

Controlling High Blood Pressure

Measure Information

General eCQM Information	
CMS eCQM ID	CMS165v12
NQF Number	Not Applicable
Description	Percentage of patients 18-85 years of age who had a diagnosis of essential hypertension starting before and continuing into, or starting during the first six months of the measurement period, and whose most recent blood pressure was adequately controlled (<140/90 mmHg) during the measurement period
Initial Population	Patients 18-85 years of age by the end of the measurement period who had a visit during the measurement period and diagnosis of essential hypertension starting before and continuing into, or starting during the first six months of the measurement period
Denominator	Equals Initial Population
Denominator Exclusions	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. Exclude patients who are in hospice care for any part of the measurement period. 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. 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 • OR advanced illness with one inpatient encounter during the measurement period or the year prior • OR taking dementia medications during the measurement period or the year prior Exclude patients 81 and older by the end of the measurement period with an indication of frailty for any part of the measurement period. Exclude patients receiving palliative care for any part of the measurement period.

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
Numerator Exclusions	Not Applicable
Denominator Exceptions	None
Measure Steward	National Committee for Quality Assurance
Measure Scoring	Proportion measure
Measure Type	Intermediate Clinical Outcome measure
Improvement Notation	Higher score indicates better quality
Guidance	In reference to the numerator element, only blood pressure readings performed by a clinician or an automated blood pressure monitor or device are acceptable for numerator compliance with this measure. This includes blood pressures taken in person by a clinician and blood pressures measured remotely by electronic monitoring devices capable of transmitting the blood pressure data to the clinician. Blood pressure readings taken by an automated blood pressure monitor or device and conveyed by the patient to the clinician are also acceptable. It is the clinician's responsibility and discretion to confirm the automated blood pressure monitor or device used to obtain the blood pressure is considered acceptable and reliable and whether the blood pressure reading is considered accurate before documenting it in the patient's medical record. Do not include BP readings taken during an acute inpatient stay or an ED visit. If no blood pressure is recorded during the measurement period, the patient's blood pressure is assumed "not controlled". 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. Ranges and thresholds do not meet criteria for this measure. A distinct numeric result for both the systolic and diastolic BP reading is required for numerator compliance. This eCQM is a patient-based measure.

	This version of the eCQM uses QDM version 5.6. Please refer to the QDM page for more information on the QDM.
MIPS Quality ID	236
Telehealth Eligible	Yes
Next Version	No Version Available
Previous Version	CMS165v11

Specifications and Data Elements

Attachment	Size
CMS165v12.html	111.97 KB
CMS165v12.zip	129.71 KB
CMS165v12-TRN.xlsx	23.38 KB
CMS165v12-eCQMFlow.pdf	2.16 MB

Data Element Repository

- [Data Elements contained within CMS165v12](#)

Value Sets

- [Value Sets to be used with CMS165v12](#)

Release Notes

- [CMS165v12-TRN.xlsx](#)

Header

- Updated grammar, wording, and/or formatting to improve readability and consistency.
Measure Section: Description
Source of Change: Annual Update
- Updated copyright.
Measure Section: Copyright
Source of Change: Annual Update

- Updated the rationale based upon more recent literature and evidence to support the measure.
Measure Section: Rationale
Source of Change: Measure Lead
- Updated grammar, wording, and/or formatting to improve readability and consistency.
Measure Section: Clinical Recommendation Statement
Source of Change: Annual Update
- Updated the clinical recommendation statements based upon more recent literature and evidence to support the measure.
Measure Section: Clinical Recommendation Statement
Source of Change: Measure Lead
- Updated references.
Measure Section: Reference
Source of Change: Measure Lead
- Replaced term 'remote monitoring device' with 'automated blood pressure monitor or device' to provide clarity on measure requirement.
Measure Section: Guidance
Source of Change: ONC Project Tracking System (JIRA): CQM-5322
- Updated the initial population to include timing to provide clarity and align with the logic.
Measure Section: Initial Population
Source of Change: Test Case Review

Logic

- Updated the version number of the Advanced Illness and Frailty Exclusion eCQM Library to v8.0.000.
Measure Section: Definitions
Source of Change: Annual Update
- Updated the version number of the Adult Outpatient Encounters Library to v3.0.000.
Measure Section: Definitions
Source of Change: Annual Update
- Updated the version number of the Palliative Care Exclusion ECQM Library to v3.0.000.
Measure Section: Definitions
Source of Change: Annual Update
- Updated the version number of the Hospice Library to v5.0.000.
Measure Section: Definitions
Source of Change: Annual Update
- Replaced direct reference code 'Encounter with palliative care' with 'Palliative Care Diagnosis' value set in the PalliativeCare.Has Palliative Care in the Measurement Period definition to organize capture of patients receiving palliative care, per standards expert input.
Measure Section: Definitions

