

Bowel Cancer Quality Performance Indicator Specifications

BCQI01 Route to Diagnosis

2019

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Contents

Introduction	1
BCQI01 Route to diagnosis	2
Measure type: quality improvement	2
Case eligibility criteria (denominator)	3
Numerator criteria	4

Introduction

This information is provided to make it easier for analysts to replicate our calculations. For each measure we have provided supporting information, a table and a flow diagram.

This document provides specifications for the following measure.

Measure	Measure abbreviation	Measure type
Proportion of people with cancer who are diagnosed following a referral to a clinic, screening or, presentation to an emergency department (with or without surgery)	a) Screening b) Emergency c) Referral	Quality improvement Also a benefits realisation indicator for the National Bowel Screening Programme

Sources of data for indicators

This document refers to the following national data sources.

- **New Zealand Cancer Registry (NZCR)** – a population-based register of all primary malignant diseases diagnosed in New Zealand, excluding squamous and basal cell skin cancers
- **National Minimum Dataset (NMDS)** – a collection of public and private hospital discharge information, including coded clinical data for inpatients and day patients
- **National Non-Admitted Patients Collection (NNPAC)** – includes event-based purchase units that relate to medical and surgical outpatient events and emergency department events
- **Bowel Screening Data Warehouse (BSDW)** – national repository for information relating to publicly funded bowel screening

More information on these data sources can be found on the Ministry of Health's website: www.health.govt.nz.

BCQI01 Route to diagnosis

Proportion of people with cancer who are diagnosed following a referral to a clinic, screening or, presentation to an emergency department (with or without surgery).

Measure type: quality improvement

Measure items

Dataset	Data item	Description
NZCR	Site	Primary organ of origin of the cancer
NZCR	Sex	Sex of patient
NZCR	Age at diagnosis	Age of patient at diagnosis
NZCR	Morphology	Microscopic or cellular anatomy of the cancer
NZCR	Behaviour code	Neoplastic behaviour of the cancer
NZCR	Date of initial diagnosis	Date person first diagnosed with bowel cancer
NZCR	Basis	Basis of diagnosis
NZCR	Multiple tumour flags	Person diagnosed with more than one tumour
NZCR	Registration status code	Status of registration processing
NZCR	DHB name	DHB of domicile for patient
NMDS	Health speciality	Type of inpatient admission
NMDS	LOS	Length of stay
NMDS	Event end date	Date of admission
NNPAC	Purchase code	Type of outpatient attendance
NNPAC	Date time of service	Date and time of service
BSDW	Screening date	Date of screening for bowel cancer
BSDW	Histology	Bowel screening participant's histology

Case eligibility criteria (denominator)

Diagram reference	Assessment	Item	Codes
1	First or only diagnosis of malignant neoplasm	Primary site	First diagnosis of bowel cancer (colon C18–C19 or rectum C20)
2	Exclude manually censored case	Exclusion	<p>People with appendiceal carcinomas C18.1 site code</p> <p>Patients with NETs, gastrointestinal stromal sarcoma (GISTs), lymphomas, squamous cell carcinomas, neuroendocrine carcinomas and melanomas</p> <p>Morphology codes 8240, 8249, 8246, 8070, 8720, 8013, 8041, 8244 and 8936</p> <p>Registration codes not R_C or R_R</p> <p>Non-incident cancer (exclude people with multiple tumour flags = yes)</p> <p>Patients diagnosed following death certificate only (basis = 0)</p> <p>Patient domiciled outside of New Zealand (DHB_code = 999)</p>
3	Diagnosis date	Date of initial diagnosis	2013–16
4	Male or female	Sex	M or F
5	Adult patient 18 years and older at diagnosis	Age at diagnosis	18 years and older
6	Invasive tumours	Behaviour code	3

Numerator criteria

Diagram reference	Assessment	Item	Codes
7	Numerator: a) Number of people with colorectal cancer who were diagnosed following screening	Screening	<p>Include all screening participants with a histology. Includes only adenocarcinomas. Excludes non-cancerous histology (adenoma, serrated polyp, etc) and incidental findings (squamous cell, lymphoma, etc). If described as 'cancer' only, we take that to mean adenocarcinoma.</p> <p>Ideally this numerator would restrict to patients screened within 2 weeks prior to diagnosis. This restriction was not applied within the current report as the NZCR only records definitive diagnosis following surgery.</p>
8	Numerator: b) Number of people with colorectal cancer who were diagnosed following presentation to an emergency department	Emergency	<p>Inpatient (NMDS) Health speciality = M05 (Emergency Medicine) and length of inpatient stay is between 0 and 1 days</p> <p>Outpatient (NNPAC) Outpatient attendance (purchase code) of ED</p>
9	Numerator: c) Number of people with colorectal cancer who were diagnosed following referral to a clinic	Referral	People not diagnosed at death, through emergency department or screening.

