eMeasure Title	Diabetes: Hemoglobin A1c (HbA1c) Poor Control (> 9%)		
eMeasure Identifier (Measure Authoring Tool)	122	eMeasure Version number	6.1.000
NQF Number	0059	GUID	f2986519-5a4e-4149-a8f2-af0a1dc7f6bc
Measurement Period	January 1, 20XX through December 31, 20XX		
Measure Steward	National Committee for Quality Assurance		
Measure Developer	National Committee for Quality Assurance		
Endorsed By	National Quality Forum		
Description	Percentage of patients 18-75 years of age with diabetes who had hemoglobin A1c > 9.0% during the measurement period		
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Measure Scoring	Proportion		
Measure Type	Outcome		
Stratification	None		
Risk Adjustment	None		
Rate Aggregation	None		
Rationale	As the seventh leading cause of death in the U.S., diabetes kills approximately 75,000 people a year (CDC FastStats 2015). Diabetes is a group of diseases marked by high blood glucose levels, resulting from the body's inability to produce or use insulin (CDC Statistics 2014, ADA Basics 2013). People with diabetes are at increased risk of serious health complications including vision loss, heart disease, stroke, kidney failure, amputation of toes, feet or legs, and premature death. (CDC Fact Sheet 2014). In 2012, diabetes cost the U.S. an estimated $245 billion: $176 billion in direct medical costs and $69 billion in reduced productivity. This is a 41 percent increase from the estimated $174 billion spent on diabetes in 2007 (ADA Economic 2013). Reducing A1c blood level results by 1 percentage point (eg, from 8.0 percent to 7.0 percent) helps reduce the risk of microvascular complications (eye, kidney and nerve diseases) by as much as 40 percent (CDC Estimates 2011).		
Clinical Recommendation	American Diabetes Association (2017):		

Statement	- A reasonable A1C goal for many nonpregnant adults is <7%. (Level of evidence: A) - Providers might reasonably suggest more stringent A1C goals (such as <6.5%) for selected individual patients if this can be achieved without significant hypoglycemia or other adverse effects of treatment. Appropriate patients might include those with short duration of diabetes, type 2 diabetes treated with lifestyle or metformin only, long life expectancy, or no significant cardiovascular disease (CVD). (Level of evidence: C) - Less stringent A1C goals (such as <8%) may be appropriate for patients with a history of severe hypoglycemia, limited life expectancy, advanced microvascular or macrovascular complications, extensive comorbid conditions, or long-standing diabetes in whom the general goal is difficult to attain despite diabetes self-management education, appropriate glucose monitoring, and effective doses of multiple glucose-lowering agents including insulin. (Level of evidence: B)
Improvement Notation	Lower score indicates better quality
Reference	American Diabetes Association. Glycemic targets. Sec. 6. In Standards of Medical Care in Diabetes-2017. Diabetes Care 2017;40(Suppl. 1):S48-S56
Reference	American Diabetes Association. 2013. Diabetes Basics. www.diabetes.org/diabetes-basics/?loc=GlobalNavDB
Reference	American Diabetes Association (ADA). April 2013. Economic Costs of Diabetes in the U.S. in 2012. Diabetes Care. Vol. 36 no. 41033-46. http://care.diabetesjournals.org/content/36/4/1033.full
Reference	Centers for Disease Control and Prevention (CDC). 2014. National Diabetes Statistics Report. http://www.cdc.gov/diabetes/pdfs/data/2014-report-estimates-of-diabetes-and-its-burden-in-the-united-states.pdf
Reference	Centers for Disease Control and Prevention (CDC). 2015. FastStats: Deaths and Mortality. www.cdc.gov/nchs/fastats/deaths.htm.
Reference	Centers for Disease Control and Prevention. 2011. National diabetes fact sheet: national estimates and general information on diabetes and prediabetes in the United States, 2011. Atlanta, GA: U.S. Department of Health and Human Services, Centers for Disease Control and Prevention. www.cdc.gov/diabetes/pubs/pdf/ndfs_2011.pdf
Reference	Centers for Disease Control and Prevention. 2014. CDC Features. Diabetes Latest. www.cdc.gov/features/diabetesfactsheet/.
Definition	None
Guidance	Patient is numerator compliant if most recent HbA1c level >9%, the most recent HbA1c result is missing, or if there are no HbA1c tests performed and results documented during the measurement period. If the HbA1c test result is in the medical record, the test can be used to determine numerator compliance. Only patients with a diagnosis of Type 1 or Type 2 diabetes should be included in the denominator of this measure; patients with a diagnosis of secondary diabetes due to another condition should not be included.
Transmission Format	TBD
Initial Population	Patients 18-75 years of age with diabetes with a visit during the measurement period
Denominator	Equals Initial Population
Denominator Exclusions	Exclude patients who were in hospice care during the measurement year
Numerator	Patients whose most recent HbA1c level (performed during the measurement period) is >9.0%
Numerator Exclusions	Not Applicable
Denominator Exceptions	None
Supplemental Data Elements	For every patient evaluated by this measure also identify payer, race, ethnicity and sex

