eMeasure Title	Diabetes: Eye Exam		
eMeasure Identifier (Measure Authoring Tool)	131	eMeasure Version number	6.2.000
NQF Number	0055	GUID	d90bdab4-b9d2-4329-9993-5c34e2c0dc66
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 a retinal or dilated eye exam by an eye care professional during the measurement period or a negative retinal exam (no evidence of retinopathy) in the 12 months prior to the measurement period		
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Measure Scoring	Proportion		
Measure Type	Process		
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). In 2005-2008, of adults with diabetes aged 40 years or older, 4.2 million (28.5%) people had diabetic retinopathy, damage to the small blood vessels in the retina that may result in loss of vision. (CDC Statistics, 2014).		

Clinical Recommendation Statement	American Diabetes Association (ADA) (2017): - Adults with type 1 diabetes should have an initial dilated and comprehensive eye examination by an ophthalmologist or optometrist within 5 years after the onset of diabetes. (Level of evidence: B) - Patients with type 2 diabetes should have an initial dilated and comprehensive eye examination by an ophthalmologist or optometrist at the time of the diagnosis of diabetes. (Level of evidence: B)
Improvement Notation	Higher score indicates better quality
Reference	American Diabetes Association. Microvascular complications and foot care. Sec. 10. In Standards of Medical Care in Diabetes 2017. Diabetes Care 2017;40(Suppl. 1):S88-S98
Reference	American Diabetes Association. 2009. "Standards of Medical Care in Diabetes-2009." Diabetes Care 2009 32 (Suppl 1):S6-S12. doi:10.2337/dc09-S006.
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. 4 1033-46. 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. 2014. CDC Features. Diabetes Latest. www.cdc.gov/features/diabetesfactsheet/.
Definition	None
Guidance	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. The eye exam must be performed by an ophthalmologist or optometrist.
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 with an eye screening for diabetic retinal disease. This includes diabetics who had one of the following: A retinal or dilated eye exam by an eye care professional in the measurement period or a negative retinal exam (no evidence of retinopathy) by an eye care professional in the year prior to the measurement period
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"

- - "Encounter, Performed: Ophthalmological Services"
    - 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: "Physical Exam, Performed: Retinal or Dilated Eye Exam" satisfies any:
    - (result: Negative Finding) < 12 month(s) ends before start of "Measurement Period"
    - 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: Ophthalmological Services" using "Ophthalmological Services Grouping Value Set (2.16.840.1.113883.3.526.3.1285)"
- "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)"
- "Physical Exam, Performed: Retinal or Dilated Eye Exam" using "Retinal or Dilated Eye Exam Grouping Value Set (2.16.840.1.113883.3.464.1003.115.12.1088)"
- 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)"
- Attribute: "Result: Negative Finding" using "Negative Finding Grouping Value Set (2.16.840.1.113883.3.464.1003.195.12.1002)"

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