



RESOURCE AND PATIENT MANAGEMENT SYSTEM

Electronic Clinical Quality Measures Engine

(ECQM)

Measure Guidance Manual

Version 6.0
March 2024

Office of Information Technology
Division of Information Technology

Table of Contents

1.0	Introduction.....	6
2.0	Eligible Hospital Measures (For 2023 Reporting Period)	10
2.1	CMS9v11 Exclusive Breast Milk Feeding	10
2.1.1	Details and Data Entry.....	10
2.2	CMS71v12 Anticoagulation Therapy for Atrial Fibrillation/Flutter.....	11
2.2.1	Details and Data Entry.....	11
2.3	CMS72v11 Antithrombotic Therapy End of Hospital Day 2	12
2.3.1	Details and Data Entry.....	12
2.4	CMS104v11 Discharged on Antithrombotic Therapy	14
2.4.1	Details and Data Entry.....	14
2.5	CMS105v11 Discharged on Statin Medication	15
2.5.1	Details and Data Entry.....	15
2.6	CMS108v11 Venous Thromboembolism Prophylaxis.....	16
2.6.1	Details and Data Entry.....	17
2.7	CMS111v11 Median Admit Decision Time to ED Departure Time for Admitted Patients.....	18
2.7.1	Details and Data Entry.....	19
2.8	CMS190v11 Intensive Care Unit Venous Thromboembolism Prophylaxis	19
2.8.1	Detail and Data Entry	19
2.9	CMS334v4 Cesarean Birth	21
2.9.1	Detail and Data Entry	21
2.10	CMS506v4 Safe Use of Opioids–Concurrent Prescribing.....	25
2.10.1	Details and Data Entry.....	25
2.11	CMS816v2: Hospital Harm - Severe Hypoglycemia	26
2.11.1	Details and Data Entry.....	26
2.12	CMS871v2 Hospital Harm–Severe Hyperglycemia	27
2.12.1	Detail and Data Entry	27
2.13	CMS1028v1 Severe Obstetric Complications.....	29
2.13.1	Details and Data Entry.....	29
3.0	Eligible Clinician Measures (For 2023 Reporting Period)	32
3.1	CMS2v12 Preventive Care and Screening: Screening for Depression and Follow-Up Plan	32
3.1.1	Details and Data Entry.....	32
3.2	CMS22v11 Preventive Care and Screening: Screening for High Blood Pressure and Follow-Up Documented	33
3.2.1	Details and Data Entry.....	33
3.3	CMS50v11 Closing the Referral Loop: Receipt of Specialist Report	34
3.3.1	Detail and Data Entry	34
3.4	CMS69v11 Preventive Care and Screening: BMI Screening and Follow- Up Plan.....	35

3.4.1	Detail and Data Entry	35
3.5	CMS117v11 Childhood Immunization Status	36
3.5.1	Detail and Data Entry	36
3.6	CMS122v11 Diabetes: Hemoglobin A1c Poor Control (> 9%).....	39
3.6.1	Detail and Data Entry	39
3.7	CMS124v11 Cervical Cancer Screening	40
3.7.1	Detail and Data Entry	40
3.8	CMS125v11 Breast Cancer Screening	41
3.8.1	Detail and Data Entry	41
3.9	CMS127v11 Pneumococcal Vaccination Status for Older Adults	43
3.9.1	Detail and Data Entry	43
3.10	CMS130v11 Colorectal Cancer Screening	43
3.10.1	Detail and Data Entry	44
3.11	CMS131v11 Diabetes: Eye Exam	45
3.11.1	Detail and Data Entry	45
3.12	CMS134v10 Diabetes: Medical Attention for Nephropathy (retired measure—for trending purposes only)	46
3.12.1	Detail and Data Entry	47
3.13	CMS137v11 Initiation and Engagement of Alcohol and Other Drug Dependence Treatment.....	48
3.13.1	Detail and Data Entry	48
3.14	CMS138v11 Preventive Care and Screening: Tobacco Use: Screening and Cessation Intervention	49
3.14.1	Detail and Data Entry	49
3.15	CMS139v11 Falls: Screening for Future Fall Risk	50
3.15.1	Detail and Data Entry	50
3.16	CMS144v11 Heart Failure: Beta-Blocker Therapy for Left Ventricular Systolic Dysfunction (LVSD).....	51
3.16.1	Detail and Data Entry	51
3.17	CMS145v11 Coronary Artery Disease (CAD): Beta-Blocker Therapy- Prior Myocardial Infarction (MI) or Left Ventricular Systolic Dysfunction (LVEF less than 40%).....	53
3.17.1	Detail and Data Entry	53
3.18	CMS147v11 Preventive Care and Screening: Influenza Immunization .	54
3.18.1	Detail and Data Entry	54
3.19	CMS154v11 Appropriate Treatment for Upper Respiratory Infection (URI).....	55
3.19.1	Detail and Data Entry	55
3.20	CMS155v11 Weight Assessment and Counseling for Nutrition and Physical Activity for Children and Adolescents.....	56
3.20.1	Detail and Data Entry	56
3.21	CMS156v11 Use of High-Risk Medications in Older Adults.....	57
3.21.1	Detail and Data Entry	57
3.22	CMS159v11 Depression Remission at Twelve Months	59
3.22.1	Detail and Data Entry	59

3.23	CMS160v7 Depression Utilization of the PHQ-9 Tool (retired measure— for trending purposes only)	60
3.23.1	Detail and Data Entry	60
3.24	CMS161v11 Adult Major Depressive Disorder: Suicide Risk Assessment	61
3.24.1	Detail and Data Entry	61
3.25	CMS165v11 Controlling High Blood Pressure	62
3.25.1	Detail and Data Entry	62
3.26	CMS177v11 Child and Adolescent Major Depressive Disorder: Suicide Risk Assessment	64
3.26.1	Detail and Data Entry	64
3.27	CMS347v6 Statin Therapy for the Prevention and Treatment of Cardiovascular Disease	64
3.27.1	Detail and Data Entry	64
3.28	CMS349v5 HIV Screening	66
3.28.1	Details and Data Entry	66
Acronym List		67
Contact Information		70

Revision History

Version	Date	Author	Section	Page Number	Summary of Change
2023	11/07/2023	Kelly Samuelson	All		Updates to reflect the new CQM measures added with v6 for 2023 and updates to all existing measures to accurately reflect the 2023

1.0 Introduction

Electronic Clinical Quality Measures (eCQM) are standardized metrics that measure and track the quality of health care services that eligible professionals (EP)/eligible clinicians (EC), eligible hospitals (EH), and critical access hospitals (CAH) provide.

The results of the measures are used to calculate a quality score. This process helps to ensure that our health care system is delivering effective, safe, efficient, patient-centered, equitable, and timely care. While the eCQMs are not practice guidelines, they are indicative through measuring positive or negative outcomes of good clinical practices.

eCQM performance rates are used by various governing bodies to evaluate programs and in the case of Centers for Medicare & Medicaid Services (CMS), payments for Medicare services may be affected. eCQMs measure many aspects of patient care, including:

- Patient and family engagement
- Patient safety
- Care coordination
- Population/public health
- Efficient use of healthcare resources
- Clinical process/effectiveness

Indian Health Service Resource Patient Management System Certified Electronic Health Record (IHS RPMS-CEHR) generates patient-based files containing the data needed to create CQM reports in standardized format. These are called Quality Reporting Data Architecture (QRDA) Category I (CAT-I) files. The ECQM Engine is a browser-enabled graphical user interface for the Indian Health Service (IHS) which extracts the data from multiple CAT-I file and generates QRDA Category III (CAT-III) aggregated report files which may be submitted to CMS. The ECQM Engine also outputs human-readable reports that can be used in quality improvement activities at individual sites.

eCQMs are tools that help measure and track the quality of health care services that EP, EH, and CAH provide, as generated by a provider's electronic health record (EHR). Health care providers are required to electronically report eCQMs, which use data from EHRs and/or health information technology systems to measure health care quality.

eCQMs are a component of the 2015 Edition Health Information Technology (Health IT) certification criteria necessary for participating in various CMS Programs. RPMS EHR has been updated to meet these expanded criteria.

Each year, CMS makes updates to the eCQMs approved for CMS programs to reflect changes in:

- Evidence-based medicine
- Code sets
- Measure logic

A total of 13 EH/CAH eCQMs and 27 EP eCQMs were selected for inclusion in 2023 based on user input.

Information for hospitals:

The 2023 reporting period for EHs and CAHs requires all four quarters (full year). The number of eCQM required for hospitals has not changed for 2023 (four, chosen from a list of available eCQM).

Selected EH/CAH eCQM included in the 2015 Certified RPMS EHR (For the 2023 Reporting Period):

- CMS9v11 Exclusive Breast Milk Feeding
- CMS71v12 Anticoagulation Therapy for Atrial Fibrillation/Flutter
- CMS72v11 Antithrombotic Therapy By End of Hospital Day 2
- CMS104v11 Discharged on Anti-thrombotic Therapy
- CMS105v11 Discharged on Statin Medication
- CMS108v11 Venous Thromboembolism Prophylaxis
- CMS111v11 Median Admit Decision Time to ED Departure Time for Admitted Patients
- CMS190v11 Intensive Care Unit Venous Thromboembolism Prophylaxis
- CMS334v4 Cesarean Birth
- CMS506v5 Safe Use of Opioids–Concurrent Prescribing
- CMS816v2 Hospital Harm–Severe Hypoglycemia
- CMS871v2 Hospital Harm–Severe Hyperglycemia
- CMS1028v1 Severe Obstetric Complications

Information for providers (MIPS, or Merit-based Incentive Payment System):

The 2023 eCQM reporting period for providers (EP) is any continuous 90-day period between January 1, 2023, and December 31, 2023. All participating EPs are required to report on any six eCQMs relevant to their scope of practice from the set of those available within the 2015 Certified EHR.

IHS requested that two retired EP measures, CMS160v7 Depression Utilization of the PHQ-9 Tool, continue to be calculated based on the 2019 measure logic so that sites can track their performance over time for quality improvement. CMS134v10 Diabetes: Medical Attention for Nephropathy is also calculated based on 2023 measure logic for quality improvement.

Selected EP eCQMs included in the 2015 Certified RPMS EHR (For the 2023 Reporting Period):

- CMS2v12 Preventive Care & Screening: Screening for Clinical Depression and Follow-up
- CMS22v11 Preventive Care and Screening: Screening for High Blood Pressure and Follow-Up Documented
- CMS50v11 Closing Referral Loop: Receipt of Specialist Report
- CMS69v11 Preventive Care & Screening: Body Mass Index (BMI) Screening and Follow-up
- CMS117v11 Childhood Immunization Status
- CMS122v11 Hemoglobin A1c (HbA1c) Poor Control (>9%)
- CMS124v11 Cervical Cancer Screening
- CMS125v11 Breast Cancer Screening
- CMS127v11 Pneumococcal Vaccination Status for Older Adults
- CMS130v11 Colorectal Cancer Screening
- CMS131v11 Diabetes: Eye Exam
- CMS137v11 Initiation and Engagement of Alcohol and Other Drug Dependence Treatment
- CMS138v11 Preventive Care & Screening: Tobacco Use: Screening and Cessation Intervention
- CMS139v11 Falls: Screening for Future Fall Risk
- CMS144v11 Heart Failure: Beta-Blocker Therapy for Left Ventricular Systolic Dysfunction
- CMS145v11 Coronary Artery Disease (CAD): Beta-Blocker Therapy-Prior Myocardial Infarction (MI) or Left Ventricular Systolic Dysfunction (LVEF <40%)
- CMS147v11 Preventive Care and Screening: Influenza Immunization
- CMS154v11 Appropriate Treatment for Upper Respiratory Infection (URI)
- CMS155v11 Weight Assessment and Counseling for Nutrition and Physical Activity for Children and Adolescents

- CMS156v11 Use of High-Risk Medications in Older Adults
- CMS159v11 Depression Remission at Twelve Months
- CMS161v11 Adult Major Depressive Disorder: Suicide Risk Assessment
- CMS165v11 Controlling High Blood Pressure
- CMS177v11 Child and Adolescent Major Depressive Disorder: Suicide Risk Assessment
- CMS347v6 Statin Therapy for the Prevention and Treatment of Cardiovascular Disease
- CMS349v5 HIV Screening
- Retired quality measures not included in CMS reporting for 2023 (captured for trending):
 - CMS160v7 Depression Utilization of the PHQ-9 Tool
 - CMS134v10 Diabetes: Medical Attention for Nephropathy

While RPMS EHR offers multiple data entry options, eCQM included in this manual present a limited subset of these options to efficiently capture the required data elements and achieve the highest possible score.

Each measure contains information from the ECQI web site, giving the description and logic for each measure followed by data entry process to achieve the best possible outcome. These data entry processes have been tested during development and certification. Each measure has a link to the ECQI website to get the full description, rationale, detailed logic, terminology, and data criteria (QDM Data Elements).

Found in each link to the ECQI website are value sets. Value sets are groups of codes including Systematized Nomenclature of Medicine-Clinical Terms (SNOMED-CT), International Classification of Diseases (ICD), RxNORM, Current Procedural Terminology (CPT), HCPCS (Healthcare Common Procedure Coding System), Logical Observation Identifiers Names and Codes (LOINC), etc., that are approved by CMS for each measure. A value set can contain from one to several hundred codes. Only these codes are counted for the measure. CMS updates these value sets periodically, removing some, adding others. IHS OIT updates the terminology used for eCQM based on these changes and distributes terminology updates. It is important to install these updates to be sure that only active and approved codes are being used. OIT “maps” to these new codes to simplify the workload for individual sites.

