

eMeasure Title	Colorectal Cancer Screening		
eMeasure Identifier (Measure Authoring Tool)	130	eMeasure Version number	6.1.000
NQF Number	0034	GUID	aa2a4bbc-864f-45ee-b17a-7ebcc62e6aac
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 adults 50-75 years of age who had appropriate screening for colorectal cancer		
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Measure Scoring	Proportion		
Measure Type	Process		
Stratification	None		
Risk Adjustment	None		
Rate Aggregation	None		
Rationale	<p>An estimated 132,700 men and women were diagnosed with colon or rectal cancer in 2015. In the same year, 49,700 were estimated to have died from the disease, making colorectal cancer the third leading cause of cancer death in the United States (National Cancer Institute 2015, American Cancer Society 2015).</p> <p>Screening for colorectal cancer is extremely important as there are no signs or symptoms of the cancer in the early stages. If the disease is caught in its earliest stages, it has a five-year survival rate of 90%; however, the disease is often not caught this early. While screening is extremely effective in detecting colorectal cancer, it remains underutilized (American Cancer Society 2015).</p> <p>The U.S. Preventive Services Task Force has identified fecal occult blood tests, colonoscopy, and flexible sigmoidoscopy as effective screening methods (United States Preventive Services Task Force 2008).</p>		
Clinical Recommendation Statement	<p>The United States Preventive Services Task Force (2008):</p> <p>[1] The USPSTF recommends screening for colorectal cancer using fecal occult blood testing, sigmoidoscopy, or colonoscopy in adults, beginning at age 50 years and continuing until age 75 years (A recommendation).</p>		

	[2] The USPSTF concludes that the evidence is insufficient to assess the benefits and harms of computed tomographic (CT) colonography and fecal DNA testing as screening modalities for colorectal cancer (I statement).
Improvement Notation	Higher score indicates better quality
Reference	American Cancer Society. 2015. "Cancer Prevention & Early Detection Facts & Figures 2015-2016." Atlanta: American Cancer Society.
Reference	National Cancer Institute. 2015. "SEER Stat Fact Sheets: Colon and Rectum Cancer." Bethesda, MD, http://seer.cancer.gov/statfacts/html/colorect.html
Reference	U.S. Preventive Services Task Force (USPSTF). 2008. "Screening for colorectal cancer: U.S. Preventive Services Task Force recommendation statement." Ann Intern Med 149(9):627-37.
Definition	None
Guidance	Patient self-report for procedures as well as diagnostic studies should be recorded in "Procedure, Performed" template or "Diagnostic Study, Performed" template in QRDA-1. Patient self-report is not allowed for laboratory tests.
Transmission Format	TBD
Initial Population	Patients 50-75 years of age with a visit during the measurement period
Denominator	Equals Initial Population
Denominator Exclusions	Patients with a diagnosis or past history of total colectomy or colorectal cancer. Exclude patients who were in hospice care during the measurement year.
Numerator	Patients with one or more screenings for colorectal cancer. Appropriate screenings are defined by any one of the following criteria: - Fecal occult blood test (FOBT) during the measurement period - Flexible sigmoidoscopy during the measurement period or the four years prior to the measurement period - Colonoscopy during the measurement period or the nine years prior to the measurement period - FIT-DNA during the measurement period or the two years prior to the measurement period - CT Colonography during the measurement period or the four years 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

Table of Contents

- [Population Criteria](#)
- [Data Criteria \(QDM Variables\)](#)
- [Data Criteria \(QDM Data Elements\)](#)
- [Supplemental Data Elements](#)
- [Risk Adjustment Variables](#)

Population Criteria

- **Initial Population =**
 - AND: Age ≥ 50 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"
 - OR: Union of:

- "Diagnosis: Malignant Neoplasm of Colon"
- "Procedure, Performed: Total Colectomy"
- starts before end of "Measurement Period"
- **Numerator =**
 - AND: Union of:
 - "Procedure, Performed: Colonoscopy" <= 9 year(s) ends before or concurrent with end of "Measurement Period"
 - "Laboratory Test, Performed: Fecal Occult Blood Test (FOBT) (result)" during "Measurement Period"
 - "Procedure, Performed: Flexible Sigmoidoscopy" <= 4 year(s) ends before or concurrent with end of "Measurement Period"
 - "Laboratory Test, Performed: FIT DNA (result)" <= 2 year(s) ends before or concurrent with end of "Measurement Period"
 - "Procedure, Performed: CT Colonography" <= 4 year(s) ends before or concurrent with end of "Measurement Period"
- **Numerator Exclusions =**
 - None
- **Denominator Exceptions =**
 - None
- **Stratification =**
 - None

Data Criteria (QDM Variables)

- None

Data Criteria (QDM Data Elements)

- "Diagnosis: Malignant Neoplasm of Colon" using "Malignant Neoplasm of Colon Grouping Value Set (2.16.840.1.113883.3.464.1003.108.12.1001)"
- "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: Fecal Occult Blood Test (FOBT)" using "Fecal Occult Blood Test (FOBT) Grouping Value Set (2.16.840.1.113883.3.464.1003.198.12.1011)"
- "Laboratory Test, Performed: FIT DNA" using "FIT DNA Grouping Value Set (2.16.840.1.113883.3.464.1003.108.12.1039)"
- "Procedure, Performed: Colonoscopy" using "Colonoscopy Grouping Value Set (2.16.840.1.113883.3.464.1003.108.12.1020)"
- "Procedure, Performed: CT Colonography" using "CT Colonography Grouping Value Set (2.16.840.1.113883.3.464.1003.108.12.1038)"
- "Procedure, Performed: Flexible Sigmoidoscopy" using "Flexible Sigmoidoscopy Grouping Value Set (2.16.840.1.113883.3.464.1003.198.12.1010)"
- "Procedure, Performed: Total Colectomy" using "Total Colectomy Grouping Value Set (2.16.840.1.113883.3.464.1003.198.12.1019)"
- 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
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Measure Set	None
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