



## Complete Summary

---

### TITLE

Management of type 2 diabetes mellitus: percentage of adult patients with diabetes with A1c less than 7%.

### SOURCE(S)

Institute for Clinical Systems Improvement (ICSI). Management of type 2 diabetes mellitus. Bloomington (MN): Institute for Clinical Systems Improvement (ICSI); 2003 Nov. 80 p. [138 references]

## Brief Abstract

### DESCRIPTION

This measure assesses the percentage of adult patients with diabetes with A1c less than 7%.

### RATIONALE

The priority aim addressed by this measure is to increase the percentage of patients with diabetes age 18 to 75 for whom the ideal treatment goal of A1c less than 7% is met.

### PRIMARY CLINICAL COMPONENT

Diabetes mellitus; hemoglobin A1c

### DENOMINATOR DESCRIPTION

Number of adult patients with diabetes mellitus who had an encounter in the last month. Two options for defining the denominator are listed in the related "Denominator Inclusions/Exclusions" field of the Complete Summary.

### NUMERATOR DESCRIPTION

Number of patients from the denominator who have had an A1c test within 6 months of the target month with a value less than 7%

## 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

- [Management of type 2 diabetes mellitus.](#)

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 75 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 adult patients with diabetes mellitus who had an encounter in the last month. Two options for defining the denominator are listed in the "Denominator Inclusions/Exclusions" field of the Complete Summary.

It is understood that many medical groups will not have electronic access to an integrated database containing both visit data and lab data. In this case, manual identification of at least 20 patients meeting the denominator definition will be necessary and the A1c value collected from the medical record.

#### DENOMINATOR SAMPLING FRAME

Patients associated with provider

#### DENOMINATOR (INDEX) EVENT

Clinical Condition  
Encounter

#### DENOMINATOR INCLUSIONS/EXCLUSIONS

##### Inclusions

Number of adult patients with diabetes mellitus who had an encounter in the last month. Two options for defining the denominator are listed below:

##### Definition 1

Patients 18 years or older with a primary, secondary, or tertiary diagnosis of diabetes (International Classification of Diseases, Ninth Revision [ICD-9] code 250.xx). Established patients with diabetes should be included. This requires both a visit in the target month AND a diabetic visit in a window of 12 to 24 months before the target month. Both types 1 and 2 are included\*.

##### Definition 2

Patients ages 18 to 75 continuously enrolled for the last 12 months AND

- a. two or more ambulatory visits or one acute inpatient or emergency room visit with a primary or secondary diagnosis of diabetes\* in the last 12 months: 250.xx, 362.0x (diabetic retinopathy), 366.41 (diabetic cataract), 357.2x (polyneuropathy in diabetes), or 648.0 (pregnancy excludes gestational diabetes), OR
- b. one or more prescriptions for insulin in the last 12 months (coding is available on disk from either Institute for Clinical Systems Improvement [ICSI] or from the National Committee for Quality Assurance website [NCQA.org]): regular insulin, NPH, Lente, Lispro, Humulin, 70/30, 75/25, 50/50, Novolin, Ultralente, Glargine, Aspart, Multiple Daily Injections or Continuous Subcutaneous Infusion of Insulin, Insulin Pump, Insulin Pen, Semilente, Novolin, Penfill, Ultralente, Velosulin, Humalog, OR
- c. one or more prescriptions for oral agents in the last 12 months (coding is available on disk from either ICSI or from the NCQA.org website): Acarbose, Miglitol/Glycet, Amaryl, Diabeta, Diabinese, Glimepiride, Glipizide, Glipizide XL, Glucophage, Glucotrol, Glucotrol XL, Glyburide, Glynase, Metformin,

Micronase, Prandin, Starlix, Glucovance, Repaglinide, Precose, Tolazamide, Tolamide, Tolbutamide, Tolinase, Rosiglitazone, Pioglitazone.

\*Note: Both types 1 and 2 are included in both measures listed here, while the guideline (Refer to the National Guideline Clearinghouse [NGC] summary of the Institute for Clinical Systems Improvement [ICSI] guideline [Management of Type 2 Diabetes Mellitus](#).) is focused on type 2 diabetes. The inclusion of type 1 diabetes in the measures is for administrative ease, as many medical groups will not be able to determine this relatively small percentage of patients with type 1 diabetes from standard coding.

Exclusions  
Unspecified

#### NUMERATOR INCLUSIONS/EXCLUSIONS

Inclusions  
Number of patients from the denominator who have had an A1c test within 6 months of the target month with a value less than 7%

Exclusions  
Unspecified

#### DENOMINATOR TIME WINDOW

Time window precedes index event

#### NUMERATOR TIME WINDOW

Fixed time period

#### DATA SOURCE

Administrative data  
Laboratory data  
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 adult patients with diabetes with A1c less than 7%.

#### MEASURE COLLECTION

[Management of Type 2 Diabetes Mellitus Measures](#)

#### DEVELOPER

Institute for Clinical Systems Improvement

#### ADAPTATION

Measure was not adapted from another source.

#### RELEASE DATE

2003 Nov

#### MEASURE STATUS

This is the current release of the measure.

#### SOURCE(S)

Institute for Clinical Systems Improvement (ICSI). Management of type 2 diabetes mellitus. Bloomington (MN): Institute for Clinical Systems Improvement (ICSI); 2003 Nov. 80 p. [138 references]

#### MEASURE AVAILABILITY

The individual measure, "Percentage of adult patients with diabetes with A1c less than 7%," is published in "Health Care Guideline: Management of Type 2 Diabetes Mellitus." 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 July 6, 2004.

#### COPYRIGHT STATEMENT

This NQMC summary (abstracted Institute for Clinical Systems Improvement [ICSI] Measure) is based on the original measure, which is subject to the measure developer's copyright restrictions.

The abstracted ICSI Measures contained in this Web site may be downloaded by any individual or organization. If the abstracted ICSI Measures are downloaded by an individual, the individual may not distribute copies to third parties.

If the abstracted ICSI Measures are downloaded by an organization, copies may be distributed to the organization's employees but may not be distributed outside of the organization without the prior written consent of the Institute for Clinical Systems Improvement, Inc.

All other copyright rights in the abstracted ICSI Measures are reserved by the Institute for Clinical Systems Improvement, Inc. The Institute for Clinical Systems Improvement, Inc. assumes no liability for any adaptations or revisions or modifications made to the abstracts of the ICSI Measures.

© 2004 National Quality Measures Clearinghouse

Date Modified: 11/1/2004

FIRSTGOV