Since the contents of any given value set are fluid and change over time, it is not practical to simply list the currently available codes. Instead, it is better if the user logs into the Value Set Authority Center (VSAC) to create a free account then searches for the current values within the set. Past value sets are also viewable for troubleshooting purposes.

2.0 Eligible Hospital Measures (For 2023 Reporting Period)

2.1 CMS9v11 Exclusive Breast Milk Feeding

<https://ecqi.healthit.gov/sites/default/files/ecqm/measures/CMS9v11.html>

2.1.1 Details and Data Entry

1. Initial Population: Inpatient hospitalizations for single newborns who were born in the hospital where Inpatient Hospitalization ends during the measurement period, and with either of the following conditions:
 - a. Newborn admitted to hospital
 - ADT Admission/Discharge
 - b. Diagnosis Single Live Birth Born in Hospital
 - Integrated Problem List or ICD diagnosis in V POV
 - c. Gestational Age = > than 37 weeks
 - Vitals component EGA measurement
 - d. Birth Weight \geq 3000 gm
 - Vitals component weight has to be entered same day as the newborns date of birth
 - Birth measurement via personal health component
2. Denominator:
 - Initial Population
3. Denominator Exclusions:
 - a. Admitted to NICU or ICU
 - ADT Admission/Discharge ward set as ICU or PEDS NICU
 - b. Diagnosis of Galactosemia
 - Integrated Problem List or ICD diagnosis in V POV
 - c. Prolonged length of stay (>120 days)
 - ADT Admission/Discharge
 - d. Expired during hospitalization or transferred to acute care facility
 - ADT Discharge UB-04 type
 - e. Total Parenteral Nutrition

- ICD Procedure code 3E0G36Z in the Visit Services component in the EHR or PCC by coder

4. Numerator:

a. Exclusive Breast Feeding

- Infant Feeding Component in EHR

Figure 2-1: Infant Feeding

5. Numerator Exclusions: N/A

6. Denominator Exceptions: None

2.2 CMS71v12 Anticoagulation Therapy for Atrial Fibrillation/Flutter

<https://ecqi.healthit.gov/sites/default/files/ecqm/measures/CMS71v12.html>

2.2.1 Details and Data Entry

1. Initial Population: Inpatient hospitalizations for patients age 18 and older, discharged from inpatient care (non-elective admissions) with a principal diagnosis of ischemic or hemorrhagic stroke and a length of stay less than or equal to 120 days that ends during measurement period:
 - a. ADT non-elective type admission LOS \leq 120 days
 - b. IPL SNOMED or ICD Diagnosis in V POV of ischemic or hemorrhagic stroke
2. Denominator: Inpatient hospitalizations for patients with a principal diagnosis of ischemic stroke, and a history of atrial ablation, or current or history of atrial fibrillation/flutter:
 - a. IPL SNOMED or ICD Diagnosis in V POV of ischemic stroke and atrial ablation or atrial fibrillation/flutter.
3. Denominator Exclusions: Inpatient hospitalizations for patients admitted for elective carotid intervention. This exclusion is implicitly modeled by only including non-elective hospitalizations:

- ADT Admission type UB-92 type of Elective
- a. Inpatient hospitalizations for patients discharged to another hospital, left against medical advice, expired, home for hospice care, or to a health care facility for hospice care:
 - ADT Discharge UB-04 type
- b. Inpatient hospitalizations for patients with comfort measures documented:
 - IPL- Add Visit Instruction/ Care Plans/ Goal Activities component then Treatment Regime/Therapy/Follow-up- Palliative Care.
- 4. Numerator: Inpatient hospitalizations for patients prescribed or continuing to take anticoagulation therapy at hospital discharge:
 - a. Prescribed/Orders Outpatient anticoagulant therapy medication marked as discharge medication
 - b. Outside Medication for anticoagulant therapy recorded/ordered and active before date/time of discharge
- 5. Numerator Exclusions: N/A
- 6. Denominator Exceptions: Inpatient hospitalizations for patients with a documented reason for not prescribing anticoagulation therapy at discharge:
 - a. Personal Health component refusal for anticoagulation therapy medication:
 - Patient Refusal examples: Drug declined by patient, Refusal of treatment by patient
 - Medical Reason examples: Allergy to drug, Contraindicated, Adverse reaction to drug

2.3 CMS72v11 Antithrombotic Therapy End of Hospital Day 2

<https://ecqi.healthit.gov/sites/default/files/ecqm/measures/CMS72v11.html>

2.3.1 Details and Data Entry

1. Initial Population: Inpatient hospitalization for patients age 18 and older discharged from inpatient care (non-elective admissions) with a principal diagnosis of ischemic or hemorrhagic stroke and a length of stay less than or equal to 120 days that ends during measurement period:
 - a. ADT non-elective type admission LOS <=120 days
 - b. IPL SNOMED or ICD Diagnosis in V POV of ischemic or hemorrhagic stroke
2. Denominator: Inpatient hospitalizations for patients with a principal diagnosis of ischemic stroke:

- a. IPL SNOMED or ICD Diagnosis in V POV of ischemic stroke
3. Denominator Exclusions:
- a. Inpatient hospitalizations for patients who have a duration of stay less than 2 days:
- ADT admission/discharge less than 48 hours
- b. Inpatient hospitalizations for patients with comfort measures documented:
- IPL-Add Visit Instruction/ Care Plans/ Goal Activities component then Treatment Regime/Therapy/Follow-up- Palliative Care

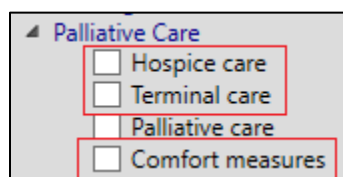


Figure 2-2: Palliative Care list

- c. Inpatient hospitalization for patients with intra-venous or intra-arterial Thrombolytic (t-PA) Therapy administered within 24 hours prior to arrival or anytime during hospitalization:
- BCMA t-PA medication ordered, verified in pharmacy, and then administered to patient
4. Numerator: Inpatient hospitalization for patients who had antithrombotic therapy administered the day of or day after hospital arrival:
- a. BCMA antithrombotic therapy medication ordered, verified in pharmacy, and then administered to patient
- b. Therapy Initiated Date/Time in the Stroke component (Required fields for entry Arrival Date/Time and Onset Date/Time)

Figure 2-3: Stroke Tool

5. Numerator Exclusions: N/A

6. Denominator Exceptions:
 - a. Inpatient hospitalization for patients with a documented reason for not administering antithrombotic therapy the day of or day after hospital arrival:
 - Personal Health component refusal for anticoagulation therapy medication.
 - Patient Refusal examples: Drug declined by patient, Refusal of treatment by patient.
 - Medical reason examples: Allergy to drug, contraindicated, adverse reaction to drug.
 - b. Inpatient hospitalization for patients who receive Prasugrel as an antithrombotic therapy the day of or day after hospital arrival:
 - Prasugrel medication ordered, verified, and administered through BCMA.
 - c. Inpatient hospitalization for patients with an INR greater than 3.5:
 - INR Lab resulted with a value > 3.5 during the admission found in V Lab.

2.4 CMS104v11 Discharged on Antithrombotic Therapy

<https://ecqi.healthit.gov/sites/default/files/ecqm/measures/CMS104v11.html>

2.4.1 Details and Data Entry

1. Initial Population: Inpatient hospitalizations for patients age 18 and older, discharged from inpatient care (non-elective admissions) with a principal diagnosis of ischemic or hemorrhagic stroke and a length of stay less than or equal to 120 days that ends during the measurement period:
 - a. ADT non-elective type admission LOS <=120 days
 - b. IPL SNOMED or ICD Diagnosis in V POV of ischemic or hemorrhagic stroke
2. Denominator: Inpatient hospitalizations for patients with a principal diagnosis of Ischemic stroke:
 - a. IPL SNOMED or ICD Diagnosis in V POV of ischemic stroke
3. Denominator Exclusions:
 - a. Inpatient hospitalizations for patients admitted for elective carotid intervention. This exclusion is implicitly modeled by only including non-elective hospitalizations
 - ADT Admission type UB-92 type of Elective

- b. Inpatient hospitalizations for patients discharged to another hospital, who left against medical advice, Inpatient hospitalizations for patients who expired, Inpatient hospitalizations for patients discharged to home for hospice care, and Inpatient hospitalizations for patients discharged to a health care facility for hospice care
 - ADT Discharge UB-04 type
- c. Inpatient hospitalizations for patients with comfort measures documented:
 - IPL- Add Visit Instruction/ Care Plans/ Goal Activities component then Treatment Regime/Therapy/Follow-up- Palliative Care
4. Numerator: Inpatient hospitalizations for patients prescribed or continuing to take antithrombotic therapy at hospital discharge
 - a. Requires an outpatient prescription for antithrombotic medication during hospitalization, marked as “discharge medication, or an existing medication active during and after the admission (Outpatient or Outside order)
5. Numerator Exclusions: Not Applicable
6. Denominator Exceptions:
 - a. Inpatient hospitalization for patients with a documented reason for not administering antithrombotic therapy the day of or day after hospital arrival:
 - Personal Health component refusal for anticoagulation therapy medication
 - Patient Refusal examples: Drug declined by patient, Refusal of treatment by patient
 - Medical reason examples: Allergy to drug, contraindicated, adverse reaction to drug

2.5 CMS105v11 Discharged on Statin Medication

<https://ecqi.healthit.gov/sites/default/files/ecqm/measures/CMS105v11.html>

2.5.1 Details and Data Entry

1. Initial population: Inpatient hospitalizations for patients age 18 and older, discharged from inpatient care (non-elective admissions) with a principal diagnosis of ischemic or hemorrhagic stroke and a length of stay less than or equal to 120 days that ends during measurement period:
 - a. ADT non-elective type admission LOS <=120 days
 - b. IPL SNOMED or ICD Diagnosis in V POV of ischemic or hemorrhagic stroke

2. Denominator: Inpatient hospitalizations for patients with a principal diagnosis of ischemic stroke:
 - a. IPL SNOMED or ICD Diagnosis in V POV of ischemic or hemorrhagic stroke marked a “Primary” in IPL and in ICD diagnosis PCC marked as “Principal”
3. Denominator exclusions: Inpatient hospitalizations for patients discharged to another hospital, who left against medical advice, Inpatient hospitalizations for patients who expired, Inpatient hospitalizations for patients discharged to home for hospice care, and Inpatient hospitalizations for patients discharged to a health care facility for hospice care:
 - a. ADT Discharge UB-04 type
 - b. Inpatient hospitalizations for patients with comfort measures documented:
 - Excludes patients with documented comfort measures (IPL/TREG)
4. Numerator: Inpatient hospitalizations for patients prescribed or continuing to take statin medication at hospital discharge:
 - a. Requires an outpatient prescription for antithrombotic medication during hospitalization, marked as “discharge medication, or an existing medication active during and after the admission (Outpatient or Outside order)
5. Numerator Exclusions: N/A
6. Denominator Exception:
 - a. Inpatient hospitalizations for patients with a reason for not prescribing statin medication at discharge:
 - Refusal (refusal of treatment by patient or contraindicated (enter personal health, refusals, medication))
 - b. Inpatient hospitalizations for patients with a maximum LDL-c result of less than 70 mg/dL less than or equal to 30 days prior to arrival or any time during the hospital stay:
 - LDL-C < 70 within 30 days of hospitalization
 - c. Inpatient hospitalizations for patients with a statin allergy:
 - Allergy to statin (enter allergy in EHR)

2.6 CMS108v11 Venous Thromboembolism Prophylaxis

<https://ecqi.healthit.gov/sites/default/files/ecqm/measures/CMS108v11.html>

2.6.1 Details and Data Entry

1. Initial Population: Inpatient hospitalizations for patients age 18 and older, discharged from hospital inpatient acute care without a diagnosis of venous thromboembolism (VTE) or obstetrics with a length of stay less than or equal to 120 days that ends during the measurement period:
 - a. ADT non-elective type admission LOS \leq 120 days
 - b. No diagnosis of VTE or obstetrics in IPL SNOMED or V POV ICD 10.
2. Denominator: Initial population.
3. Denominator Exclusions:
 - a. Inpatient hospitalizations for patients who have a length of stay less than 2 days:
 - ADT admission discharge less than 48 hours
 - b. Inpatient hospitalizations for patients with comfort measures documented anytime between the day of arrival and the day after hospital admission:
 - Excludes patients with documented comfort measures (IPL/TREG)
 - c. Inpatient hospitalizations for patients with comfort measures documented by the day after surgery end date for surgeries that start the day of or the day after hospital admission:
 - Excludes patients with documented comfort measures (IPL/TREG)
 - d. Inpatient hospitalizations for patients who are direct admits to intensive care unit (ICU), or transferred to ICU the day of or the day after hospital admission with ICU length of stay greater than or equal to one day:
 - ADT admission and or transfer to ICU ward and LOS \leq 24 hours
 - e. Inpatient hospitalizations for patients with a principal diagnosis of mental disorders or stroke
 - IPL SNOMED or V POV ICD 10 diagnosis set as Primary
 - f. Inpatient hospitalizations for patients with a principal procedure of surgical care improvement project (SCIP) VTE selected surgeries
 - Visit services or PCC data entry of valid ICD 10 PCS marked a principal
4. Numerator: Inpatient hospitalizations for patients who received VTE prophylaxis:
 - a. Between the day of arrival and the day after hospital admission
 - b. The day of or the day after surgery end date for surgeries that end the day of or the day after hospital admission:
 - Medication administered while in hospital or ordered as discharge

- Outpatient medication or Outside medication order during or less than 24 hours after discharge
- Application of VTE in IPL/TREG for Anticoag DVT Prevention

