

General

Title

Colorectal cancer screening: percentage of members 50 to 75 years of age who had appropriate screening for colorectal cancer.

Source(s)

National Committee for Quality Assurance (NCQA). HEDIS 2017: Healthcare Effectiveness Data and Information Set. Vol. 1, narrative. Washington (DC): National Committee for Quality Assurance (NCQA); 2016. various p. [288 references]

National Committee for Quality Assurance (NCQA). HEDIS 2017: Healthcare Effectiveness Data and Information Set. Vol. 2, technical specifications for health plans. Washington (DC): National Committee for Quality Assurance (NCQA); 2016. various p.

Measure Domain

Primary Measure Domain

Clinical Quality Measures: Process

Secondary Measure Domain

Does not apply to this measure

Brief Abstract

Description

This measure is used to assess the percentage of members 50 to 75 years of age who had appropriate screening for colorectal cancer.

Note from the National Quality Measures Clearinghouse (NQMC): For this measure, there are both Administrative and Hybrid Specifications. This NQMC measure summary is based on the Administrative specification. Refer to the original measure documentation for details pertaining to the Hybrid specification.

Rationale

Colorectal cancer (CRC) is the second leading cause of cancer-related deaths in the United States (U.S.) (U.S. Preventive Services Task Force [USPSTF], 2002). It places significant economic burden on society; treatment costs over \$6.5 billion per year. Unlike other screening tests that only detect disease, some methods of CRC screening can detect premalignant polyps and guide their removal, which, in theory, can prevent the cancer from developing.

Compelling evidence gathered during the past decade shows that systematic screening can reduce mortality from CRC. Colorectal screening may also lower mortality by allowing detection of cancer at earlier stages, when treatment is more effective (Kavanagh et al., 1998).

This measure is based on several organizations' clinical guidelines—USPSTF (2002), American Cancer Society (ACS) (Winawer et al., 1997), and Agency for Healthcare Research and Quality (AHRQ)/American Gastroenterological Association (Smith et al., 2002).

Evidence for Rationale

Kavanagh AM, Giovannucci EL, Fuchs CS, Colditz GA. Screening endoscopy and risk of colorectal cancer in United States men. *Cancer Causes Control*. 1998 Aug;9(4):455-62. [PubMed](#)

National Committee for Quality Assurance (NCQA). HEDIS 2017: Healthcare Effectiveness Data and Information Set. Vol. 1, narrative. Washington (DC): National Committee for Quality Assurance (NCQA); 2016. various p. [288 references]

Smith RA, Cokkinides V, von Eschenbach AC, Levin B, Cohen C, Runowicz CD, Sener S, Saslow D, Eyre HJ. American Cancer Society guidelines for the early detection of cancer. *CA Cancer J Clin*. 2002 Jan-Feb;52(1):8-22. [61 references] [PubMed](#)

U.S. Preventive Services Task Force. Screening for colorectal cancer: recommendations and rationale. *Ann Intern Med*. 2002 Jul 16;137(2):129-31. [PubMed](#)

Winawer SJ, Fletcher RH, Miller L, Godlee F, Stolar MH, Mulrow CD, Woolf SH, Glick SN, Ganiats TG, Bond JH, Rosen L, Zapka JG, Olsen SJ, Giardiello FM, Sisk JE, Van Antwerp R, Brown-Davis C, Marciniak DA, Mayer RJ. Colorectal cancer screening: clinical guidelines and rationale [published errata appear in *Gastroenterology* 1997 Mar;112(3):1060 and 1998 Mar;114(3):625]. *Gastroenterology*. 1997 Feb;112(2):594-642. [220 references] [PubMed](#)

Primary Health Components

Colorectal cancer; screening; fecal occult blood test (FOBT); flexible sigmoidoscopy; colonoscopy; computed tomography (CT) colonography; fecal immunochemical test (FIT)-DNA test

Denominator Description

Members age 51 to 75 years as of December 31 of the measurement year (see the related "Denominator Inclusions/Exclusions" field)

Numerator Description

One or more screenings for colorectal cancer. Any of the following meet criteria:

- Fecal occult blood test (FOBT) during the measurement year.
- Flexible sigmoidoscopy during the measurement year or the four years prior to the measurement year.
- Colonoscopy during the measurement year or the nine years prior to the measurement year.
- Computed tomography (CT) colonography during the measurement year or the four years prior to the measurement year.
- Fecal immunochemical test (FIT)-DNA test during the measurement year or the two years prior to the measurement year.