Source of Change: Measure Lead

- Added QDM datatype 'Diagnosis' to the Hospice.'Has Hospice Services' definition referencing a new value set containing SNOMED finding codes to provide an additional approach for identifying patients receiving hospice care.
Measure Section: Definitions
Source of Change: Measure Lead
- Added 'day of' specificity to the palliative care expressions for consistency.
Measure Section: Definitions
Source of Change: Measure Lead
- Added 'day of' specificity to hospice expressions for consistency.
Measure Section: Definitions
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: Definitions
Source of Change: Standards/Technical Update
- Updated the version number of the Advanced Illness and Frailty Exclusion eCQM Library to v8.0.000.
Measure Section: Functions
Source of Change: Annual Update
- Updated the version number of the Adult Outpatient Encounters Library to v3.0.000.
Measure Section: Functions
Source of Change: Annual Update
- Updated the version number of the Hospice Library to v5.0.000.
Measure Section: Functions
Source of Change: Annual Update
- Updated the version number of the Palliative Care Exclusion ECQM Library to v3.0.000.
Measure Section: Functions
Source of Change: Annual 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 Acute Inpatient (2.16.840.1.113883.3.464.1003.101.12.1083): Added 3 CPT codes (99236, 99234, 99235) based on review by technical experts, SMEs, and/or public feedback. Added 1 SNOMED CT code (2876009) based on review by technical experts, SMEs, and/or public feedback.
Measure Section: Terminology
Source of Change: Measure Lead

- Value set Advanced Illness (2.16.840.1.113883.3.464.1003.110.12.1082): Added 47 SNOMED CT codes based on review by technical experts, SMEs, and/or public feedback.
Measure Section: Terminology
Source of Change: Measure Lead
- Value set (2.16.840.1.113883.3.464.1003.101.12.1010): Renamed to Emergency Department Evaluation and Management Visit based on recommended value set naming conventions.
Measure Section: Terminology
Source of Change: Annual Update
- Value set Essential Hypertension (2.16.840.1.113883.3.464.1003.104.12.1011): Added 10 SNOMED CT codes (19769006, 18416000, 23717007, 35303009, 63287004, 71874008, 72022006, 78808002, 9901000, 40511000119107) based on review by technical experts, SMEs, and/or public feedback. Deleted 1 SNOMED CT code (276789009) based on review by technical experts, SMEs, and/or public feedback.
Measure Section: Terminology
Source of Change: Measure Lead
- Value set Frailty Diagnosis (2.16.840.1.113883.3.464.1003.113.12.1074): Added 1 ICD-10-CM code (L89.000) based on review by technical experts, SMEs, and/or public feedback.
Measure Section: Terminology
Source of Change: Measure Lead
- Value set Frailty Symptom (2.16.840.1.113883.3.464.1003.113.12.1075): Deleted 4 ICD-10-CM codes (R26.0, R26.1, R41.81, R53.83) based on review by technical experts, SMEs, and/or public feedback. Deleted 17 SNOMED CT codes based on review by technical experts, SMEs, and/or public feedback.
Measure Section: Terminology
Source of Change: Measure Lead
- Value set Hospice Care Ambulatory (2.16.840.1.113883.3.526.3.1584): Deleted 3 SNOMED CT codes (170935008, 170936009, 305911006) based on review by technical experts, SMEs, and/or public feedback.
Measure Section: Terminology
Source of Change: Measure Lead
- Added value set Hospice Diagnosis (2.16.840.1.113883.3.464.1003.1165) based on review by technical experts, SMEs, and/or public feedback.
Measure Section: Terminology
Source of Change: Measure Lead
- Value set Hospice Encounter (2.16.840.1.113883.3.464.1003.1003): Added 2 SNOMED CT codes (305911006, 385765002) based on review by technical experts, SMEs, and/or public feedback.
Measure Section: Terminology
Source of Change: Measure Lead
- Value set Kidney Transplant Recipient (2.16.840.1.113883.3.464.1003.109.12.1029): Deleted 1 SNOMED CT code (161665007) based on review by technical experts, SMEs, and/or public feedback.

Measure Section: Terminology

Source of Change: Measure Lead

- Value set Online Assessments (2.16.840.1.113883.3.464.1003.101.12.1089): Added 4 CPT codes (98980, 98981, 99444, 99457) based on review by technical experts, SMEs, and/or public feedback. Added 3 HCPCS codes (G2250, G2251, G2252) based on review by technical experts, SMEs, and/or public feedback.

Measure Section: Terminology

Source of Change: Measure Lead

- Value set Outpatient (2.16.840.1.113883.3.464.1003.101.12.1087): Added 2 SNOMED CT codes (30346009, 37894004) based on review by technical experts, SMEs, and/or public feedback.

Measure Section: Terminology

Source of Change: Measure Lead

- Replaced direct reference code ICD-10-CM code (Z51.5) with value set Palliative Care Diagnosis (2.16.840.1.113883.3.464.1003.1167) based on change in measure requirements/measure specification.

Measure Section: Terminology

Source of Change: Measure Lead

- Value set Palliative Care Intervention (2.16.840.1.113883.3.464.1003.198.12.1135): Deleted 3 SNOMED CT codes (305686008, 305824005, 441874000) based on review by technical experts, SMEs, and/or public feedback.

Measure Section: Terminology

Source of Change: Measure Lead

- Value set Payer (2.16.840.1.114222.4.11.3591): Added 5 SOP codes (1111, 1112, 142, 344, 141) based on review by technical experts, SMEs, and/or public feedback.

Measure Section: Terminology

Source of Change: Measure Lead

- Value set Pregnancy (2.16.840.1.113883.3.526.3.378): Added 175 ICD-10-CM codes based on terminology update. Deleted 14 ICD-10-CM codes based on terminology update.

Measure Section: Terminology

Source of Change: Annual Update