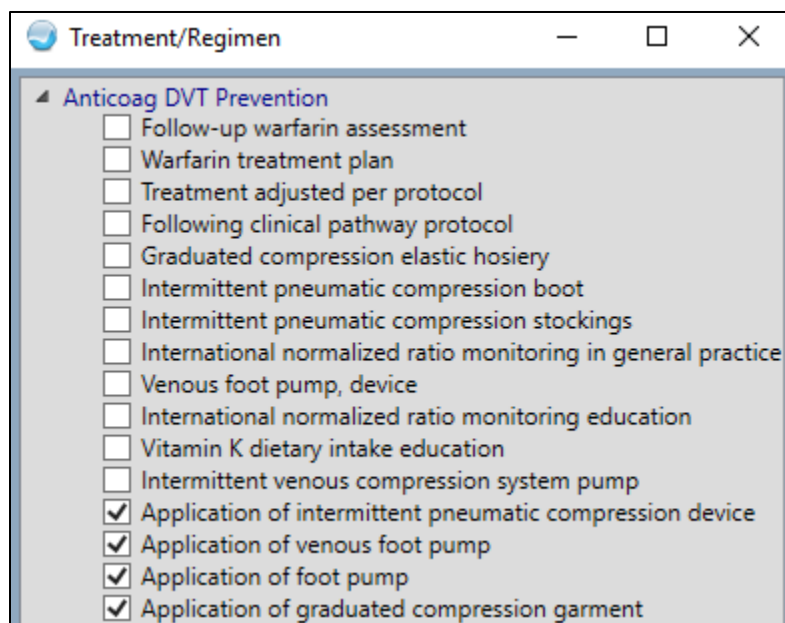


Figure 2-4: Treatment/Regimen Menu

- c. Inpatient hospitalizations for patients who have documentation of a reason why no VTE prophylaxis was given:
 - Between the day of arrival and the day after hospital admission
 - The day of or the day after surgery end date (for surgeries that end the day of or the day after hospital admission)
 - Personal Health component refusal for anticoagulation therapy medication:
 - Patient Refusal examples: Drug declined by patient, Refusal of treatment by patient
 - Medical reason examples: Allergy to drug, contraindicated, adverse reaction to drug
5. Numerator Exclusions: N/A
6. Denominator Exception: None

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

<https://ecqi.healthit.gov/sites/default/files/ecqm/measures/CMS111v11.html>

2.7.1 Details and Data Entry

1. Initial Population: Inpatient hospitalizations ending during the measurement period with length of stay less than or equal to 120 days, where the patient received services during the preceding emergency department (ED) visit at the facility when a decision to admit inpatient was made prior to departing the ED:
 - a. ER visits resulting in Inpatient admission (w/in one hour of ER departure); admission ends within measurement period (LOS<120 days)
2. Measure Population: Initial population
3. Measure Exclusions: Emergency department encounters with an admission source in "Hospital Setting" (any different facility- by location or CCN) resulting in an inpatient stay:
 - a. Stratification 1: Patients without a principal diagnosis of psychiatric/mental health disorder
 - b. Stratification 2: Patients with a principal diagnosis of psychiatric/mental health disorder
4. Measure Observation: Median time (in minutes) from the Decision to Admit to inpatient to the time the patient physically departs the ED to inpatient hospitalization:
 - a. Decision to Admit time entered in AMER or ED Dashboard
 - b. Discharge from ER time entered in AMER or ED Dashboard; Disposition "Admit"
 - c. System calculates time difference (Admission must occur within 60 minutes of ED Discharge). Emergency (ER) visit that have been merged to the Hospitalization (IP) visit will not get counted for this measure. For visits to be counted, the ER visit cannot be merged to the IP visit

2.8 CMS190v11 Intensive Care Unit Venous Thromboembolism Prophylaxis

<https://ecqi.healthit.gov/sites/default/files/ecqm/measures/CMS190v11.html>

2.8.1 Detail and Data Entry

1. Initial Population: Inpatient hospitalizations for patients age 18 and older, discharged from hospital inpatient acute care without a diagnosis of venous thromboembolism (VTE) or obstetrics with a length of stay less than or equal to 120 days that ends during the measurement period:
 - a. ADT non-elective type admission LOS <=120 days
 - b. No diagnosis of VTE or obstetrics in IPL SNOMED or V POV ICD 10

2. Denominator: Inpatient hospitalizations for patients directly admitted or transferred to ICU during the hospitalization:
 - a. ADT direct admission or transfer to a ward set up as ICU
3. Denominator Exclusions:
 - a. Inpatient hospitalizations for patients who have a hospital length of stay (LOS) less than 2 days
 - ADT admission discharge less than 48 hours
 - b. Inpatient hospitalizations for patients with comfort measures documented anytime between the day of arrival and the day after ICU admission or transfer:
 - Excludes patients with documented comfort measures (IPL/TREG)
 - c. Inpatient hospitalizations for patients with comfort measures documented by the day after surgery end date for surgeries that end the day of or the day after hospital admission:
 - Excludes patients with documented comfort measures (IPL/TREG)
 - d. Inpatient hospitalizations for patients with a principal procedure of surgical care improvement Project (SCIP) VTE selected surgeries that end the day of or the day after ICU admission or transfer
 - Visit services or PCC data entry of valid ICD 10 PCS marked as principal
4. Numerator: Inpatient hospitalizations for patients who received VTE prophylaxis:
 - a. The day of or the day after ICU admission (or transfer)
 - b. The day of or the day after surgery end date for surgeries that end the day of or the day after ICU admission (or transfer):
 - Medication administered while in hospital or ordered as discharge
 - Outpatient medication or Outside medication order during or less than 24 hours after discharge
 - Application of VTE in IPL/TREG for Anticoag DVT Prevention

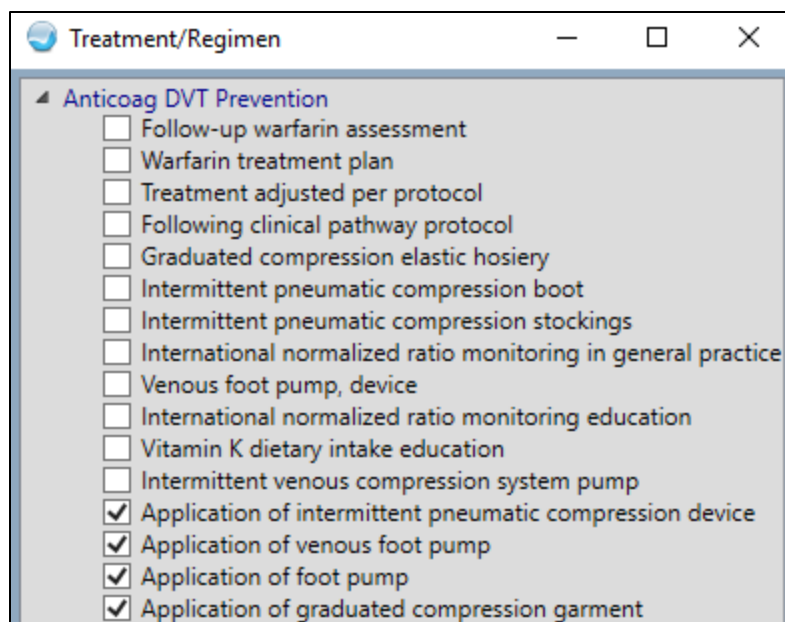


Figure 2-5: Treatment/Regimen Menu

- c. Inpatient hospitalizations for patients who have documentation of a reason why no VTE prophylaxis was given:
- Between the day of arrival and the day after ICU admission (for patients directly admitted as inpatients to the ICU)
 - The day of or the day after surgery end date (for surgeries that end the day of or the day after ICU admission (or transfer))
 - Personal Health component refusal for anticoagulation therapy medication:
 - Patient Refusal examples: Drug declined by patient, Refusal of treatment by patient
 - Medical reason examples: Allergy to drug, contraindicated, adverse reaction to drug

5. Numerator Exclusions: N/A

2.9 CMS334v4 Cesarean Birth

<https://ecqi.healthit.gov/sites/default/files/ecqm/measures/CMS334v4.html>

2.9.1 Detail and Data Entry

1. Initial Population: Inpatient hospitalizations for patients age ≥ 8 years and < 65 admitted to the hospital for inpatient acute care who undergo a delivery procedure that ends during the measurement period:

- a. ADT admission and discharge
 - b. Delivery procedure in EHR visit services ICD10PCS or PCC coding data entry
2. Denominator: Inpatient hospitalizations for nulliparous patients delivered of a live term singleton newborn ≥ 37 weeks' gestation

Note: The eCQM and chart-based measure slightly digress in the denominator logic.

- a. eCQM: The measure description states "Nulliparous women with a term, singleton baby in a vertex position delivered by cesarean birth". ACOG defines nulliparous as a woman with a parity of zero. The eCQM logic concludes that a patient is nulliparous when ONE of the following is true:
 - Parity equals zero
 - Gravidity equals one
 - Preterm and Term births both equal zero. See Definition Section for more details
- b. Chart Based: The chart based measure evaluates the data element "Previous Live Births". If the answer is "yes" the patient will be excluded from the denominator. If a patient had a previous stillbirth or fetal demise, the abstractor is instructed to answer "no" and the patient will remain in the denominator:
 - IPL SNOMED diagnosis or ICD 10 in V POV of Single Live Birth

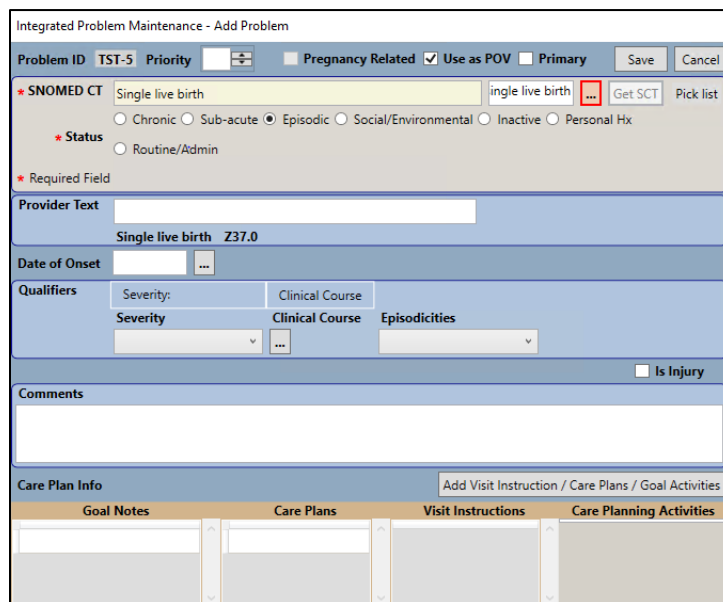


Figure 2-6: Integrated Problem Maintenance–Add Problem Menu Prompt

- c. EGA ≥ 37 weeks entered into Vitals for V measurements or in PCC V Delivery EGA while adding newborn data

Default Units	18-Jan-2024 13:47	Range	Units
Vision Uncorrected			
Head Circumference			in
Abdominal Girth			cm
<input checked="" type="radio"/> Estimated Gestational Age	37 5/7		
Fundal Height			cm
Fetal Heart Tones			
Presentation			

New Date/Time Update Reset

Figure 2-7: Vital Entry Menu, Estimated Gestational Age

```

A      Add a Newborn Entry
N      No Change

which action: N// Add a Newborn Entry
Enter NEWBORN Delivery Date/Time: N (JAN 18, 2024@13:54:29)

Note: There are no EGA measurements on file between a day before
and the delivery date. You will need to manually enter the EGA.

EGA AT DELIVERY: 37 5/7
SEX AT BIRTH: F FEMALE
LIVE/STILLBORN: L LIVE
    
```

Figure 2-8: Add a Newborn Entry menu

d. Reproductive factors:

- Currently Pregnant=Yes
- Parity=Full Term and Premature births=0
- Gravidity=Total # of Pregnancies=1

Figure 2-9: Update Reproductive Factors

3. Denominator Exclusions: Inpatient hospitalizations for patients with abnormal presentation or placenta previa during the encounter

Note: The chart-based measure excludes single stillbirth and patients with multiple gestations from the denominator. These concepts are mutually exclusive of the denominator requirement of live singleton newborn and therefore the logic does not address single stillbirth nor multiple gestation.

- a. Abnormal presentation in Vitals for V measurements

The screenshot shows a software interface with two tabs: 'Vital Entry' (selected) and 'Vital Display'. Below the tabs is a table with the following columns: 'Default Units' (a dropdown menu), '18-Jan-2024 13:08' (a date and time field), 'Range', and 'Units'. The table contains the following rows:

Default Units	18-Jan-2024 13:08	Range	Units
Head Circumference			in
Abdominal Girth			cm
Estimated Gestational Age			
Fundal Height			cm
Fetal Heart Tones			
• Presentation			
Cervix Dilatation			cm

At the bottom right of the interface are three buttons: 'New Date/Time', 'Update', and 'Reset'.

