.12.1211): Added PROMIS 29 Sleep Disturbance Score.	Value Set	QDM Data Elements	Annual Update
Value set PROMIS 29 Social Roles Score (2.16.840.1.113883.3.464.1003.118.12.1217): Added PROMIS 29 Social Roles Score.	Value Set	QDM Data Elements	Annual Update
Value set VR-36 Mental Component Summary (MCS) Score (2.16.840.1.113883.3.464.1003.118.12.1225): Added VR-36 Mental Component Summary (MCS) Score.	Value Set	QDM Data Elements	Annual Update
Value set VR-36 Physical Component Summary (PCS) Score (2.16.840.1.113883.3.464.1003.118.12.1226): Added VR-36 Physical Component Summary (PCS) Score.	Value Set	QDM Data Elements	Annual Update
Value set All Cancer (2.16.840.1.113883.3.464.1003.108.12.1011): Removed All Cancer.	Value Set	QDM Data Elements	Annual Update

CMS90v8 - Functional Status Assessments for Congestive Heart Failure

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Value set Face-to-Face Interaction (2.16.840.1.113883.3.464.1003.101.12.1048): Removed Face-to-Face Interaction.	Value Set	QDM Data Elements	Annual Update
Value set Functional Status Assessment for Heart Failure (2.16.840.1.113883.3.464.1003.118.12.1031): Removed Functional Status Assessment for Heart Failure.	Value Set	QDM Data Elements	Annual Update
Replaced LOINC single code value sets with direct referenced codes. A direct referenced code is a single concept code that is used to describe a clinical element directly within the logic. The use of direct referenced codes replaces the need for single code value sets. Measures using other code systems in single value sets may optionally transition to direct referenced codes.	Value Set	QDM Data Elements	Standards Update
Replaced SNOMEDCT single code value sets with direct referenced codes. A direct referenced code is a single concept code that is used to describe a clinical element directly within the logic. The use of direct referenced codes replaces the need for single code value sets. Measures using other code systems in single value sets may optionally transition to direct referenced codes.	Value Set	QDM Data Elements	Standards Update
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum

CMS117v7 - Childhood Immunization Status

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Version Number.	Header	eMeasure Version number	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Updated measure header rationale to align with most recent literature.	Header	Rationale	Measure Lead
Updated clinical recommendation statement to align with current recommendations.	Header	Clinical Recommendation Statement	Measure Lead
Updated header references to align with updated rationale and clinical recommendation statement.	Header	Reference	Measure Lead
Corrected misspelling of organization name in header definition.	Header	Definition	Measure Lead
Updated the Denominator Exclusion statement for patients in hospice care to better align with the logic.	Header	Denominator Exclusions	JIRA (CQM-2815)
Replaced 'Discharge status' attribute with 'Admission Source' and 'Discharge Disposition' attributes for 'Encounter, Performed' and 'Encounter, Active' datatypes to align with QDM 5.3 changes.	Logic	Denominator Exclusions	Standards Update
Added supplemental timing attributes to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Removed the 'Face-To-Face Interaction' data element and added relevant SNOMED codes to the Encounter Grouping value sets to better align between the SNOMED and CPT encounter codes.	Logic	Multiple Sections	Measure Lead
Replaced measure-defined definitions with similar definitions and functions from CQL shared libraries for consistency across measures.	Logic	Multiple Sections	Standards Update
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update
Value set Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1264) including 7 codes.	Value Set	QDM Data Elements	Annual Update
Value set Home Healthcare Services (2.16.840.1.113883.3.464.1003.101.12.1016): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1265) including 11 codes.	Value Set	QDM Data Elements	Annual Update

CMS117v7 - Childhood Immunization Status

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Value set Influenza Vaccine Administered (2.16.840.1.113883.3.464.1003.110.12.1044): Added 2 CPT codes (90686, 90688).	Value Set	QDM Data Elements	Annual Update
Value set Hepatitis A Vaccine (2.16.840.1.113883.3.464.1003.196.12.1215): Added 1 CVX code (31).	Value Set	QDM Data Elements	Annual Update
Value set Hepatitis B (2.16.840.1.113883.3.464.1003.110.12.1025): Added 1 ICD10CM code (Z22.51).	Value Set	QDM Data Elements	Annual Update
Value set HIV (2.16.840.1.113883.3.464.1003.120.12.1003): Added 2 SNOMEDCT codes (733834006, 733835007).	Value Set	QDM Data Elements	Annual Update
Value set Malignant Neoplasm of Lymphatic and Hematopoietic Tissue (2.16.840.1.113883.3.464.1003.108.12.1009): Added 23 SNOMEDCT codes.	Value Set	QDM Data Elements	Annual Update
Value set DTaP Vaccine Administered (2.16.840.1.113883.3.464.1003.110.12.1022): Deleted 1 CPT code (90721).	Value Set	QDM Data Elements	Annual Update
Value set Haemophilus Influenzae Type B (HiB) Vaccine Administered (2.16.840.1.113883.3.464.1003.110.12.1043): Deleted 2 CPT codes (90645, 90646, 90721).	Value Set	QDM Data Elements	Annual Update
Value set Pneumococcal Conjugate Vaccine Administered (2.16.840.1.113883.3.464.1003.110.12.1046): Deleted 1 CPT code (90669).	Value Set	QDM Data Elements	Annual Update
Value set Disorders of the Immune System (2.16.840.1.113883.3.464.1003.120.12.1001): Added 26 SNOMEDCT codes and deleted 1 SNOMEDCT code (72050006).	Value Set	QDM Data Elements	Annual Update
Value set Severe Combined Immunodeficiency (2.16.840.1.113883.3.464.1003.120.12.1007): Added 5 SNOMEDCT codes (724177005, 724361001, 725135004, 725136003, 725290000).	Value Set	QDM Data Elements	Annual Update
Value set Influenza Vaccine (2.16.840.1.113883.3.464.1003.196.12.1218): Added 1 CVX code (150).	Value Set	QDM Data Elements	Annual Update
Value set Pneumococcal Conjugate Vaccine (2.16.840.1.113883.3.464.1003.196.12.1221): Added 1 CVX code (152).	Value Set	QDM Data Elements	Annual Update
Value set Rotavirus Vaccine (3 dose schedule) (2.16.840.1.113883.3.464.1003.196.12.1223): Added 1 CVX code (122).	Value Set	QDM Data Elements	Annual Update
Value set Face-to-Face Interaction (2.16.840.1.113883.3.464.1003.101.12.1048): Removed Face-to-Face Interaction.	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update
Replaced SNOMEDCT single code value sets with direct referenced codes. A direct referenced code is a single concept code that is used to describe a clinical element directly within the logic. The use of direct referenced codes replaces the need for single code value sets. Measures using other code systems in single value sets may optionally transition to direct referenced codes.	Value Set	QDM Data Elements	Standards Update
Replaced CPT single code value sets with direct referenced codes. A direct referenced code is a single concept code that is used to describe a clinical element directly within the logic. The use of direct referenced codes replaces the need for single code value sets. Measures using other code systems in single value sets may optionally transition to direct referenced codes.	Value Set	QDM Data Elements	Standards Update
Replaced CVX single code value sets with direct referenced codes. A direct referenced code is a single concept code that is used to describe a clinical element directly within the logic. The use of direct referenced codes replaces the need for single code value sets. Measures using other code systems in single value sets may optionally transition to direct referenced codes.	Value Set	QDM Data Elements	Standards Update
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum

CMS117v7 - Childhood Immunization Status

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Value set Rubella (2.16.840.1.113883.3.464.1003.110.12.1037): Added 3 SNOMEDCT codes (10759761000119100, 231985001, 51490003) and deleted 3 SNOMEDCT codes (1092351000119107, 111868009, 302811004).	Value Set	QDM Data Elements	2019 Addendum
Value set Hepatitis A Vaccine Administered (2.16.840.1.113883.3.464.1003.110.12.1041): Added 13 SNOMEDCT codes.	Value Set	QDM Data Elements	2019 Addendum
Value set Inactivated Polio Vaccine (IPV) Administered (2.16.840.1.113883.3.464.1003.110.12.1045): Added 1 SNOMEDCT code (412762002).	Value Set	QDM Data Elements	2019 Addendum
Value set Measles (2.16.840.1.113883.3.464.1003.110.12.1053): Deleted 2 SNOMEDCT codes (192685000, 233625007).	Value Set	QDM Data Elements	2019 Addendum
Value set Hepatitis B (2.16.840.1.113883.3.464.1003.110.12.1025): Added 1 SNOMEDCT code (153091000119109).	Value Set	QDM Data Elements	2019 Addendum
Value set DTaP Vaccine (2.16.840.1.113883.3.464.1003.196.12.1214): Added 1 CVX code (107).	Value Set	QDM Data Elements	2019 Addendum
Value set Malignant Neoplasm of Lymphatic and Hematopoietic Tissue (2.16.840.1.113883.3.464.1003.108.12.1009): Added 77 SNOMEDCT codes and deleted 45 SNOMEDCT codes. Deleted 35 ICD10CM codes.	Value Set	QDM Data Elements	2019 Addendum
Value set DTaP Vaccine Administered (2.16.840.1.113883.3.464.1003.110.12.1022): Added 2 SNOMEDCT codes (312870000, 399014008).	Value Set	QDM Data Elements	2019 Addendum
Value set Haemophilus Influenzae Type B (HiB) Vaccine Administered (2.16.840.1.113883.3.464.1003.110.12.1043): Added 1 SNOMEDCT code (312870000).	Value Set	QDM Data Elements	2019 Addendum
Value set Disorders of the Immune System (2.16.840.1.113883.3.464.1003.120.12.1001): Added 20 SNOMEDCT codes and deleted 225 SNOMEDCT codes.	Value Set	QDM Data Elements	2019 Addendum
Value set Intussusception (2.16.840.1.113883.3.464.1003.199.12.1056): Added 3 SNOMEDCT codes (38397000, 721651002, 721676001) and deleted 1 SNOMEDCT code (91446004).	Value Set	QDM Data Elements	2019 Addendum
Value set Pneumococcal Conjugate Vaccine (2.16.840.1.113883.3.464.1003.196.12.1221): Deleted 1 CVX code (100).	Value Set	QDM Data Elements	2019 Addendum
Value set Varicella Zoster (2.16.840.1.113883.3.464.1003.110.12.1039): Added 3 SNOMEDCT codes (12561000132105, 331071000119101, 402899000) and deleted 1 SNOMEDCT code (10491005).	Value Set	QDM Data Elements	2019 Addendum
Value set HIV (2.16.840.1.113883.3.464.1003.120.12.1003): Added 58 SNOMEDCT codes.	Value Set	QDM Data Elements	2019 Addendum

CMS122v7 - Diabetes: Hemoglobin A1c (HbA1c) Poor Control (> 9%)

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Version Number.	Header	eMeasure Version number	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Updated measure header rationale to align with most recent literature.	Header	Rationale	Measure Lead
Updated clinical recommendation statement to align with current recommendations.	Header	Clinical Recommendation Statement	Measure Lead
Updated header references to align with updated rationale and clinical recommendation statement.	Header	Reference	Measure Lead
Updated the Denominator Exclusion statement for patients in hospice care to better align with the logic.	Header	Denominator Exclusions	JIRA (CQM-2815)
Replaced 'Discharge status' attribute with 'Admission Source' and 'Discharge Disposition' attributes for 'Encounter, Performed' and 'Encounter, Active' datatypes to align with QDM 5.3 changes.	Logic	Denominator Exclusions	Standards Update
Added supplemental timing attributes to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Removed the 'Face-To-Face Interaction' data element and added relevant SNOMED codes to the Encounter Grouping value sets to better align between the SNOMED and CPT encounter codes.	Logic	Multiple Sections	Measure Lead
Replaced measure-defined definitions with similar definitions and functions from CQL shared libraries for consistency across measures.	Logic	Multiple Sections	Standards Update
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update
Value set Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1264) including 7 codes.	Value Set	QDM Data Elements	Annual Update
Value set Home Healthcare Services (2.16.840.1.113883.3.464.1003.101.12.1016): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1265) including 11 codes.	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update

CMS122v7 - Diabetes: Hemoglobin A1c (HbA1c) Poor Control (> 9%)

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Value set Diabetes (2.16.840.1.113883.3.464.1003.103.12.1001): Deleted 17 SNOMEDCT codes.	Value Set	QDM Data Elements	Annual Update
Value set Face-to-Face Interaction (2.16.840.1.113883.3.464.1003.101.12.1048): Removed Face-to-Face Interaction.	Value Set	QDM Data Elements	Annual Update
Replaced SNOMEDCT single code value sets with direct referenced codes. A direct referenced code is a single concept code that is used to describe a clinical element directly within the logic. The use of direct referenced codes replaces the need for single code value sets. Measures using other code systems in single value sets may optionally transition to direct referenced codes.	Value Set	QDM Data Elements	Standards Update
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum
Value set Diabetes (2.16.840.1.113883.3.464.1003.103.12.1001): Added 36 SNOMEDCT codes.	Value Set	QDM Data Elements	2019 Addendum

CMS124v7 - Cervical Cancer Screening

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Version Number.	Header	eMeasure Version number	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Updated measure header rationale to align with most recent literature.	Header	Rationale	Measure Lead
Updated header references to align with updated rationale and clinical recommendation statement.	Header	Reference	Measure Lead
Updated the measure guidance to remove irrelevant language and clarify where to locate information for the measure.	Header	Guidance	Measure Lead
Updated the Denominator Exclusion statement for patients in hospice care to better align with the logic.	Header	Denominator Exclusions	JIRA (CQM-2815)
Added exclusion for congenital absence of cervix to better align with intent of measure.	Logic	Denominator Exclusions	JIRA (CQM-2735)
Replaced 'Discharge status' attribute with 'Admission Source' and 'Discharge Disposition' attributes for 'Encounter, Performed' and 'Encounter, Active' datatypes to align with QDM 5.3 changes.	Logic	Denominator Exclusions	Standards Update
Added supplemental timing attributes to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Removed the 'Face-To-Face Interaction' data element and added relevant SNOMED codes to the Encounter Grouping value sets to better align between the SNOMED and CPT encounter codes.	Logic	Multiple Sections	Measure Lead
Replaced measure-defined definitions with similar definitions and functions from CQL shared libraries for consistency across measures.	Logic	Multiple Sections	Standards Update
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update
Value set Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1264) including 7 codes.	Value Set	QDM Data Elements	Annual Update
Value set Home Healthcare Services (2.16.840.1.113883.3.464.1003.101.12.1016): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1265) including 11 codes.	Value Set	QDM Data Elements	Annual Update

CMS124v7 - Cervical Cancer Screening

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Value set Hysterectomy with No Residual Cervix (2.16.840.1.113883.3.464.1003.198.12.1014): Added 1 CPT code (56308).	Value Set	QDM Data Elements	Annual Update
Value set HPV Test (2.16.840.1.113883.3.464.1003.110.12.1059): Added 3 LOINC codes (82354-2, 82456-5, 82675-0).	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update
Value set Face-to-Face Interaction (2.16.840.1.113883.3.464.1003.101.12.1048): Removed Face-to-Face Interaction.	Value Set	QDM Data Elements	Annual Update
Replaced SNOMEDCT single code value sets with direct referenced codes. A direct referenced code is a single concept code that is used to describe a clinical element directly within the logic. The use of direct referenced codes replaces the need for single code value sets. Measures using other code systems in single value sets may optionally transition to direct referenced codes.	Value Set	QDM Data Elements	Standards Update
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum

CMS125v7 - Breast Cancer Screening

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Version Number.	Header	eMeasure Version number	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Updated measure header rationale to align with most recent literature.	Header	Rationale	Measure Lead
Updated clinical recommendation statement to align with current recommendations.	Header	Clinical Recommendation Statement	Measure Lead
Updated header references to align with updated rationale and clinical recommendation statement.	Header	Reference	Measure Lead
Updated the measure guidance to remove irrelevant language and clarify where to locate information for the measure.	Header	Guidance	Measure Lead
Updated the Denominator Exclusion statement for patients in hospice care to better align with the logic.	Header	Denominator Exclusions	JIRA (CQM-2815)
Replaced 'Discharge status' attribute with 'Admission Source' and 'Discharge Disposition' attributes for 'Encounter, Performed' and 'Encounter, Active' datatypes to align with QDM 5.3 changes.	Logic	Denominator Exclusions	Standards Update
Added supplemental timing attributes to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Removed the 'Face-To-Face Interaction' data element and added relevant SNOMED codes to the Encounter Grouping value sets to better align between the SNOMED and CPT encounter codes.	Logic	Multiple Sections	Measure Lead
Replaced measure-defined definitions with similar definitions and functions from CQL shared libraries for consistency across measures.	Logic	Multiple Sections	Standards Update
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update
Value set Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1264) including 7 codes.	Value Set	QDM Data Elements	Annual Update
Value set Home Healthcare Services (2.16.840.1.113883.3.464.1003.101.12.1016): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1265) including 11 codes.	Value Set	QDM Data Elements	Annual Update

CMS125v7 - Breast Cancer Screening

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Value set Bilateral Mastectomy (2.16.840.1.113883.3.464.1003.198.12.1005): Added 1 SNOMEDCT code (726636007).	Value Set	QDM Data Elements	Annual Update
Value set Unilateral Mastectomy (2.16.840.1.113883.3.464.1003.198.12.1020): Added 6 SNOMEDCT codes (726429001, 726430006, 726434002, 726435001, 726436000, 726437009).	Value Set	QDM Data Elements	Annual Update
Value set Status Post Left Mastectomy (2.16.840.1.113883.3.464.1003.198.12.1069): Added 1 SNOMEDCT code (137671000119105).	Value Set	QDM Data Elements	Annual Update
Value set Status Post Right Mastectomy (2.16.840.1.113883.3.464.1003.198.12.1070): Added 1 SNOMEDCT code (137681000119108).	Value Set	QDM Data Elements	Annual Update
Value set History of bilateral mastectomy (2.16.840.1.113883.3.464.1003.198.12.1068): Added 1 SNOMEDCT code (136071000119101).	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update
Value set Face-to-Face Interaction (2.16.840.1.113883.3.464.1003.101.12.1048): Removed Face-to-Face Interaction.	Value Set	QDM Data Elements	Annual Update
Replaced SNOMEDCT single code value sets with direct referenced codes. A direct referenced code is a single concept code that is used to describe a clinical element directly within the logic. The use of direct referenced codes replaces the need for single code value sets. Measures using other code systems in single value sets may optionally transition to direct referenced codes.	Value Set	QDM Data Elements	Standards Update
Value set Unilateral Mastectomy (2.16.840.1.113883.3.464.1003.198.12.1020): Added 11 SNOMEDCT codes (12275171000119105, 12275221000119100, 237385002, 237388000, 303690008, 307995002, 33129002, 451201000124106, 451211000124109, 714111001, 714252004).	Value Set	QDM Data Elements	2019 Addendum
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum
Value set Mammography (2.16.840.1.113883.3.464.1003.108.12.1018): Added 8 LOINC codes (72137-3, 72138-1, 72139-9, 72140-7, 72141-5, 72142-3, 86462-9, 86463-7).	Value Set	QDM Data Elements	2019 Addendum

CMS127v7 - Pneumococcal Vaccination Status for Older Adults

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Version Number.	Header	eMeasure Version number	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Updated the guidance to clarify where to record patient self-reported information to better align with similar measures.	Header	Guidance	Measure Lead
Updated the Denominator Exclusion statement for patients in hospice care to better align with the logic.	Header	Denominator Exclusions	JIRA (CQM-2815)
Replaced 'Discharge status' attribute with 'Admission Source' and 'Discharge Disposition' attributes for 'Encounter, Performed' and 'Encounter, Active' datatypes to align with QDM 5.3 changes.	Logic	Denominator Exclusions	Standards Update
Revised logic to match the updated guidance regarding where to record patient self-reported information to better align with similar measures.	Logic	Numerator	Measure Lead
Added supplemental timing attributes to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Removed the 'Face-To-Face Interaction' data element and added relevant SNOMED codes to the Encounter Grouping value sets to better align between the SNOMED and CPT encounter codes.	Logic	Multiple Sections	Measure Lead
Replaced measure-defined definitions with similar definitions and functions from CQL shared libraries for consistency across measures.	Logic	Multiple Sections	Standards Update
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update
Value set Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1264) including 7 codes.	Value Set	QDM Data Elements	Annual Update
Value set Home Healthcare Services (2.16.840.1.113883.3.464.1003.101.12.1016): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1265) including 11 codes.	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update

