



## Complete Summary

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### TITLE

Hypertension diagnosis and treatment: percentage of patients who have blood pressure less than 140/90 mm Hg at the clinic visit.

### SOURCE(S)

Institute for Clinical Systems Improvement (ICSI). Hypertension diagnosis and treatment. Bloomington (MN): Institute for Clinical Systems Improvement (ICSI); 2004 Feb. 47 p. [106 references]

## Brief Abstract

### DESCRIPTION

This measure assesses the percentage of patients who have blood pressure reading less than 140/90 mm Hg at the clinic visit.

### RATIONALE

The priority aim addressed by this measure is to increase the percentage of patients in blood pressure control.

### PRIMARY CLINICAL COMPONENT

Hypertension; blood pressure control (less than 140 mm Hg systolic and less than 90 mm Hg diastolic)

### DENOMINATOR DESCRIPTION

Number of patients age 18 to 60 that have a diagnosis of hypertension (see the related "Denominator Inclusions/Exclusions" field in the Complete Summary)

### NUMERATOR DESCRIPTION

Number of patients from the denominator with a diagnosis of hypertension who had a blood pressure reading at their last visit less than 140 mm Hg systolic and less than 90 mm Hg diastolic (see the related "Numerator Inclusions/Exclusions" field in the Complete Summary)

## Evidence Supporting the Measure

### PRIMARY MEASURE DOMAIN

Outcome

SECONDARY MEASURE DOMAIN

Not applicable

EVIDENCE SUPPORTING THE MEASURE

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

NATIONAL GUIDELINE CLEARINGHOUSE LINK

- [Hypertension diagnosis and treatment.](#)

Evidence Supporting Need for the Measure

NEED FOR THE MEASURE

Unspecified

State of Use of the Measure

STATE OF USE

Current routine use

CURRENT USE

Internal quality improvement

Application of Measure in its Current Use

CARE SETTING

Physician Group Practices/Clinics

PROFESSIONALS RESPONSIBLE FOR HEALTH CARE

Physicians

LOWEST LEVEL OF HEALTH CARE DELIVERY ADDRESSED

Group Clinical Practices

TARGET POPULATION AGE

Age 18 to 60 years

TARGET POPULATION GENDER

Either male or female

STRATIFICATION BY VULNERABLE POPULATIONS

Unspecified

Characteristics of the Primary Clinical Component

INCIDENCE/PREVALENCE

Unspecified

ASSOCIATION WITH VULNERABLE POPULATIONS

Unspecified

BURDEN OF ILLNESS

Unspecified

UTILIZATION

Unspecified

COSTS

Unspecified

Institute of Medicine National Healthcare Quality Report Categories

IOM CARE NEED

Living with Illness

IOM DOMAIN

Effectiveness

Data Collection for the Measure

CASE FINDING

Users of care only

DESCRIPTION OF CASE FINDING

Number of patients age 18 to 60 years that have a diagnosis of hypertension

Medical groups may generate a list of patients meeting the inclusion criteria. This list would be newly created not less than every 6 to 12 months to remain current. Data may be collected by medical record review. Identify the blood pressure at the most recent office visit.

After review in one month, all eligible patients would return to the pool of eligible patients from which the following month's sample of charts would be randomly drawn.

Randomly selected cases may be reviewed monthly.

#### DENOMINATOR SAMPLING FRAME

Patients associated with provider

#### DENOMINATOR (INDEX) EVENT

Clinical Condition  
Encounter

#### DENOMINATOR INCLUSIONS/EXCLUSIONS

##### Inclusions

Number of patients age 18 to 60 that have a diagnosis of hypertension\*

\*Patients between the ages of 18 and 60 who have had an office visit within the previous 12 months having primary, secondary, or tertiary International Classification of Diseases, Ninth Revision (ICD-9) codes 401.0, 401.1, and/or 401.9.

##### Exclusions

Unspecified

#### NUMERATOR INCLUSIONS/EXCLUSIONS

##### Inclusions

Number of patients from the denominator with a diagnosis of hypertension who had a blood pressure reading at their last visit less than 140 mm Hg systolic and less than 90 mm Hg diastolic

Calculate the average of two or more systolic blood pressure (SBP) and diastolic blood pressure (DBP) readings taken at the most recent office visit to determine level of control. Go to the previous office visit if the most recent office visit was for sigmoidoscopy, injuries, or a visit at which local anesthesia such as lidocaine was given for a procedure. The mean of two or more systolic and the mean of two or more diastolic readings taken at the selected visit would be calculated. The mean SBP and mean DBP may then be used to determine whether the patient has a blood pressure less than 140/90 mm Hg.

Exclusions  
Unspecified

#### DENOMINATOR TIME WINDOW

Time window is a fixed period of time

#### NUMERATOR TIME WINDOW

Encounter or point in time

#### DATA SOURCE

Medical record

#### LEVEL OF DETERMINATION OF QUALITY

Individual Case

#### OUTCOME TYPE

Clinical Outcome

#### PRE-EXISTING INSTRUMENT USED

Unspecified

### Computation of the Measure

#### SCORING

Rate

#### INTERPRETATION OF SCORE

Better quality is associated with a higher score

#### ALLOWANCE FOR PATIENT FACTORS

Unspecified

#### STANDARD OF COMPARISON

Internal time comparison

### Evaluation of Measure Properties

#### EXTENT OF MEASURE TESTING

Unspecified

## Identifying Information

### ORIGINAL TITLE

Percentage of patients who have blood pressure less than 140/90 mm Hg at the clinic visit.

### MEASURE COLLECTION

[Hypertension Diagnosis and Treatment Measures](#)

### DEVELOPER

Institute for Clinical Systems Improvement

### ADAPTATION

Measure was not adapted from another source.

### RELEASE DATE

2003 Apr

### REVISION DATE

2004 Feb

### MEASURE STATUS

This is the current release of the measure.

This measure updates a previous version: Institute for Clinical Systems Improvement (ICSI). Hypertension diagnosis and treatment. Bloomington (MN): Institute for Clinical Systems Improvement (ICSI); 2003 Apr. 47 p.

### SOURCE(S)

Institute for Clinical Systems Improvement (ICSI). Hypertension diagnosis and treatment. Bloomington (MN): Institute for Clinical Systems Improvement (ICSI); 2004 Feb. 47 p. [106 references]

### MEASURE AVAILABILITY

The individual measure, "Percentage of patients who have blood pressure less than 140/90 mm Hg at the clinic visit," is published in "Health Care Guideline: Hypertension Diagnosis and Treatment." This document is available from the [Institute for Clinical Systems Improvement \(ICSI\) Web site](#).

For more information, contact ICSI at, 8009 34th Avenue South, Suite 1200, Bloomington, MN 55425; phone: 952-814-7060; fax: 952-858-9675; Web site: [www.icsi.org](http://www.icsi.org); e-mail: [icsi.info@icsi.org](mailto:icsi.info@icsi.org).

## NQMC STATUS

This NQMC summary was completed by ECRI on February 6, 2004. This summary was updated by ECRI on July 27, 2004.

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Date Modified: 11/1/2004

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