Figure 2-10: Vital Entry

4. Numerator: Inpatient hospitalizations for patients who deliver by cesarean section:
 - a. Delivery procedure in EHR visit services ICD10PCS or PCC coding data entry
5. Numerator Exclusions: None

2.10 CMS506v4 Safe Use of Opioids–Concurrent Prescribing

<https://ecqi.healthit.gov/sites/default/files/ecqm/measures/CMS506v5.html>

2.10.1 Details and Data Entry

1. Initial Population: Inpatient hospitalizations (inpatient stay less than or equal to 120 days) that end during the measurement period, where the patient is 18 years of age and older at the start of the encounter and prescribed one or more new or continuing opioid or benzodiazepine at discharge:
 - a. ADT admission/discharge
 - b. Existing order or new prescription of one or more opioid or benzodiazepine still active at discharge:
 - Outpatient medications, Outside medication, and discharge medications all count
2. Denominator: Initial Population
3. Denominator Exclusions:
 - a. Inpatient hospitalizations where patients have cancer that begins prior to or during the encounter
 - b. IPL SNOMED or ICD 10 diagnosis in V POV of cancer

- c. Receiving palliative or hospice care (including comfort measures, terminal care, and dying care) during the encounter
 - d. Patients discharged to another inpatient care facility, and patients who expire during the inpatient stay
 - e. IPL- Add Visit Instruction/ Care Plans/ Goal Activities component then Treatment Regime/Therapy/Follow-up- Palliative Care
 - f. Hospice care in Visit Services as a CPT/HCPC service code
4. Numerator: Inpatient hospitalizations where the patient is prescribed or continuing to take two or more opioids or an opioid and benzodiazepine at discharge active at discharge:
- a. Existing order or new prescription of one or more opioid or benzodiazepine still active at discharge
 - Outpatient medications, outside medication, and discharge medications all count
5. Numerator Exclusions: N/A

2.11 CMS816v2: Hospital Harm - Severe Hypoglycemia

<https://ecqi.healthit.gov/sites/default/files/ecqm/measures/CMS816v2.html>

2.11.1 Details and Data Entry

1. Initial Population: Inpatient hospitalizations where the patient is 18 years of age or older at the start of the encounter, and at least one hypoglycemic medication was administered during the encounter
2. The measure includes instances of administration of hypoglycemic medications in the emergency department or in observation status at the start of an inpatient hospitalization when assessing inclusion of encounters in the measure denominator
 - a. ADT admission discharge in hospital or Observation with admission to hospital within 59 minutes or Emergency Department admission in AMER then admission to hospital within 59 minutes
 - b. BCMA medication administration of hypoglycemic medication
3. Denominator: Equals Initial Population
4. Denominator Exclusions: None
5. Numerator: Inpatient hospitalizations where a severe hypoglycemic event occurred during the encounter, which is:
 - a. A blood glucose result less than 40 mg/dL

- Laboratory test performed and resulted in V Lab based on Glucose test LOINC
 - b. A hypoglycemic medication administered within 24 hours prior to the start of the severe hypoglycemic event (i.e., the glucose result less than 40 mg/dL):
 - BCMA medication administration of hypoglycemic medication
 - c. No subsequent repeat test for blood glucose with a result greater than 80 mg/dL within five minutes of the start of the initial blood glucose test with result less than 40mg/dL:
 - Laboratory test performed and resulted in V Lab based on Glucose test LOINC
 - d. Only the first qualifying severe hypoglycemic event is counted in the numerator, and only one severe hypoglycemic event is counted per encounter. The 24-hour and 5-minute timeframes are based on the time the blood glucose was drawn, as this reflects the time the patient was experiencing that specific blood glucose level
6. Numerator Exclusions: Not Applicable
7. Denominator Exceptions: None

2.12 CMS871v2 Hospital Harm–Severe Hyperglycemia

<https://ecqi.healthit.gov/sites/default/files/ecqm/measures/CMS871v2.html>

2.12.1 Detail and Data Entry

1. Initial Population: Inpatient hospitalizations where the patient is 18 years or older at the start of the admission with a discharge during the measurement period, as well as either:
 - a. ADT admission discharge in hospital or Observation with admission to hospital within 59 minutes or Emergency Department admission in AMER then admission to hospital within 59 minutes and one of the following:
 - A diagnosis of diabetes that starts before or during the encounter; or
 - IPL SNOMED or ICD10 in V POV diagnosis of diabetes
 - Administration of at least one dose of insulin or any hypoglycemic medication during the encounter; or
 - BCMA medication administration of hypoglycemic
 - Presence of at least one blood glucose value ≥ 200 mg/dL at any time during the encounter
 - Laboratory test performed and resulted in V Lab based on Glucose test LOINC

- b. The measure includes inpatient hospitalizations that began in the emergency department or in observation
 2. Denominator: Equals Initial Population
 3. Denominator Exclusions: Inpatient hospitalizations for patients with an initial blood glucose result of ≥ 1000 mg/dL anytime between 1 hour prior to the start of the encounter to 6 hours after the start of the encounter:
 - a. Laboratory tests performed and resulted in V Lab based on Glucose test LOINC
 4. There are two Measure Observations:
 - a. Measure Observation 1, associated with the Denominator: The total number of eligible days of the inpatient hospitalization which match the initial population/denominator criteria
 - b. Measure Observation 2, associated with the Numerator: The total number of hyperglycemic days during the inpatient hospitalization. Days with a hyperglycemic event are defined as:
 - All days with a blood glucose level >300 mg/dL (except those occurring in the first 24-hour period after admission to the hospital (including the emergency department and observation))
 - Laboratory test performed and resulted in V Lab based on Glucose test LOINC
 - OR
 - All days where a blood glucose was not measured, and it was preceded by two consecutive days where at least one glucose value during each of the two days was ≥ 200 mg/dL
 - Laboratory test performed and resulted in V Lab based on Glucose test LOINC
 - c. The length of stay for all eligible inpatient hospitalizations is truncated to ≤ 10 days when the length exceeds 10 days
 - d. Do not count the last day if it was less than a 24-hour period as this is not considered a full day
 5. Numerator: Inpatient hospitalizations with a hyperglycemic event within the first 10 days of the encounter minus the first 24 hours, and minus the last period before discharge if less than 24 hours:
 - a. A hyperglycemic event is defined as:
 - A day with at least one blood glucose value >300 mg/dL;
 - Laboratory test performed and resulted in V Lab based on Glucose test LOINC

- OR
 - A day where a blood glucose test was not done, and it was preceded by two consecutive days where at least one glucose value during each of the two days was ≥ 200 mg/dL
 - Laboratory test performed and resulted in V Lab based on Glucose test LOINC
6. Numerator Exclusions: Not Applicable
7. Denominator Exceptions: None

2.13 CMS1028v1 Severe Obstetric Complications

<https://ecqi.healthit.gov/sites/default/files/ecqm/measures/CMS1028v1.html>

2.13.1 Details and Data Entry

1. Initial Population: Inpatient hospitalizations for patients age ≥ 8 years and < 65 admitted to the hospital for inpatient acute care who undergo a delivery procedure with a discharge date that ends during the measurement period
 - a. ADT admission and discharge
 - b. Delivery procedure in EHR visit services ICD10PCS or PCC coding data entry
2. Denominator: Inpatient hospitalizations for patients delivering stillborn or live birth with ≥ 20 weeks, 0 days gestation completed
 - a. ADT admission
 - b. IPL SNOMED or ICD Diagnosis in V POV of stillborn or live birth
 - c. Estimated Gestational Age (EGA) in Measurements or V Delivery in PCC data entry ≥ 20
3. Denominator Exclusions: Inpatient hospitalizations for patients with confirmed diagnosis of COVID with COVID-related respiratory condition or patients with confirmed diagnosis of COVID with COVID-related respiratory procedure
 - a. IPL SNOMED or ICD Diagnosis in V POV
 - b. Respiratory procedure in EHR visit services ICD10PCS or PCC coding data entry No or Unable to Determine
4. Numerator: Inpatient hospitalizations for patients with severe obstetric complications (not present on admission that occur during the current delivery encounter) including the following:
 - a. Severe maternal morbidity diagnoses (see list below)
 - IPL SNOMED or ICD Diagnosis in V POV

- ICD diagnosis with Present on Admission No, in PCC data entry
- b. Severe maternal morbidity procedures (see list below)
 - Procedure in EHR visit services ICD10PCS or PCC coding data entry
- c. Discharge disposition of expired
 - ADT discharge status type as Expired UB04 code 20
- d. Severe Maternal Morbidity Diagnoses:
 - Cardiac
 - Acute heart failure
 - Acute myocardial infarction
 - Aortic aneurysm
 - Cardiac arrest/ventricular fibrillation
 - Heart failure/arrest during procedure or surgery
 - Hemorrhage
 - Disseminated intravascular coagulation
 - Shock
 - Renal
 - Acute renal failure
 - Respiratory
 - Adult respiratory distress syndrome
 - Pulmonary edema
 - Sepsis
 - Other OB
 - Air and thrombotic embolism
 - Amniotic fluid embolism
 - Eclampsia
 - Severe anesthesia complications
 - Other Medical
 - Puerperal cerebrovascular disorder
 - Sickle cell disease with crisis
- e. Severe Maternal Morbidity Procedures:
 - Blood transfusion
 - Conversion of cardiac rhythm
 - Temporary tracheostomy
 - Ventilation

5. Denominator Exceptions: None
6. Numerator Exclusions: Not applicable

3.0 Eligible Clinician Measures (For 2023 Reporting Period)

3.1 CMS2v12 Preventive Care and Screening: Screening for Depression and Follow-Up Plan

<https://ecqi.healthit.gov/sites/default/files/ecqm/measures/CMS2v12.html>

3.1.1 Details and Data Entry

1. Initial Population: All patients aged 12 years and older at the beginning of the measurement period with at least one eligible encounter during the measurement period:
 - a. Patient of age with one qualifying encounter examples: Ambulatory, Telephone, Physical therapy, etc.
2. Denominator: Equals Initial Population
3. Denominator Exclusions: Patients who have been diagnosed with depression or with bipolar disorder
 - a. IPL SNOMED problem diagnosis or ICD 10 in V POV or depression or bipolar disorder
4. Numerator: Patients screened for depression on the date of the encounter or up to 14 days prior to the date of the encounter using an age-appropriate standardized tool AND if positive, a follow-up plan is documented on the date of the eligible encounter
 - a. Vitals for V Measurement scoring positive in either PHQ9, PHQ9, or PHQ-T depending on age
 - Follow up documented in TREG to IPL entry in the Treatment\Regime\Therapy- Follow-up
 - Depression medication order
 - Patient referral in RCIS
 - Consult order
 - b. Exam for Depression screening resulted positive:
 - Follow up documented in TREG to IPL entry in the Treatment\Regime-Follow-up
 - Depression medication order
 - Patient referral in RCIS

- Consult order

Note: Negative results in both Measurements and Exams will count in the numerator.

5. Numerator Exclusions: N/A

3.2 CMS22v11 Preventive Care and Screening: Screening for High Blood Pressure and Follow-Up Documented

<https://ecqi.healthit.gov/sites/default/files/ecqm/measures/CMS2v12.html>

3.2.1 Details and Data Entry

1. Initial Population: All patient visits for patients aged 18 years and older at the beginning of the measurement period
 - a. Ambulatory service category and visit services with office visit CPT or preventative care CPT are some examples of qualifying encounters
2. Denominator: Equals Initial Population
3. Denominator Exclusions: Patient has an active diagnosis of hypertension
 - a. IPL SNOMED or ICD 10 in V POV active diagnosis for hypertension
4. Numerator: Patient visits where patients were screened for high blood pressure AND have a recommended follow-up plan documented, as indicated, if the blood pressure is elevated or hypertensive
 - a. Vital measurement entry for blood pressure if high
 - Follow up documented in TREG to IPL entry in the Treatment\Regime\Follow up- Follow-up
 - Prescribed diet education documented in TREG to IPL entry Treatment\Regimen\Follow up-Weight Management
 - Patient referral in RCIS to primary care or alternate provider
 - Patient referral in RCIS for alcohol counseling
 - Patient referral in RCIS to dietitian
 - Patient education for Lifestyle Adaptations
 - Medication order for Pharmacologic Therapy or Adverse Reaction/Allergy to Pharmacologic Therapy

5. Denominator Exceptions: Documentation of medical reason(s) for not screening for high blood pressure (e.g., patient is in an urgent or emergent medical situation where time is of the essence and to delay treatment would jeopardize the patient's health status)
6. Documentation of patient reason(s) for not screening for blood pressure measurements or for not ordering an appropriate follow-up intervention if patient BP is elevated or hypertensive (e.g., patient refuses)
 - a. EHR Personal Health Refusal for blood pressure measurement examples of reasons: Contraindicated, Not Indicated, Absent Response to Treatment
7. Numerator Exclusions: N/A

3.3 CMS50v11 Closing the Referral Loop: Receipt of Specialist Report

<https://ecqi.healthit.gov/sites/default/files/ecqm/asures/CMS50v11.html>

3.3.1 Detail and Data Entry

1. Initial Population: Number of patients, regardless of age, who had a visit during the measurement period and were referred by one provider to another provider
 - a. Ambulatory service category and visit services with office visit CPT or preventative care CPT are some examples of qualifying encounters
 - b. Patient referral in the RCIS package approved during the measurement period
2. Denominator: Equals Initial Population
3. Denominator Exclusions: None
4. Numerator: Number of patients with a referral, for which the referring provider received a report from the provider to whom the patient was referred
 - a. Patient referral closed-completed from RCIS package and provider received the consultation report back and acknowledged via the EHR Clinical Consultation button (referral needs to be highlighted before utilizing the button)