CMS127v7 - Pneumococcal Vaccination Status for Older Adults

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Value set Discharge Services - Nursing Facility (2.16.840.1.113883.3.464.1003.101.12.1013): Added Discharge Services - Nursing Facility.	Value Set	QDM Data Elements	Annual Update
Value set Care Services in Long-Term Residential Facility (2.16.840.1.113883.3.464.1003.101.12.1014): Added Care Services in Long-Term Residential Facility.	Value Set	QDM Data Elements	Annual Update
Value set Nursing Facility Visit (2.16.840.1.113883.3.464.1003.101.12.1012): Added Nursing Facility Visit.	Value Set	QDM Data Elements	Annual Update
Value set History of Pneumococcal Vaccine (2.16.840.1.113883.3.464.1003.110.12.1028): Removed History of Pneumococcal Vaccine.	Value Set	QDM Data Elements	Annual Update
Value set Face-to-Face Interaction (2.16.840.1.113883.3.464.1003.101.12.1048): Removed Face-to-Face Interaction.	Value Set	QDM Data Elements	Annual Update
Replaced SNOMEDCT single code value sets with direct referenced codes. A direct referenced code is a single concept code that is used to describe a clinical element directly within the logic. The use of direct referenced codes replaces the need for single code value sets. Measures using other code systems in single value sets may optionally transition to direct referenced codes.	Value Set	QDM Data Elements	Standards Update
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum
Value set Pneumococcal Vaccine Administered (2.16.840.1.113883.3.464.1003.110.12.1034): Deleted 1 CPT code (90732).	Value Set	QDM Data Elements	2019 Addendum

CMS128v7 - Anti-depressant Medication Management

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Version Number.	Header	eMeasure Version number	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Updated the Denominator Exclusion statement for patients in hospice care to better align with the logic.	Header	Denominator Exclusions	JIRA (CQM-2815)
Added telephone evaluation and management values sets as qualifying encounters to Initial Population to better align with measure intent.	Logic	Initial Population	Measure Lead
Replaced 'Discharge status' attribute with 'Admission Source' and 'Discharge Disposition' attributes for 'Encounter, Performed' and 'Encounter, Active' datatypes to align with QDM 5.3 changes.	Logic	Denominator Exclusions	Standards Update
Removed 'Cumulative Medication Duration' datatype to conform with QDM 5.3 changes. The concept of cumulative medication duration can now be expressed using CQL logic.	Logic	Numerator	Standards Update
Added supplemental timing attributes to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Removed the 'Face-To-Face Interaction' data element and added relevant SNOMED codes to the Encounter Grouping value sets to better align between the SNOMED and CPT encounter codes.	Logic	Multiple Sections	Measure Lead
Replaced measure-defined definitions with similar definitions and functions from CQL shared libraries for consistency across measures.	Logic	Multiple Sections	Standards Update
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update
Value set Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1264) including 7 codes.	Value Set	QDM Data Elements	Annual Update
Value set Home Healthcare Services (2.16.840.1.113883.3.464.1003.101.12.1016): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1265) including 11 codes.	Value Set	QDM Data Elements	Annual Update
Value set Antidepressant Medication (2.16.840.1.113883.3.464.1003.196.12.1213): Deleted 4 RXNORM codes (730440, 730441, 730442, 245373).	Value Set	QDM Data Elements	Annual Update

CMS128v7 - Anti-depressant Medication Management

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update
Value set Major Depression (2.16.840.1.113883.3.464.1003.105.12.1007): Added 4 SNOMEDCT codes (16265951000119109, 16266831000119100, 16266991000119108, 726772006).	Value Set	QDM Data Elements	Annual Update
Value set Telephone Evaluation (2.16.840.1.113883.3.464.1003.101.12.1082): Added Telephone Evaluation.	Value Set	QDM Data Elements	Annual Update
Value set Telephone Management (2.16.840.1.113883.3.464.1003.101.12.1053): Added Telephone Management.	Value Set	QDM Data Elements	Annual Update
Value set Face-to-Face Interaction (2.16.840.1.113883.3.464.1003.101.12.1048): Removed Face-to-Face Interaction.	Value Set	QDM Data Elements	Annual Update
Replaced SNOMEDCT single code value sets with direct referenced codes. A direct referenced code is a single concept code that is used to describe a clinical element directly within the logic. The use of direct referenced codes replaces the need for single code value sets. Measures using other code systems in single value sets may optionally transition to direct referenced codes.	Value Set	QDM Data Elements	Standards Update
Value set Antidepressant Medication (2.16.840.1.113883.3.464.1003.196.12.1213): Added 4 RXNORM codes (251200, 794947, 1874553, 1874559) and deleted 35 RXNORM codes.	Value Set	QDM Data Elements	2019 Addendum
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum
Value set Major Depression (2.16.840.1.113883.3.464.1003.105.12.1007): Added 2 SNOMEDCT codes (10811121000119102, 10811161000119107).	Value Set	QDM Data Elements	2019 Addendum

CMS129v8 - 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 Version Number.	Header	eMeasure Version number	Measure Lead
Added definition for bone scan to further clarify the intent of the data element per clinical experts' recommendation.	Header	Definition	Expert Work Group Review
Updated risk strata definitions to align with guidelines.	Header	Definition	Expert Work Group Review
Updated Copyright.	Header	Copyright	Annual Update
Updated Disclaimer.	Header	Disclaimer	Measure Lead
Updated Clinical Recommendation Statement.	Header	Clinical Recommendation Statement	Measure Lead
Updated Reference.	Header	Reference	Measure Lead
Replaced LOINC single code value sets with direct referenced codes. A direct referenced code is a single concept code that is used to describe a clinical element directly within the logic. The use of direct referenced codes replaces the need for single code value sets. Measures using other code systems in single value sets may optionally transition to direct referenced codes.	Logic	Denominator	Standards Update
Replaced SNOMEDCT single code value sets with direct referenced codes. A direct referenced code is a single concept code that is used to describe a clinical element directly within the logic. The use of direct referenced codes replaces the need for single code value sets. Measures using other code systems in single value sets may optionally transition to direct referenced codes.	Logic	Denominator	Standards Update
Added supplemental timing attributes to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update
Value set Bone Scan (2.16.840.1.113883.3.526.3.320): Added 2 LOINC codes (81551-4, 81552-2).	Value Set	QDM Data Elements	Annual Update

CMS129v8 - 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
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update
Replaced LOINC single code value sets with direct referenced codes. A direct referenced code is a single concept code that is used to describe a clinical element directly within the logic. The use of direct referenced codes replaces the need for single code value sets. Measures using other code systems in single value sets may optionally transition to direct referenced codes.	Value Set	QDM Data Elements	Standards Update
Removed following single code value sets: Gleason Score (2.16.840.1.113883.3.526.3.397), Prostate Cancer Primary Tumor Size T1a (2.16.840.1.113883.3.526.3.1534), Prostate Cancer Primary Tumor Size T1b (2.16.840.1.113883.3.526.3.1535), Prostate Cancer Primary Tumor Size T1c (2.16.840.1.113883.3.526.3.1325), Prostate Cancer Primary Tumor Size T2a (2.16.840.1.113883.3.526.3.1326), Reason Documented (2.16.840.1.113883.3.526.3.1494).	Value Set	QDM Data Elements	Annual Update
Replaced SNOMEDCT single code value sets with direct referenced codes. A direct referenced code is a single concept code that is used to describe a clinical element directly within the logic. The use of direct referenced codes replaces the need for single code value sets. Measures using other code systems in single value sets may optionally transition to direct referenced codes.	Value Set	QDM Data Elements	Standards Update
Value set Bone Scan (2.16.840.1.113883.3.526.3.320): Deleted 4 LOINC codes (39814-9, 39815-6, 39817-2, 39903-0).	Value Set	QDM Data Elements	2019 Addendum
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum

CMS130v7 - Colorectal Cancer Screening

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Version Number.	Header	eMeasure Version number	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Updated measure header rationale to align with most recent literature.	Header	Rationale	Measure Lead
Updated clinical recommendation statement to align with current recommendations.	Header	Clinical Recommendation Statement	Measure Lead
Updated header references to align with updated rationale and clinical recommendation statement.	Header	Reference	Measure Lead
Updated guidance to indicate a digital rectal exam does not meet numerator criteria to better align with measure intent.	Header	Guidance	Measure Lead
Updated the measure guidance to remove irrelevant language and clarify where to locate information for the measure.	Header	Guidance	Measure Lead
Updated the Denominator Exclusion statement for patients in hospice care to better align with the logic.	Header	Denominator Exclusions	JIRA (CQM-2815)
Replaced 'Discharge status' attribute with 'Admission Source' and 'Discharge Disposition' attributes for 'Encounter, Performed' and 'Encounter, Active' datatypes to align with QDM 5.3 changes.	Logic	Denominator Exclusions	Standards Update
Added supplemental timing attributes to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Removed the 'Face-To-Face Interaction' data element and added relevant SNOMED codes to the Encounter Grouping value sets to better align between the SNOMED and CPT encounter codes.	Logic	Multiple Sections	Measure Lead
Replaced measure-defined definitions with similar definitions and functions from CQL shared libraries for consistency across measures.	Logic	Multiple Sections	Standards Update
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update
Value set Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1264) including 7 codes.	Value Set	QDM Data Elements	Annual Update

CMS130v7 - Colorectal Cancer Screening

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Value set Home Healthcare Services (2.16.840.1.113883.3.464.1003.101.12.1016): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1265) including 11 codes.	Value Set	QDM Data Elements	Annual Update
Value set Malignant Neoplasm of Colon (2.16.840.1.113883.3.464.1003.108.12.1001): Deleted 5 SNOMEDCT codes (123701000119104, 123721000119108, 130381000119103, 721697000, 721698005). Deleted 6 ICD10CM codes (C7A.021, C7A.022, C7A.023, C7A.024, C7A.025, C7A.026).	Value Set	QDM Data Elements	Annual Update
Value set Total Colectomy (2.16.840.1.113883.3.464.1003.198.12.1019): Deleted 1 SNOMEDCT code (235331003).	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update
Value set CT Colonography (2.16.840.1.113883.3.464.1003.108.12.1038): Added 2 CPT codes (74261, 74262).	Value Set	QDM Data Elements	Annual Update
Value set Face-to-Face Interaction (2.16.840.1.113883.3.464.1003.101.12.1048): Removed Face-to-Face Interaction.	Value Set	QDM Data Elements	Annual Update
Replaced SNOMEDCT single code value sets with direct referenced codes. A direct referenced code is a single concept code that is used to describe a clinical element directly within the logic. The use of direct referenced codes replaces the need for single code value sets. Measures using other code systems in single value sets may optionally transition to direct referenced codes.	Value Set	QDM Data Elements	Standards Update
Value set Malignant Neoplasm of Colon (2.16.840.1.113883.3.464.1003.108.12.1001): Added 1 SNOMEDCT code (737058005).	Value Set	QDM Data Elements	2019 Addendum
Value set Colonoscopy (2.16.840.1.113883.3.464.1003.108.12.1020): Added 7 SNOMEDCT codes (425672002, 425937002, 709421007, 710293001, 711307001, 713154003, 851000119109) and deleted 2 SNOMEDCT codes (174184006, 303587008).	Value Set	QDM Data Elements	2019 Addendum
Value set Flexible Sigmoidoscopy (2.16.840.1.113883.3.464.1003.198.12.1010): Deleted 1 SNOMEDCT code (112870002).	Value Set	QDM Data Elements	2019 Addendum
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum

CMS131v7 - Diabetes: Eye Exam

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Version Number.	Header	eMeasure Version number	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Updated measure header rationale to align with most recent literature.	Header	Rationale	Measure Lead
Updated clinical recommendation statement to align with current recommendations.	Header	Clinical Recommendation Statement	Measure Lead
Updated header references to align with updated rationale and clinical recommendation statement.	Header	Reference	Measure Lead
Updated the Denominator Exclusion statement for patients in hospice care to better align with the logic.	Header	Denominator Exclusions	JIRA (CQM-2815)
Replaced 'Discharge status' attribute with 'Admission Source' and 'Discharge Disposition' attributes for 'Encounter, Performed' and 'Encounter, Active' datatypes to align with QDM 5.3 changes.	Logic	Denominator Exclusions	Standards Update
Added supplemental timing attributes to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Removed the 'Face-To-Face Interaction' data element and added relevant SNOMED codes to the Encounter Grouping value sets to better align between the SNOMED and CPT encounter codes.	Logic	Multiple Sections	Measure Lead
Replaced measure-defined definitions with similar definitions and functions from CQL shared libraries for consistency across measures.	Logic	Multiple Sections	Standards Update
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update
Value set Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1264) including 7 codes.	Value Set	QDM Data Elements	Annual Update
Value set Home Healthcare Services (2.16.840.1.113883.3.464.1003.101.12.1016): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1265) including 11 codes.	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update

CMS131v7 - Diabetes: Eye Exam

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Value set Diabetes (2.16.840.1.113883.3.464.1003.103.12.1001): Deleted 17 SNOMEDCT codes.	Value Set	QDM Data Elements	Annual Update
Value set Face-to-Face Interaction (2.16.840.1.113883.3.464.1003.101.12.1048): Removed Face-to-Face Interaction.	Value Set	QDM Data Elements	Annual Update
Replaced SNOMEDCT single code value sets with direct referenced codes. A direct referenced code is a single concept code that is used to describe a clinical element directly within the logic. The use of direct referenced codes replaces the need for single code value sets. Measures using other code systems in single value sets may optionally transition to direct referenced codes.	Value Set	QDM Data Elements	Standards Update
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum
Value set Diabetes (2.16.840.1.113883.3.464.1003.103.12.1001): Added 36 SNOMEDCT codes.	Value Set	QDM Data Elements	2019 Addendum

CMS132v7 - Cataracts: Complications within 30 Days Following Cataract Surgery Requiring Additional Surgical Procedures

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Version Number.	Header	eMeasure Version number	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Updated Disclaimer.	Header	Disclaimer	Measure Lead
Updated Rationale.	Header	Rationale	Measure Lead
Updated References.	Header	Reference	Measure Lead
Replaced 'Senile Cataract' exclusion with 'Morgagnian Cataract' to align with clinical experts' recommendation.	Logic	Denominator Exclusions	Measure Lead
Added supplemental timing attributes to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Replaced measure-defined definitions with similar definitions and functions from CQL shared libraries for consistency across measures.	Logic	Multiple Sections	Standards Update
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update
Value set Acute and Subacute Iridocyclitis (2.16.840.1.113883.3.526.3.1241): Deleted 5 ICD10CM codes (H20.019, H20.029, H20.039, H20.049, H20.059).	Value Set	QDM Data Elements	Annual Update
Value set Adhesions and Disruptions of Iris and Ciliary Body (2.16.840.1.113883.3.526.3.1405): Deleted 11 ICD10CM codes (H21.40, H21.501, H21.502, H21.503, H21.509, H21.519, H21.529, H21.539, H21.549, H21.559, H21.569).	Value Set	QDM Data Elements	Annual Update
Value set Aphakia and Other Disorders of Lens (2.16.840.1.113883.3.526.3.1407): Deleted 3 ICD10CM codes (H27.119, H27.129, H27.139).	Value Set	QDM Data Elements	Annual Update
Value set Burn Confined to Eye and Adnexa (2.16.840.1.113883.3.526.3.1409): Deleted 10 ICD10CM codes (T26.00XA, T26.10XA, T26.20XA, T26.30XA, T26.40XA, T26.50XA, T26.60XA, T26.70XA, T26.80XA, T26.90XA).	Value Set	QDM Data Elements	Annual Update

CMS132v7 - Cataracts: Complications within 30 Days Following Cataract Surgery Requiring Additional Surgical Procedures

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Value set Cataract Secondary to Ocular Disorders (2.16.840.1.113883.3.526.3.1410): Deleted 2 ICD10CM codes (H26.219, H26.229). Added 2 SNOMEDCT codes (15738161000119104, 15738201000119109).	Value Set	QDM Data Elements	Annual Update
Value set Certain Types of Iridocyclitis (2.16.840.1.113883.3.526.3.1415): Deleted 4 ICD10CM codes (H20.20, H20.819, H20.829, H40.40X0).	Value Set	QDM Data Elements	Annual Update
Value set Chronic Iridocyclitis (2.16.840.1.113883.3.526.3.1416): Deleted 1 ICD10CM code (H20.10). Added 1 SNOMEDCT code (6869001).	Value Set	QDM Data Elements	Annual Update
Value set Cloudy Cornea (2.16.840.1.113883.3.526.3.1417): Deleted 4 ICD10CM codes (H17.00, H17.10, H17.819, H17.829).	Value Set	QDM Data Elements	Annual Update
Value set Corneal Edema (2.16.840.1.113883.3.526.3.1418): Deleted 4 ICD10CM codes (H18.10, H18.229, H18.239, H18.429). Added 7 SNOMEDCT codes (15736081000119108, 15736161000119100, 15736201000119105, 15736241000119107, 15736281000119102, 373428006, 373430008).	Value Set	QDM Data Elements	Annual Update
Value set Corneal Opacity and Other Disorders of Cornea (2.16.840.1.113883.3.526.3.1419): Deleted 2 ICD10CM codes (H17.00, H17.10).	Value Set	QDM Data Elements	Annual Update
Value set Cysts of Iris, Ciliary Body, and Anterior Chamber (2.16.840.1.113883.3.526.3.1420): Deleted 6 ICD10CM codes (H21.309, H21.319, H21.329, H21.339, H21.349, H21.359). Added 3 SNOMEDCT codes (400958004, 400959007, 95251001).	Value Set	QDM Data Elements	Annual Update
Value set Enophthalmos (2.16.840.1.113883.3.526.3.1421): Deleted 3 ICD10CM codes (H05.409, H05.419, H05.429). Added 1 SNOMEDCT code (112761000119101).	Value Set	QDM Data Elements	Annual Update
Value set Hereditary Corneal Dystrophies (2.16.840.1.113883.3.526.3.1424): Deleted 2 SNOMEDCT codes (231936006, 32935005).	Value Set	QDM Data Elements	Annual Update
Value set High Hyperopia (2.16.840.1.113883.3.526.3.1425): Deleted 1 ICD10CM code (H52.00). Added 3 SNOMEDCT codes (449721002, 449722009, 449723004).	Value Set	QDM Data Elements	Annual Update
Value set Hypotony of Eye (2.16.840.1.113883.3.526.3.1426): Deleted 4 ICD10CM codes (H44.419, H44.429, H44.439, H44.449). Added 1 SNOMEDCT code (700280001).	Value Set	QDM Data Elements	Annual Update
Value set Injury to Optic Nerve and Pathways (2.16.840.1.113883.3.526.3.1427): Deleted 3 ICD10CM codes (S04.019A, S04.039A, S04.049A). Added 1 SNOMEDCT code (230513000).	Value Set	QDM Data Elements	Annual Update
Value set Central Corneal Ulcer (2.16.840.1.113883.3.526.3.1428): Deleted 1 ICD10CM code (H16.019).	Value Set	QDM Data Elements	Annual Update
Value set Open Wound of Eyeball (2.16.840.1.113883.3.526.3.1430): Deleted 8 ICD10CM codes (S05.10XA, S05.20XA, S05.30XA, S05.50XA, S05.60XA, S05.70XA, S05.8X9A, S05.90XA). Added 5 SNOMEDCT codes (12403101000119108, 3018008, 416931008, 722613000, 95725002).	Value Set	QDM Data Elements	Annual Update
Value set Pathologic Myopia (2.16.840.1.113883.3.526.3.1432): Deleted 5 ICD10CM codes (H44.20, H44.2A9, H44.2B9, H44.2C9, H44.2D9).	Value Set	QDM Data Elements	Annual Update
Value set Pseudoexfoliation Syndrome (2.16.840.1.113883.3.526.3.1435): Deleted 5 ICD10CM codes (H40.1490, H40.1491, H40.1492, H40.1493, H40.1494).	Value Set	QDM Data Elements	Annual Update
Value set Retrolental Fibroplasias (2.16.840.1.113883.3.526.3.1438): Deleted 1 ICD10CM code (H35.179).	Value Set	QDM Data Elements	Annual Update
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 (1100691).	Value Set	QDM Data Elements	Annual Update
Value set Traumatic Cataract (2.16.840.1.113883.3.526.3.1443): Deleted 4 ICD10CM codes (H26.109, H26.119, H26.129, H26.139).	Value Set	QDM Data Elements	Annual Update
Value set Uveitis (2.16.840.1.113883.3.526.3.1444): Deleted 2 ICD10CM codes (H44.119, H44.139).	Value Set	QDM Data Elements	Annual Update
Value set Vascular Disorders of Iris and Ciliary Body (2.16.840.1.113883.3.526.3.1445): Deleted 1 ICD10CM code (H21.1X9).	Value Set	QDM Data Elements	Annual Update

CMS132v7 - Cataracts: Complications within 30 Days Following Cataract Surgery Requiring Additional Surgical Procedures

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update
Value set Glaucoma (2.16.840.1.113883.3.526.3.1423): Deleted 57 ICD10CM codes. Added 93 SNOMEDCT codes.	Value Set	QDM Data Elements	Annual Update
Value set Morgagnian Cataract (2.16.840.1.113883.3.526.3.1558): Added Morgagnian Cataract.	Value Set	QDM Data Elements	Annual Update
Value set Senile Cataract (2.16.840.1.113883.3.526.3.1441): Removed Senile Cataract.	Value Set	QDM Data Elements	Annual Update
Value set Cysts of Iris, Ciliary Body, and Anterior Chamber (2.16.840.1.113883.3.526.3.1420): Added 8 SNOMEDCT codes (29668007, 37761009, 53866004, 646009, 81796004, 82167006, 83558008, 85366002) and deleted 3 SNOMEDCT codes (193511002, 193515006, 267621005).	Value Set	QDM Data Elements	2019 Addendum
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum
Value set Glaucoma (2.16.840.1.113883.3.526.3.1423): Deleted 2 SNOMEDCT codes (15739841000119103, 193551004).	Value Set	QDM Data Elements	2019 Addendum

