Advanced chronic kidney disease (CKD): percent of patients with blood pressure checked at least once within the last 3 months.


Clinical Quality Measures: Process

Does not apply to this measure

This measure assesses the percent of patients with blood pressure checked at least once within the last three months among patients with advanced chronic kidney disease (CKD).

Patients with advanced chronic kidney disease (CKD) are situated at a crossroads between patients with less severe chronic kidney disease, where strict blood pressure control is a well-established mainstay of therapy, and patients on dialysis, where blood pressure goals are not well understood. In the absence of strong scientific data to define therapeutic targets, blood pressure goals in dialysis patients remain extrapolated from the general population. Because of significantly increased cardiovascular risk in patients with both advanced CKD and diabetes, management of patients with both conditions deserves special attention.

Several observational studies have demonstrated that patients with advanced CKD are at high risk for
hypertension. Patients with advanced CKD who are also hypertensive usually have blood pressures elevated above recommended guidelines, even if treated with antihypertensives. In order to be treated appropriately, blood pressure must first be assessed and hypertension recognized.

Evidence for Rationale


Primary Health Components

Advanced chronic kidney disease; hypertension

Denominator Description

The number of adult patients with advanced chronic kidney disease (CKD), not currently receiving renal replacement therapy

Numerator Description

The number of patients from the denominator with blood pressure checked at least once within the last three months (90 days)

Evidence Supporting the Measure

Type of Evidence Supporting the Criterion of Quality for the Measure

A clinical practice guideline or other peer-reviewed synthesis of the clinical research evidence

A formal consensus procedure, involving experts in relevant clinical, methodological, public health and organizational sciences

A systematic review of the clinical research literature (e.g., Cochrane Review)
Additional Information Supporting Need for the Measure

Elevated blood pressure is clearly an important risk factor for rapid progression of kidney disease and for cardiac hypertrophy.

Evidence for Additional Information Supporting Need for the Measure

<table>
<thead>
<tr>
<th>Source</th>
<th>Title</th>
<th>Journal</th>
<th>Year</th>
<th>Pages</th>
<th>PubMed Link</th>
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Extent of Measure Testing

Unspecified

State of Use of the Measure

State of Use

Current routine use

Current Use

not defined yet

Application of the Measure in its Current Use

Measurement Setting

Ambulatory/Office-based Care

Hospital Outpatient

Professionals Involved in Delivery of Health Services

not defined yet
Least Aggregated Level of Services Delivery Addressed
Individual Clinicians or Public Health Professionals

Statement of Acceptable Minimum Sample Size
Unspecified

Target Population Age
Age greater than or equal to 18 years

Target Population Gender
Either male or female

National Strategy for Quality Improvement in Health Care

National Quality Strategy Aim
Better Care

National Quality Strategy Priority
Prevention and Treatment of Leading Causes of Mortality

Institute of Medicine (IOM) National Health Care Quality Report Categories

IOM Care Need
Living with Illness

IOM Domain
Effectiveness

Data Collection for the Measure

Case Finding Period
Unspecified
Denominator Sampling Frame
Patients associated with provider

Denominator (Index) Event or Characteristic
Clinical Condition
Patient/Individual (Consumer) Characteristic

Denominator Time Window
not defined yet

Denominator Inclusions/Exclusions
Inclusions
Adult patients age 18 years and older with chronic kidney disease stage 4 or 5 (glomerular filtration rate \([\text{GFR}] \leq 30 \text{ mL/min/1.73 m}^2\)), not currently receiving renal replacement therapy

Exclusions
Unspecified

Exclusions/Exceptions
not defined yet

Numerator Inclusions/Exclusions
Inclusions
The number of patients from the denominator with blood pressure checked at least once within the last three months (90 days)

Exclusions
Unspecified

Numerator Search Strategy
Fixed time period or point in time

Data Source
Administrative clinical data
Laboratory data
Paper medical record

Type of Health State
Does not apply to this measure
Instruments Used and/or Associated with the Measure
Unspecified

**Computation of the Measure**

**Measure Specifies Disaggregation**
Does not apply to this measure

**Scoring**
Rate/Proportion

**Interpretation of Score**
Desired value is a higher score

**Allowance for Patient or Population Factors**
not defined yet

**Standard of Comparison**
not defined yet

**Identifying Information**

**Original Title**
Number of patients with blood pressure checked at least once within the last 3 months / number of patients with advanced CKD.

**Measure Collection Name**
Clinical Performance Measures on Appropriate Patient Preparation for Renal Replacement Therapy

**Measure Set Name**
Hypertension Recommendations

**Submitter**
Renal Physicians Association - Medical Specialty Society
Funding Source(s)

Ortho Biotech Products, LP

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Financial Disclosures/Other Potential Conflicts of Interest

There were none disclosed.
Adaptation
This measure was not adapted from another source.

Date of Most Current Version in NQMC
2002 Oct

Measure Maintenance
Unspecified

Date of Next Anticipated Revision
Unspecified

Measure Status
This is the current release of the measure.
The measure developer reaffirmed the currency of this measure in March 2016.

Measure Availability
Source not available electronically.
For more information, contact the Renal Physicians Association (RPA) at 1700 Rockville Pike, Suite 220, Rockville, MD 20852; Phone: 301-468-3515; Fax: 301-468-3511; Web site: www.renalmd.org; E-mail: rpa@renalmd.org.

NQMC Status
This NQMC summary was completed by ECRI on May 23, 2003. The information was verified by the Renal Physicians Association on June 17, 2003.
This NQMC summary was retrofitted into the new template on May 6, 2011.
The information was reaffirmed by the measure developer on March 11, 2016.

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Production
Source(s)

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