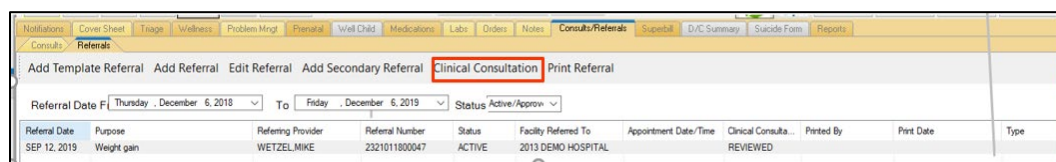


Figure 3-1: Patient Referral tab for Clinical Consultation

5. Numerator Exclusions: N/A

3.4 CMS69v11 Preventive Care and Screening: BMI Screening and Follow-Up Plan

<https://ecqi.healthit.gov/sites/default/files/ecqm/measures/CMS69v11.html>

3.4.1 Detail and Data Entry

1. Initial Population: All patients aged 18 and older on the date of the encounter with at least one eligible encounter during the measurement period
 - a. An ambulatory medical, dental, counseling encounter for a patient 18+ before the beginning of the measurement period
2. Denominator: Equals Initial Population
3. Denominator Exclusions: Patients who are pregnant or patients receiving palliative or hospice care
 - a. IPL SNOMED or ICD 10 in V POV diagnosis of pregnancy during the measurement period
 - b. TREG entry in Palliative Care
 - c. Visit services HCPC code for Hospice care
4. Numerator: Patients with a documented BMI during the encounter or during the previous twelve months, AND when the BMI is outside of normal parameters, a follow-up plan is documented during the encounter or during the previous twelve months of the current encounter
 - a. Vital measurement entry for both height and weight to calculate the BMI in V Measurements
 - b. TREG entry in Weight Management for prescribed diet or exercise therapy
 - c. Medication ordered for above or below average BMI (Outpatient prescribed or Outside documented)
 - d. Patient referral in RCIS examples: referral to mental health counselor, referral to psychiatrist, referral to physical activity program
 - e. Visit services CPT/HCPC code for nutrition education or exercise education
 - f. Surgical procedures CPT in visit services for Above normal BMI
5. Numerator Exclusions: N/A

6. Denominator Exceptions: Patients with a documented medical reason for not documenting BMI or for not documenting a follow-up plan for a BMI outside normal parameters (e.g., elderly patients 65 years of age or older for whom weight reduction/weight gain would complicate other underlying health conditions such as illness or physical disability, mental illness, dementia, confusion, or nutritional deficiency such as vitamin/mineral deficiency; patients in an urgent or emergent medical situation where time is of the essence and to delay treatment would jeopardize the patient's health status)
7. Patients who refuse measurement of height and/or weight
 - a. Personal health refusal for height and/or weight measurement

3.5 CMS117v11 Childhood Immunization Status

<https://ecqi.healthit.gov/sites/default/files/ecqm/measures/CMS117v11.html>

3.5.1 Detail and Data Entry

1. Initial Population: Children who turn 2 years of age during the measurement period and who have a visit during the measurement period
2. Denominator: Equals Initial Population
3. Denominator Exclusions: Exclude children with any of the following on or before the child's second birthday:
 - Severe combined immunodeficiency
 - Immunodeficiency
 - HIV
 - Lymphoreticular cancer, multiple myeloma or leukemia
 - Intussusception
 - a. IPL SNOMED or ICD 10 in V POV diagnosis or condition listed aboveExclude patients who are in hospice care for any part of the measurement period
 - b. Visit service HCPC code for hospice services
 - c. TREG entry in the IPL for hospice care in Palliative Care category
4. Numerator: Children who have evidence showing they received recommended vaccines, had documented history of the illness, had a seropositive test result, or had an allergic reaction to the vaccine by their second birthday
 - a. Administered or documented historical immunization in the EHR meeting the following criteria below for each

- b. Immunization contraindicated with anaphylaxis reason for not administering immunization meeting the following criteria below for each
- c. IPL SNOMED or ICD 10 in V POV is history of illness meeting the criteria below for each
- d. Laboratory test performed and resulted indicating immunized meeting the following criteria below

Diphtheria, Tetanus, and Pertussis (DTaP) Vaccination

Children with any of the following on or before the child's second birthday meet criteria:

- At least four DTaP vaccinations, with different dates of service. Do not count a vaccination administered prior to 42 days after birth
- Anaphylaxis due to the diphtheria, tetanus or pertussis vaccine
- Encephalitis due to the diphtheria, tetanus or pertussis vaccine

Poliovirus Vaccination (IPV)

At least three IPV vaccinations, with different dates of service on or before the child's second birthday. Do not count a vaccination administered prior to 42 days after birth.

Measles, Mumps, and Rubella Vaccination (MMR)

Children with either of the following meet criteria:

- At least one MMR vaccination on or between the child's first and second birthdays
- All of the following anytime on or before the child's second birthday (on the same or different date of service):
 - History of measles
 - History of mumps
 - History of rubella

Haemophilus Influenzae Type B Vaccination (HiB)

Children with either of the following meet criteria on or before the child's second birthday:

- At least three HiB vaccinations, with different dates of service. Do not count a vaccination administered prior to 42 days after birth
- Anaphylaxis due to the HiB vaccine

Hepatitis B

Children with any of the following on or before the child's second birthday meet criteria:

- At least three hepatitis B vaccinations, with different dates of service

- One of the three vaccinations can be a newborn hepatitis B vaccination during the eight-day period that begins on the date of birth and ends seven days after the date of birth. For example, if the member's date of birth is December 1, the newborn hepatitis B vaccination must be on or between December 1 and December 8
- Anaphylaxis due to the hepatitis B vaccine
- History of hepatitis B illness

Varicella Vaccination (VZV)

Children with either of the following meet criteria:

- At least one VZV vaccination, with a date of service on or between the child's first and second birthdays
- History of varicella zoster (e.g., chicken pox) illness on or before the child's second birthday

Pneumococcal Conjugate

At least four pneumococcal conjugate vaccinations, with different dates of service on or before the child's second birthday. Do not count a vaccination administered prior to 42 days after birth.

Hepatitis A

Children with either of the following meet criteria:

- At least one hepatitis A vaccination, with a date of service on or between the child's first and second birthdays
- History of hepatitis A illness on or before the child's second birthday

Rotavirus

Children with any of the following meet criteria:

- At least two doses of the two-dose rotavirus vaccine on different dates of service on or before the child's second birthday. Do not count a vaccination administered prior to 42 days after birth
- At least three doses of the three-dose rotavirus vaccine on different dates of service on or before the child's second birthday. Do not count a vaccination administered prior to 42 days after birth
- At least one dose of the two-dose rotavirus vaccine and at least two doses of the three-dose rotavirus vaccine, all on different dates of service, on or before the child's second birthday. Do not count a vaccination administered prior to 42 days after birth
- Anaphylaxis due to the rotavirus vaccine on or before the child's second birthday

Influenza

At least two influenza vaccinations, with different dates of service on or before the child's second birthday. Do not count a vaccination administered prior to 6 months (180 days) after birth

- One of the two vaccinations can be an LAIV vaccination administered on the child's second birthday. Do not count an LAIV vaccination administered before the child's second birthday

5. Numerator Exclusions: N/A

6. Denominator Exceptions: None

3.6 CMS122v11 Diabetes: Hemoglobin A1c Poor Control (> 9%)

<https://ecqi.healthit.gov/sites/default/files/ecqm/measures/CMS122v11.html>

3.6.1 Detail and Data Entry

1. Initial Population: Patients 18-75 years of age with diabetes with a visit during the measurement period
 - a. Visit services with office visit CPT, preventative care CPT, Wellness, Telephone are some examples of qualifying encounters
 - b. IPL SNOMED or ICD 10 in V POV diagnosis of diabetes
2. Denominator: Equals Initial Population
3. Denominator Exclusions:
 - a. Women who had a bilateral mastectomy or who have a history of a bilateral mastectomy or for whom there is evidence of a right and a left unilateral mastectomy
 - Mastectomy procedure entered in Visit Services or historical procedures both go to V CPT laterality must be specified in the modifiers (Bilateral, Left, or Right)
 - b. Exclude patients who are in hospice care for any part of the measurement period
 - Hospice care service HCPC code in the Visit Services
 - Hospice Care TREG entry in the IPL Palliative care category
 - Inpatient hospitalization discharged to Hospice in ADT

- c. Exclude patients 66 and older by the end of the measurement period who are living long term in a nursing home any time on or before the end of the measurement period
 - CPT for nursing home services in Visit Services
 - d. Exclude patients 66 and older by the end of the measurement period with an indication of frailty for any part of the measurement period who also meet any of the following advanced illness criteria:
 - Advanced illness with two outpatient encounters during the measurement period or the year prior
 - Frailty device issued in Visit Services with HCPC code AND IPL SNOMED or ICD 10 in V POV diagnosis of advanced illness
 - OR advanced illness with one inpatient encounter during the measurement period or the year prior
 - Frailty device issued in Visit Services with HCPC code AND IPL SNOMED or ICD 10 in V POV diagnosis of advanced illness AND an inpatient encounter
 - OR taking dementia medications during the measurement period or the year prior
 - Active medication order prescribed in Outpatient medications or documented in Outside medications
 - e. Exclude patients receiving palliative care for any part of the measurement period
 - TREG entry in the IPL in the Palliative care category
4. Numerator: Patients whose most recent HbA1c level (performed during the measurement period) is >9.0% or is missing, or was not performed during the measurement period
 - a. Laboratory test resulted in V Lab for HbA1c >9.0% or NO laboratory test resulted
 5. Numerator Exclusions: N/A
 6. Denominator Exceptions: None

3.7 CMS124v11 Cervical Cancer Screening

<https://ecqi.healthit.gov/sites/default/files/ecqm/measures/CMS124v11.html>

3.7.1 Detail and Data Entry

1. Initial Population: Women 23-64 years of age with a visit during the measurement period

- a. Visit services with office visit CPT, preventative care CPT, Wellness, Telephone are some examples of qualifying encounters
2. Denominator: Equals Initial Population
3. Denominator Exclusions: Women who had a hysterectomy with no residual cervix or a congenital absence of cervix. Exclude patients who are in hospice care for any part of the measurement period. Exclude patients receiving palliative care for any part of the measurement period
 - a. CPT procedure code in Visit Services for hysterectomy
 - b. SNOMED entry in IPL for hysterectomy
 - c. Hospice care service HCPC code in the Visit Services
 - d. Hospice Care TREG entry in the IPL in the Palliative Care category
 - e. Inpatient hospitalization discharged to Hospice in ADT
 - f. TREG entry in the IPL in the palliative care category
4. Numerator: Women with one or more screenings for cervical cancer. Appropriate screenings are defined by any one of the following criteria:
 - a. Cervical cytology performed during the measurement period or the two years prior to the measurement period for women who are at least 21 years old at the time of the test
 - Laboratory test performed and resulted in V Lab
 - b. Cervical human papillomavirus (HPV) testing performed during the measurement period or the four years prior to the measurement period for women who are 30 years or older at the time of the test
 - Laboratory test performed and resulted in V Lab
5. Numerator Exclusions: N/A
6. Denominator Exceptions: None

3.8 CMS125v11 Breast Cancer Screening

<https://ecqi.healthit.gov/sites/default/files/ecqm/measures/CMS125v11.html>

3.8.1 Detail and Data Entry

1. Initial Population: Women 52-74 years of age by the end of the measurement period with a visit during the measurement period
 - a. Visit services with preventative care, office visit, wellness and telephone are some examples of qualifying encounters
2. Denominator: Equals Initial Population

3. Denominator Exclusions:
 - a. Women who had a bilateral mastectomy or who have a history of a bilateral mastectomy or for whom there is evidence of a right and a left unilateral mastectomy
 - Mastectomy procedure entered in Visit Services or historical procedures both go to V CPT laterality must be specified in the modifiers (Bilateral, Left, or Right)
 - b. Exclude patients who are in hospice care for any part of the measurement period
 - Hospice care service HCPC code in the Visit Services
 - Hospice Care TREG entry in the IPL Palliative care category
 - Inpatient hospitalization discharged to Hospice in ADT
 - c. Exclude patients 66 and older by the end of the measurement period who are living long term in a nursing home any time on or before the end of the measurement period
 - CPT for nursing home services in Visit Services
 - d. Exclude patients 66 and older by the end of the measurement period with an indication of frailty for any part of the measurement period who also meet any of the following advanced illness criteria:
 - Advanced illness with two outpatient encounters during the measurement period or the year prior
 - Frailty device issued in Visit Services with HCPC code AND IPL SNOMED or ICD 10 in V POV diagnosis of advanced illness
 - OR advanced illness with one inpatient encounter during the measurement period or the year prior
 - Frailty device issued in Visit Services with HCPC code AND IPL SNOMED or ICD 10 in V POV diagnosis of advanced illness AND an inpatient encounter
 - OR taking dementia medications during the measurement period or the year prior
 - Active medication order prescribed in Outpatient medications or documented in Outside medications
 - e. Exclude patients receiving palliative care for any part of the measurement period
 - TREG entry in the IPL in the Palliative care category
4. Numerator: Women with one or more mammograms any time on or between October 1 two years prior to the measurement period and the end of the measurement period

- a. Radiology procedure completed in V Radiology
 - b. mammography procedure code entered in visit services or historical CPT entered in Historical Procedure
5. Numerator Exclusions: Not Applicable
 6. Denominator Exceptions: None

3.9 CMS127v11 Pneumococcal Vaccination Status for Older Adults

<https://ecqi.healthit.gov/ecqm/ec/2022/cms127v10>

3.9.1 Detail and Data Entry

1. Initial Population: Patients 66 years of age and older at the start of the measurement period with a visit during the measurement period
 - a. Visit services with preventative care, office visit, wellness and telephone are some examples of qualifying encounters
 - b. Inpatient admission/discharge in ADT
2. Denominator: Equals Initial Population
3. Denominator Exclusions: Exclude patients who are in hospice care for any part of the measurement period
 - a. Hospice care service HCPC code in the Visit Services
 - b. Hospice Care TREG entry in the IPL Palliative care category
 - c. Inpatient hospitalization discharged to Hospice in ADT
4. Numerator: Patients who received a pneumococcal vaccination on or after their 60th birthday and before the end of the measurement period
 - a. Pneumococcal immunization entered as administered or historical documented in the Immunization component in the EHR
 - b. Pneumococcal administration CPT code in Visit Services
5. Numerator Exclusions: Not Applicable
6. Denominator Exceptions: None