CMS133v7 - 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 Version Number.	Header	eMeasure Version number	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Updated Disclaimer.	Header	Disclaimer	Measure Lead
Updated Rationale.	Header	Rationale	Measure Lead
Updated References.	Header	Reference	Measure Lead
Replaced SNOMEDCT single code value sets with direct referenced codes. A direct referenced code is a single concept code that is used to describe a clinical element directly within the logic. The use of direct referenced codes replaces the need for single code value sets. Measures using other code systems in single value sets may optionally transition to direct referenced codes.	Logic	Numerator	Standards Update
Added supplemental timing attributes to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update
Replaced measure-defined definitions with similar definitions and functions from CQL shared libraries for consistency across measures.	Logic	Multiple Sections	Standards Update
Value set Acute and Subacute Iridocyclitis (2.16.840.1.113883.3.526.3.1241): Deleted 5 ICD10CM codes (H20.019, H20.029, H20.039, H20.049, H20.059).	Value Set	QDM Data Elements	Annual Update
Value set Burn Confined to Eye and Adnexa (2.16.840.1.113883.3.526.3.1409): Deleted 10 ICD10CM codes (T26.00XA, T26.10XA, T26.20XA, T26.30XA, T26.40XA, T26.50XA, T26.60XA, T26.70XA, T26.80XA, T26.90XA).	Value Set	QDM Data Elements	Annual Update
Value set Cataract Secondary to Ocular Disorders (2.16.840.1.113883.3.526.3.1410): Deleted 2 ICD10CM codes (H26.219, H26.229). Added 2 SNOMEDCT codes (15738161000119104, 15738201000119109).	Value Set	QDM Data Elements	Annual Update
Value set Certain Types of Iridocyclitis (2.16.840.1.113883.3.526.3.1415): Deleted 4 ICD10CM codes (H20.20, H20.819, H20.829, H40.40X0).	Value Set	QDM Data Elements	Annual Update

CMS133v7 - Cataracts: 20/40 or Better Visual Acuity within 90 Days Following Cataract Surgery

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Value set Chronic Iridocyclitis (2.16.840.1.113883.3.526.3.1416): Deleted 1 ICD10CM code (H20.10). Added 1 SNOMEDCT code (6869001).	Value Set	QDM Data Elements	Annual Update
Value set Cloudy Cornea (2.16.840.1.113883.3.526.3.1417): Deleted 4 ICD10CM codes (H17.00, H17.10, H17.819, H17.829).	Value Set	QDM Data Elements	Annual Update
Value set Corneal Edema (2.16.840.1.113883.3.526.3.1418): Deleted 4 ICD10CM codes (H18.10, H18.229, H18.239, H18.429). Added 7 SNOMEDCT codes (15736081000119108, 15736161000119100, 15736201000119105, 15736241000119107, 15736281000119102, 373428006, 373430008).	Value Set	QDM Data Elements	Annual Update
Value set Corneal Opacity and Other Disorders of Cornea (2.16.840.1.113883.3.526.3.1419): Deleted 2 ICD10CM codes (H17.00, H17.10).	Value Set	QDM Data Elements	Annual Update
Value set Hereditary Corneal Dystrophies (2.16.840.1.113883.3.526.3.1424): Deleted 2 SNOMEDCT codes (231936006, 32935005).	Value Set	QDM Data Elements	Annual Update
Value set Injury to Optic Nerve and Pathways (2.16.840.1.113883.3.526.3.1427): Deleted 3 ICD10CM codes (S04.019A, S04.039A, S04.049A). Added 1 SNOMEDCT code (230513000).	Value Set	QDM Data Elements	Annual Update
Value set Central Corneal Ulcer (2.16.840.1.113883.3.526.3.1428): Deleted 1 ICD10CM code (H16.019).	Value Set	QDM Data Elements	Annual Update
Value set Open Wound of Eyeball (2.16.840.1.113883.3.526.3.1430): Deleted 8 ICD10CM codes (S05.10XA, S05.20XA, S05.30XA, S05.50XA, S05.60XA, S05.70XA, S05.8X9A, S05.90XA). Added 5 SNOMEDCT codes (12403101000119108, 3018008, 416931008, 722613000, 95725002).	Value Set	QDM Data Elements	Annual Update
Value set Pathologic Myopia (2.16.840.1.113883.3.526.3.1432): Deleted 5 ICD10CM codes (H44.20, H44.2A9, H44.2B9, H44.2C9, H44.2D9).	Value Set	QDM Data Elements	Annual Update
Value set Uveitis (2.16.840.1.113883.3.526.3.1444): Deleted 2 ICD10CM codes (H44.119, H44.139).	Value Set	QDM Data Elements	Annual Update
Value set Visual Field Defects (2.16.840.1.113883.3.526.3.1446): Deleted 1 ICD10CM code (H53.419).	Value Set	QDM Data Elements	Annual Update
Value set Amblyopia (2.16.840.1.113883.3.526.3.1448): Added 3 ICD10CM codes (H53.001, H53.002, H53.003) and deleted 4 ICD10CM codes (H53.019, H53.029, H53.039, H53.049). Added 1 ICD9CM code (368.00).	Value Set	QDM Data Elements	Annual Update
Value set Choroidal Degenerations (2.16.840.1.113883.3.526.3.1450): Deleted 1 SNOMEDCT code (392049002).	Value Set	QDM Data Elements	Annual Update
Value set Chorioretinal Scars (2.16.840.1.113883.3.526.3.1449): Deleted 4 ICD10CM codes (H31.009, H31.019, H31.029, H31.099).	Value Set	QDM Data Elements	Annual Update
Value set Choroidal Detachment (2.16.840.1.113883.3.526.3.1451): Deleted 1 ICD10CM code (H31.419).	Value Set	QDM Data Elements	Annual Update
Value set Choroidal Hemorrhage and Rupture (2.16.840.1.113883.3.526.3.1452): Deleted 3 ICD10CM codes (H31.309, H31.319, H31.329).	Value Set	QDM Data Elements	Annual Update
Value set Degenerative Disorders of Globe (2.16.840.1.113883.3.526.3.1454): Deleted 8 ICD10CM codes (H44.20, H44.2A9, H44.2B9, H44.2C9, H44.2D9, H44.319, H44.329, H44.399).	Value Set	QDM Data Elements	Annual Update
Value set Disorders of Visual Cortex (2.16.840.1.113883.3.526.3.1458): Deleted 1 ICD10CM code (H47.619).	Value Set	QDM Data Elements	Annual Update
Value set Disseminated Chorioretinitis and Disseminated Retinochoroiditis (2.16.840.1.113883.3.526.3.1459): Deleted 5 ICD10CM codes (H30.109, H30.119, H30.129, H30.139, H30.149).	Value Set	QDM Data Elements	Annual Update
Value set Focal Chorioretinitis and Focal Retinochoroiditis (2.16.840.1.113883.3.526.3.1460): Deleted 5 ICD10CM codes (H30.009, H30.019, H30.029, H30.039, H30.049).	Value Set	QDM Data Elements	Annual Update
Value set Glaucoma Associated with Congenital Anomalies, Dystrophies, and Systemic Syndromes (2.16.840.1.113883.3.526.3.1461): Deleted 18 ICD10CM codes. Added 16 SNOMEDCT codes.	Value Set	QDM Data Elements	Annual Update

CMS133v7 - Cataracts: 20/40 or Better Visual Acuity within 90 Days Following Cataract Surgery

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Value set Moderate or Severe Impairment, Better Eye, Profound Impairment Lesser Eye (2.16.840.1.113883.3.526.3.1464): Deleted 3 ICD10CM codes (H54.10, H54.11, H54.12). Added 7 SNOMEDCT codes (193714008, 193716005, 193718006, 193719003, 193720009, 23320001, 4490000).	Value Set	QDM Data Elements	Annual Update
Value set Nystagmus and Other Irregular Eye Movements (2.16.840.1.113883.3.526.3.1465): Added 2 SNOMEDCT codes (285765003, 68610001).	Value Set	QDM Data Elements	Annual Update
Value set Optic Atrophy (2.16.840.1.113883.3.526.3.1466): Deleted 3 ICD10CM codes (H47.219, H47.239, H47.299). Added 5 SNOMEDCT codes (715374003, 717336005, 717975006, 718221007, 719517009).	Value Set	QDM Data Elements	Annual Update
Value set Optic Neuritis (2.16.840.1.113883.3.526.3.1467): Deleted 2 ICD10CM codes (H46.00, H46.10). Added 4 SNOMEDCT codes (15631011000119102, 15631051000119101, 2691000124105, 432521000124106).	Value Set	QDM Data Elements	Annual Update
Value set Other and Unspecified Forms of Chorioretinitis and Retinochoroiditis (2.16.840.1.113883.3.526.3.1468): Deleted 4 ICD10CM codes (H30.20, H30.819, H30.899, H30.90). Deleted 1 SNOMEDCT code (72764003).	Value Set	QDM Data Elements	Annual Update
Value set Other Background Retinopathy and Retinal Vascular Changes (2.16.840.1.113883.3.526.3.1469): Deleted 3 ICD10CM codes (H35.029, H35.059, H35.069). Added 2 SNOMEDCT codes (677651000119102, 677681000119109).	Value Set	QDM Data Elements	Annual Update
Value set Other Corneal Deformities (2.16.840.1.113883.3.526.3.1470): Deleted 4 ICD10CM codes (H18.719, H18.729, H18.739, H18.799).	Value Set	QDM Data Elements	Annual Update
Value set Other Disorders of Optic Nerve (2.16.840.1.113883.3.526.3.1471): Deleted 1 ICD10CM code (H47.019). Added 2 SNOMEDCT codes (15731601000119100, 15731641000119103).	Value Set	QDM Data Elements	Annual Update
Value set Other Disorders of Sclera (2.16.840.1.113883.3.526.3.1472): Deleted 2 ICD10CM codes (H15.839, H15.849).	Value Set	QDM Data Elements	Annual Update
Value set Other Endophthalmitis (2.16.840.1.113883.3.526.3.1473): Deleted 6 ICD10CM codes (H16.249, H21.339, H33.129, H44.119, H44.139, H44.129). Added 1 SNOMEDCT code (415737009).	Value Set	QDM Data Elements	Annual Update
Value set Other Retinal Disorders (2.16.840.1.113883.3.526.3.1474): Deleted 1 ICD10CM code (H35.60).	Value Set	QDM Data Elements	Annual Update
Value set Prior Penetrating Keratoplasty (2.16.840.1.113883.3.526.3.1475): Deleted 3 ICD10CM codes (H18.609, H18.619, H18.629). Deleted 1 SNOMEDCT code (424960002).	Value Set	QDM Data Elements	Annual Update
Value set Profound Impairment, Both Eyes (2.16.840.1.113883.3.526.3.1476): Deleted 2 ICD10CM codes (H54.0, H54.10). Added 1 SNOMEDCT code (193699007) and deleted 19 SNOMEDCT codes.	Value Set	QDM Data Elements	Annual Update
Value set Purulent Endophthalmitis (2.16.840.1.113883.3.526.3.1477): Deleted 3 ICD10CM codes (H44.009, H44.019, H44.029). Added 2 SNOMEDCT codes (15678441000119103, 15678481000119108).	Value Set	QDM Data Elements	Annual Update
Value set Retinal Detachment with Retinal Defect (2.16.840.1.113883.3.526.3.1478): Deleted 6 ICD10CM codes (H33.009, H33.019, H33.029, H33.039, H33.049, H33.059).	Value Set	QDM Data Elements	Annual Update
Value set Other Proliferative Retinopathy (2.16.840.1.113883.3.526.3.1480): Deleted 8 ICD10CM codes (H35.109, H35.119, H35.129, H35.139, H35.179, H35.149, H35.159, H35.169).	Value Set	QDM Data Elements	Annual Update
Value set Scleritis and Episcleritis (2.16.840.1.113883.3.526.3.1481): Deleted 5 ICD10CM codes (H15.029, H15.039, H15.049, H15.059, H15.099).	Value Set	QDM Data Elements	Annual Update
Value set Separation of Retinal Layers (2.16.840.1.113883.3.526.3.1482): Deleted 3 ICD10CM codes (H35.719, H35.729, H35.739).	Value Set	QDM Data Elements	Annual Update
Value set Degeneration of Macula and Posterior Pole (2.16.840.1.113883.3.526.3.1453): Deleted 16 ICD10CM codes.	Value Set	QDM Data Elements	Annual Update
Value set Diabetic Macular Edema (2.16.840.1.113883.3.526.3.1455): Deleted 65 ICD10CM codes.	Value Set	QDM Data Elements	Annual Update

CMS133v7 - Cataracts: 20/40 or Better Visual Acuity within 90 Days Following Cataract Surgery

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Value set Retinal Vascular Occlusion (2.16.840.1.113883.3.526.3.1479): Deleted 16 ICD10CM codes.	Value Set	QDM Data Elements	Annual Update
Value set Diabetic Retinopathy (2.16.840.1.113883.3.526.3.327): Deleted 99 ICD10CM codes.	Value Set	QDM Data Elements	Annual Update
Value set Glaucoma (2.16.840.1.113883.3.526.3.1423): Deleted 57 ICD10CM codes. Added 93 SNOMEDCT codes.	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update
Replaced SNOMEDCT single code value sets with direct referenced codes. A direct referenced code is a single concept code that is used to describe a clinical element directly within the logic. The use of direct referenced codes replaces the need for single code value sets. Measures using other code systems in single value sets may optionally transition to direct referenced codes.	Value Set	QDM Data Elements	Standards Update
Value set Glaucoma Associated with Congenital Anomalies, Dystrophies, and Systemic Syndromes (2.16.840.1.113883.3.526.3.1461): Added 1 SNOMEDCT code (95717004) and deleted 1 SNOMEDCT code (193551004).	Value Set	QDM Data Elements	2019 Addendum
Value set Retinal Detachment with Retinal Defect (2.16.840.1.113883.3.526.3.1478): Deleted 2 SNOMEDCT codes (193321006, 267608003).	Value Set	QDM Data Elements	2019 Addendum
Value set Separation of Retinal Layers (2.16.840.1.113883.3.526.3.1482): Added 1 SNOMEDCT code (232004004) and deleted 3 SNOMEDCT codes (193321006, 267608003, 43031006).	Value Set	QDM Data Elements	2019 Addendum
Value set Glaucoma (2.16.840.1.113883.3.526.3.1423): Deleted 2 SNOMEDCT codes (15739841000119103, 193551004).	Value Set	QDM Data Elements	2019 Addendum
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum

CMS134v7 - Diabetes: Medical Attention for Nephropathy

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Version Number.	Header	eMeasure Version number	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Updated measure header rationale to align with most recent literature.	Header	Rationale	Measure Lead
Updated clinical recommendation statement to align with current recommendations.	Header	Clinical Recommendation Statement	Measure Lead
Updated header references to align with updated rationale and clinical recommendation statement.	Header	Reference	Measure Lead
Updated the Denominator Exclusion statement for patients in hospice care to better align with the logic.	Header	Denominator Exclusions	JIRA (CQM-2815)
Replaced 'Discharge status' attribute with 'Admission Source' and 'Discharge Disposition' attributes for 'Encounter, Performed' and 'Encounter, Active' datatypes to align with QDM 5.3 changes.	Logic	Denominator Exclusions	Standards Update
Added supplemental timing attributes to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Removed the 'Face-To-Face Interaction' data element and added relevant SNOMED codes to the Encounter Grouping value sets to better align between the SNOMED and CPT encounter codes.	Logic	Multiple Sections	Measure Lead
Replaced measure-defined definitions with similar definitions and functions from CQL shared libraries for consistency across measures.	Logic	Multiple Sections	Standards Update
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update
Value set ACE Inhibitor or ARB (2.16.840.1.113883.3.526.3.1139): Deleted 1 RXNORM code (247516).	Value Set	QDM Data Elements	Annual Update
Value set Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1264) including 7 codes.	Value Set	QDM Data Elements	Annual Update
Value set Home Healthcare Services (2.16.840.1.113883.3.464.1003.101.12.1016): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1265) including 11 codes.	Value Set	QDM Data Elements	Annual Update

CMS134v7 - Diabetes: Medical Attention for Nephropathy

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Value set Hypertensive Chronic Kidney Disease (2.16.840.1.113883.3.464.1003.109.12.1017): Added 2 ICD10CM codes (I15.0, I15.1).	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update
Value set Glomerulonephritis and Nephrotic Syndrome (2.16.840.1.113883.3.464.1003.109.12.1018): Added 2 SNOMEDCT codes (725592009, 733453005) and deleted 5 SNOMEDCT codes (197614002, 197670003, 236391006, 51055000, 86210009). Added 26 ICD10CM codes.	Value Set	QDM Data Elements	Annual Update
Value set Urine Protein Tests (2.16.840.1.113883.3.464.1003.109.12.1024): Deleted 1 LOINC code (14585-4).	Value Set	QDM Data Elements	Annual Update
Value set Diabetes (2.16.840.1.113883.3.464.1003.103.12.1001): Deleted 17 SNOMEDCT codes.	Value Set	QDM Data Elements	Annual Update
Value set Face-to-Face Interaction (2.16.840.1.113883.3.464.1003.101.12.1048): Removed Face-to-Face Interaction.	Value Set	QDM Data Elements	Annual Update
Replaced SNOMEDCT single code value sets with direct referenced codes. A direct referenced code is a single concept code that is used to describe a clinical element directly within the logic. The use of direct referenced codes replaces the need for single code value sets. Measures using other code systems in single value sets may optionally transition to direct referenced codes.	Value Set	QDM Data Elements	Standards Update
Value set Vascular Access for Dialysis (2.16.840.1.113883.3.464.1003.109.12.1011): Added 2 SNOMEDCT codes (736919006, 736922008).	Value Set	QDM Data Elements	2019 Addendum
Value set Kidney Failure (2.16.840.1.113883.3.464.1003.109.12.1028): Deleted 1 SNOMEDCT code (96731000119100).	Value Set	QDM Data Elements	2019 Addendum
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum
Value set Glomerulonephritis and Nephrotic Syndrome (2.16.840.1.113883.3.464.1003.109.12.1018): Added 9 SNOMEDCT codes (101711000119105, 194909006, 195353004, 232369001, 232460001, 235000001, 239935007, 239936008, 726082003).	Value Set	QDM Data Elements	2019 Addendum
Value set Kidney Transplant (2.16.840.1.113883.3.464.1003.109.12.1012): Added 35 SNOMEDCT codes and deleted 8 SNOMEDCT codes (175899003, 175901007, 175902000, 236138007, 313030004, 52213001, 88930008, 70536003). Added 2 CPT codes (50300, 50320).	Value Set	QDM Data Elements	2019 Addendum
Value set Diabetes (2.16.840.1.113883.3.464.1003.103.12.1001): Added 36 SNOMEDCT codes.	Value Set	QDM Data Elements	2019 Addendum

CMS135v7 - 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 Version Number.	Header	eMeasure Version number	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Updated Disclaimer.	Header	Disclaimer	Measure Lead
Added Rate Aggregation instruction to highlight the difference between the two populations, which includes guidance on calculating a single performance rate.	Header	Rate Aggregation	JIRA (CQM-2515)
Updated Guidance statement regarding two or more visits to remove reference to QDM expression logic.	Header	Guidance	Measure Lead
Added Guidance regarding combination therapies that will meet the intent of the measure.	Header	Guidance	Expert Work Group Review
Updated timing operator to ensure that medication is active at the time of the end of the encounter.	Logic	Numerator	Measure Lead
Added 'AuthorDateTime' attribute to QDM datatypes that include negation rationale: 'Diagnostic, Performed', 'Intervention Performed', 'Encounter, Performed', 'Laboratory Test, Performed', 'Medication, Administered', 'Physical Exam, Performed', 'Procedure, Performed', 'Substance Administered' to conform with QDM 5.3 changes.	Logic	Denominator Exceptions	Standards Update
Updated timing operator to ensure that allergy or intolerance is active at the time of the end of the encounter.	Logic	Denominator Exceptions	Measure Lead
Replaced 'Allergy, Intolerance' datatypes with 'Allergy/Intolerance' category to conform with QDM 5.3 changes.	Logic	Denominator Exceptions	Standards Update
Split population criteria into two separate populations: patients who are seen in the outpatient setting, and patients at each hospital discharge. This will ensure measure performance is assessed at the appropriate types of encounters.	Logic	Multiple Sections	JIRA (CQM-2515)
Added supplemental timing attributes to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Removed the 'Face-To-Face Interaction' data element and added relevant SNOMED codes to the Encounter Grouping value sets to better align between the SNOMED and CPT encounter codes.	Logic	Multiple Sections	Measure Lead
Replaced measure-defined definitions with similar definitions and functions from CQL shared libraries for consistency across measures.	Logic	Multiple Sections	Standards Update