See the related "Numerator Inclusions/Exclusions" field.

Evidence Supporting the Measure

Type of Evidence Supporting the Criterion of Quality for the Measure

A clinical practice guideline or other peer-reviewed synthesis of the clinical research evidence

A formal consensus procedure, involving experts in relevant clinical, methodological, public health and organizational sciences

One or more research studies published in a National Library of Medicine (NLM) indexed, peer-reviewed journal

Additional Information Supporting Need for the Measure

Unspecified

Extent of Measure Testing

All HEDIS measures undergo systematic assessment of face validity with review by measurement advisory panels, expert panels, a formal public comment process and approval by the National Committee for Quality Assurance's (NCQA's) Committee on Performance Measurement and Board of Directors. Where applicable, measures also are assessed for construct validity using the Pearson correlation test. All measures undergo formal reliability testing of the performance measure score using beta-binomial statistical analysis.

Evidence for Extent of Measure Testing

Rehm B. (Assistant Vice President, Performance Measurement, National Committee for Quality Assurance, Washington, DC). Personal communication. 2015 Mar 16. 1 p.

State of Use of the Measure

State of Use

Current routine use

Current Use

not defined yet

Application of the Measure in its Current Use

Measurement Setting

Ambulatory/Office-based Care

Managed Care Plans

Professionals Involved in Delivery of Health Services

not defined yet

Least Aggregated Level of Services Delivery Addressed

Single Health Care Delivery or Public Health Organizations

Statement of Acceptable Minimum Sample Size

Specified

Target Population Age

Age 50 to 75 years

Target Population Gender

Either male or female

National Strategy for Quality Improvement in Health Care

National Quality Strategy Aim

Better Care

National Quality Strategy Priority

Health and Well-being of Communities

Prevention and Treatment of Leading Causes of Mortality

Institute of Medicine (IOM) National Health Care Quality Report Categories

IOM Care Need

Staying Healthy

IOM Domain

Effectiveness

Data Collection for the Measure

Case Finding Period

December 31 of the measurement year

Denominator Sampling Frame

Enrollees or beneficiaries

Denominator (Index) Event or Characteristic

Denominator Time Window

not defined yet

Denominator Inclusions/Exclusions

Inclusions

Members age 51 to 75 years as of December 31 of the measurement year

Note:

- Members must have been continuously enrolled during the measurement year and the year prior to the measurement year.
- *Allowable Gap*: No more than one gap in continuous enrollment of up to 45 days during each year of continuous enrollment.

Exclusions

- Members in hospice are excluded from the eligible population.
- Either of the following any time during the member's history through December 31 of the measurement year (*Optional*):
 - Colorectal cancer (Colorectal Cancer Value Set)
 - Total colectomy (Total Colectomy Value Set)

Value Set Information

Measure specifications reference value sets that must be used for HEDIS reporting. A value set is the complete set of codes used to identify the service(s) or condition(s) included in the measure. Refer to the [NCQA Web site](#) to purchase HEDIS Volume 2, which includes the Value Set Directory.

Exclusions/Exceptions

not defined yet

Numerator Inclusions/Exclusions

Inclusions

One or more screenings for colorectal cancer. Any of the following meet criteria:

- Fecal occult blood test (FOBT) (FOBT Value Set) during the measurement year. For administrative data, assume that the required number of samples were returned, regardless of FOBT type.
- Flexible sigmoidoscopy (Flexible Sigmoidoscopy Value Set) during the measurement year or the four years prior to the measurement year.
- Colonoscopy (Colonoscopy Value Set) during the measurement year or the nine years prior to the measurement year.
- Computed tomography (CT) colonography (CT Colonography Value Set) during the measurement year or the four years prior to the measurement year.
- Fecal immunochemical test (FIT)-DNA test (FIT-DNA Value Set) during the measurement year or the two years prior to the measurement year.

Exclusions

Unspecified

Value Set Information

Measure specifications reference value sets that must be used for HEDIS reporting. A value set is the complete set of codes used to identify the service(s) or condition(s) included in the measure. Refer to the [NCQA Web site](#) to purchase HEDIS Volume 2, which includes the Value Set Directory.

Numerator Search Strategy

Fixed time period or point in time

Data Source

Administrative clinical data

Paper medical record

Type of Health State

Does not apply to this measure

Instruments Used and/or Associated with the Measure

Unspecified

Computation of the Measure

Measure Specifies Disaggregation

Does not apply to this measure

Scoring

Rate/Proportion

Interpretation of Score

Desired value is a higher score

Allowance for Patient or Population Factors

not defined yet

Description of Allowance for Patient or Population Factors

This measure requires that separate rates be reported for commercial and Medicare product lines.