3.10 CMS130v11 Colorectal Cancer Screening

<https://ecqi.healthit.gov/sites/default/files/ecqm/measures/CMS111v11.html>

3.10.1 Detail and Data Entry

1. Initial Population: Patients 46-75 years of age by the end of the measurement period with a visit during the measurement period
 - a. Visit services with preventative care, office visit, wellness and telephone are some examples of qualifying encounters
2. Denominator: Equals Initial Population
3. Denominator Exclusions :
 - a. Exclude patients who are in hospice care for any part of the measurement period
 - Hospice care service HCPC code in the Visit Services
 - Hospice Care TREG entry in the IPL Palliative care category
 - Inpatient hospitalization discharged to Hospice in ADT
 - b. Exclude patients with a diagnosis or past history of total colectomy or colorectal cancer.
 - Total colectomy procedure in Visit Services as a CPT or ICD10CS or IPL SNOMED entry in the IPL
 - IPL SNOMED or ICD10 diagnosis of colon cancer in V POV
 - c. Exclude patients receiving palliative care for any part of the measurement period.
 - TREG entry in the IPL in the Palliative care category
4. Numerator: Patients with one or more screenings for colorectal cancer. Appropriate screenings are defined by any one of the following criteria:
 - a. Fecal occult blood test (FOBT) during the measurement period
 - Laboratory test performed and resulted to V LAB either POC in-house or outside reference lab
 - b. FIT-DNA during the measurement period or the two years prior to the measurement period
 - Laboratory test performed and resulted to V LAB either POC in-house or outside reference lab
 - c. Flexible sigmoidoscopy during the measurement period or the four years prior to the measurement period
 - Sigmoidoscopy procedure CPT/HCPC code in Visit Services
 - Sigmoidoscopy procedure in IPL SNOMED

- d. CT Colonography during the measurement period or the four years prior to the measurement period
 - Radiology procedure ordered and completed in V Radiology
 - CT Colonography procedure code entered in visit services or historical CPT entered in Historical Procedure
- e. Colonoscopy during the measurement period or the nine years prior to the measurement period
 - Colonoscopy procedure CPT/HCPC code in Visit Services
 - Colonoscopy procedure in IPL SNOMED
5. Numerator Exclusions: Not Applicable
6. Denominator Exceptions: None

3.11 CMS131v11 Diabetes: Eye Exam

<https://ecqi.healthit.gov/sites/default/files/ecqm/measures/CMS131v11.html>

3.11.1 Detail and Data Entry

1. Patients 18-75 years of age by the end of the measurement period, with diabetes with a visit during the measurement period
 - a. Visit services with preventative care, office visit, wellness and telephone are some examples of qualifying encounters
2. Denominator: Equals Initial Population
3. Denominator Exclusions:
 - a. Exclude patients who are in hospice care for any part of the measurement period
 - Hospice care service HCPC code in the Visit Services
 - Hospice Care TREG entry in the IPL Palliative care category
 - Inpatient hospitalization discharged to Hospice in ADT
 - b. Exclude patients 66 and older by the end of the measurement period who are living long term in a nursing home any time on or before the end of the measurement period
 - CPT for nursing home services in Visit Services
 - c. Exclude patients 66 and older by the end of the measurement period with an indication of frailty for any part of the measurement period who also meet any of the following advanced illness criteria:

- Advanced illness with two outpatient encounters during the measurement period or the year prior
 - Frailty device issued in Visit Services with HCPC code AND IPL SNOMED or ICD 10 in V POV diagnosis of advanced illness
 - OR advanced illness with one inpatient encounter during the measurement period or the year prior
 - Frailty device issued in Visit Services with HCPC code AND IPL SNOMED or ICD 10 in V POV diagnosis of advanced illness AND an inpatient encounter
 - OR taking dementia medications during the measurement period or the year prior
 - Active medication order prescribed in Outpatient medications or documented in Outside medications
 - d. Exclude patients receiving palliative care for any part of the measurement period
 - TREG entry in the IPL in the Palliative care category
4. Numerator: Patients with an eye screening for diabetic retinal disease. This includes diabetics who had one of the following:
- a. Diabetic with a diagnosis of retinopathy in any part of the measurement period and a retinal or dilated eye exam by an eye care professional in the measurement period
 - IPL SNOMED or ICD 10 in V POV diagnosis of diabetes and retinopathy and Exam in EHR for Diabetic Eye Exam
 - b. Diabetic with no diagnosis of retinopathy in any part of the measurement period and a retinal or dilated eye exam by an eye care professional in the measurement period or the year prior to the measurement period
 - IPL SNOMED or ICD 10 in V POV diagnosis of diabetes and Exam in EHR for Diabetic Eye Exam
5. Numerator Exclusions: Not Applicable
6. Denominator Exceptions: None

3.12 CMS134v10 Diabetes: Medical Attention for Nephropathy (retired measure—for trending purposes only)

<https://ecqi.healthit.gov/ecqm/ec/2022/cms134v10>

3.12.1 Detail and Data Entry

1. Initial Population: Patients 18-75 years of age with diabetes with a visit during the measurement period
 - a. Visit services with preventative care, office visit, wellness and telephone are some examples of qualifying encounters
2. Denominator: Equals Initial Population
3. Denominator Exclusions:
 - a. Exclude patients who are in hospice care for any part of the measurement period
 - Hospice care service HCPC code in the Visit Services
 - Hospice Care TREG entry in the IPL Palliative care category
 - Inpatient hospitalization discharged to Hospice in ADT
 - b. Exclude patients 66 and older by the end of the measurement period who are living long term in a nursing home any time on or before the end of the measurement period.
 - CPT for nursing home services in Visit Services
 - c. Exclude patients 66 and older by the end of the measurement period with an indication of frailty for any part of the measurement period who also meet any of the following advanced illness criteria:
 - Advanced illness with two outpatient encounters during the measurement period or the year prior
 - Frailty device issued in Visit Services with HCPC code AND IPL SNOMED or ICD 10 in V POV diagnosis of advanced illness
 - OR advanced illness with one inpatient encounter during the measurement period or the year prior
 - Frailty device issued in Visit Services with HCPC code AND IPL SNOMED or ICD 10 in V POV diagnosis of advanced illness AND an inpatient encounter
 - OR taking dementia medications during the measurement period or the year prior
 - Active medication order prescribed in Outpatient medications or documented in Outside medications
 - d. Exclude patients receiving palliative care for any part of the measurement period
 - TREG entry in the IPL in the Palliative care category

4. Numerator: Patients with a screening for nephropathy or evidence of nephropathy during the measurement period
 - a. Active ACE or ARB Medication in Outpatient or Outside medications
 - b. IPL SNOMED or ICD10 in V POV of Nephropathy Diagnoses
 - c. Nephropathy Screenings from Microalbumin/Creatinine [Ratio] in Urine (UACR) laboratory test performed and resulted in V Lab
5. Numerator Exclusions: Not Applicable
6. Denominator Exceptions: None

3.13 CMS137v11 Initiation and Engagement of Alcohol and Other Drug Dependence Treatment

<https://ecqi.healthit.gov/sites/default/files/ecqm/measures/CMS138v11.html>

3.13.1 Detail and Data Entry

1. Initial Population: Patients age 13 years of age and older as of the start of the measurement period who were diagnosed with a new SUD episode during a visit between January 1 and November 14 of the measurement period
 - a. Emergency department visit, inpatient or observation admission/discharge, office visit, telephone visit, and online assessment are examples of a qualifying encounter
2. Denominator: Equals Initial Population
 - Denominator Exclusions: Exclude patients who are in hospice care for any part of the measurement period Hospice care service HCPC code in the Visit Services
 - Hospice Care TREG entry in the IPL Palliative care category
 - Inpatient hospitalization discharged to Hospice in ADT
3. Numerator:
 - a. Numerator 1: Initiation of treatment includes either an intervention or medication for the treatment of SUD within 14 days of the new SUD episode
 - SUD services CPT/HCPC code in Visit Services
 - Substance abuse disorder performed in TREG entry in the IPL Substance abuse category
 - SUD medication order for treatment in Outpatient or Outside medications
 - b. Numerator 2: Engagement in ongoing SUD treatment within 34 days of initiation includes:

- A long-acting SUD medication on the day after the initiation through 34 days after the initiation of treatment

AND

- One of the following options on the day after the initiation of treatment through 34 days after the initiation of treatment:
 - Two engagement visits
 - Two engagement medication treatment events
 - One engagement visit and one engagement medication treatment event

4. Numerator Exclusions: Not Applicable

5. Denominator Exceptions: None

3.14 CMS138v11 Preventive Care and Screening: Tobacco Use: Screening and Cessation Intervention

<https://ecqi.healthit.gov/sites/default/files/ecqm/asures/CMS138v11.html>

3.14.1 Detail and Data Entry

1. Initial Population: All patients aged 18 years and older seen for at least two visits or at least one preventive visit during the measurement period
 - a. Two qualifying visit encounter examples are office visit, wellness, physical therapy, ophthalmology and telephone
 - b. Preventative visits are documented in the EHR within the Evaluation Management in the Preventative Medicine services, or individual or group preventative counseling CPT within the Visit Services
2. Denominator:
 - a. Population 1: Equals Initial Population
 - b. Population 2: Equals Initial Population who were screened for tobacco use during the measurement period and identified as a tobacco user
 - Tobacco use health factors (Smoke or Smokeless) in the EHR with a user status
 - c. Population 3: Equals Initial Population
3. Denominator Exclusions: Exclude patients who are in hospice care for any part of the measurement period
 - Hospice care service HCPC code in the Visit Services
 - Hospice Care TREG entry in the IPL Palliative care category
 - Inpatient hospitalization discharged to Hospice in ADT

4. Numerator:
 - a. Population 1: Patients who were screened for tobacco use at least once during the measurement period
 - Tobacco use health factor (Smoke or Smokeless) documented
 - b. Population 2: Patients who received tobacco cessation intervention during the measurement period or in the six months prior to the measurement period
 - Tobacco cessation CPT in Visit Services
 - Tobacco cessation medication in Outpatient or Outside medications
 - Tobacco patient education topic
 - Patient referral for Tobacco Cessation in EHR/RCIS
 - TREG entry in the IPL for “Referral to tobacco quit line” in the Tobacco category
5. Population 3: Patients who were screened for tobacco use at least once during the measurement period AND who received tobacco cessation intervention during the measurement period or in the six months prior to the measurement period if identified as a tobacco user
 - Tobacco use health factor (Smoke or Smokeless) documented
 - AND one of the following:
 - Tobacco cessation CPT in Visit Services
 - Tobacco cessation medication in Outpatient or Outside medications
 - Tobacco patient education topic
 - Patient referral for Tobacco Cessation in EHR/RCIS
 - TREG entry in the IPL for “Referral to tobacco quit line” in the Tobacco category
6. Numerator Exclusions: Not Applicable
7. Denominator Exceptions: None

3.15 CMS139v11 Falls: Screening for Future Fall Risk

<https://ecqi.healthit.gov/sites/default/files/ecqm/measures/CMS139v11.html>

3.15.1 Detail and Data Entry

1. Initial Population: Patients aged 65 years and older at the start of the measurement period with a visit during the measurement period
 - a. Qualifying visit encounter examples are office visit, wellness, physical therapy, ophthalmology and telephone

2. Denominator: Equals Initial Population
 - Denominator Exclusions: Exclude patients who are in hospice care for any part of the measurement period
 - Hospice care service HCPC code in the Visit Services
 - Hospice Care TREG entry in the IPL Palliative care category
 - Inpatient hospitalization discharged to Hospice in ADT
3. Numerator: Patients who were screened for future fall risk at least once within the measurement period
 - Fall Risk Exam code 37 documented in the EHR
4. Numerator Exclusions: Not Applicable
5. Denominator Exceptions: None

3.16 CMS144v11 Heart Failure: Beta-Blocker Therapy for Left Ventricular Systolic Dysfunction (LVSD)

<https://ecqi.healthit.gov/sites/default/files/ecqm/measures/CMS144v11.html>

3.16.1 Detail and Data Entry

1. Initial Population: All patients aged 18 years and older with two qualifying encounters during the measurement period and a diagnosis of heart failure
 - a. Qualifying encounter examples are office visit, Ambulatory service category, home health care
 - b. IPL SNOMED or ICD10 in V POV diagnosis of heart failure
2. Denominator: Equals Initial Population with a current or prior LVEF \leq 40%
 - a. IPL SNOMED or ICD10 in V POV diagnosis of both heart failure AND moderate or severe left ventricular failure
3. Denominator Exclusions: Patients with a history of heart transplant or with a Left Ventricular Assist Device (LVAD) prior to the end of the outpatient encounter with Moderate or Severe LVSD
 - a. Has Heart Transplant
 - CPT code in Visit Services
 - b. Has Heart Transplant Related Diagnosis
 - IPL SNOMED or ICD10 in V POV diagnosis
 - c. Has Left Ventricular Assist Device Implanted

- CPT code in Visit Services
- d. Has Left Ventricular Assist Device Related Diagnosis
 - IPL SNOMED or ICD10 in V POV diagnosis
- 4. Numerator: Patients who were prescribed or already taking beta-blocker therapy during the measurement period
 - a. Active beta-blocker therapy medication in Outpatient or Outside
- 5. Numerator Exclusions: Not Applicable
- 6. Denominator Exceptions: Documentation of medical reason(s) for not prescribing beta-blocker therapy:
 - a. Arrhythmia
 - IPL SNOMED or ICD10 in V POV diagnosis
 - b. Asthma
 - IPL SNOMED or ICD10 in V POV diagnosis
 - c. Bradycardia
 - IPL SNOMED or ICD10 in V POV diagnosis
 - d. Hypotension
 - IPL SNOMED or ICD10 in V POV diagnosis
 - e. Patients with atrioventricular block without cardiac pacer
 - IPL SNOMED or ICD10 in V POV diagnosis and NO history of CPT/HCPC code for heart pacer
 - f. Observation of consecutive heart rates <50
 - Two most recent consecutive Pulses documented in V Measurements <50
 - g. Allergy, intolerance
 - Entry of Adverse Reactions/Allergy to medication or medication ingredient for beta-blocker
 - h. Documentation of patient reason(s) for not prescribing beta-blocker therapy (e.g., patient declined, other patient reasons)
 - Personal Health Refusal documented with reason, examples: Refused, Drug declined by patient, not indicated