CMS135v7 - 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 measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update
Value set ACE Inhibitor or ARB (2.16.840.1.113883.3.526.3.1139): Deleted 1 RXNORM code (247516).	Value Set	QDM Data Elements	Annual Update
Value set Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1264) including 7 codes.	Value Set	QDM Data Elements	Annual Update
Value set Outpatient Consultation (2.16.840.1.113883.3.464.1003.101.12.1008): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1266) including 3 codes.	Value Set	QDM Data Elements	Annual Update
Value set Nursing Facility Visit (2.16.840.1.113883.3.464.1003.101.12.1012): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1261) including 2 codes.	Value Set	QDM Data Elements	Annual Update
Value set Care Services in Long-Term Residential Facility (2.16.840.1.113883.3.464.1003.101.12.1014): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1262) including 2 codes.	Value Set	QDM Data Elements	Annual Update
Value set Home Healthcare Services (2.16.840.1.113883.3.464.1003.101.12.1016): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1265) including 11 codes.	Value Set	QDM Data Elements	Annual Update
Value set Patient Reason (2.16.840.1.113883.3.526.3.1008): Deleted 1 SNOMEDCT code (385648002).	Value Set	QDM Data Elements	Annual Update
Value set Heart Failure (2.16.840.1.113883.3.526.3.376): Deleted 2 SNOMEDCT codes (359620001, 77737007).	Value Set	QDM Data Elements	Annual Update
Value set Pregnancy (2.16.840.1.113883.3.526.3.378): Deleted 11 ICD10CM codes (O00.1, O00.10, O00.11, O00.2, O00.20, O00.21, O00.8, O00.9, O33.7, O34.21, Z36).	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update
Value set Face-to-Face Interaction (2.16.840.1.113883.3.464.1003.101.12.1048): Removed Face-to-Face Interaction.	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum

CMS136v8 - Follow-Up Care for Children Prescribed ADHD Medication (ADD)

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Version Number.	Header	eMeasure Version number	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Updated the Denominator Exclusion statement for patients in hospice care to better align with the logic.	Header	Denominator Exclusions	JIRA (CQM-2815)
Removed 'Cumulative Medication Duration' datatype to conform with QDM 5.3 changes. The concept of cumulative medication duration can now be expressed using CQL logic.	Logic	Initial Population	Standards Update
Replaced 'Discharge status' attribute with 'Admission Source' and 'Discharge Disposition' attributes for 'Encounter, Performed' and 'Encounter, Active' datatypes to align with QDM 5.3 changes.	Logic	Denominator Exclusions	Standards Update
Added supplemental timing attributes to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Removed the 'Face-To-Face Interaction' data element and added relevant SNOMED codes to the Encounter Grouping value sets to better align between the SNOMED and CPT encounter codes.	Logic	Multiple Sections	Measure Lead
Replaced measure-defined definitions with similar definitions and functions from CQL shared libraries for consistency across measures.	Logic	Multiple Sections	Standards Update
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update
Value set Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1264) including 7 codes.	Value Set	QDM Data Elements	Annual Update
Value set Outpatient Consultation (2.16.840.1.113883.3.464.1003.101.12.1008): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1266) including 3 codes.	Value Set	QDM Data Elements	Annual Update
Value set Home Healthcare Services (2.16.840.1.113883.3.464.1003.101.12.1016): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1265) including 11 codes.	Value Set	QDM Data Elements	Annual Update
Value set Inpatient Encounter (2.16.840.1.113883.3.464.1003.101.12.1060): Deleted 1 SNOMEDCT code (55402005).	Value Set	QDM Data Elements	Annual Update

CMS136v8 - Follow-Up Care for Children Prescribed ADHD Medication (ADD)

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Value set Substance Abuse (2.16.840.1.113883.3.464.1003.106.12.1004): Added 6 SNOMEDCT codes (11047881000119101, 724694006, 724697004, 724703003, 724712001, 724713006).	Value Set	QDM Data Elements	Annual Update
Value set ADHD Medications (2.16.840.1.113883.3.464.1003.196.12.1171): Added 7 RXNORM codes (1926840, 1926849, 1926853, 1927610, 1927617, 1927630, 1927637).	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update
Value set Mental Health Diagnoses (2.16.840.1.113883.3.464.1003.105.12.1004): Deleted 59 SNOMEDCT codes. Added 12 ICD10CM codes.	Value Set	QDM Data Elements	Annual Update
Value set Face-to-Face Interaction (2.16.840.1.113883.3.464.1003.101.12.1048): Removed Face-to-Face Interaction.	Value Set	QDM Data Elements	Annual Update
Replaced SNOMEDCT single code value sets with direct referenced codes. A direct referenced code is a single concept code that is used to describe a clinical element directly within the logic. The use of direct referenced codes replaces the need for single code value sets. Measures using other code systems in single value sets may optionally transition to direct referenced codes.	Value Set	QDM Data Elements	Standards Update
Value set Substance Abuse (2.16.840.1.113883.3.464.1003.106.12.1004): Added 2 SNOMEDCT codes (737336003, 762504005).	Value Set	QDM Data Elements	2019 Addendum
Value set Narcolepsy (2.16.840.1.113883.3.464.1003.114.12.1011): Added 2 SNOMEDCT codes (427426006, 735676003).	Value Set	QDM Data Elements	2019 Addendum
Value set ADHD Medications (2.16.840.1.113883.3.464.1003.196.12.1171): Added 5 RXNORM codes (1995461, 2001564, 2001565, 2001566, 2001568).	Value Set	QDM Data Elements	2019 Addendum
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum
Value set Mental Health Diagnoses (2.16.840.1.113883.3.464.1003.105.12.1004): Added 353 SNOMEDCT codes and deleted 222 SNOMEDCT codes. Added 1 ICD10CM code (F32.8).	Value Set	QDM Data Elements	2019 Addendum

CMS137v7 - Initiation and Engagement of Alcohol and Other Drug Dependence Treatment

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Version Number.	Header	eMeasure Version number	Measure Lead
Updated Description, IP, Denominator Exclusions, and Numerator language to align with the HEDIS parent measure.	Header	Description	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Updated clinical recommendation statement to align with current recommendations.	Header	Clinical Recommendation Statement	Measure Lead
Updated Description, IP, Denominator Exclusions, and Numerator language to align with the HEDIS parent measure.	Header	Initial Population	Measure Lead
Updated Description, IP, Denominator Exclusions, and Numerator language to align with the HEDIS parent measure.	Header	Denominator Exclusions	Measure Lead
Updated the Denominator Exclusion statement for patients in hospice care to better align with the logic.	Header	Denominator Exclusions	JIRA (CQM-2815)
Updated Description, IP, Denominator Exclusions, and Numerator language to align with the HEDIS parent measure.	Header	Numerator	Measure Lead
Replaced 'Discharge status' attribute with 'Admission Source' and 'Discharge Disposition' attributes for 'Encounter, Performed' and 'Encounter, Active' datatypes to align with QDM 5.3 changes.	Logic	Denominator Exclusions	Standards Update
Added supplemental timing attributes to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Removed the 'Face-To-Face Interaction' data element and added relevant SNOMED codes to the Encounter Grouping value sets to better align between the SNOMED and CPT encounter codes.	Logic	Multiple Sections	Measure Lead
Replaced measure-defined definitions with similar definitions and functions from CQL shared libraries for consistency across measures.	Logic	Multiple Sections	Standards Update
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update

CMS137v7 - Initiation and Engagement of Alcohol and Other Drug Dependence Treatment

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Value set Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1264) including 7 codes.	Value Set	QDM Data Elements	Annual Update
Value set Emergency Department Visit (2.16.840.1.113883.3.464.1003.101.12.1010): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1263) including 1 code.	Value Set	QDM Data Elements	Annual Update
Value set Alcohol and Drug Dependence (2.16.840.1.113883.3.464.1003.106.12.1001): Added 70 SNOMEDCT codes.	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update
Value set Face-to-Face Interaction (2.16.840.1.113883.3.464.1003.101.12.1048): Removed Face-to-Face Interaction.	Value Set	QDM Data Elements	Annual Update
Replaced SNOMEDCT single code value sets with direct referenced codes. A direct referenced code is a single concept code that is used to describe a clinical element directly within the logic. The use of direct referenced codes replaces the need for single code value sets. Measures using other code systems in single value sets may optionally transition to direct referenced codes.	Value Set	QDM Data Elements	Standards Update
Value set Detoxification Visit (2.16.840.1.113883.3.464.1003.101.12.1059): Deleted 2 SNOMEDCT codes (266707007, 310653000).	Value Set	QDM Data Elements	2019 Addendum
Value set Alcohol and Drug Dependence Treatment (2.16.840.1.113883.3.464.1003.106.12.1005): Added 1 SNOMEDCT code (737363002).	Value Set	QDM Data Elements	2019 Addendum
Value set Alcohol and Drug Dependence (2.16.840.1.113883.3.464.1003.106.12.1001): Added 43 SNOMEDCT codes and deleted 64 SNOMEDCT codes.	Value Set	QDM Data Elements	2019 Addendum
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum

CMS138v7 - Preventive Care and Screening: Tobacco Use: Screening and Cessation Intervention

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Version Number.	Header	eMeasure Version number	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Updated Disclaimer.	Header	Disclaimer	Measure Lead
Updated Guidance statement regarding two or more visits to remove reference to QDM expression logic.	Header	Guidance	Measure Lead
Added Guidance to provide clarification for numerator accountability based on clinical experts' feedback.	Header	Guidance	Measure Lead
Added 'AuthorDateTime' attribute to QDM datatypes that include negation rationale: 'Diagnostic, Performed', 'Intervention Performed', 'Encounter, Performed', 'Laboratory Test, Performed', 'Medication, Administered', 'Physical Exam, Performed', 'Procedure, Performed', 'Substance Administered' to conform with QDM 5.3 changes.	Logic	Denominator Exceptions	Standards Update
Added supplemental timing attributes to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Removed the 'Face-To-Face Interaction' data element and added relevant SNOMED codes to the Encounter Grouping value sets to better align between the SNOMED and CPT encounter codes.	Logic	Multiple Sections	Measure Lead
Replaced measure-defined definitions with similar definitions and functions from CQL shared libraries for consistency across measures.	Logic	Multiple Sections	Standards Update
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update
Value set Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1264) including 7 codes.	Value Set	QDM Data Elements	Annual Update
Value set Home Healthcare Services (2.16.840.1.113883.3.464.1003.101.12.1016): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1265) including 11 codes.	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update

CMS138v7 - Preventive Care and Screening: Tobacco Use: Screening and Cessation Intervention

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Value set Face-to-Face Interaction (2.16.840.1.113883.3.464.1003.101.12.1048): Removed Face-to-Face Interaction.	Value Set	QDM Data Elements	Annual Update
Value set Limited Life Expectancy (2.16.840.1.113883.3.526.3.1259): Added 1 SNOMEDCT code (111947009).	Value Set	QDM Data Elements	2019 Addendum
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum

CMS139v7 - Falls: Screening for Future Fall Risk

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Version Number.	Header	eMeasure Version number	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Updated Disclaimer.	Header	Disclaimer	Measure Lead
Updated the Denominator Exclusion statement for patients in hospice care to better align with the logic.	Header	Denominator Exclusions	JIRA (CQM-2815)
Added supplemental timing attributes to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Removed the 'Face-To-Face Interaction' data element and added relevant SNOMED codes to the Encounter Grouping value sets to better align between the SNOMED and CPT encounter codes.	Logic	Multiple Sections	Measure Lead
Replaced measure-defined definitions with similar definitions and functions from CQL shared libraries for consistency across measures.	Logic	Multiple Sections	Standards Update
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update
Value set Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1264) including 7 codes.	Value Set	QDM Data Elements	Annual Update
Value set Nursing Facility Visit (2.16.840.1.113883.3.464.1003.101.12.1012): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1261) including 2 codes.	Value Set	QDM Data Elements	Annual Update
Value set Care Services in Long-Term Residential Facility (2.16.840.1.113883.3.464.1003.101.12.1014): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1262) including 2 codes.	Value Set	QDM Data Elements	Annual Update
Value set Home Healthcare Services (2.16.840.1.113883.3.464.1003.101.12.1016): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1265) including 11 codes.	Value Set	QDM Data Elements	Annual Update
Value set Falls Screening (2.16.840.1.113883.3.464.1003.118.12.1028): Added 1 LOINC code (59454-9).	Value Set	QDM Data Elements	Annual Update
Value set Discharge Services - Nursing Facility (2.16.840.1.113883.3.464.1003.101.12.1013): Added Discharge Services - Nursing Facility.	Value Set	QDM Data Elements	Annual Update

CMS139v7 - Falls: Screening for Future Fall Risk

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Value set Ambulatory Status (2.16.840.1.113883.3.464.1003.118.11.1219): Added Ambulatory Status.	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update
Value set Face-to-Face Interaction (2.16.840.1.113883.3.464.1003.101.12.1048): Removed Face-to-Face Interaction.	Value Set	QDM Data Elements	Annual Update
Replaced SNOMEDCT single code value sets with direct referenced codes. A direct referenced code is a single concept code that is used to describe a clinical element directly within the logic. The use of direct referenced codes replaces the need for single code value sets. Measures using other code systems in single value sets may optionally transition to direct referenced codes.	Value Set	QDM Data Elements	Standards Update
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum

CMS142v7 - Diabetic Retinopathy: Communication with the Physician Managing Ongoing Diabetes Care

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Version Number.	Header	eMeasure Version number	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Updated Disclaimer.	Header	Disclaimer	Measure Lead
Added 'AuthorDateTime' attribute to QDM datatypes that include negation rationale: 'Diagnostic, Performed', 'Intervention Performed', 'Encounter, Performed', 'Laboratory Test, Performed', 'Medication, Administered', 'Physical Exam, Performed', 'Procedure, Performed', 'Substance Administered' to conform with QDM 5.3 changes.	Logic	Denominator Exceptions	Standards Update
Added supplemental timing attributes to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Removed the 'Face-To-Face Interaction' data element and added relevant SNOMED codes to the Encounter Grouping value sets to better align between the SNOMED and CPT encounter codes.	Logic	Multiple Sections	Measure Lead
Replaced measure-defined definitions with similar definitions and functions from CQL shared libraries for consistency across measures.	Logic	Multiple Sections	Standards Update
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update
Value set Patient Reason (2.16.840.1.113883.3.526.3.1008): Deleted 1 SNOMEDCT code (385648002).	Value Set	QDM Data Elements	Annual Update
Value set Macular Exam (2.16.840.1.113883.3.526.3.1251): Added 2 LOINC codes (79820-7, 79821-5).	Value Set	QDM Data Elements	Annual Update
Value set Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1264) including 7 codes.	Value Set	QDM Data Elements	Annual Update
Value set Outpatient Consultation (2.16.840.1.113883.3.464.1003.101.12.1008): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1266) including 3 codes.	Value Set	QDM Data Elements	Annual Update
Value set Nursing Facility Visit (2.16.840.1.113883.3.464.1003.101.12.1012): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1261) including 2 codes.	Value Set	QDM Data Elements	Annual Update

CMS142v7 - Diabetic Retinopathy: Communication with the Physician Managing Ongoing Diabetes Care

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Value set Care Services in Long-Term Residential Facility (2.16.840.1.113883.3.464.1003.101.12.1014): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1262) including 2 codes.	Value Set	QDM Data Elements	Annual Update
Value set Diabetic Retinopathy (2.16.840.1.113883.3.526.3.327): Deleted 99 ICD10CM codes.	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update
Value set Face-to-Face Interaction (2.16.840.1.113883.3.464.1003.101.12.1048): Removed Face-to-Face Interaction.	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum

CMS143v7 - Primary Open-Angle Glaucoma (POAG): Optic Nerve Evaluation

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Version Number.	Header	eMeasure Version number	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Updated Disclaimer.	Header	Disclaimer	Measure Lead
Updated Rationale.	Header	Rationale	Measure Lead
Updated Clinical Recommendation Statement.	Header	Clinical Recommendation Statement	Measure Lead
Added 'AuthorDateTime' attribute to QDM datatypes that include negation rationale: 'Diagnostic, Performed', 'Intervention Performed', 'Encounter, Performed', 'Laboratory Test, Performed', 'Medication, Administered', 'Physical Exam, Performed', 'Procedure, Performed', 'Substance Administered' to conform with QDM 5.3 changes.	Logic	Denominator Exceptions	Standards Update
Added supplemental timing attributes to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Removed the 'Face-To-Face Interaction' data element and added relevant SNOMED codes to the Encounter Grouping value sets to better align between the SNOMED and CPT encounter codes.	Logic	Multiple Sections	Measure Lead
Replaced measure-defined definitions with similar definitions and functions from CQL shared libraries for consistency across measures.	Logic	Multiple Sections	Standards Update
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update
Value set Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1264) including 7 codes.	Value Set	QDM Data Elements	Annual Update
Value set Outpatient Consultation (2.16.840.1.113883.3.464.1003.101.12.1008): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1266) including 3 codes.	Value Set	QDM Data Elements	Annual Update

CMS143v7 - Primary Open-Angle Glaucoma (POAG): Optic Nerve Evaluation

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Value set Nursing Facility Visit (2.16.840.1.113883.3.464.1003.101.12.1012): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1261) including 2 codes.	Value Set	QDM Data Elements	Annual Update
Value set Care Services in Long-Term Residential Facility (2.16.840.1.113883.3.464.1003.101.12.1014): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1262) including 2 codes.	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update
Value set Primary Open-Angle Glaucoma (2.16.840.1.113883.3.526.3.326): Deleted 16 ICD10CM codes. Deleted 1 SNOMEDCT code (81416004).	Value Set	QDM Data Elements	Annual Update
Value set Face-to-Face Interaction (2.16.840.1.113883.3.464.1003.101.12.1048): Removed Face-to-Face Interaction.	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum
Value set Primary Open-Angle Glaucoma (2.16.840.1.113883.3.526.3.326): Deleted 1 SNOMEDCT code (48705003).	Value Set	QDM Data Elements	2019 Addendum

CMS144v7 - Heart Failure (HF): Beta-Blocker Therapy for Left Ventricular Systolic Dysfunction (LVSD)

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Version Number.	Header	eMeasure Version number	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Updated Disclaimer.	Header	Disclaimer	Measure Lead
Added Rate Aggregation instruction to highlight the difference between the two populations, which includes guidance on calculating a single performance rate.	Header	Rate Aggregation	JIRA (CQM-2515)
Relocated Guidance regarding Left Ventricular Ejection Fraction (LVEF) documentation to the Definition field.	Header	Definition	Measure Lead
Updated Guidance statement regarding two or more visits to remove reference to QDM expression logic.	Header	Guidance	Measure Lead
Relocated Guidance regarding Left Ventricular Ejection Fraction (LVEF) documentation to the Definition field.	Header	Guidance	Measure Lead
Updated timing operator to ensure that medication is active at the time of the end of the encounter.	Logic	Numerator	Measure Lead
Added 'AuthorDateTime' attribute to QDM datatypes that include negation rationale: 'Diagnostic, Performed', 'Intervention Performed', 'Encounter, Performed', 'Laboratory Test, Performed', 'Medication, Administered', 'Physical Exam, Performed', 'Procedure, Performed', 'Substance Administered' to conform with QDM 5.3 changes.	Logic	Denominator Exceptions	Standards Update
Updated timing operator to ensure that allergy or intolerance is active at the time of the end of the encounter.	Logic	Denominator Exceptions	Measure Lead
Updated timing operator to ensure that the cardiac pacer is present at the time of the end of the encounter.	Logic	Denominator Exceptions	Measure Lead
Replaced LOINC single code value sets with direct referenced codes. A direct referenced code is a single concept code that is used to describe a clinical element directly within the logic. The use of direct referenced codes replaces the need for single code value sets. Measures using other code systems in single value sets may optionally transition to direct referenced codes.	Logic	Denominator Exceptions	Standards Update
Replaced 'Allergy, Intolerance' datatypes with 'Allergy/Intolerance' category to conform with QDM 5.3 changes.	Logic	Denominator Exceptions	Standards Update
Split population criteria into two separate populations: patients who are seen in the outpatient setting, and patients at each hospital discharge. This will ensure measure performance is assessed at the appropriate types of encounters.	Logic	Multiple Sections	Measure Lead
Added supplemental timing attributes to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update

CMS144v7 - Heart Failure (HF): Beta-Blocker Therapy for Left Ventricular Systolic Dysfunction (LVSD)

