Diabetes: HbA1c Poor Control (NQF 0059)

EMeasure Name	Diabetes: HbA1c Poor Control	EMeasure Id	Pending	
Version Number	1	Set Id	Pending	
Available Date	No information	Measurement Period	January 1, 20xx through December 31, 20xx	
Measure Steward	National Committee for Quality Assurance			
Endorsed by	National Quality Forum			
Description	The percentage of patients 18–75 years of age with diabetes (type 1 or type 2) who had HbA1c >9.0%.			
Measure scoring	Proportion			
Measure type	Process			
Rationale	This measure assesses the percentage of patients in a specific age demographic who were diagnosed with type 1 or type 2 diabetes and who demonstrate poor blood sugar control with an HbA1c level higher than 9 percent. Diabetes mellitus (diabetes) is a group of diseases characterized by high blood glucose levels caused by the body's inability to correctly produce or utilize the hormone insulin. It is recognized as a leading cause of death and disability in the U.S. and is highly underreported as a cause of death. Diabetes of either type may cause lifethreatening, life-ending or life-altering complications, including poor blood sugar control. Studies have shown that improved glycemic control is correlated with a 40%decline in the development of associated microvascular complications (i.e., eye, kidney and nerve diseases) (ADA 2009). Clinical guidelines recommend regular HbA1c testing to facilitate patients' ability to improve and sustain acceptable levels (ADA 2009). This measure facilitates the prevention and long-term management of high blood sugar levels for patients diagnosed with diabetes.			
Clinical	American Geriatric Society			
Recommendation Statement	and others in whom the outweigh the benefits, (Level III, Grade B) • For older persons, targ	ne risks of intensive , a less stringent tar get hemoglobin A10 .C in relatively healt	pectancy of less than 5 years, glycemic control appear to get such as 8% is appropriate. Should be individualized. A thy adults with good functional	
	American Diabetes Association			
	microvascular and neu	ropathic complicat or microvascular dis	been shown to reduce ions of type 1 and type 2 sease prevention, the A1C goal (A)	
References	Standards of Medical Care in Diabetes—2009. Diabetes Care January 2009 32:S6-S12; doi:10.2337/dc09-S006			

	Guidelines for Improving the Care of the Older Person with Diabetes Mellitus. California Healthcare Foundation/American Geriatrics Society Panel on Improving Care for Elders with Diabetes. American Geriatrics Society. May 2003–Vol. 51, No. 5 Supplement. JAGS.
Definitions	

Table of Contents

- Population criteria
- Data criteria (QDS Data Elements)
- Summary calculation

Please refer to the spreadsheet for this measure for detail regarding data criteria and code lists.

Population criteria

• Initial Patient Population =

 AND: "Patient characteristic: birth date" (age) > =17 years and <=74 years to capture all patients who will reach the ages between 18 and 75 years during the "measurement period";

• Denominator =

- o AND: All patients in the initial patient population;
- o AND:
 - OR: "Medication dispensed: medications indicative of diabetes" <= 2 years before or simultaneously to "measurement end date";
 - OR: "Medication order: medications indicative of diabetes" <= 2 years before or simultaneously to "measurement end date";
 - OR: "Medication active: medications indicative of diabetes" <= 2 years before or simultaneously to "measurement end date";
 - OR:
- AND: "Diagnosis active: diabetes" <= 2 years before or simultaneously to "measurement end date";
- AND:
 - OR: >=1 count(s) of "Encounter: encounter acute inpatient or ED";
 - OR: >=2 count(s) of "Encounter: encounter non-acute inpt, outpatient, or ophthalmology" occurring on 2 different dates;

Numerator =

AND: "Laboratory test result: HbA1c test", MOST RECENT value > 9.0%;

Exclusions =

- o OR:
- AND: "Diagnosis active: polycystic ovaries";
- AND NOT:
 - AND: "Diagnosis active: diabetes" <= 2 years before or simultaneously to "measurement end date";
 - AND:
 - OR: "Encounter: encounter acute inpatient or ED" <= 2 years before or simultaneously to "measurement end date";
 - OR: "Encounter: encounter non-acute inpt, outpatient, or ophthalmology" <= 2 years before or simultaneously to "measurement end date";

o OR:

- AND:
 - OR: "Diagnosis active: gestational diabetes" <= 2 years before or simultaneously to "measurement end date";
 - OR: "Diagnosis active: steroid induced diabetes" <= 2 years before or simultaneously to "measurement end date";
- AND:
 - OR: "Medication order: medications indicative of diabetes" <=2 years before or simultaneously to "measurement end date";
 - OR: "Medication dispensed: medications indicative of diabetes" <=2
 years before or simultaneously to "measurement end date";
 - OR: "Medication active: medications indicative of diabetes" <= 2 years before or simultaneously to "measurement end date";

AND NOT:

- AND: "Diagnosis active: diabetes" <= 2 years before or simultaneously to "measurement end date";
- AND:
 - OR: "Encounter: Encounter acute inpatient or ED" <=2 years before or simultaneously to "measurement end date";

 OR: "Encounter: encounter non-acute inpt, outpatient, or ophthalmology" <= 2 years before or simultaneously to "measurement end date";

Data criteria (QDS Data Elements)

Initial Patient Population =

o "Patient characteristic: birth date" using "birth date code list" before the "measurement period";

• Denominator =

- "Diagnosis active: diabetes" using "diabetes code list grouping" before or simultaneously to the "measurement end date";
- "Encounter: encounter acute inpatient or ED" using "encounter acute inpatient or ED code list grouping" during the "measurement period";
- "Encounter: encounter non-acute inpt, outpatient, or ophthalmology" using "encounter non-acute inpt, outpatient, or ophthalmology code list grouping" during the "measurement period";
- "Medication order: medications indicative of diabetes" using "medications indicative of diabetes code list grouping" before or simultaneously to the "measurement end date";
- "Medication dispensed: medications indicative of diabetes" using "medications indicative of diabetes code list grouping" before or simultaneously to the "measurement end date";
- o "Medication active: medications indicative of diabetes" using "medications indicative of diabetes code list grouping" before or simultaneously to the "measurement end date";

• Numerator =

 "Laboratory test result: HbA1c test" using "HbA1c test code list grouping" during the "measurement period";

Exclusions =

- "Diagnosis active: polycystic ovaries" using "polycystic ovaries code list grouping" before or simultaneously to the "measurement end date";
- "Diagnosis active: gestational diabetes" using "gestational diabetes code list grouping" before or simultaneously to the "measurement end date";
- "Diagnosis active: steroid induced diabetes" using "steroid induced diabetes code list grouping" before or simultaneously to the "measurement end date";

Summary calculation

Calculation is generic to all measures:

- Calculate the final denominator by adding all that meet denominator criteria.
- Subtract from the final denominator all that do not meet numerator criteria yet also meet exclusion criteria. Note some measures do not have exclusion criteria.

- The performance calculation is the number meeting numerator criteria divided by the final denominator.
- For measures with multiple patient populations, repeat this process for each patient population and report each result separately.
- For measures with multiple numerators, calculate each numerator separately within each population using the paired exclusion.

Measure set CLINICAL QUALITY MEASURE SET 2011-2012