3.17 CMS145v11 Coronary Artery Disease (CAD): Beta-Blocker Therapy-Prior Myocardial Infarction (MI) or Left Ventricular Systolic Dysfunction (LVEF less than 40%)

<https://ecqi.healthit.gov/sites/default/files/ecqm/measures/CMS145v11.html>

3.17.1 Detail and Data Entry

1. Initial Population: All patients aged 18 years and older with two qualifying encounters during the measurement period and a diagnosis of coronary artery disease (CAD)
 - a. Qualifying encounter examples are office visit, Ambulatory service category, home health care
 - b. IPL SNOMED or ICD10 in V POV diagnosis of CAD
2. Denominator: Equals Initial Population who also have prior (within the past 3 years) MI or a current or prior LVEF \leq 40%
 - a. IPL SNOMED or ICD10 in V POV diagnosis of both MI or moderate or severe left ventricular failure
3. Denominator Exclusions: Patients with a history of heart transplant or with a Left Ventricular Assist Device (LVAD) prior to the end of the outpatient encounter with Moderate or Severe LVSD
 - a. Has Heart Transplant
 - CPT code in Visit Services
 - b. Has Heart Transplant Related Diagnosis
 - IPL SNOMED or ICD10 in V POV diagnosis
 - c. Has Left Ventricular Assist Device Implanted
 - CPT code in Visit Services
 - d. Has Left Ventricular Assist Device Related Diagnosis
 - IPL SNOMED or ICD10 in V POV diagnosis
4. Numerator: Patients who were prescribed or already taking beta-blocker therapy during the measurement period
 - a. Active beta-blocker therapy medication in Outpatient or Outside
5. Numerator Exclusions: Not Applicable
6. Denominator Exceptions: Documentation of medical reason(s) for not prescribing beta-blocker therapy:
 - a. Arrhythmia

- IPL SNOMED or ICD10 in V POV diagnosis
- b. Asthma
 - IPL SNOMED or ICD10 in V POV diagnosis
- c. Bradycardia
 - IPL SNOMED or ICD10 in V POV diagnosis
- d. Hypotension
 - IPL SNOMED or ICD10 in V POV diagnosis
- e. Patients with atrioventricular block without cardiac pacer
 - IPL SNOMED or ICD10 in V POV diagnosis and NO history of CPT/HCPC code for heart pacer
- f. Observation of consecutive heart rates <50
 - Two most recent consecutive Pulses documented in V Measurements <50
- g. Allergy, intolerance
 - Entry of Adverse Reactions/Allergy to medication or medication ingredient for beta-blocker
- h. Documentation of patient reason(s) for not prescribing beta-blocker therapy (e.g., patient declined, other patient reasons)
 - Personal Health Refusal documented with reason, examples: Refused, Drug declined by patient, not indicated

3.18 CMS147v11 Preventive Care and Screening: Influenza Immunization

<https://ecqi.healthit.gov/sites/default/files/ecqm/measures/CMS147v12.html>

3.18.1 Detail and Data Entry

1. Initial Population: All patients aged 6 months and older seen for a visit during the measurement period
 - a. Qualifying encounter examples are office visit, Ambulatory service category, home health care, preventative care, wellness
2. Denominator: Equals Initial Population and seen for a visit between October 1 of the year prior to the measurement period and March 31 of the measurement period
 - a. Also included encounters for hemodialysis or peritoneal dialysis services documented by CPT code

3. Denominator Exclusions: Exclude patients who are in hospice care for any part of the measurement period
 - a. Hospice care service HCPC code in the Visit Services
 - b. Hospice Care TREG entry in the IPL Palliative care category
 - c. Inpatient hospitalization discharged to Hospice in ADT
4. Numerator: Patients who received an influenza immunization OR who reported previous receipt of an influenza immunization between July 1 of the year prior to the measurement period to June 30 of the measurement period
 - a. Administered or Historical immunization documented in the Immunization component or CPT code in Visit services
5. Numerator Exclusions: Not Applicable
6. Denominator Exceptions: None

3.19 CMS154v11 Appropriate Treatment for Upper Respiratory Infection (URI)

<https://ecqi.healthit.gov/sites/default/files/ecqm/measures/CMS154v11.html>

3.19.1 Detail and Data Entry

1. Initial Population: Outpatient visits, telephone visits, online assessments (i.e. e-visit or virtual check-in), observation stays or emergency department visits with a diagnosis of URI during the measurement period among patients 3 months of age and older
 - a. IPL SNOMED or ICD10 in V POV diagnosis of URI
2. Denominator: Equals Initial Population
3. Denominator Exclusions:
 - a. Exclude URI episodes when the patient had a comorbid condition during the 12 months prior to or on the episode date.
 - IPL SNOMED or ICD10 in the V POV diagnosis of a comorbid condition (Examples: Pneumonia, TB)
 - b. Exclude URI episodes when the patient had an active prescription of antibiotics in the 30 days prior to the episode date but is still active the same day of the encounter
 - Active medication order in Outpatient or Outside medications
 - c. Exclude URI episodes when the patient had competing diagnosis on or three days after the episode date

- IPL SNOMED or ICD10 in the V POV diagnosis of a competing diagnosis (Examples: Otitis media, cholera, botulism, infection of skin, tenia, pneumonia)
- d. Exclude URI episodes when the patient had hospice care for any part of the measurement period
 - Hospice care service HCPC code in the Visit Services
 - Hospice Care TREG entry in the IPL Palliative care category
 - Inpatient hospitalization discharged to Hospice in ADT
 4. Numerator: URI episodes without a prescription for antibiotic medication on or 3 days after the outpatient visit, telephone visit, online assessment, observation stay or emergency department visit for an upper respiratory infection
 - a. IPL SNOMED or ICD10 in V POV of URI and NO active antibiotic medication in Outpatient or Outside medications issued on or 3 days after the encounter
 5. Numerator Exclusions: Not Applicable
 6. Denominator Exceptions: None

3.20 CMS155v11 Weight Assessment and Counseling for Nutrition and Physical Activity for Children and Adolescents

<https://ecqi.healthit.gov/sites/default/files/ecqm/measures/CMS155v11.html>

3.20.1 Detail and Data Entry

1. Initial Population: Patients 3-17 years of age by the end of the measurement period, with at least one outpatient visit with a primary care physician (PCP) or an obstetrician/gynecologist (OB/GYN) during the measurement period
 - a. Qualifying encounter examples are office visit, home health care, preventative care, wellness
2. Denominator: Equals Initial Population
3. Denominator Exclusions:
 - a. Patients who have a diagnosis of pregnancy during the measurement period.
 - b. IPL SNOMED or ICD10 in V POV of pregnancy
 - c. Exclude patients who are in hospice care for any part of the measurement period
 - Hospice care service HCPC code in the Visit Services

- Hospice Care TREG entry in the IPL Palliative care category
 - Inpatient hospitalization discharged to Hospice in ADT
4. Numerator:
- a. Numerator 1: Patients who had a height, weight and body mass index (BMI) percentile recorded during the measurement period
 - Measurement of height and weight (BMI is calculated)
 - b. Numerator 2: Patients who had counseling for nutrition during the measurement period
 - Any patient education topic for Nutrition documented
 - Medical nutrition therapy CPT service codes in Visit Services
 - Patient referral with referral SNOMED “Referral to nutrition professional” (RCIS referral)
 - c. Numerator 3: Patients who had counseling for physical activity during the measurement period
 - Any patient education topic for Exercise documented
 - Patient referral with referral SNOMED “Referral to physical activity program” (RCIS referral)
 - Prescribed activity/exercise education TREG entry in the IPL in Weight Management category
5. Numerator Exclusions: Not Applicable
6. Denominator Exceptions: None

3.21 CMS156v11 Use of High-Risk Medications in Older Adults

<https://ecqi.healthit.gov/sites/default/files/ecqm/measures/CMS156v11-v2.html>

3.21.1 Detail and Data Entry

1. Initial Population: Patients 65 years and older at the end of the measurement period who had a visit during the measurement period
 - a. Qualifying encounter examples are office visit, home health care, preventative care, wellness
2. Denominator: Equals Initial Population
3. Denominator Exclusions:
 - a. Exclude patients who are in hospice care for any part of the measurement period

- Hospice care service HCPC code in the Visit Services
 - Hospice Care TREG entry in the IPL Palliative care category
 - Inpatient hospitalization discharged to Hospice in ADT
- b. Exclude patients receiving palliative care for any part of the measurement period.
- Palliative care service HCPC code in the Visit Services
 - Palliative Care TREG entry in the IPL Palliative care category
4. Numerator:
- a. Rate 1: Patients with at least two orders of high-risk medications from the same drug class on different days
- At least two orders of high-risk medications from the same drug class
 - At least two orders of high-risk medications from the same drug class with summed days supply greater than 90 days
 - At least two orders of high-risk medications from the same drug class each exceeding average daily dose criteria
 - Medication(s) ordered/documented in Outpatient and/or Outside medications
- b. Rate 2: Patients with at least two orders of high-risk medications from the same drug class (i.e., antipsychotics and benzodiazepines) on different days
- Medication(s) ordered/documented in Outpatient and/or Outside medications
- c. Total rate (the sum of the two previous numerators, deduplicated)
5. Numerator Exclusions:
- a. Rate 2: For patients with two or more antipsychotic prescriptions ordered, exclude patients who have a diagnosis of schizophrenia, schizoaffective disorder, or bipolar disorder on or between January 1 of the year prior to the measurement period and the IPSD for antipsychotics
- b. For patients with two or more benzodiazepine prescriptions ordered, exclude patients who have a diagnosis of seizure disorders, rapid eye movement sleep behavior disorder, benzodiazepine withdrawal, ethanol withdrawal, or severe generalized anxiety disorder on or between January 1 of the year prior to the measurement period and the IPSD for benzodiazepines
- Medication(s) ordered/documented in Outpatient and/or Outside medications
 - IPL SNOMED or ICD10 in V POV for conditions listed above
6. Denominator Exceptions: None

3.22 CMS159v11 Depression Remission at Twelve Months

<https://ecqi.healthit.gov/sites/default/files/ecqm/measures/CMS159v11.html>

3.22.1 Detail and Data Entry

1. Initial Population: Adolescent patients 12 to 17 years of age and adult patients 18 years of age and older with a diagnosis of major depression or dysthymia and an initial PHQ-9 or PHQ-9M score greater than nine during the index event. Patients may be assessed using PHQ-9 or PHQ-9M on the same date or up to 7 days prior to the encounter (index event)
 - a. IPL SNOMED or ICD10 in V POV diagnosis of major depression or dysthymia
 - b. PHQ-9 or PHQ-9M (Modified for teens) in Measurements with a value greater than 9

Note: Index event occurs between 14 months before start of measurement period and 2 months before start of measurement period (to allow time for 12 month follow up).

2. Denominator: Equals Initial Population
3. Denominator Exclusions:
 - a. Patients who died any time prior to the end of the measure assessment period
 - Patient registration “Date of Death” entered or ADT discharged as “Expired”
 - b. Patients who received hospice or palliative care services between the start of the denominator period and the end of the measurement assessment period
 - Hospice care service HCPC code in the Visit Services
 - Hospice Care TREG entry in the IPL in the Palliative Care category
 - Inpatient hospitalization discharged to Hospice in ADT
 - TREG entry in the IPL in the palliative care category for Hospice or Palliative Care
 - c. Patients who were permanent nursing home residents between the start of the denominator period and the end of the measurement assessment period
 - CPT for nursing home services in Visit Services
 - d. Patients with a diagnosis of bipolar disorder any time prior to the end of the measure assessment period
 - IPL SNOMED or ICD10 in V POV diagnosis of bipolar disorder

- e. Patients with a diagnosis of personality disorder emotionally labile any time prior to the end of the measure assessment period
 - IPL SNOMED or ICD10 in V POV diagnosis of personality disorder
- f. Patients with a diagnosis of schizophrenia or psychotic disorder any time prior to the end of the measure assessment period
 - IPL SNOMED or ICD10 in V POV diagnosis of schizophrenia or psychotic disorder
- g. Patients with a diagnosis of pervasive developmental disorder any time prior to the end of the measure assessment period
 - IPL SNOMED or ICD10 in V POV diagnosis of pervasive developmental disorder
4. Numerator: Adolescent patients 12 to 17 years of age and adult patients 18 years of age and older who achieved remission at twelve months as demonstrated by the most recent twelve-month (+/- 60 days) PHQ-9 or PHQ-9M score of less than five
 - a. PHQ-9 or PHQ-9M (Modified for teens) in Measurements with a value less than 5
5. Numerator Exclusions: Not Applicable
6. Denominator Exceptions: None

3.23 CMS160v7 Depression Utilization of the PHQ-9 Tool (retired measure—for trending purposes only)

No link available to ECQI website, measure not supported.