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Removed the 'Face-To-Face Interaction' data element and added relevant SNOMED codes to the Encounter Grouping value sets to better align between the SNOMED and CPT encounter codes.	Logic	Multiple Sections	Measure Lead
Replaced measure-defined definitions with similar definitions and functions from CQL shared libraries for consistency across measures.	Logic	Multiple Sections	Standards Update
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update
Value set Beta Blocker Therapy (2.16.840.1.113883.3.526.3.1174): Removed Beta Blocker Therapy.	Value Set	QDM Data Elements	Annual Update
Value set Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1264) including 7 codes.	Value Set	QDM Data Elements	Annual Update
Value set Outpatient Consultation (2.16.840.1.113883.3.464.1003.101.12.1008): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1266) including 3 codes.	Value Set	QDM Data Elements	Annual Update
Value set Nursing Facility Visit (2.16.840.1.113883.3.464.1003.101.12.1012): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1261) including 2 codes.	Value Set	QDM Data Elements	Annual Update
Value set Care Services in Long-Term Residential Facility (2.16.840.1.113883.3.464.1003.101.12.1014): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1262) including 2 codes.	Value Set	QDM Data Elements	Annual Update
Value set Home Healthcare Services (2.16.840.1.113883.3.464.1003.101.12.1016): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1265) including 11 codes.	Value Set	QDM Data Elements	Annual Update
Value set Patient Reason (2.16.840.1.113883.3.526.3.1008): Deleted 1 SNOMEDCT code (385648002).	Value Set	QDM Data Elements	Annual Update
Value set Atrioventricular Block (2.16.840.1.113883.3.526.3.367): Deleted 1 SNOMEDCT code (93130009).	Value Set	QDM Data Elements	Annual Update
Value set Heart Failure (2.16.840.1.113883.3.526.3.376): Deleted 2 SNOMEDCT codes (359620001, 77737007).	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update
Value set Face-to-Face Interaction (2.16.840.1.113883.3.464.1003.101.12.1048): Removed Face-to-Face Interaction.	Value Set	QDM Data Elements	Annual Update
Replaced LOINC single code value sets with direct referenced codes. A direct referenced code is a single concept code that is used to describe a clinical element directly within the logic. The use of direct referenced codes replaces the need for single code value sets. Measures using other code systems in single value sets may optionally transition to direct referenced codes.	Value Set	QDM Data Elements	Standards Update
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum

CMS145v7 - 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 Version Number.	Header	eMeasure Version number	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Updated Disclaimer.	Header	Disclaimer	Measure Lead
Updated Rate Aggregation to include guidance on calculating a single performance rate.	Header	Rate Aggregation	Measure Lead
Updated Guidance statement regarding two or more visits to remove reference to QDM expression logic.	Header	Guidance	Measure Lead
Updated timing operator to ensure that medication is active at the time of the end of the encounter.	Logic	Numerator	Measure Lead
Added 'AuthorDateTime' attribute to QDM datatypes that include negation rationale: 'Diagnostic, Performed', 'Intervention Performed', 'Encounter, Performed', 'Laboratory Test, Performed', 'Medication, Administered', 'Physical Exam, Performed', 'Procedure, Performed', 'Substance Administered' to conform with QDM 5.3 changes.	Logic	Denominator Exceptions	Standards Update
Updated timing operator to ensure that allergy or intolerance is active at the time of the end of the encounter.	Logic	Denominator Exceptions	Measure Lead
Updated timing operator to ensure that the cardiac pacer is present at the time of the end of the encounter.	Logic	Denominator Exceptions	Measure Lead
Replaced LOINC single code value sets with direct referenced codes. A direct referenced code is a single concept code that is used to describe a clinical element directly within the logic. The use of direct referenced codes replaces the need for single code value sets. Measures using other code systems in single value sets may optionally transition to direct referenced codes.	Logic	Denominator Exceptions	Standards Update
Replaced 'Allergy, Intolerance' datatypes with 'Allergy/Intolerance' category to conform with QDM 5.3 changes.	Logic	Denominator Exceptions	Standards Update
Added supplemental timing attributes to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Removed the 'Face-To-Face Interaction' data element and added relevant SNOMED codes to the Encounter Grouping value sets to better align between the SNOMED and CPT encounter codes.	Logic	Multiple Sections	Measure Lead
Replaced measure-defined definitions with similar definitions and functions from CQL shared libraries for consistency across measures.	Logic	Multiple Sections	Standards Update

CMS145v7 - 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 measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update
Value set Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1264) including 7 codes.	Value Set	QDM Data Elements	Annual Update
Value set Outpatient Consultation (2.16.840.1.113883.3.464.1003.101.12.1008): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1266) including 3 codes.	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update
Value set Nursing Facility Visit (2.16.840.1.113883.3.464.1003.101.12.1012): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1261) including 2 codes.	Value Set	QDM Data Elements	Annual Update
Value set Care Services in Long-Term Residential Facility (2.16.840.1.113883.3.464.1003.101.12.1014): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1262) including 2 codes.	Value Set	QDM Data Elements	Annual Update
Value set Home Healthcare Services (2.16.840.1.113883.3.464.1003.101.12.1016): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1265) including 11 codes.	Value Set	QDM Data Elements	Annual Update
Value set Patient Reason (2.16.840.1.113883.3.526.3.1008): Deleted 1 SNOMEDCT code (385648002).	Value Set	QDM Data Elements	Annual Update
Value set Beta Blocker Therapy (2.16.840.1.113883.3.526.3.1174): Added 3 RXNORM codes (1606347, 1606349, 1798281).	Value Set	QDM Data Elements	Annual Update
Value set Atrioventricular Block (2.16.840.1.113883.3.526.3.367): Deleted 1 SNOMEDCT code (93130009).	Value Set	QDM Data Elements	Annual Update
Replaced LOINC single code value sets with direct referenced codes. A direct referenced code is a single concept code that is used to describe a clinical element directly within the logic. The use of direct referenced codes replaces the need for single code value sets. Measures using other code systems in single value sets may optionally transition to direct referenced codes.	Value Set	QDM Data Elements	Standards Update
Value set Face-to-Face Interaction (2.16.840.1.113883.3.464.1003.101.12.1048): Removed Face-to-Face Interaction.	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum
Value set Cardiac Surgery (2.16.840.1.113883.3.526.3.371): Added 8 SNOMEDCT codes (736966005, 736967001, 736968006, 736969003, 736970002, 736971003, 736972005, 736973000).	Value Set	QDM Data Elements	2019 Addendum

CMS146v7 - Appropriate Testing for Children with Pharyngitis

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Version Number.	Header	eMeasure Version number	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Updated the Denominator Exclusion statement for patients in hospice care to better align with the logic.	Header	Denominator Exclusions	JIRA (CQM-2815)
Revised the encounter logic to allow the diagnosis to start during or three days after the visit to better align with measure intent.	Logic	Initial Population	Measure Lead
Replaced 'Discharge status' attribute with 'Admission Source' and 'Discharge Disposition' attributes for 'Encounter, Performed' and 'Encounter, Active' datatypes to align with QDM 5.3 changes.	Logic	Denominator Exclusions	Standards Update
Added supplemental timing attributes to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Removed the 'Face-To-Face Interaction' data element and added relevant SNOMED codes to the Encounter Grouping value sets to better align between the SNOMED and CPT encounter codes.	Logic	Multiple Sections	Measure Lead
Replaced measure-defined definitions with similar definitions and functions from CQL shared libraries for consistency across measures.	Logic	Multiple Sections	Standards Update
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update
Value set Antibiotic Medications for Pharyngitis (2.16.840.1.113883.3.464.1003.196.12.1001): Deleted 5 RXNORM codes (1727174, 226633, 247673, 315209, 835341).	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update
Value set Face-to-Face Interaction (2.16.840.1.113883.3.464.1003.101.12.1048): Removed Face-to-Face Interaction.	Value Set	QDM Data Elements	Annual Update

CMS146v7 - Appropriate Testing for Children with Pharyngitis

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Replaced SNOMEDCT single code value sets with direct referenced codes. A direct referenced code is a single concept code that is used to describe a clinical element directly within the logic. The use of direct referenced codes replaces the need for single code value sets. Measures using other code systems in single value sets may optionally transition to direct referenced codes.	Value Set	QDM Data Elements	Standards Update
Value set Antibiotic Medications for Pharyngitis (2.16.840.1.113883.3.464.1003.196.12.1001): Added 8 RXNORM codes (199497, 1996246, 199710, 1998483, 2000127, 2000134, 245838, 310156) and deleted 1 RXNORM code (1662283).	Value Set	QDM Data Elements	2019 Addendum
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum

CMS147v8 - Preventive Care and Screening: Influenza Immunization

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Version Number.	Header	eMeasure Version number	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Updated Disclaimer.	Header	Disclaimer	Measure Lead
Updated Clinical Recommendation Statement.	Header	Clinical Recommendation Statement	Measure Lead
Updated Reference.	Header	Reference	Measure Lead
Added 'AuthorDateTime' attribute to QDM datatypes that include negation rationale: 'Diagnostic, Performed', 'Intervention Performed', 'Encounter, Performed', 'Laboratory Test, Performed', 'Medication, Administered', 'Physical Exam, Performed', 'Procedure, Performed', 'Substance Administered' to conform with QDM 5.3 changes.	Logic	Denominator Exceptions	Standards Update
Replaced 'Allergy, Intolerance' datatypes with 'Allergy/Intolerance' category to conform with QDM 5.3 changes.	Logic	Denominator Exceptions	Standards Update
Added supplemental timing attributes to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Removed the 'Face-To-Face Interaction' data element and added relevant SNOMED codes to the Encounter Grouping value sets to better align between the SNOMED and CPT encounter codes.	Logic	Multiple Sections	Measure Lead
Replaced measure-defined definitions with similar definitions and functions from CQL shared libraries for consistency across measures.	Logic	Multiple Sections	Standards Update
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update
Value set Patient Reason (2.16.840.1.113883.3.526.3.1008): Deleted 1 SNOMEDCT code (385648002).	Value Set	QDM Data Elements	Annual Update

CMS147v8 - Preventive Care and Screening: Influenza Immunization

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Value set Encounter-Influenza (2.16.840.1.113883.3.526.3.1252): Removed SNOMED extensional Face-to-Face Interaction (2.16.840.1.113883.3.464.1003.101.11.1216). Added Office Visit SNOMED extensional (2.16.840.1.113883.3.464.1003.101.11.1264), Outpatient Consultation SNOMED extensional (2.16.840.1.113883.3.464.1003.101.11.1266), Nursing Facility Visit SNOMED extensional (2.16.840.1.113883.3.464.1003.101.11.1261), Care Services in Long-Term Residential Facility SNOMED extensional (2.16.840.1.113883.3.464.1003.101.11.1262), and Home Healthcare Services SNOMED extensional (2.16.840.1.113883.3.464.1003.101.11.1265).	Value Set	QDM Data Elements	Annual Update
Value set Influenza Vaccine (2.16.840.1.113883.3.526.3.1254): Added 1 CVX code (186) and deleted 1 CVX code (153).	Value Set	QDM Data Elements	Annual Update
Value set Influenza Vaccination (2.16.840.1.113883.3.526.3.402): Added 1 CPT code (90756).	Value Set	QDM Data Elements	Annual Update
Value set Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1264) including 7 codes.	Value Set	QDM Data Elements	Annual Update
Value set Outpatient Consultation (2.16.840.1.113883.3.464.1003.101.12.1008): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1266) including 3 codes.	Value Set	QDM Data Elements	Annual Update
Value set Nursing Facility Visit (2.16.840.1.113883.3.464.1003.101.12.1012): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1261) including 2 codes.	Value Set	QDM Data Elements	Annual Update
Value set Care Services in Long-Term Residential Facility (2.16.840.1.113883.3.464.1003.101.12.1014): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1262) including 2 codes.	Value Set	QDM Data Elements	Annual Update
Value set Home Healthcare Services (2.16.840.1.113883.3.464.1003.101.12.1016): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1265) including 11 codes.	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update
Value set Face-to-Face Interaction (2.16.840.1.113883.3.464.1003.101.12.1048): Removed Face-to-Face Interaction.	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum

CMS149v7 - Dementia: Cognitive Assessment

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Version Number.	Header	eMeasure Version number	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Updated Disclaimer.	Header	Disclaimer	Measure Lead
Updated Clinical Recommendation Statement.	Header	Clinical Recommendation Statement	Measure Lead
Updated References.	Header	Reference	Measure Lead
Updated Guidance statement regarding two or more visits to remove reference to QDM expression logic.	Header	Guidance	Measure Lead
Added 'AuthorDateTime' attribute to QDM datatypes that include negation rationale: 'Diagnostic, Performed', 'Intervention Performed', 'Encounter, Performed', 'Laboratory Test, Performed', 'Medication, Administered', 'Physical Exam, Performed', 'Procedure, Performed', 'Substance Administered' to conform with QDM 5.3 changes.	Logic	Denominator Exceptions	Standards Update
Added supplemental timing attributes to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Removed the 'Face-To-Face Interaction' data element and added relevant SNOMED codes to the Encounter Grouping value sets to better align between the SNOMED and CPT encounter codes.	Logic	Multiple Sections	Measure Lead
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update
Value set Dementia & Mental Degenerations (2.16.840.1.113883.3.526.3.1005): Deleted 1 SNOMEDCT code (230290000).	Value Set	QDM Data Elements	Annual Update
Value set Patient Reason (2.16.840.1.113883.3.526.3.1008): Deleted 1 SNOMEDCT code (385648002).	Value Set	QDM Data Elements	Annual Update
Value set Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1264) including 7 codes.	Value Set	QDM Data Elements	Annual Update

CMS149v7 - Dementia: Cognitive Assessment

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Value set Outpatient Consultation (2.16.840.1.113883.3.464.1003.101.12.1008): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1266) including 3 codes.	Value Set	QDM Data Elements	Annual Update
Value set Nursing Facility Visit (2.16.840.1.113883.3.464.1003.101.12.1012): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1261) including 2 codes.	Value Set	QDM Data Elements	Annual Update
Value set Care Services in Long-Term Residential Facility (2.16.840.1.113883.3.464.1003.101.12.1014): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1262) including 2 codes.	Value Set	QDM Data Elements	Annual Update
Value set Home Healthcare Services (2.16.840.1.113883.3.464.1003.101.12.1016): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1265) including 11 codes.	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update
Value set Face-to-Face Interaction (2.16.840.1.113883.3.464.1003.101.12.1048): Removed Face-to-Face Interaction.	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum

CMS153v7 - Chlamydia Screening for Women

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Version Number.	Header	eMeasure Version number	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Updated measure header rationale to align with most recent literature.	Header	Rationale	Measure Lead
Updated clinical recommendation statement to align with current recommendations.	Header	Clinical Recommendation Statement	Measure Lead
Updated header references to align with updated rationale and clinical recommendation statement.	Header	Reference	Measure Lead
Updated the Denominator Exclusion statement for patients in hospice care to better align with the logic.	Header	Denominator Exclusions	JIRA (CQM-2815)
Replaced 'Discharge status' attribute with 'Admission Source' and 'Discharge Disposition' attributes for 'Encounter, Performed' and 'Encounter, Active' datatypes to align with QDM 5.3 changes.	Logic	Denominator Exclusions	Standards Update
Added supplemental timing attributes to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Removed the 'Face-To-Face Interaction' data element and added relevant SNOMED codes to the Encounter Grouping value sets to better align between the SNOMED and CPT encounter codes.	Logic	Multiple Sections	Measure Lead
Replaced measure-defined definitions with similar definitions and functions from CQL shared libraries for consistency across measures.	Logic	Multiple Sections	Standards Update
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update
Value set Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1264) including 7 codes.	Value Set	QDM Data Elements	Annual Update
Value set Home Healthcare Services (2.16.840.1.113883.3.464.1003.101.12.1016): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1265) including 11 codes.	Value Set	QDM Data Elements	Annual Update

CMS153v7 - Chlamydia Screening for Women

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Value set Chlamydia Screening (2.16.840.1.113883.3.464.1003.110.12.1052): Added 11 LOINC codes (14467-5, 14474-1, 14513-6, 21191-2, 31775-0, 42931-6, 43405-0, 44806-8, 53925-4, 6357-8, 80360-1) and deleted 4 LOINC codes (45067-6, 45070-0, 45078-3, 45080-9).	Value Set	QDM Data Elements	Annual Update
Value set Procedures During Pregnancy (2.16.840.1.113883.3.464.1003.111.12.1009): Added 3 CPT codes (57022, 58600, 58605). Added 3 SNOMEDCT codes (725927001, 726556001, 732970000).	Value Set	QDM Data Elements	Annual Update
Value set Gonococcal Infections and Venereal Diseases (2.16.840.1.113883.3.464.1003.112.12.1001): Added 1 SNOMEDCT code (186932009). Added 2 ICD10CM codes (A69.8, A69.9).	Value Set	QDM Data Elements	Annual Update
Value set X-Ray Study (all inclusive) (2.16.840.1.113883.3.464.1003.198.12.1034): Added 1666 LOINC codes and deleted 564 LOINC codes.	Value Set	QDM Data Elements	Annual Update
Value set Complications of Pregnancy, Childbirth and the Puerperium (2.16.840.1.113883.3.464.1003.111.12.1012): Deleted 3 SNOMEDCT codes (13010001, 1938002, 200117009). Added 3 ICD10CM codes (N96, Z64.0, Z64.1).	Value Set	QDM Data Elements	Annual Update
Value set Contraceptive Medications (2.16.840.1.113883.3.464.1003.196.12.1080): Deleted 9 RXNORM codes (1013626, 1050492, 1301016, 284207, 602598, 630734, 749854, 978944, 978946).	Value Set	QDM Data Elements	Annual Update
Value set Carrier of Predominantly Sexually Transmitted Infection (2.16.840.1.113883.3.464.1003.112.11.1023): Added Carrier of Predominantly Sexually Transmitted Infection.	Value Set	QDM Data Elements	Annual Update
Value set Genital Herpes (2.16.840.1.113883.3.464.1003.110.12.1049): Deleted 4 ICD9CM codes (054.10, 054.11, 054.12, 054.19).	Value Set	QDM Data Elements	Annual Update
Value set Other Female Reproductive Conditions (2.16.840.1.113883.3.464.1003.111.12.1006): Deleted 43 ICD9CM codes. Deleted 31 ICD10CM codes.	Value Set	QDM Data Elements	Annual Update
Value set Chlamydia (2.16.840.1.113883.3.464.1003.112.12.1003): Deleted 3 ICD9CM codes (078.88, 079.88, 079.98).	Value Set	QDM Data Elements	Annual Update
Value set Inflammatory Diseases of Female Reproductive Organs (2.16.840.1.113883.3.464.1003.112.12.1004): Added 1 SNOMEDCT code (723736005).	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update
Value set Face-to-Face Interaction (2.16.840.1.113883.3.464.1003.101.12.1048): Removed Face-to-Face Interaction.	Value Set	QDM Data Elements	Annual Update
Replaced SNOMEDCT single code value sets with direct referenced codes. A direct referenced code is a single concept code that is used to describe a clinical element directly within the logic. The use of direct referenced codes replaces the need for single code value sets. Measures using other code systems in single value sets may optionally transition to direct referenced codes.	Value Set	QDM Data Elements	Standards Update
Value set Chlamydia Screening (2.16.840.1.113883.3.464.1003.110.12.1052): Added 1 LOINC code (45075-9) and deleted 7 LOINC codes (14470-9, 14471-7, 14509-4, 14510-2, 21189-6, 31771-9, 31772-7).	Value Set	QDM Data Elements	2019 Addendum
Value set Procedures During Pregnancy (2.16.840.1.113883.3.464.1003.111.12.1009): Added 3 SNOMEDCT codes (447771005, 480571000119102, 737099004).	Value Set	QDM Data Elements	2019 Addendum
Value set Pregnancy Test (2.16.840.1.113883.3.464.1003.111.12.1011): Added 1 LOINC code (83086-9) and deleted 1 LOINC code (80385-8).	Value Set	QDM Data Elements	2019 Addendum
Value set Delivery Live Births (2.16.840.1.113883.3.464.1003.111.12.1015): Deleted 6 CPT codes (59412, 59414, 59430, 59525, 59425, 59426). Added 126 SNOMEDCT codes and deleted 21 SNOMEDCT codes.	Value Set	QDM Data Elements	2019 Addendum

CMS153v7 - Chlamydia Screening for Women

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Value set Gonococcal Infections and Venereal Diseases (2.16.840.1.113883.3.464.1003.112.12.1001): Added 5 SNOMEDCT codes (1087021000119101, 1087041000119107, 114881000119108, 16217981000119107, 762257007).	Value Set	QDM Data Elements	2019 Addendum
Value set Syphilis (2.16.840.1.113883.3.464.1003.112.12.1002): Added 1 SNOMEDCT code (736686006).	Value Set	QDM Data Elements	2019 Addendum
Value set Complications of Pregnancy, Childbirth and the Puerperium (2.16.840.1.113883.3.464.1003.111.12.1012): Added 707 SNOMEDCT codes and deleted 96 SNOMEDCT codes.	Value Set	QDM Data Elements	2019 Addendum
Value set Contraceptive Medications (2.16.840.1.113883.3.464.1003.196.12.1080): Added 1 RXNORM code (199568) and deleted 1 RXNORM code (1048440).	Value Set	QDM Data Elements	2019 Addendum
Value set Inflammatory Diseases of Female Reproductive Organs (2.16.840.1.113883.3.464.1003.112.12.1004): Added 13 SNOMEDCT codes.	Value Set	QDM Data Elements	2019 Addendum
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum
Value set X-Ray Study (all inclusive) (2.16.840.1.113883.3.464.1003.198.12.1034): Added 2093 LOINC codes and deleted 6 LOINC codes (24717-1, 30761-1, 37159-1, 38113-7, 38792-8, 38873-6).	Value Set	QDM Data Elements	2019 Addendum
Value set HIV (2.16.840.1.113883.3.464.1003.120.12.1003): Added 58 SNOMEDCT codes.	Value Set	QDM Data Elements	2019 Addendum

