

Controlling High Blood Pressure

Measure Information

General eCQM Information	
CMS Measure ID	CMS165v9
NQF Number	Not Applicable
Measure Description	Percentage of patients 18-85 years of age who had a diagnosis of hypertension overlapping the measurement period or the year prior to the measurement period, and whose most recent blood pressure was adequately controlled (<140/90mmHg) during the measurement period
Initial Population	Patients 18-85 years of age who had a visit and diagnosis of essential hypertension overlapping the measurement period or the year prior to the measurement period
Denominator Statement	Equals Initial Population
Denominator Exclusions	<p>Patients with evidence of end stage renal disease (ESRD), dialysis or renal transplant before or during the measurement period. Also exclude patients with a diagnosis of pregnancy during the measurement period.</p> <p>Exclude patients whose hospice care overlaps the measurement period.</p> <p>Exclude patients 66 and older who are living long term in an institution for more than 90 consecutive days during the measurement period.</p> <p>Exclude patients 66 and older with advanced illness and frailty because it is unlikely that patients will benefit from the services being measured.</p>
Numerator Statement	Patients whose most recent blood pressure is adequately controlled (systolic blood pressure < 140 mmHg and diastolic blood pressure < 90 mmHg) during the measurement period
Numerator Exclusions	Not Applicable
Denominator Exceptions	None
Measure Steward	National Committee for Quality Assurance

Domain	Effective Clinical Care
Measure Scoring	Proportion measure
Measure Type	Intermediate Outcome measure
Improvement Notation	Higher score indicates better quality
Guidance	<p>In reference to the numerator element, only blood pressure readings performed by a clinician or a remote monitoring device are acceptable for numerator compliance with this measure.</p> <p>Do not include BP readings:</p> <ul style="list-style-type: none"> • Taken during an acute inpatient stay or an ED visit • Taken on the same day as a diagnostic test or diagnostic or therapeutic procedure that requires a change in diet or change in medication on or one day before the day of the test or procedure, with the exception of fasting blood tests. • Reported by or taken by the member <p>If no blood pressure is recorded during the measurement period, the patient's blood pressure is assumed "not controlled."</p> <p>If there are multiple blood pressure readings on the same day, use the lowest systolic and the lowest diastolic reading as the most recent blood pressure reading.</p> <p>This eCQM is a patient-based measure.</p> <p>This version of the eCQM uses QDM version 5.5. Please refer to the eCQI resource center for more information on the QDM.</p>
Quality ID	236
Meaningful Measure	Management of Chronic Conditions
Telehealth Eligible	Yes
Next Version	CMS165v10
Previous Version	CMS165v8

Specifications and Data Elements

Attachment	Size
CMS165v9.html	87.99 KB
CMS165v9.zip	104.92 KB
CMS165v9-TRN.xlsx	23.12 KB

Data Element Repository

- [Data Elements contained within CMS165v9](#)

Release Notes

- [CMS165v9-TRN.xlsx](#)

Header

- Updated eCQM Version Number.
Measure Section: eCQM Version Number
Source of Change: Standards Update
- Updated copyright.
Measure Section: Copyright
Source of Change: Annual Update
- Updated the rationale to remove outdated references and content and to update references.
Measure Section: Rationale
Source of Change: Measure Lead
- Updated the clinical recommendations statement to remove outdated references and update with the most recent clinical recommendations.
Measure Section: Clinical Recommendation Statement
Source of Change: Measure Lead
- Updated references.
Measure Section: Reference
Source of Change: Standards Update
- Added text to identify the Quality Data Model (QDM) version used in the measure specification.
Measure Section: Guidance
Source of Change: Standards Update
- Added text to indicate whether the measure is patient-based or episode-based.
Measure Section: Guidance
Source of Change: Standards Update
- Updated denominator exclusions to add the word 'consecutive' to clarify that the Long-Term Illness (LTI) exclusion should be for 90 consecutive days.
Measure Section: Denominator Exclusions
Source of Change: Measure Lead