3.23.1 Detail and Data Entry

1. Initial Population: Adolescent patients 12 to 17 years of age and adult patients 18 years of age and older with an office visit and the diagnosis of major depression or dysthymia during the four-month period
 - a. IPL SNOMED or ICD10 in V POV diagnosis of major depression or dysthymia
2. Denominator: Equals Initial Population
3. Denominator Exclusions:
 - a. Patients who died.
 - “Date of Death” in patient registration OR ADT discharge as “expired”
 - b. Patients who received hospice or palliative care services
 - Hospice care service HCPC code in the Visit Services

- Hospice Care TREG entry in the IPL in the Palliative Care category
 - Inpatient hospitalization discharged to Hospice in ADT
 - TREG entry in the IPL in the palliative care category for Hospice or Palliative Care
- c. Patients who were permanent nursing home residents
- Nursing home CPT services in Visit Services
- d. Patients with a diagnosis of bipolar disorder
- IPL SNOMED or ICD10 in V POV diagnosis
- e. Patients with a diagnosis of personality disorder
- IPL SNOMED or ICD10 in V POV diagnosis
- f. Patients with a diagnosis of schizophrenia or psychotic disorder
- IPL SNOMED or ICD10 in V POV diagnosis
- g. Patients with a diagnosis of pervasive developmental disorder
- IPL SNOMED or ICD10 in V POV diagnosis
4. Numerator: Adolescent patients 12 to 17 years of age and adult patients 18 years of age and older who have a PHQ-9 or PHQ-9M tool administered at least once during the four-month period
- a. PHQ-9 or PHQ-9M (Modified for teens) in
- b. PHQ-9 or PHQ-9M (Modified for teens) in measurements
5. Numerator Exclusions: Not applicable
6. Denominator Exceptions: None

3.24 CMS161v11 Adult Major Depressive Disorder: Suicide Risk Assessment

3.24.1 Detail and Data Entry

1. Initial Population: Patient visits for patients that turn 18 or older during the measurement period during which a new diagnosis of MDD, single or recurrent episode, was identified
 - a. Qualifying encounter examples are office visit, Emergency department, Psych evaluation or therapy
 - b. IPL SNOMED or ICD10 in V POV of MDD
2. Denominator: Equals Initial Population

3. Denominator Exclusions: None
4. Numerator: Patient visits during which a new diagnosis of MDD, single or recurrent episode, was identified and a suicide risk assessment was completed during the visit
 - a. IPL SNOMED or ICD10 in V POV of MDD
 - b. Suicide Risk Assessment (43) Exam document during the encounter
5. Numerator Exclusions: Not Applicable
6. Denominator Exceptions: None

3.25 CMS165v11 Controlling High Blood Pressure

<https://ecqi.healthit.gov/sites/default/files/ecqm/measures/CMS165v11.html>

3.25.1 Detail and Data Entry

1. Initial Population: Patients 18-85 years of age by the end of the measurement period who had a visit and diagnosis of essential hypertension starting before and continuing into, or starting during the first six months of the measurement period
 - a. Qualifying encounter examples are office visit, telephone, preventative, wellness
 - b. IPL SNOMED or ICD10 in V POV of essential hypertension
2. Denominator: Equals Initial Population
3. Denominator Exclusions:
 - a. Patients with evidence of end stage renal disease (ESRD), dialysis or renal transplant before or during the measurement period
 - IPL SNOMED or ICD10 in V POV of ESRD
 - Dialysis service CPT/HCPC in Visit Services
 - ESRD services CPT/HCPC in Visit Services
 - ESRD transplant CPT/HCPC/ICD10PCS codes in visit services
 - IPL SNOMED (History of renal transplant) or ICD10 (Z94.0-Kidney transplant status) in V POV of kidney transplant
 - b. Also exclude patients with a diagnosis of pregnancy during the measurement period
 - IPL SNOMED or ICD10 in V POV of pregnancy
 - c. Exclude patients who are in hospice care for any part of the measurement period

- Hospice care service HCPC code in the Visit Services
 - Hospice Care TREG entry in the IPL in the Palliative Care category
 - Inpatient hospitalization discharged to Hospice in ADT
 - TREG entry in the IPL in the palliative care category for Hospice Care
- d. Exclude patients 66 and older by the end of the measurement period who are living long term in a nursing home any time on or before the end of the measurement period
- CPT for nursing home services in Visit Services
- e. Exclude patients 66-80 by the end of the measurement period with an indication of frailty for any part of the measurement period who also meet any of the following advanced illness criteria:
- Advanced illness with two outpatient encounters during the measurement period or the year prior
 - Frailty device issued in Visit Service with HCPC code and IPL SNOMED or ICD 10 in V POV diagnosis of advanced illness
 - OR advanced illness with one inpatient encounter during the measurement period or the year prior
 - Frailty device issued in Visit Service with HCPC code and IPL SNOMED or ICD 10 in V POV diagnosis of advanced illness AND an inpatient hospitalization encounter
 - OR taking dementia medications during the measurement period or the year prior
 - Medication order prescribed in Outpatient medications or documented in Outside medications
- f. Exclude patients 81 and older by the end of the measurement period with an indication of frailty for any part of the measurement period
- Frailty device issued in Visit Service with HCPC code
 - IPL SNOMED or ICD 10 in V POV diagnosis of frailty or frailty symptom
- g. Exclude patients receiving palliative care for any part of the measurement period
- Palliative Care TREG entry in the IPL in the palliative care category
4. Numerator: Patients whose most recent blood pressure is adequately controlled (systolic blood pressure < 140 mmHg and diastolic blood pressure < 90 mmHg) during the measurement period
- a. Blood Pressure (BP) measurement in Vitals
5. Numerator Exclusions: Not Applicable

6. Denominator Exceptions: None

3.26 CMS177v11 Child and Adolescent Major Depressive Disorder: Suicide Risk Assessment

<https://ecqi.healthit.gov/sites/default/files/ecqm/measures/CMS177v11.html>

3.26.1 Detail and Data Entry

1. Initial Population: All patient visits for those patients aged 6 through 17 years with a diagnosis of major depressive disorder
 - a. Qualifying encounter examples are office visit, group therapy, Psych evaluation or therapy
 - b. IPL SNOMED or ICD10 in V POV of MDD
2. Denominator: Equals Initial Population
3. Denominator Exclusions: None
4. Numerator: Patient visits with an assessment for suicide risk
 - a. Suicide Risk Assessment (43) Exam document during the encounter
5. Numerator Exclusions: Not Applicable
6. Denominator Exceptions: None

3.27 CMS347v6 Statin Therapy for the Prevention and Treatment of Cardiovascular Disease

<https://ecqi.healthit.gov/sites/default/files/ecqm/measures/CMS347v6.html>

3.27.1 Detail and Data Entry

1. Initial Population:
 - a. Population 1: All patients who have an active diagnosis of clinical ASCVD or ever had an ASCVD procedure
 - Qualifying encounter examples are office visit, preventative, wellness
 - IPL SNOMED or ICD10 in V POV of ASCVD (Examples: Ischemic heart disease, myocardial infarction, stable and unstable angina)
 - CPT/HCPC/ICD10PCS codes for ASCD procedures (Examples: PCI, Carotid Intervention)

- b. Population 2: Patients aged ≥ 20 years at the beginning of the measurement period who have ever had a laboratory result of LDL-C ≥ 190 mg/dL or were previously diagnosed with or currently have an active diagnosis of familial hypercholesterolemia
 - Qualifying encounter examples are office visit, preventative, wellness
 - IPL SNOMED or ICD10 in V POV of familial hypercholesterolemia
 - Laboratory test performed and resulted in V Lab based on LCL-C LOINC
 - c. Population 3: Patients aged 40 to 75 years at the beginning of the measurement period with Type 1 or Type 2 diabetes.
 - Qualifying encounter examples are office visit, preventative, wellness
 - IPL SNOMED or ICD10 in V POV of diabetes Type 1 or 2
2. Denominator: Equals Initial Population
 3. Denominator Exclusions:
 - a. Patients who are breastfeeding at any time during the measurement period.
 - IPL SNOMED or ICD10 in V POV diagnosis of breastfeeding
 - b. Patients who have a diagnosis of rhabdomyolysis at any time during the measurement period
 - IPL SNOMED or ICD10 in V POV of rhabdomyolysis
 4. Numerator: Patients who are actively using or who receive an order (prescription) for statin therapy at any time during the measurement period
 - a. Medication order prescribed in Outpatient medications or documented in Outside medications
 5. Numerator Exclusions: Not Applicable
 6. Denominator Exceptions:
 - a. Patients with statin-associated muscle symptoms or an allergy to statin medication.
 - Adverse Reaction/Allergy documented in the EHR for statin drug (Reason examples: Allergy to drug, contraindicated, drug resistance)
 - b. Patients who are receiving palliative or hospice care
 - Hospice care service HCPC code in the Visit Services
 - Hospice Care TREG entry in the IPL in the Palliative Care category
 - Inpatient hospitalization discharged to Hospice in ADT
 - TREG entry in the IPL in the palliative care category for hospice Care or palliative care

- c. Patients with active liver disease or hepatic disease or insufficiency
 - IPL SNOMED or ICD10 in V POV of liver disease or hepatitis A or B
- d. Patients with end-stage renal disease (ESRD)
 - IPL SNOMED or ICD10 in V POV of ESRD
- e. Patients with documentation of a medical reason for not being prescribed statin therapy
 - Refusal for statin medication in Personal Health (Example for reason: Refused, Drug declined by patient, not indicate)

3.28 CMS349v5 HIV Screening

<https://ecqi.healthit.gov/sites/default/files/ecqm/measures/CMS349v5.html>

3.28.1 Details and Data Entry

1. Initial Population: Patients 15 to 65 years of age at the start of the measurement period AND who had at least one outpatient visit during the measurement period
 - a. Qualifying encounter examples: Ambulatory, Office Visit, Preventative Care, Mental health, etc. Defined by visit service category or CPT/HCPC code in EHR visit services
2. Denominator: Equals Initial Population
3. Denominator Exclusions: Patients diagnosed with HIV prior to the start of the measurement period
 - a. IPL SNOMED or ICD 10 in POV diagnosis of HIV
4. Numerator: Patients with documentation of an HIV test performed on or after their 15th birthday and before their 66th birthday
 - a. Laboratory test with valid result in V Lab with appropriate LOINC assigned
5. Numerator Exclusions: N/A

Acronym List

Acronym	Term Meaning
AACE/ACE	American Association of Clinical Endocrinologists/American College of Endocrinology
AAP	American Academy of Pediatrics
ACC	American College of Cardiology
ACCF	American College of Cardiology Foundation
ACE	Angiotensin-Converting Enzyme
ACIP	Advisory Committee on Immunization Practices
ACOG	American College of Obstetricians and Gynecologists
ADA	American Diabetes Association
ADE	Adverse Drug Event
AHA	American Heart Association
AHRQ	Agency for Healthcare Research and Quality
AIDS	Acquired Immunodeficiency Syndrome
AMA	Against Medical Advice
AMI	Acute Myocardial Infarction
AOD	Alcohol or Other Drug abuse
ARB	Angiotensin Receptor Blocker
ART	Antiretroviral therapy
ASCVD	Atherosclerotic Cardiovascular Disease
BDI	Beck Depression Inventory
BMI	Body Mass Index
CAH	Critical Access Hospital
CDC	Centers for Disease Control and Prevention
CEHR	Certified Electronic Health Record
CES-D	Center for Epidemiologic Studies
CMS	Centers for Medicare and Medicaid Services
CPT	Current Procedural Terminology
CVD	Cardiovascular Disease
CY	Calendar Year
DBT	Digital Breast Tomosynthesis
DTaP	Diphtheria, Tetanus and Acellular Pertussis
DVT	Deep Vein Thrombosis
ECG	Electrocardiogram
eCQI	Electronic Clinical Quality Improvement

Acronym	Term Meaning
eCQM	Electronic Clinical Quality Measures
EC	Eligible Clinician
ED	Emergency Department
EGA	Estimated Gestational Age
EH	Eligible Hospital
EHR	Electronic Health Record
EP	Eligible Professional
ER	Emergency Room
ESRD	End Stage Renal Disease
FDA	Food and Drug Administration
FOBT	Fecal Occult Blood Test
GCS	Graduated Compression Stockings
GDMT	Guideline-Directed Medical Therapy
GLAD-PC	Guidelines for Adolescent Depression in Primary Care
HbA1c	Hemoglobin A1c
HBIG	Hepatitis B Immune Globulin
HF	Heart Failure
HFrEF	Heart Failure with reduced Ejection Fraction
HHS	Health and Human Services
HIV	Human Immunodeficiency Virus
HPV	Human Papillomavirus
ICD	International Classification of Diseases
ICSI	Institute for Clinical Systems Improvement
ICU	Intensive Care Unit
IHS	Indian Health Service
IIV	Inactivated Influenza Vaccine
IPL	Integrated Problem List
LDL-C	Low-Density Lipoprotein Cholesterol
LOINC	Logical Observation Identifiers Names and Codes
LVEF	Left Ventricular Ejection Fraction
MDD	Major Depressive Disorder
MDE	Major Depressive Episode
MMR	Measles, Mumps, and Rubella
NHANES	National Health and Nutrition Examination Survey
NHLBI	National Heart Lung and Blood Institute
NQF	National Quality Forum

Acronym	Term Meaning
NVAF	Nonvalvular Atrial Fibrillation
OB/GYN	Obstetrician/Gynecologist
PCI	Percutaneous Coronary Intervention
PCP	Primary Care Provider
PE	Pulmonary Embolism
POV	Purpose of Visit
QRDA	Quality Reporting Data Architecture
RPMS	Resource and Patient Management System
RV	Rotavirus
SCIP	Surgical Care Improvement Project
SNOMED-CT	Systematized Nomenclature of Medicine–Clinical Terms
SSRI	Selective Serotonin Reuptake Inhibitor
STEMI	ST-Segment Myocardial Infarction
TIA	Transient Ischemic Attack
TREG	Treatment\Regime Therapy
UACR	Urinary Albumin-to-Creatinine Ratio
USHIK	United States Health Information Knowledgebase
USPSTF	U.S. Preventive Services Task Force
VSAC	Value Set Authority Center
VTE	Venous Thromboembolism

Contact Information

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