CMS154v7 - Appropriate Treatment for Children with Upper Respiratory Infection (URI)

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Version Number.	Header	eMeasure Version number	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Updated measure header rationale to align with most recent literature.	Header	Rationale	Measure Lead
Updated clinical recommendation statement to align with current recommendations.	Header	Clinical Recommendation Statement	Measure Lead
Updated header references to align with updated rationale and clinical recommendation statement.	Header	Reference	Measure Lead
Updated the Denominator Exclusion statement for patients in hospice care to better align with the logic.	Header	Denominator Exclusions	JIRA (CQM-2815)
Replaced 'Discharge status' attribute with 'Admission Source' and 'Discharge Disposition' attributes for 'Encounter, Performed' and 'Encounter, Active' datatypes to align with QDM 5.3 changes.	Logic	Denominator Exclusions	Standards Update
Added supplemental timing attributes to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Removed the 'Face-To-Face Interaction' data element and added relevant SNOMED codes to the Encounter Grouping value sets to better align between the SNOMED and CPT encounter codes.	Logic	Multiple Sections	Measure Lead
Replaced measure-defined definitions with similar definitions and functions from CQL shared libraries for consistency across measures.	Logic	Multiple Sections	Standards Update
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update
Value set Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1264) including 7 codes.	Value Set	QDM Data Elements	Annual Update
Value set Emergency Department Visit (2.16.840.1.113883.3.464.1003.101.12.1010): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1263) including 1 code.	Value Set	QDM Data Elements	Annual Update
Value set Upper Respiratory Infection (2.16.840.1.113883.3.464.1003.102.12.1022): Deleted 1 SNOMEDCT code (54150009).	Value Set	QDM Data Elements	Annual Update

CMS154v7 - Appropriate Treatment for Children with Upper Respiratory Infection (URI)

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Value set Antibiotic Medications for Pharyngitis (2.16.840.1.113883.3.464.1003.196.12.1001): Deleted 5 RXNORM codes (1727174, 226633, 247673, 315209, 835341).	Value Set	QDM Data Elements	Annual Update
Value set Carrier of Predominantly Sexually Transmitted Infection (2.16.840.1.113883.3.464.1003.112.11.1023): Added Carrier of Predominantly Sexually Transmitted Infection.	Value Set	QDM Data Elements	Annual Update
Value set Competing Conditions for Respiratory Conditions (2.16.840.1.113883.3.464.1003.102.12.1017): Added 2 SNOMEDCT codes (186932009, 723736005) and deleted 10 SNOMEDCT codes (12366661000119100, 399095008, 123592004, 187042003, 396284006, 14255005, 197325003, 429553003, 200705000, 6136003). Added 16 ICD10CM codes and deleted 1 ICD10CM code (L08.0).	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update
Value set Face-to-Face Interaction (2.16.840.1.113883.3.464.1003.101.12.1048): Removed Face-to-Face Interaction.	Value Set	QDM Data Elements	Annual Update
Replaced SNOMEDCT single code value sets with direct referenced codes. A direct referenced code is a single concept code that is used to describe a clinical element directly within the logic. The use of direct referenced codes replaces the need for single code value sets. Measures using other code systems in single value sets may optionally transition to direct referenced codes.	Value Set	QDM Data Elements	Standards Update
Value set Antibiotic Medications for Pharyngitis (2.16.840.1.113883.3.464.1003.196.12.1001): Added 8 RXNORM codes (199497, 1996246, 199710, 1998483, 2000127, 2000134, 245838, 310156) and deleted 1 RXNORM code (1662283).	Value Set	QDM Data Elements	2019 Addendum
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum
Value set Competing Conditions for Respiratory Conditions (2.16.840.1.113883.3.464.1003.102.12.1017): Added 80 SNOMEDCT codes and deleted 33 SNOMEDCT codes.	Value Set	QDM Data Elements	2019 Addendum

CMS155v7 - 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 Version Number.	Header	eMeasure Version number	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Updated clinical recommendation statement to align with current recommendations.	Header	Clinical Recommendation Statement	Measure Lead
Updated header references to align with updated rationale and clinical recommendation statement.	Header	Reference	Measure Lead
Updated the Denominator Exclusion statement for patients in hospice care to better align with the logic.	Header	Denominator Exclusions	JIRA (CQM-2815)
Updated the numerator to indicate that counseling should be during the measurement year to align with the HEDIS parent measure.	Header	Numerator	Measure Lead
Replaced 'Discharge status' attribute with 'Admission Source' and 'Discharge Disposition' attributes for 'Encounter, Performed' and 'Encounter, Active' datatypes to align with QDM 5.3 changes.	Logic	Denominator Exclusions	Standards Update
Updated the numerator to indicate that counseling should be during the measurement year to align with the HEDIS parent measure.	Logic	Numerator	Measure Lead
Added supplemental timing attributes to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Removed the 'Face-To-Face Interaction' data element and added relevant SNOMED codes to the Encounter Grouping value sets to better align between the SNOMED and CPT encounter codes.	Logic	Multiple Sections	Measure Lead
Replaced measure-defined definitions with similar definitions and functions from CQL shared libraries for consistency across measures.	Logic	Multiple Sections	Standards Update
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update
Value set Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1264) including 7 codes.	Value Set	QDM Data Elements	Annual Update

CMS155v7 - Weight Assessment and Counseling for Nutrition and Physical Activity for Children and Adolescents

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Value set Home Healthcare Services (2.16.840.1.113883.3.464.1003.101.12.1016): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1265) including 11 codes.	Value Set	QDM Data Elements	Annual Update
Value set Counseling for Physical Activity (2.16.840.1.113883.3.464.1003.118.12.1035): Added 6 SNOMEDCT codes (171356009, 171357000, 171358005, 171359002, 171360007, 171361006).	Value Set	QDM Data Elements	Annual Update
Value set Pregnancy (2.16.840.1.113883.3.526.3.378): Deleted 11 ICD10CM codes (O00.1, O00.10, O00.11, O00.2, O00.20, O00.21, O00.8, O00.9, O33.7, O34.21, Z36).	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update
Value set Face-to-Face Interaction (2.16.840.1.113883.3.464.1003.101.12.1048): Removed Face-to-Face Interaction.	Value Set	QDM Data Elements	Annual Update
Replaced SNOMEDCT single code value sets with direct referenced codes. A direct referenced code is a single concept code that is used to describe a clinical element directly within the logic. The use of direct referenced codes replaces the need for single code value sets. Measures using other code systems in single value sets may optionally transition to direct referenced codes.	Value Set	QDM Data Elements	Standards Update
Value set Counseling for Physical Activity (2.16.840.1.113883.3.464.1003.118.12.1035): Added 4 SNOMEDCT codes (183073003, 429778002, 435551000124105, 710849009) and deleted 12 SNOMEDCT codes.	Value Set	QDM Data Elements	2019 Addendum
Value set Counseling for Nutrition (2.16.840.1.113883.3.464.1003.195.12.1003): Added 46 SNOMEDCT codes and deleted 23 SNOMEDCT codes.	Value Set	QDM Data Elements	2019 Addendum
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum

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Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Version Number.	Header	eMeasure Version number	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Updated measure header rationale to align with most recent literature.	Header	Rationale	Measure Lead
Updated header references to align with updated rationale and clinical recommendation statement.	Header	Reference	Measure Lead
Added 'of the' to the last sentence of the first paragraph under guidance to more accurately reflect the numerator intent.	Header	Guidance	Measure Lead
Updated the Denominator Exclusion statement for patients in hospice care to better align with the logic.	Header	Denominator Exclusions	JIRA (CQM-2815)
Replaced 'Discharge status' attribute with 'Admission Source' and 'Discharge Disposition' attributes for 'Encounter, Performed' and 'Encounter, Active' datatypes to align with QDM 5.3 changes.	Logic	Denominator Exclusions	Standards Update
Removed 'Cumulative Medication Duration' datatype to conform with QDM 5.3 changes. The concept of cumulative medication duration can now be expressed using CQL logic.	Logic	Numerator	Standards Update
Added supplemental timing attributes to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Replaced measure-defined definitions with similar definitions and functions from CQL shared libraries for consistency across measures.	Logic	Multiple Sections	Standards Update
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update
Value set Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1264) including 7 codes.	Value Set	QDM Data Elements	Annual Update
Value set Home Healthcare Services (2.16.840.1.113883.3.464.1003.101.12.1016): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1265) including 11 codes.	Value Set	QDM Data Elements	Annual Update
Value set Acetaminophen / Dextromethorphan / Doxylamine / Phenylephrine (2.16.840.1.113883.3.464.1003.196.12.1287): Deleted 1 RXNORM code (1657147).	Value Set	QDM Data Elements	Annual Update

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Technical Release Notes	Type of TRN	Measure Section	Source of Change
Value set Acetaminophen / Chlorpheniramine / Dextromethorphan / Phenylephrine (2.16.840.1.113883.3.464.1003.196.12.1310): Deleted 1 RXNORM code (1537029).	Value Set	QDM Data Elements	Annual Update
Value set Brompheniramine / Dextromethorphan / Phenylephrine (2.16.840.1.113883.3.464.1003.196.12.1325): Added 1 RXNORM code (1423702).	Value Set	QDM Data Elements	Annual Update
Value set Acetaminophen / Diphenhydramine (2.16.840.1.113883.3.464.1003.196.12.1350): Deleted 1 RXNORM code (1294607).	Value Set	QDM Data Elements	Annual Update
Value set Estradiol / Norgestimate Biphasic (2.16.840.1.113883.3.464.1003.196.12.1396): Removed Estradiol / Norgestimate Biphasic.	Value Set	QDM Data Elements	Annual Update
Value set Dexbrompheniramine / Dextromethorphan / Phenylephrine (2.16.840.1.113883.3.464.1003.196.12.1426): Added 2 RXNORM codes (1812101, 1946979).	Value Set	QDM Data Elements	Annual Update
Value set Dexbrompheniramine / Pseudoephedrine (2.16.840.1.113883.3.464.1003.196.12.1430): Added 2 RXNORM codes (1299143, 1363513).	Value Set	QDM Data Elements	Annual Update
Value set Chlorpheniramine / Dihydrocodeine / Phenylephrine (2.16.840.1.113883.3.464.1003.196.12.1434): Removed Chlorpheniramine / Dihydrocodeine / Phenylephrine.	Value Set	QDM Data Elements	Annual Update
Value set Brompheniramine / Codeine (2.16.840.1.113883.3.464.1003.196.12.1455): Removed Brompheniramine / Codeine.	Value Set	QDM Data Elements	Annual Update
Value set Estradiol / Levonorgestrel (2.16.840.1.113883.3.464.1003.196.12.1483): Removed Estradiol / Levonorgestrel.	Value Set	QDM Data Elements	Annual Update
Value set Conjugated Estrogens (2.16.840.1.113883.3.464.1003.196.12.1357): Deleted 2 RXNORM codes (310205, 351228).	Value Set	QDM Data Elements	Annual Update
Value set High Risk Medications for the Elderly (2.16.840.1.113883.3.464.1003.196.12.1253): Added RXNORM extensional value set (2.16.840.1.113883.3.464.1003.196.11.1504) including 4 codes. Added 72 RXNORM codes and deleted 92 RXNORM codes.	Value Set	QDM Data Elements	Annual Update
Value set List of Single RxNorm Code Concepts for High Risk Drugs for the Elderly (2.16.840.1.113883.3.464.1003.196.12.1272): Added List of Single RxNorm Code Concepts for High Risk Drugs for the Elderly.	Value Set	QDM Data Elements	Annual Update
Value set Atropine / Diphenoxylate (2.16.840.1.113883.3.464.1003.196.12.1274): Added Atropine / Diphenoxylate.	Value Set	QDM Data Elements	Annual Update
Value set Amoxapine (2.16.840.1.113883.3.464.1003.196.12.1273): Added Amoxapine.	Value Set	QDM Data Elements	Annual Update
Value set Cyproheptadine (2.16.840.1.113883.3.464.1003.196.12.1277): Added Cyproheptadine.	Value Set	QDM Data Elements	Annual Update
Value set Desipramine (2.16.840.1.113883.3.464.1003.196.12.1278): Added Desipramine.	Value Set	QDM Data Elements	Annual Update
Value set Dicyclomine (2.16.840.1.113883.3.464.1003.196.12.1279): Added Dicyclomine.	Value Set	QDM Data Elements	Annual Update
Value set Dimenhydrinate (2.16.840.1.113883.3.464.1003.196.12.1500): Added Dimenhydrinate.	Value Set	QDM Data Elements	Annual Update
Value set Hyoscyamine (2.16.840.1.113883.3.464.1003.196.12.1501): Added Hyoscyamine.	Value Set	QDM Data Elements	Annual Update
Value set Hyoscyamine / Methenamine / Mblue / Phenyl Salicyl (2.16.840.1.113883.3.464.1003.196.12.1503): Added Hyoscyamine / Methenamine / Mblue / Phenyl Salicyl.	Value Set	QDM Data Elements	Annual Update
Value set Hyoscyamine / Methenamine / Mblue / Phenyl Salicyl / Sodium Biphosphate (2.16.840.1.113883.3.464.1003.196.12.1504): Added Hyoscyamine / Methenamine / Mblue / Phenyl Salicyl / Sodium Biphosphate.	Value Set	QDM Data Elements	Annual Update
Value set Hyoscyamine / Methenamine / Mblue / Sodium Biphosphate (2.16.840.1.113883.3.464.1003.196.12.1505): Added Hyoscyamine / Methenamine / Mblue / Sodium Biphosphate.	Value Set	QDM Data Elements	Annual Update

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Technical Release Notes	Type of TRN	Measure Section	Source of Change
Value set Meclizine (2.16.840.1.113883.3.464.1003.196.12.1506): Added Meclizine.	Value Set	QDM Data Elements	Annual Update
Value set Nortriptyline (2.16.840.1.113883.3.464.1003.196.12.1507): Added Nortriptyline.	Value Set	QDM Data Elements	Annual Update
Value set Paroxetine (2.16.840.1.113883.3.464.1003.196.12.1508): Added Paroxetine.	Value Set	QDM Data Elements	Annual Update
Value set Protriptyline (2.16.840.1.113883.3.464.1003.196.12.1509): Added Protriptyline.	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update
Value set Face-to-Face Interaction (2.16.840.1.113883.3.464.1003.101.12.1048): Removed Face-to-Face Interaction.	Value Set	QDM Data Elements	Annual Update
Value set Thioridazine (2.16.840.1.113883.3.464.1003.196.12.1344): Removed Thioridazine.	Value Set	QDM Data Elements	Annual Update
Value set Acetaminophen / Dextromethorphan / Doxylamine / Pseudoephedrine (2.16.840.1.113883.3.464.1003.196.12.1329): Removed Acetaminophen / Dextromethorphan / Doxylamine / Pseudoephedrine.	Value Set	QDM Data Elements	Annual Update
Value set Brompheniramine / Chlophedianol / Phenylephrine (2.16.840.1.113883.3.464.1003.196.12.1445): Removed Brompheniramine / Chlophedianol / Phenylephrine.	Value Set	QDM Data Elements	Annual Update
Value set Carbetapentane / Chlorpheniramine / Ephedrine / Phenylephrine (2.16.840.1.113883.3.464.1003.196.12.1420): Removed Carbetapentane / Chlorpheniramine / Ephedrine / Phenylephrine.	Value Set	QDM Data Elements	Annual Update
Value set Carbetapentane / Chlorpheniramine / Phenylephrine (2.16.840.1.113883.3.464.1003.196.12.1472): Removed Carbetapentane / Chlorpheniramine / Phenylephrine.	Value Set	QDM Data Elements	Annual Update
Value set Chlorpheniramine / Codeine / Pseudoephedrine (2.16.840.1.113883.3.464.1003.196.12.1446): Removed Chlorpheniramine / Codeine / Pseudoephedrine.	Value Set	QDM Data Elements	Annual Update
Value set Chlorpheniramine / Dextromethorphan (2.16.840.1.113883.3.464.1003.196.12.1296): Removed Chlorpheniramine / Dextromethorphan.	Value Set	QDM Data Elements	Annual Update
Value set Codeine / Pseudoephedrine / Triprolidine (2.16.840.1.113883.3.464.1003.196.12.1431): Removed Codeine / Pseudoephedrine / Triprolidine.	Value Set	QDM Data Elements	Annual Update
Value set Dexchlorpheniramine (2.16.840.1.113883.3.464.1003.196.12.1391): Removed Dexchlorpheniramine.	Value Set	QDM Data Elements	Annual Update
Value set Mephobarbital (2.16.840.1.113883.3.464.1003.196.12.1413): Removed Mephobarbital.	Value Set	QDM Data Elements	Annual Update
Value set Trimethobenzamide (2.16.840.1.113883.3.464.1003.196.12.1335): Removed Trimethobenzamide.	Value Set	QDM Data Elements	Annual Update
Value set Acetaminophen / Aspirin / Diphenhydramine (2.16.840.1.113883.3.464.1003.196.12.1388): Removed Acetaminophen / Aspirin / Diphenhydramine.	Value Set	QDM Data Elements	Annual Update
Value set Acetaminophen / Brompheniramine (2.16.840.1.113883.3.464.1003.196.12.1389): Removed Acetaminophen / Brompheniramine.	Value Set	QDM Data Elements	Annual Update
Value set Acetaminophen / Chlorpheniramine (2.16.840.1.113883.3.464.1003.196.12.1289): Removed Acetaminophen / Chlorpheniramine.	Value Set	QDM Data Elements	Annual Update
Value set Acetaminophen / Chlorpheniramine / Dextromethorphan / Guaifenesin (2.16.840.1.113883.3.464.1003.196.12.1383): Removed Acetaminophen / Chlorpheniramine / Dextromethorphan / Guaifenesin.	Value Set	QDM Data Elements	Annual Update
Value set Acetaminophen / Dextromethorphan / Diphenhydramine (2.16.840.1.113883.3.464.1003.196.12.1441): Removed Acetaminophen / Dextromethorphan / Diphenhydramine.	Value Set	QDM Data Elements	Annual Update

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Technical Release Notes	Type of TRN	Measure Section	Source of Change
Value set Acetaminophen / Diphenhydramine / Pseudoephedrine (2.16.840.1.113883.3.464.1003.196.12.1378): Removed Acetaminophen / Diphenhydramine / Pseudoephedrine.	Value Set	QDM Data Elements	Annual Update
Value set Acetaminophen / Doxylamine / Phenylephrine (2.16.840.1.113883.3.464.1003.196.12.1400): Removed Acetaminophen / Doxylamine / Phenylephrine.	Value Set	QDM Data Elements	Annual Update
Value set Amobarbital (2.16.840.1.113883.3.464.1003.196.12.1297): Removed Amobarbital.	Value Set	QDM Data Elements	Annual Update
Value set Aspirin / Butalbital / Caffeine / Codeine (2.16.840.1.113883.3.464.1003.196.12.1322): Removed Aspirin / Butalbital / Caffeine / Codeine.	Value Set	QDM Data Elements	Annual Update
Value set Aspirin / Carisoprodol (2.16.840.1.113883.3.464.1003.196.12.1313): Removed Aspirin / Carisoprodol.	Value Set	QDM Data Elements	Annual Update
Value set Aspirin / Carisoprodol / Codeine (2.16.840.1.113883.3.464.1003.196.12.1305): Removed Aspirin / Carisoprodol / Codeine.	Value Set	QDM Data Elements	Annual Update
Value set Aspirin / Chlorpheniramine / Phenylephrine (2.16.840.1.113883.3.464.1003.196.12.1380): Removed Aspirin / Chlorpheniramine / Phenylephrine.	Value Set	QDM Data Elements	Annual Update
Value set Aspirin / Diphenhydramine Citrate (2.16.840.1.113883.3.464.1003.196.12.1376): Removed Aspirin / Diphenhydramine Citrate.	Value Set	QDM Data Elements	Annual Update
Value set Aspirin / Meprobamate (2.16.840.1.113883.3.464.1003.196.12.1394): Removed Aspirin / Meprobamate.	Value Set	QDM Data Elements	Annual Update
Value set Atropine / Chlorpheniramine / Hyoscyamine / Pseudoephedrine / Scopolamine (2.16.840.1.113883.3.464.1003.196.12.1411): Removed Atropine / Chlorpheniramine / Hyoscyamine / Pseudoephedrine / Scopolamine.	Value Set	QDM Data Elements	Annual Update
Value set Bazedoxifene / Conjugated Estrogens (2.16.840.1.113883.3.464.1003.196.12.1386): Removed Bazedoxifene / Conjugated Estrogens.	Value Set	QDM Data Elements	Annual Update
Value set Brompheniramine / Chlophedianol / Pseudoephedrine (2.16.840.1.113883.3.464.1003.196.12.1443): Removed Brompheniramine / Chlophedianol / Pseudoephedrine.	Value Set	QDM Data Elements	Annual Update
Value set Chlophedianol / Dexbrompheniramine / Pseudoephedrine (2.16.840.1.113883.3.464.1003.196.12.1440): Removed Chlophedianol / Dexbrompheniramine / Pseudoephedrine.	Value Set	QDM Data Elements	Annual Update
Value set Chlorpheniramine / Codeine / Phenylephrine (2.16.840.1.113883.3.464.1003.196.12.1439): Removed Chlorpheniramine / Codeine / Phenylephrine.	Value Set	QDM Data Elements	Annual Update
Value set Codeine / Dexbrompheniramine / Pseudoephedrine (2.16.840.1.113883.3.464.1003.196.12.1437): Removed Codeine / Dexbrompheniramine / Pseudoephedrine.	Value Set	QDM Data Elements	Annual Update
Value set Codeine / Dexchlorpheniramine / Phenylephrine (2.16.840.1.113883.3.464.1003.196.12.1433): Removed Codeine / Dexchlorpheniramine / Phenylephrine.	Value Set	QDM Data Elements	Annual Update
Value set Codeine / Phenylephrine / Promethazine (2.16.840.1.113883.3.464.1003.196.12.1291): Removed Codeine / Phenylephrine / Promethazine.	Value Set	QDM Data Elements	Annual Update
Value set Codeine / Promethazine (2.16.840.1.113883.3.464.1003.196.12.1340): Removed Codeine / Promethazine.	Value Set	QDM Data Elements	Annual Update
Value set Dexbrompheniramine / Dextromethorphan / Pseudoephedrine (2.16.840.1.113883.3.464.1003.196.12.1438): Removed Dexbrompheniramine / Dextromethorphan / Pseudoephedrine.	Value Set	QDM Data Elements	Annual Update

