Bowel Cancer Quality Performance Indicator Specifications

BCQI01 Route to Diagnosis

2019

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# 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) Screeningb) Emergencyc) Referral | Quality improvementAlso 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 | People with appendiceal carcinomas C18.1 site codePatients with NETs, gastrointestinal stromal sarcoma (GISTs), lymphomas, squamous cell carcinomas, neuroendocrine carcinomas and melanomasMorphology codes 8240, 8249, 8246, 8070, 8720, 8013, 8041, 8244 and 8936Registration codes not R\_C or R\_RNon-incident cancer (exclude people with multiple tumour flags = yes)Patients diagnosed following death certificate only (basis = 0)Patient domiciled outside of New Zealand (DHB\_code = 999) |
| 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 | 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.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. |
| **8** | Numerator: b) Number of people with colorectal cancer who were diagnosed following presentation to an emergency department | Emergency | Inpatient (NMDS)Health speciality = M05 (Emergency Medicine) and length of inpatient stay is between 0 and 1 daysOutpatient (NNPAC)Outpatient attendance (purchase code) of ED |
| **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. |