Logic

- Updated denominator exclusion logic for frailty and clarified that the long-term illness exclusion should be for 90 'consecutive' days to reduce ambiguity.
Measure Section: Denominator Exclusions
Source of Change: Measure Lead
- Revised the 'Essential Hypertension Diagnosis' definition logic to ensure alignment between the logic, header and measure intent.
Measure Section: Definitions
Source of Change: ONC Project Tracking System (Jira): CQM-3816
- Clinical Quality Language (CQL) Library version update: Updated version number of the Adult_Outpatient_Encounters Library (Adult_Outpatient_Encounters-1.3.000).
Measure Section: Multiple Sections
Source of Change: Measure Lead
- CQL Library version update: Updated version number of the Hospice Library (Hospice-2.2.000).
Measure Section: Multiple Sections
Source of Change: Measure Lead
- QDM v5.5 standards update: Added 'relevantDatetime' attribute to QDM datatypes. 'RelevantDatetime' indicates when the action occurred whereas 'authorDatetime' indicates when the action was recorded.
Measure Section: Multiple Sections
Source of Change: Standards Update
- Updated CQL expression to conform with the HL7 Standard: Clinical Quality Language Specification, Release 1 STU 4 (CQL 1.4).
Measure Section: Multiple Sections
Source of Change: Standards Update
- Updated CQL Library version number of the advanced illness and frailty exclusion library (AdvancedIllnessandFrailtyExclusionECQM-5.5.000).
Measure Section: Multiple Sections
Source of Change: Measure Lead
- Updated the names of CQL definitions, functions, and/or aliases for clarification and to align with the CQL Style Guide.
Measure Section: Multiple Sections
Source of Change: Standards Update
- Updated version number of the Measure Authoring Tool (MAT) Global Common Functions Library (MATGlobalCommonFunctions-5.0.000). Updated definitions and functions in the MAT Global Common Functions Library to align with standards changes, CQL Style Guide, and to include one new function related to calculating length of hospital stays with observation stays.
Measure Section: Multiple Sections
Source of Change: Standards Update

Value Set

The VSAC is the source of truth for the value set content, please visit the [VSAC](#) for downloads of current value sets.

- Value set Vascular Access for Dialysis (2.16.840.1.113883.3.464.1003.109.12.1011): Deleted 2 CPT codes (36147, 36148) based on terminology update.
Measure Section: Terminology
Source of Change: Annual Update

- Value set End Stage Renal Disease (2.16.840.1.113883.3.526.3.353): Deleted 1 ICD-9-CM code (585.6) based on terminology update.
Measure Section: Terminology
Source of Change: Annual Update
- Value set Pregnancy (2.16.840.1.113883.3.526.3.378): Added 53 SNOMED CT codes based on terminology update and deleted 1 SNOMED CT code (199715003) based on expert review and/or public feedback. Added 2 ICD-10-CM codes (O00.00, O00.01) based on terminology update.
Measure Section: Terminology
Source of Change: Annual Update
- Value set Frailty Symptom (2.16.840.1.113883.3.464.1003.113.12.1075): Deleted 4 SNOMED CT codes (267031002, 272060000, 272062008, 314109004) based on terminology update.
Measure Section: Terminology
Source of Change: Annual Update
- Value set Nursing Facility Visit (2.16.840.1.113883.3.464.1003.101.12.1012): Added 3 CPT codes (99315, 99316, 99318) based on updated evidence in published guidelines, published literature, or from published specialty medical society or group recommendations, to capture additional nursing facility visit encounter types.
Measure Section: Terminology
Source of Change: Annual Update
- Value set Frailty Device (2.16.840.1.113883.3.464.1003.118.12.1300): Removed extensional value set Frailty Device (2.16.840.1.113883.3.464.1003.118.11.1114) with HCPCS codes from the grouping and added Frailty Device SNOMED (2.16.840.1.113883.3.464.1003.118.11.1220) with SNOMED CT codes to the grouping to align with recommended terminology.
Measure Section: Terminology
Source of Change: Annual Update
- Value Set Dialysis Services (2.16.840.1.113883.3.464.1003.109.12.1013): Deleted 4 CPT codes (90920, 90921, 90924, 90925) based on terminology update.
Measure Section: Terminology
Source of Change: Annual Update
- Value set Acute Inpatient (2.16.840.1.113883.3.464.1003.101.12.1083): Deleted 1 SNOMED CT code (2876009) based on terminology update.
Measure Section: Terminology
Source of Change: Annual Update
- Value set Chronic Kidney Disease, Stage 5 (2.16.840.1.113883.3.526.3.1002): Deleted 1 ICD-9-CM code (585.5). Removed ICD-9-CM codes from all measures that do not have lookback periods or removed ICD-9 codes from all measures with lookback period for which the ICD-9 codes were no longer relevant.
Measure Section: Terminology
Source of Change: Annual Update