Standard of Comparison

not defined yet

Identifying Information

Original Title

Colorectal cancer screening (COL).

Measure Collection Name

HEDIS 2017: Health Plan Collection

Measure Set Name

Effectiveness of Care

Measure Subset Name

Prevention and Screening

Submitter

National Committee for Quality Assurance - Health Care Accreditation Organization

Developer

National Committee for Quality Assurance - Health Care Accreditation Organization

Funding Source(s)

Unspecified

Composition of the Group that Developed the Measure

National Committee for Quality Assurance's (NCQA's) Measurement Advisory Panels (MAPs) are composed of clinical and research experts with an understanding of quality performance measurement in the particular clinical content areas.

Financial Disclosures/Other Potential Conflicts of Interest

In order to fulfill National Committee for Quality Assurance's (NCQA's) mission and vision of improving health care quality through measurement, transparency and accountability, all participants in NCQA's expert panels are required to disclose potential conflicts of interest prior to their participation. The goal of this Conflict Policy is to ensure that decisions which impact development of NCQA's products and services are made as objectively as possible, without improper bias or influence.

Endorser

National Quality Forum - None

NQF Number

not defined yet

Date of Endorsement

2014 Dec 23

Core Quality Measures

Accountable Care Organizations (ACOs), Patient Centered Medical Homes (PCMH), and Primary Care

Measure Initiative(s)

Physician Quality Reporting System

Adaptation

This measure was not adapted from another source.

Date of Most Current Version in NQMC

2016 Oct

Measure Maintenance

Unspecified

Date of Next Anticipated Revision

Unspecified

Measure Status

This is the current release of the measure.

This measure updates previous versions:

- National Committee for Quality Assurance (NCQA). HEDIS 2016: Healthcare Effectiveness Data and Information Set. Vol. 1, narrative. Washington (DC): National Committee for Quality Assurance (NCQA); 2015. various p.
- National Committee for Quality Assurance (NCQA). HEDIS 2016: Healthcare Effectiveness Data and Information Set. Vol. 2, technical specifications for health plans. Washington (DC): National Committee for Quality Assurance (NCQA); 2015. various p.

Measure Availability

Source available for purchase from the [National Committee for Quality Measurement \(NCQA\) Web site](#) .

For more information, contact NCQA at 1100 13th Street, NW, Suite 1000, Washington, DC 20005; Phone: 202-955-3500; Fax: 202-955-3599; Web site: www.ncqa.org .

Companion Documents

The following is available:

- National Committee for Quality Assurance (NCQA). HEDIS 2017: Healthcare Effectiveness Data and Information Set. Vol. 2, technical update. Washington (DC): National Committee for Quality Assurance (NCQA); 2016 Oct 3. 12 p.

For more information, contact the National Committee for Quality Assurance (NCQA) at 1100 13th Street, NW, Suite 1000, Washington, DC 20005; Phone: 202-955-3500; Fax: 202-955-3599; Web site: www.ncqa.org .

NQMC Status

This NQMC summary was completed by ECRI on June 16, 2006. The information was not verified by the measure developer.

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This NQMC summary was updated by ECRI Institute on January 15, 2010 and on February 16, 2011.

This NQMC summary was retrofitted into the new template on June 29, 2011.

This NQMC summary was updated by ECRI Institute on May 8, 2012, March 27, 2013 January 17, 2014, January 14, 2015, January 4, 2016, and again on October 13, 2016.

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This NQMC summary is based on the original measure, which is subject to the measure developer's copyright restrictions.

For detailed specifications regarding the National Committee on Quality Assurance (NCQA) measures, refer to *HEDIS Volume 2: Technical Specifications for Health Plans*, available from the NCQA Web site at www.ncqa.org .

Production

Source(s)

National Committee for Quality Assurance (NCQA). HEDIS 2017: Healthcare Effectiveness Data and Information Set. Vol. 1, narrative. Washington (DC): National Committee for Quality Assurance (NCQA); 2016. various p. [288 references]

National Committee for Quality Assurance (NCQA). HEDIS 2017: Healthcare Effectiveness Data and Information Set. Vol. 2, technical specifications for health plans. Washington (DC): National Committee for Quality Assurance (NCQA); 2016. various p.

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