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Value set Dexbrompheniramine / Phenylephrine (2.16.840.1.113883.3.464.1003.196.12.1384): Removed Dexbrompheniramine / Phenylephrine.	Value Set	QDM Data Elements	Annual Update
Value set Dexchlorpheniramine / Phenylephrine (2.16.840.1.113883.3.464.1003.196.12.1403): Removed Dexchlorpheniramine / Phenylephrine.	Value Set	QDM Data Elements	Annual Update
Value set Dextromethorphan / Doxylamine / Pseudoephedrine (2.16.840.1.113883.3.464.1003.196.12.1444): Removed Dextromethorphan / Doxylamine / Pseudoephedrine.	Value Set	QDM Data Elements	Annual Update
Value set Dextromethorphan / Promethazine (2.16.840.1.113883.3.464.1003.196.12.1314): Removed Dextromethorphan / Promethazine.	Value Set	QDM Data Elements	Annual Update
Value set Diphenhydramine / Magnesium Salicylate (2.16.840.1.113883.3.464.1003.196.12.1395): Removed Diphenhydramine / Magnesium Salicylate.	Value Set	QDM Data Elements	Annual Update
Value set Diphenhydramine / Naproxen (2.16.840.1.113883.3.464.1003.196.12.1406): Removed Diphenhydramine / Naproxen.	Value Set	QDM Data Elements	Annual Update
Value set Diphenhydramine / Pseudoephedrine (2.16.840.1.113883.3.464.1003.196.12.1392): Removed Diphenhydramine / Pseudoephedrine.	Value Set	QDM Data Elements	Annual Update
Value set Doxylamine (2.16.840.1.113883.3.464.1003.196.12.1290): Removed Doxylamine.	Value Set	QDM Data Elements	Annual Update
Value set Doxylamine / Phenylephrine (2.16.840.1.113883.3.464.1003.196.12.1387): Removed Doxylamine / Phenylephrine.	Value Set	QDM Data Elements	Annual Update
Value set Doxylamine / Pseudoephedrine (2.16.840.1.113883.3.464.1003.196.12.1448): Removed Doxylamine / Pseudoephedrine.	Value Set	QDM Data Elements	Annual Update
Value set Doxylamine / Pyridoxine (2.16.840.1.113883.3.464.1003.196.12.1379): Removed Doxylamine / Pyridoxine.	Value Set	QDM Data Elements	Annual Update
Value set Ergoloid Mesylates (2.16.840.1.113883.3.464.1003.196.12.1288): Removed Ergoloid Mesylates.	Value Set	QDM Data Elements	Annual Update
Value set Meperidine / Promethazine (2.16.840.1.113883.3.464.1003.196.12.1393): Removed Meperidine / Promethazine.	Value Set	QDM Data Elements	Annual Update
Value set Naloxone / Pentazocine (2.16.840.1.113883.3.464.1003.196.12.1346): Removed Naloxone / Pentazocine.	Value Set	QDM Data Elements	Annual Update
Value set Orphenadrine (2.16.840.1.113883.3.464.1003.196.12.1356): Removed Orphenadrine.	Value Set	QDM Data Elements	Annual Update
Value set Pentazocine (2.16.840.1.113883.3.464.1003.196.12.1407): Removed Pentazocine.	Value Set	QDM Data Elements	Annual Update
Value set Pentobarbital (2.16.840.1.113883.3.464.1003.196.12.1401): Removed Pentobarbital.	Value Set	QDM Data Elements	Annual Update
Value set Phenylephrine / Promethazine (2.16.840.1.113883.3.464.1003.196.12.1294): Removed Phenylephrine / Promethazine.	Value Set	QDM Data Elements	Annual Update
Value set Phenylephrine / Triprolidine (2.16.840.1.113883.3.464.1003.196.12.1385): Removed Phenylephrine / Triprolidine.	Value Set	QDM Data Elements	Annual Update
Value set Secobarbital (2.16.840.1.113883.3.464.1003.196.12.1298): Removed Secobarbital.	Value Set	QDM Data Elements	Annual Update
Value set Ticlopidine (2.16.840.1.113883.3.464.1003.196.12.1304): Removed Ticlopidine.	Value Set	QDM Data Elements	Annual Update
Value set Nursing Facility Visit (2.16.840.1.113883.3.464.1003.101.12.1012): Added Nursing Facility Visit.	Value Set	QDM Data Elements	Annual Update
Value set Care Services in Long-Term Residential Facility (2.16.840.1.113883.3.464.1003.101.12.1014): Added Care Services in Long-Term Residential Facility.	Value Set	QDM Data Elements	Annual Update
Value set Discharge Services - Nursing Facility (2.16.840.1.113883.3.464.1003.101.12.1013): Added Discharge Services - Nursing Facility.	Value Set	QDM Data Elements	Annual Update

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Technical Release Notes	Type of TRN	Measure Section	Source of Change
Replaced SNOMEDCT single code value sets with direct referenced codes. A direct referenced code is a single concept code that is used to describe a clinical element directly within the logic. The use of direct referenced codes replaces the need for single code value sets. Measures using other code systems in single value sets may optionally transition to direct referenced codes.	Value Set	QDM Data Elements	Standards Update
Value set Acetaminophen / Dextromethorphan / Doxylamine / Phenylephrine (2.16.840.1.113883.3.464.1003.196.12.1287): Added 1 RXNORM code (1492380).	Value Set	QDM Data Elements	2019 Addendum
Value set Acetaminophen / Diphenhydramine / Phenylephrine (2.16.840.1.113883.3.464.1003.196.12.1318): Added 1 RXNORM code (1804449).	Value Set	QDM Data Elements	2019 Addendum
Value set Chlorpheniramine / Phenylephrine (2.16.840.1.113883.3.464.1003.196.12.1343): Added 1 RXNORM code (1876117).	Value Set	QDM Data Elements	2019 Addendum
Value set Phenobarbital (2.16.840.1.113883.3.464.1003.196.12.1348): Added 2 RXNORM codes (199407, 245385).	Value Set	QDM Data Elements	2019 Addendum
Value set Indomethacin (2.16.840.1.113883.3.464.1003.196.12.1366): Added 1 RXNORM code (247069).	Value Set	QDM Data Elements	2019 Addendum
Value set Dextromethorphan / Diphenhydramine / Phenylephrine (2.16.840.1.113883.3.464.1003.196.12.1397): Added 1 RXNORM code (1666116).	Value Set	QDM Data Elements	2019 Addendum
Value set List of Single RxNorm Code Concepts for High Risk Drugs for the Elderly (2.16.840.1.113883.3.464.1003.196.12.1272): Added 1 RXNORM code (1666116).	Value Set	QDM Data Elements	2019 Addendum
Value set High Risk Medications for the Elderly (2.16.840.1.113883.3.464.1003.196.12.1253): Added 7 RXNORM codes (199407, 245385, 1492380, 1804449, 1876117, 247069, 1666116).	Value Set	QDM Data Elements	2019 Addendum
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum

CMS157v7 - Oncology: Medical and Radiation – Pain Intensity Quantified

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Version Number.	Header	eMeasure Version number	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Updated Disclaimer.	Header	Disclaimer	Measure Lead
Added Rate Aggregation instruction to highlight the difference between the two populations, which includes guidance on calculating a single performance rate.	Header	Rate Aggregation	Measure Lead
Updated Rationale.	Header	Rationale	Measure Lead
Updated Clinical Recommendation Statement.	Header	Clinical Recommendation Statement	Measure Lead
Updated Reference.	Header	Reference	Measure Lead
Updated Guidance to provide clarification on patients receiving chemotherapy.	Header	Guidance	Measure Lead
Added supplemental timing attributes to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Removed the 'Face-To-Face Interaction' data element and added relevant SNOMED codes to the Encounter Grouping value sets to better align between the SNOMED and CPT encounter codes.	Logic	Multiple Sections	Measure Lead
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update
Split population criteria into two separate populations: patients who are currently receiving chemotherapy, and patients who are currently receiving radiation therapy. This will ensure measure performance is assessed at the appropriate types of encounters.	Logic	Multiple Sections	Measure Lead
Value set Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1264) including 7 codes.	Value Set	QDM Data Elements	Annual Update
Value set Cancer (2.16.840.1.113883.3.526.3.1010): Deleted 1 SNOMEDCT code (81000119104).	Value Set	QDM Data Elements	Annual Update

CMS157v7 - Oncology: Medical and Radiation – Pain Intensity Quantified

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update
Value set Face-to-Face Interaction (2.16.840.1.113883.3.464.1003.101.12.1048): Removed Face-to-Face Interaction.	Value Set	QDM Data Elements	Annual Update
Value set Cancer (2.16.840.1.113883.3.526.3.1010): Added 1 SNOMEDCT code (735332000) and deleted 1 SNOMEDCT code (86406008).	Value Set	QDM Data Elements	2019 Addendum
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum

CMS159v7 - Depression Remission at Twelve Months

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Version Number.	Header	eMeasure Version number	Measure Lead
Added an adolescent population (12 to 17 years of age) to the measure and stratification of the denominator population (Strata 1: 12 to 17 years of age and Strata 2: 18 years of age and older) to better align with measure intent.	Header	Description	Measure Lead
Expanded the reassessment window to 12 months +/- 60 days due to the challenges in providing following up for patients with depression.	Header	Description	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Added an adolescent population (12 to 17 years of age) to the measure and stratification of the denominator population (Strata 1: 12 to 17 years of age and Strata 2: 18 years of age and older) to better align with measure intent.	Header	Stratification	Measure Lead
Added an adolescent population (12 to 17 years of age) to the measure and stratification of the denominator population (Strata 1: 12 to 17 years of age and Strata 2: 18 years of age and older) to better align with measure intent.	Header	Rationale	Measure Lead
Added an adolescent population (12 to 17 years of age) to the measure and stratification of the denominator population (Strata 1: 12 to 17 years of age and Strata 2: 18 years of age and older) to better align with measure intent.	Header	Clinical Recommendation Statement	Measure Lead
Added an adolescent population (12 to 17 years of age) to the measure and stratification of the denominator population (Strata 1: 12 to 17 years of age and Strata 2: 18 years of age and older) to better align with measure intent.	Header	Reference	Measure Lead
Expanded the reassessment window to 12 months +/- 60 days due to the challenges in providing following up for patients with depression.	Header	Definition	Measure Lead
Added an adolescent population (12 to 17 years of age) to the measure and stratification of the denominator population (Strata 1: 12 to 17 years of age and Strata 2: 18 years of age and older) to better align with measure intent.	Header	Initial Population	Measure Lead
Added an adolescent population (12 to 17 years of age) to the measure and stratification of the denominator population (Strata 1: 12 to 17 years of age and Strata 2: 18 years of age and older) to better align with measure intent.	Header	Numerator	Measure Lead
Expanded the reassessment window to 12 months +/- 60 days due to the challenges in providing following up for patients with depression.	Header	Numerator	Measure Lead
Removed the use of the 'Principal Diagnosis' attribute for the Psychiatric Visit. Added diagnoses of Schizophrenia or Psychotic Disorder and Pervasive Developmental Disorder to Denominator Exclusions. This change allows more accurate identification of the patient population.	Logic	Initial Population	JIRA (CQM-2578)
Replaced the Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001), Psych Visit (2.16.840.113883.3.67.1.101.3.2445) and Face to Face Interaction – No ED (2.16.840.1.113762.1.4.1080.1) value sets with the new Contact or Office Visit (2.16.840.1.113762.1.4.1080.5) value set to more accurately identify encounters with patients being treated for depression.	Logic	Initial Population	Measure Lead
Removed the use of the 'Principal Diagnosis' attribute for the Psychiatric Visit. Added diagnoses of Schizophrenia or Psychotic Disorder and Pervasive Developmental Disorder to Denominator Exclusions. This change allows more accurate identification of the patient population.	Logic	Denominator	JIRA (CQM-2578)

CMS159v7 - Depression Remission at Twelve Months

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Replaced the Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001), Psych Visit (2.16.840.113883.3.67.1.101.3.2445) and Face to Face Interaction – No ED (2.16.840.1.113762.1.4.1080.1) value sets with the new Contact or Office Visit (2.16.840.1.113762.1.4.1080.5) value set to more accurately identify encounters with patients being treated for depression.	Logic	Denominator	Measure Lead
Expanded the reassessment window to 12 months +/- 60 days due to the challenges in providing following up for patients with depression.	Logic	Denominator Exclusions	Measure Lead
Removed the use of the 'Principal Diagnosis' attribute for the Psychiatric Visit. Added diagnoses of Schizophrenia or Psychotic Disorder and Pervasive Developmental Disorder to Denominator Exclusions. This change allows more accurate identification of the patient population.	Logic	Denominator Exclusions	JIRA (CQM-2578)
Replaced the Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001), Psych Visit (2.16.840.113883.3.67.1.101.3.2445) and Face to Face Interaction – No ED (2.16.840.1.113762.1.4.1080.1) value sets with the new Contact or Office Visit (2.16.840.1.113762.1.4.1080.5) value set to more accurately identify encounters with patients being treated for depression.	Logic	Denominator Exclusions	Measure Lead
Expanded the reassessment window to 12 months +/- 60 days due to the challenges in providing following up for patients with depression.	Logic	Numerator	Measure Lead
Added an adolescent population (12 to 17 years of age) to the measure and stratification of the denominator population (Strata 1: 12 to 17 years of age and Strata 2: 18 years of age and older) to better align with measure intent.	Logic	Stratification	Measure Lead
Removed the use of the 'Principal Diagnosis' attribute for the Psychiatric Visit. Added diagnoses of Schizophrenia or Psychotic Disorder and Pervasive Developmental Disorder to Denominator Exclusions. This change allows more accurate identification of the patient population.	Logic	Stratification	JIRA (CQM-2578)
Replaced the Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001), Psych Visit (2.16.840.113883.3.67.1.101.3.2445) and Face to Face Interaction – No ED (2.16.840.1.113762.1.4.1080.1) value sets with the new Contact or Office Visit (2.16.840.1.113762.1.4.1080.5) value set to more accurately identify encounters with patients being treated for depression.	Logic	Stratification	Measure Lead
Added supplemental timing attributes to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update

CMS159v7 - Depression Remission at Twelve Months

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Replaced measure-defined definitions with similar definitions and functions from CQL shared libraries for consistency across measures.	Logic	Multiple Sections	Standards Update
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update
Value set Care Services in Long-Term Residential Facility (2.16.840.1.113883.3.464.1003.101.12.1014): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1262) including 2 codes.	Value Set	QDM Data Elements	Annual Update
Value set Major Depression Including Remission (2.16.840.113883.3.67.1.101.3.2444): Added 4 SNOMEDCT codes (16265951000119109, 16266831000119100, 16266991000119108, 726772006).	Value Set	QDM Data Elements	Annual Update
Value set Personality Disorder (2.16.840.1.113883.3.67.1.101.1.246): Deleted 17 ICD9CM codes. Deleted 10 ICD10CM codes (F21, F60.0, F60.1, F60.2, F60.5, F60.6, F60.7, F60.81, F60.89, F60.9). Deleted 24 SNOMEDCT codes, 17 ICD9 codes, and 10 ICD10 codes.	Value Set	QDM Data Elements	Annual Update
Value set Contact or Office Visit (2.16.840.1.113762.1.4.1080.5): Added Contact or Office Visit.	Value Set	QDM Data Elements	Annual Update
Value set Schizophrenia or Psychotic Disorder (2.16.840.1.113883.3.464.1003.105.12.1104): Added Schizophrenia or Psychotic Disorder.	Value Set	QDM Data Elements	Annual Update
Value set Pervasive Developmental Disorder (2.16.840.1.113883.3.464.1003.105.12.1152): Added Pervasive Developmental Disorder.	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update
Replaced the Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001), Psych Visit (2.16.840.113883.3.67.1.101.3.2445) and Face to Face Interaction – No ED (2.16.840.1.113762.1.4.1080.1) value sets with the new Contact or Office Visit (2.16.840.1.113762.1.4.1080.5) value set to more accurately identify encounters with patients being treated for depression.	Value Set	QDM Data Elements	Measure Lead
Replaced LOINC single code value sets with direct referenced codes. A direct referenced code is a single concept code that is used to describe a clinical element directly within the logic. The use of direct referenced codes replaces the need for single code value sets. Measures using other code systems in single value sets may optionally transition to direct referenced codes.	Value Set	QDM Data Elements	Standards Update
Value set Schizophrenia or Psychotic Disorder (2.16.840.1.113883.3.464.1003.105.12.1104): Added 3 SNOMEDCT codes (191536002, 191537006, 191540006).	Value Set	QDM Data Elements	2019 Addendum
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum
Value set Major Depression Including Remission (2.16.840.113883.3.67.1.101.3.2444): Added 2 SNOMEDCT codes (10811121000119102, 10811161000119107).	Value Set	QDM Data Elements	2019 Addendum

CMS160v7 - Depression Utilization of the PHQ-9 Tool

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Version Number.	Header	eMeasure Version number	Measure Lead
Replaced qualifying visit, with qualifying depression encounter in the Measure Description to better align with measure intent.	Header	Description	Measure Lead
Added an adolescent population (12 to 17 years of age) to the measure and stratification of the denominator population (Strata 1: 12 to 17 years of age and Strata 2: 18 years of age and older) to better align with measure intent.	Header	Description	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Added an adolescent population (12 to 17 years of age) to the measure and stratification of the denominator population (Strata 1: 12 to 17 years of age and Strata 2: 18 years of age and older) to better align with measure intent.	Header	Stratification	Measure Lead
Added an adolescent population (12 to 17 years of age) to the measure and stratification of the denominator population (Strata 1: 12 to 17 years of age and Strata 2: 18 years of age and older) to better align with measure intent.	Header	Rationale	Measure Lead
Added an adolescent population (12 to 17 years of age) to the measure and stratification of the denominator population (Strata 1: 12 to 17 years of age and Strata 2: 18 years of age and older) to better align with measure intent.	Header	Clinical Recommendation Statement	Measure Lead
Added an adolescent population (12 to 17 years of age) to the measure and stratification of the denominator population (Strata 1: 12 to 17 years of age and Strata 2: 18 years of age and older) to better align with measure intent.	Header	Reference	Measure Lead
Added an adolescent population (12 to 17 years of age) to the measure and stratification of the denominator population (Strata 1: 12 to 17 years of age and Strata 2: 18 years of age and older) to better align with measure intent.	Header	Initial Population	Measure Lead
Added an adolescent population (12 to 17 years of age) to the measure and stratification of the denominator population (Strata 1: 12 to 17 years of age and Strata 2: 18 years of age and older) to better align with measure intent.	Header	Numerator	Measure Lead
Added an adolescent population (12 to 17 years of age) to the measure and stratification of the denominator population (Strata 1: 12 to 17 years of age and Strata 2: 18 years of age and older) to better align with measure intent.	Logic	Initial Population	Measure Lead
Removed the use of the 'Principal Diagnosis' attribute for the Psychiatric Visit. Added diagnoses of Schizophrenia or Psychotic Disorder and Pervasive Developmental Disorder to Denominator Exclusions. This change allows more accurate identification of the patient population.	Logic	Initial Population	JIRA (CQM-2613)
Replaced the Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001), Psych Visit (2.16.840.113883.3.67.1.101.3.2445) and Face to Face Interaction – No ED (2.16.840.1.113762.1.4.1080.1) value sets with the new Contact or Office Visit (2.16.840.1.113762.1.4.1080.5) value set to more accurately identify encounters with patients being treated for depression.	Logic	Initial Population	Measure Lead
Removed the use of the 'Principal Diagnosis' attribute for the Psychiatric Visit. Added diagnoses of Schizophrenia or Psychotic Disorder and Pervasive Developmental Disorder to Denominator Exclusions. This change allows more accurate identification of the patient population.	Logic	Denominator	JIRA (CQM-2613)
Replaced the Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001), Psych Visit (2.16.840.113883.3.67.1.101.3.2445) and Face to Face Interaction – No ED (2.16.840.1.113762.1.4.1080.1) value sets with the new Contact or Office Visit (2.16.840.1.113762.1.4.1080.5) value set to more accurately identify encounters with patients being treated for depression.	Logic	Denominator	Measure Lead