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Population Criteria

- **Initial Population =**
  - AND: "Diagnosis: Diabetes" overlaps "Measurement Period"
  - AND: Age>= 18 year(s) at: "Measurement Period"
  - AND: Age< 75 year(s) at: "Measurement Period"

- - AND: Union of:
      - "Encounter, Performed: Office Visit"
      - "Encounter, Performed: Face-to-Face Interaction"
      - "Encounter, Performed: Preventive Care Services - Established Office Visit, 18 and Up"
      - "Encounter, Performed: Preventive Care Services-Initial Office Visit, 18 and Up"
      - "Encounter, Performed: Home Healthcare Services"
      - "Encounter, Performed: Annual Wellness Visit"
      - during "Measurement Period"
- **Denominator =**
  - AND: Initial Population
- **Denominator Exclusions =**
  - OR: "Encounter, Performed: Encounter Inpatient (discharge status: Discharged to Home for Hospice Care)" ends during "Measurement Period"
  - OR: "Encounter, Performed: Encounter Inpatient (discharge status: Discharged to Health Care Facility for Hospice Care)" ends during "Measurement Period"
  - OR: Union of:
    - "Intervention, Order: Hospice care ambulatory"
    - "Intervention, Performed: Hospice care ambulatory"
    - overlaps "Measurement Period"
- **Numerator =**
  - AND:
    - OR: "Laboratory Test, Performed: HbA1c Laboratory Test" satisfies all:
      - Most Recent: (result) during "Measurement Period"
      - (result > 9 %)
    - OR:
      - AND: Most Recent: "Occurrence A of Laboratory Test, Performed: HbA1c Laboratory Test" during "Measurement Period"
      - AND NOT: "Occurrence A of Laboratory Test, Performed: HbA1c Laboratory Test (result)"
    - OR NOT: "Laboratory Test, Performed: HbA1c Laboratory Test" during "Measurement Period"
- **Numerator Exclusions =**
  - None
- **Denominator Exceptions =**
  - None
- **Stratification =**
  - None

Data Criteria (QDM Variables)

- None

Data Criteria (QDM Data Elements)

- "Diagnosis: Diabetes" using "Diabetes Grouping Value Set (2.16.840.1.113883.3.464.1003.103.12.1001)"
- "Encounter, Performed: Annual Wellness Visit" using "Annual Wellness Visit Grouping Value Set (2.16.840.1.113883.3.526.3.1240)"
- "Encounter, Performed: Encounter Inpatient" using "Encounter Inpatient SNOMEDCT Value Set (2.16.840.1.113883.3.666.5.307)"
- "Encounter, Performed: Face-to-Face Interaction" using "Face-to-Face Interaction Grouping Value Set (2.16.840.1.113883.3.464.1003.101.12.1048)"
- "Encounter, Performed: Home Healthcare Services" using "Home Healthcare Services Grouping Value Set (2.16.840.1.113883.3.464.1003.101.12.1016)"
- "Encounter, Performed: Office Visit" using "Office Visit Grouping Value Set (2.16.840.1.113883.3.464.1003.101.12.1001)"
- "Encounter, Performed: Preventive Care Services - Established Office Visit, 18 and Up" using "Preventive Care Services - Established Office Visit, 18 and Up Grouping Value Set (2.16.840.1.113883.3.464.1003.101.12.1025)"
- "Encounter, Performed: Preventive Care Services-Initial Office Visit, 18 and Up" using "Preventive Care Services-Initial Office Visit, 18 and Up Grouping Value Set (2.16.840.1.113883.3.464.1003.101.12.1023)"
- "Intervention, Order: Hospice care ambulatory" using "Hospice care ambulatory SNOMEDCT Value Set (2.16.840.1.113762.1.4.1108.15)"
- "Intervention, Performed: Hospice care ambulatory" using "Hospice care ambulatory SNOMEDCT Value Set (2.16.840.1.113762.1.4.1108.15)"
- "Laboratory Test, Performed: HbA1c Laboratory Test" using "HbA1c Laboratory Test Grouping Value Set (2.16.840.1.113883.3.464.1003.198.12.1013)"
- Attribute: "Discharge status: Discharged to Health Care Facility for Hospice Care" using "Discharged to Health Care Facility for Hospice Care SNOMEDCT Value Set (2.16.840.1.113883.3.117.1.7.1.207)"
- Attribute: "Discharge status: Discharged to Home for Hospice Care" using "Discharged to Home for Hospice Care SNOMEDCT Value Set (2.16.840.1.113883.3.117.1.7.1.209)"

Supplemental Data Elements

- "Patient Characteristic Ethnicity: Ethnicity" using "Ethnicity CDCREC Value Set (2.16.840.1.114222.4.11.837)"
- "Patient Characteristic Payer: Payer" using "Payer SOP Value Set (2.16.840.1.114222.4.11.3591)"
- "Patient Characteristic Race: Race" using "Race CDCREC Value Set (2.16.840.1.114222.4.11.836)"
- "Patient Characteristic Sex: ONC Administrative Sex" using "ONC Administrative Sex AdministrativeGender Value Set (2.16.840.1.113762.1.4.1)"

Risk Adjustment Variables

- None

Measure Set	None