CMS160v7 - Depression Utilization of the PHQ-9 Tool

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Modified the relationship logic of the denominator exclusions so they are associated with the respective encounter or 4-month assessment period to better align with measure intent.	Logic	Denominator Exclusions	Measure Lead
Removed the use of the 'Principal Diagnosis' attribute for the Psychiatric Visit. Added diagnoses of Schizophrenia or Psychotic Disorder and Pervasive Developmental Disorder to Denominator Exclusions. This change allows more accurate identification of the patient population.	Logic	Denominator Exclusions	JIRA (CQM-2613)
Replaced the Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001), Psych Visit (2.16.840.113883.3.67.1.101.3.2445) and Face to Face Interaction – No ED (2.16.840.1.113762.1.4.1080.1) value sets with the new Contact or Office Visit (2.16.840.1.113762.1.4.1080.5) value set to more accurately identify encounters with patients being treated for depression.	Logic	Denominator Exclusions	Measure Lead
Added an adolescent population (12 to 17 years of age) to the measure and stratification of the denominator population (Strata 1: 12 to 17 years of age and Strata 2: 18 years of age and older) to better align with measure intent.	Logic	Stratification	Measure Lead
Removed the use of the 'Principal Diagnosis' attribute for the Psychiatric Visit. Added diagnoses of Schizophrenia or Psychotic Disorder and Pervasive Developmental Disorder to Denominator Exclusions. This change allows more accurate identification of the patient population.	Logic	Stratification	JIRA (CQM-2613)
Replaced the Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001), Psych Visit (2.16.840.113883.3.67.1.101.3.2445) and Face to Face Interaction – No ED (2.16.840.1.113762.1.4.1080.1) value sets with the new Contact or Office Visit (2.16.840.1.113762.1.4.1080.5) value set to more accurately identify encounters with patients being treated for depression.	Logic	Stratification	Measure Lead
Added supplemental timing attributes to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Replaced measure-defined definitions with similar definitions and functions from CQL shared libraries for consistency across measures.	Logic	Multiple Sections	Standards Update

CMS160v7 - Depression Utilization of the PHQ-9 Tool

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update
Value set Care Services in Long-Term Residential Facility (2.16.840.1.113883.3.464.1003.101.12.1014): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1262) including 2 codes.	Value Set	QDM Data Elements	Annual Update
Value set Major Depression Including Remission (2.16.840.113883.3.67.1.101.3.2444): Added 4 SNOMEDCT codes (16265951000119109, 16266831000119100, 16266991000119108, 726772006).	Value Set	QDM Data Elements	Annual Update
Value set Personality Disorder (2.16.840.1.113883.3.67.1.101.1.246): Deleted 17 ICD9CM codes. Deleted 10 ICD10CM codes (F21, F60.0, F60.1, F60.2, F60.5, F60.6, F60.7, F60.81, F60.89, F60.9). Deleted 24 SNOMEDCT codes.	Value Set	QDM Data Elements	Annual Update
Value set Contact or Office Visit (2.16.840.1.113762.1.4.1080.5): Added Contact or Office Visit.	Value Set	QDM Data Elements	Annual Update
Value set Schizophrenia or Psychotic Disorder (2.16.840.1.113883.3.464.1003.105.12.1104): Added Schizophrenia or Psychotic Disorder.	Value Set	QDM Data Elements	Annual Update
Value set Pervasive Developmental Disorder (2.16.840.1.113883.3.464.1003.105.12.1152): Added Pervasive Developmental Disorder.	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update
Replaced the Office Visit, Psych Visit and Face to Face Interaction – No ED value sets with the new Contact or Office Visit value set to more accurately identify encounters with patients being treated for depression.	Value Set	QDM Data Elements	Measure Lead
Replaced LOINC single code value sets with direct referenced codes. A direct referenced code is a single concept code that is used to describe a clinical element directly within the logic. The use of direct referenced codes replaces the need for single code value sets. Measures using other code systems in single value sets may optionally transition to direct referenced codes.	Value Set	QDM Data Elements	Standards Update
Value set Schizophrenia or Psychotic Disorder (2.16.840.1.113883.3.464.1003.105.12.1104): Added 3 SNOMEDCT codes (191536002, 191537006, 191540006).	Value Set	QDM Data Elements	2019 Addendum
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum
Value set Major Depression Including Remission (2.16.840.113883.3.67.1.101.3.2444): Added 2 SNOMEDCT codes (10811121000119102, 10811161000119107).	Value Set	QDM Data Elements	2019 Addendum

CMS161v7 - Adult Major Depressive Disorder (MDD): Suicide Risk Assessment

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Version Number.	Header	eMeasure Version number	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Updated Disclaimer.	Header	Disclaimer	Measure Lead
Updated Clinical Recommendation Statement.	Header	Clinical Recommendation Statement	Measure Lead
Updated References.	Header	Reference	Measure Lead
Updated Guidance related to age requirement to remove reference to QDM expression logic.	Header	Guidance	Measure Lead
Replaced SNOMEDCT single code value sets with direct referenced codes. A direct referenced code is a single concept code that is used to describe a clinical element directly within the logic. The use of direct referenced codes replaces the need for single code value sets. Measures using other code systems in single value sets may optionally transition to direct referenced codes.	Logic	Numerator	Standards Update
Added supplemental timing attributes to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Removed the 'Face-To-Face Interaction' data element and added relevant SNOMED codes to the Encounter Grouping value sets to better align between the SNOMED and CPT encounter codes.	Logic	Multiple Sections	Measure Lead
Replaced measure-defined definitions with similar definitions and functions from CQL shared libraries for consistency across measures.	Logic	Multiple Sections	Standards Update
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update
Replaced SNOMEDCT single code value sets with direct referenced codes. A direct referenced code is a single concept code that is used to describe a clinical element directly within the logic. The use of direct referenced codes replaces the need for single code value sets. Measures using other code systems in single value sets may optionally transition to direct referenced codes.	Value Set	QDM Data Elements	Standards Update

CMS161v7 - Adult Major Depressive Disorder (MDD): Suicide Risk Assessment

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update
Value set Face-to-Face Interaction (2.16.840.1.113883.3.464.1003.101.12.1048): Removed Face-to-Face Interaction.	Value Set	QDM Data Elements	Annual Update
Value set Outpatient Consultation (2.16.840.1.113883.3.464.1003.101.12.1008): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1266) including 3 codes.	Value Set	QDM Data Elements	Annual Update
Value set Emergency Department Visit (2.16.840.1.113883.3.464.1003.101.12.1010): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1263) including 1 code.	Value Set	QDM Data Elements	Annual Update
Value set Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1264) including 7 codes.	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum

CMS165v7 - Controlling High Blood Pressure

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Version Number.	Header	eMeasure Version number	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Changed the Measure Type from Process to Intermediate Clinical Outcome to more accurately reflect the type of measure.	Header	Measure Type	Measure Lead
Updated the Denominator Exclusion statement for patients in hospice care to better align with the logic.	Header	Denominator Exclusions	JIRA (CQM-2815)
Replaced 'Discharge status' attribute with 'Admission Source' and 'Discharge Disposition' attributes for 'Encounter, Performed' and 'Encounter, Active' datatypes to align with QDM 5.3 changes.	Logic	Denominator Exclusions	Standards Update
Added supplemental timing attributes to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Removed the 'Face-To-Face Interaction' data element and added relevant SNOMED codes to the Encounter Grouping value sets to better align between the SNOMED and CPT encounter codes.	Logic	Multiple Sections	Measure Lead
Replaced measure-defined definitions with similar definitions and functions from CQL shared libraries for consistency across measures.	Logic	Multiple Sections	Standards Update
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update
Value set Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1264) including 7 codes.	Value Set	QDM Data Elements	Annual Update
Value set Home Healthcare Services (2.16.840.1.113883.3.464.1003.101.12.1016): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1265) including 11 codes.	Value Set	QDM Data Elements	Annual Update
Value set Pregnancy (2.16.840.1.113883.3.526.3.378): Deleted 11 ICD10CM codes (O00.1, O00.10, O00.11, O00.2, O00.20, O00.21, O00.8, O00.9, O33.7, O34.21, Z36).	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update

CMS165v7 - Controlling High Blood Pressure

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Value set Kidney Transplant Recipient (2.16.840.1.113883.3.464.1003.109.12.1029): Added Kidney Transplant Recipient.	Value Set	QDM Data Elements	Annual Update
Value set Face-to-Face Interaction (2.16.840.1.113883.3.464.1003.101.12.1048): Removed Face-to-Face Interaction.	Value Set	QDM Data Elements	Annual Update
Replaced LOINC single code value sets with direct referenced codes. A direct referenced code is a single concept code that is used to describe a clinical element directly within the logic. The use of direct referenced codes replaces the need for single code value sets. Measures using other code systems in single value sets may optionally transition to direct referenced codes.	Value Set	QDM Data Elements	Standards Update
Replaced SNOMEDCT single code value sets with direct referenced codes. A direct referenced code is a single concept code that is used to describe a clinical element directly within the logic. The use of direct referenced codes replaces the need for single code value sets. Measures using other code systems in single value sets may optionally transition to direct referenced codes.	Value Set	QDM Data Elements	Standards Update
Value set Vascular Access for Dialysis (2.16.840.1.113883.3.464.1003.109.12.1011): Added 2 SNOMEDCT codes (736919006, 736922008).	Value Set	QDM Data Elements	2019 Addendum
Value set Kidney Transplant (2.16.840.1.113883.3.464.1003.109.12.1012): Added 35 SNOMEDCT codes and deleted 8 SNOMEDCT codes (175899003, 175901007, 175902000, 236138007, 313030004, 52213001, 88930008, 70536003). Added 2 CPT codes (50300, 50320).	Value Set	QDM Data Elements	2019 Addendum
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum

CMS177v7 - Child and Adolescent Major Depressive Disorder (MDD): Suicide Risk Assessment

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Version Number.	Header	eMeasure Version number	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Updated Disclaimer.	Header	Disclaimer	Measure Lead
Updated Rationale.	Header	Rationale	Measure Lead
Updated Clinical Recommendation Statement.	Header	Clinical Recommendation Statement	Measure Lead
Updated Reference.	Header	Reference	Measure Lead
Replaced SNOMEDCT single code value sets with direct referenced codes. A direct referenced code is a single concept code that is used to describe a clinical element directly within the logic. The use of direct referenced codes replaces the need for single code value sets. Measures using other code systems in single value sets may optionally transition to direct referenced codes.	Logic	Numerator	Standards Update
Added supplemental timing attributes to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Removed the 'Face-To-Face Interaction' data element and added relevant SNOMED codes to the Encounter Grouping value sets to better align between the SNOMED and CPT encounter codes.	Logic	Multiple Sections	Measure Lead
Replaced measure-defined definitions with similar definitions and functions from CQL shared libraries for consistency across measures.	Logic	Multiple Sections	Standards Update
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update
Replaced SNOMEDCT single code value sets with direct referenced codes. A direct referenced code is a single concept code that is used to describe a clinical element directly within the logic. The use of direct referenced codes replaces the need for single code value sets. Measures using other code systems in single value sets may optionally transition to direct referenced codes.	Value Set	QDM Data Elements	Standards Update

CMS177v7 - Child and Adolescent Major Depressive Disorder (MDD): Suicide Risk Assessment

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Value set Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1264) including 7 codes.	Value Set	QDM Data Elements	Annual Update
Value set Outpatient Consultation (2.16.840.1.113883.3.464.1003.101.12.1008): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1266) including 3 codes.	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update
Value set Face-to-Face Interaction (2.16.840.1.113883.3.464.1003.101.12.1048): Removed Face-to-Face Interaction.	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum

CMS249v1 - Appropriate Use of DXA Scans in Women Under 65 Years Who Do Not Meet the Risk Factor Profile for Osteoporotic Fracture

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Value set Chronic Liver Disease (2.16.840.1.113883.3.464.1003.199.12.1035): Added 1 SNOMEDCT code (735733008).	Value Set	QDM Data Elements	2019 Addendum
Value set Lupus (2.16.840.1.113883.3.464.1003.117.12.1010): Added 1 SNOMEDCT code (25380002).	Value Set	QDM Data Elements	2019 Addendum
Value set Malabsorption Syndromes (2.16.840.1.113883.3.464.1003.199.12.1050): Added 7 SNOMEDCT codes (197494007, 235724004, 735718000, 737195007, 762269004, 762270003, 762271004).	Value Set	QDM Data Elements	2019 Addendum
Value set Marfan's Syndrome (2.16.840.1.113883.3.464.1003.113.12.1048): Added 3 SNOMEDCT codes (15960021000119107, 15993551000119100, 16055631000119106).	Value Set	QDM Data Elements	2019 Addendum
Value set Osteopenia (2.16.840.1.113883.3.464.1003.113.12.1049): Added 4 SNOMEDCT codes (735613004, 735614005, 735615006, 735616007).	Value Set	QDM Data Elements	2019 Addendum
Value set Osteoporosis (2.16.840.1.113883.3.464.1003.113.12.1038): Added 3 SNOMEDCT codes (735617003, 735618008, 739301006).	Value Set	QDM Data Elements	2019 Addendum
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum
Value set Rheumatoid Arthritis (2.16.840.1.113883.3.464.1003.113.12.1005): Added 15 SNOMEDCT codes and deleted 5 SNOMEDCT codes (10713006, 19514005, 398726004, 239920006, 445345005).	Value Set	QDM Data Elements	2019 Addendum
Value set Type 1 Diabetes (2.16.840.1.113883.3.464.1003.103.12.1020): Added 1 SNOMEDCT code (368521000119107).	Value Set	QDM Data Elements	2019 Addendum

CMS347v2 - Statin Therapy for the Prevention and Treatment of Cardiovascular Disease

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Version Number.	Header	eMeasure Version number	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Updated Disclaimer.	Header	Disclaimer	Measure Lead
Updated link to guideline reference with working link to full text article.	Header	Reference	Measure Lead
Removed [Ezetimibe/Atorvastatin] (Liptruzet) from definition of Statin Medication Therapy List since the medication is no longer available to prescribe.	Header	Definition	Measure Lead
Replaced 'Adverse Reaction' datatype with 'Adverse Event' category to conform with QDM 5.3 changes.	Logic	Denominator Exceptions	Standards Update
Replaced 'Allergy, Intolerance' datatypes with 'Allergy/Intolerance' category to conform with QDM 5.3 changes.	Logic	Denominator Exceptions	Standards Update
Revised palliative care logic in Denominator Exceptions and replaced 'Intervention, Performed' with 'Intervention, Order' for palliative care to better align with the palliative care concept across measures.	Logic	Denominator Exceptions	Measure Lead
Added supplemental timing attributes to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Replaced measure-defined definitions with similar definitions and functions from CQL shared libraries for consistency across measures.	Logic	Multiple Sections	Standards Update
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update
Value set Palliative care encounter (2.16.840.1.113883.3.600.1.1575): Added Palliative care encounter.	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update
Value set CABG Surgeries (2.16.840.1.113883.3.666.5.694): Added 163 ICD10PCS codes. Added 11 SNOMEDCT codes (175066001, 419132001, 252427007, 438530000, 450506009, 440332008, 175036008, 175037004, 175038009, 175039001, 175040004).	Value Set	QDM Data Elements	Annual Update

CMS347v2 - Statin Therapy for the Prevention and Treatment of Cardiovascular Disease

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Value set Diabetes (2.16.840.1.113883.3.464.1003.103.12.1001): Deleted 17 SNOMEDCT codes.	Value Set	QDM Data Elements	Annual Update
Value set Moderate intensity statin therapy (2.16.840.1.113762.1.4.1047.98): Added 2 RXNORM codes (2001262, 2001266).	Value Set	QDM Data Elements	2019 Addendum
Value set Low intensity statin therapy (2.16.840.1.113762.1.4.1047.107): Added 1 RXNORM code (2001254).	Value Set	QDM Data Elements	2019 Addendum
Value set Carotid Intervention (2.16.840.1.113883.3.117.1.7.1.204): Added 16 ICD10PCS codes.	Value Set	QDM Data Elements	2019 Addendum
Value set PCI (2.16.840.1.113762.1.4.1045.67): Added 1 SNOMEDCT code (737085003).	Value Set	QDM Data Elements	2019 Addendum
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum
Value set Pregnancy Dx (2.16.840.1.113883.3.600.1.1623): Added 6 ICD10CM codes (O86.00, O86.01, O86.02, O86.03, O86.04, O86.09) and deleted 1 ICD10CM code (O86.0).	Value Set	QDM Data Elements	2019 Addendum
Value set Cerebrovascular disease, Stroke, TIA (2.16.840.1.113762.1.4.1047.44): Added 2 ICD10CM codes (I63.81, I63.89) and deleted 1 ICD10CM code (I63.8).	Value Set	QDM Data Elements	2019 Addendum
Value set Diabetes (2.16.840.1.113883.3.464.1003.103.12.1001): Added 36 SNOMEDCT codes.	Value Set	QDM Data Elements	2019 Addendum
Value set CABG Surgeries (2.16.840.1.113883.3.666.5.694): Deleted 4 SNOMEDCT codes (175022003, 175024002, 175025001, 175026000).	Value Set	QDM Data Elements	2019 Addendum

CMS349v1 - HIV Screening

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum

CMS645v2 - Bone Density Evaluation for Patients with Prostate Cancer and Receiving Androgen Deprivation Therapy

Technical Release Notes	Type of TRN	Measure Section	Source of Change
Updated Version Number.	Header	eMeasure Version number	Measure Lead
Updated Copyright.	Header	Copyright	Annual Update
Updated Disclaimer.	Header	Disclaimer	Measure Lead
Added supplemental timing attributes to most datatypes in QDM 5.3 to facilitate accurate retrieval of time related information within CQL logic. Timing attributes now include a time interval, such as prevalence period or relevant period, and/or actual time of documentation with Author Datetime. Relevant period is the general method to describe start and stop times for datatypes. Prevalence period is used for some datatypes to more accurately define onset and abatement times.	Logic	Multiple Sections	Standards Update
Assigned cardinality to each attribute to be more explicit in guiding specification and implementation of QDM data elements. Cardinality refers to the number of instances of the attribute that can be included in the measure description. Cardinality for most attributes is 0.. 1 (i.e., can occur up to 1 time), but some attributes have a cardinality of 0.. * (i.e., can occur multiple times).	Logic	Multiple Sections	Standards Update
CQL libraries contain sets of CQL definitions, or CQL expression statements. A context statement, patient or population, can now be used in a CQL library to clearly establish how the subsequent list of CQL expressions will be interpreted. A 'Population' context will interpret the CQL expression with reference to the entire population of the item being counted, patients or encounters. A 'Patient' context will interpret the CQL expression with reference to a single patient. Context statements are not required, but one or more context statements may be used within a library to help clarify how the CQL expressions will be interpreted. Patient context is the default if none is specified.	Logic	Multiple Sections	Standards Update
Updated measure logic from Quality Data Model (QDM)-based logic to Clinical Quality Language (CQL)-based logic. Information on CQL can be found at the eCQI Resource center (https://ecqi.healthit.gov/cql). Information about specific versions of the new standards in use for CMS reporting periods can be found at the eCQI Resource Center (https://ecqi.healthit.gov/ecqm-tools-key-resources). Switching from QDM to CQL brings with it many changes, as well as enhanced expression capability, but only those changes with significant impact will be outlined in technical release notes. For example, in the case of timing operators, changes may only be summarized if those changes impact the measure calculation.	Logic	Multiple Sections	Standards Update
Value set Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001): Added SNOMEDCT extensional value set (2.16.840.1.113883.3.464.1003.101.11.1264) including 7 codes.	Value Set	QDM Data Elements	Annual Update
Value set Androgen deprivation therapy for Urology Care (2.16.840.1.113762.1.4.1151.48): Added 2 RXNORM codes (1946519, 1946521) and deleted RXNORM code (1115469).	Value Set	QDM Data Elements	Annual Update
Value set Patient Reason Refused (2.16.840.1.113883.3.600.1.1503): Removed Patient Reason Refused.	Value Set	QDM Data Elements	Annual Update
Value set Patient Reason refused (2.16.840.1.113883.3.600.791): Added Patient Reason refused.	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Added 11 SOP codes (299, 32127, 32128, 391, 517, 524, 614, 621, 622, 623, 629) and deleted 3 SOP codes (63, 64, 69).	Value Set	QDM Data Elements	Annual Update
Value set Payer (2.16.840.1.114222.4.11.3591): Deleted 1 SOP code (24).	Value Set	QDM Data Elements	2019 Addendum