Bowel Cancer Quality Performance Indicator Specifications

BCQI19 Emergency Surgery

2019

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Contents

[Introduction 1](#_Toc2156895)

[BCQI19 Emergency surgery 2](#_Toc2156896)

[Measure type: quality improvement 2](#_Toc2156897)

[Case eligibility criteria (denominator) 3](#_Toc2156898)

[Numerator criteria 4](#_Toc2156899)

[Surgical procedure codes 5](#_Toc2156900)

# 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 colorectal cancer who undergo major surgical resection performed as an emergency. | emergsurg | Quality improvement |

### 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

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

# BCQI19 Emergency surgery

Proportion of people with colorectal cancer who undergo major surgical resection performed as an emergency.

## 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 |
| NMDS | DHB name | DHB of service for patient |
| NMDS | Date of most definitive surgical resection | Date of most definitive surgical procedure of the primary site |
| NMDS | Health speciality | Type of inpatient admission |
| NMDS | Admission type | Type of admission to hospital |
| NMDS | Event start date | Date of admission |
| NMDS | Procedure code | Procedure code |
| NMDS | Date of surgery | Date of procedure |

## 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 code  Patients with NETs, gastrointestinal stromal sarcoma (GISTs), lymphomas, squamous cell carcinomas, neuroendocrine carcinomas and melanomas  Morphology codes 8240, 8249, 8246, 8070, 8720, 8013, 8041, 8244 and 8936  Registration codes not R\_C or R\_R  No 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 |
| 7 | Surgical procedure | Surgical procedure of the primary site | Includes ACHI (8th edition) procedure codes:  3200000, 3200001, 3200300, 3200301, 3200400, 3200401, 3200500, 3200501, 3200600, 3200601, 3200900, 3201200, 3201500, 3202400, 3202500, 3202600, 3202800, 3203000, 3203900, 3205100, 3205101, 3206000, 3209900, 3211200, 9220800 |
| 8 | Exclusion | Surgery date | Exclude patients who had their initial surgical procedure more than 50 days before and 365 days after diagnosis of rectum cancer or 183 days for colon cancer |

## Numerator criteria

| **Diagram reference** | **Assessment** | **Item** | **Codes** |
| --- | --- | --- | --- |
| 9 | Numerator: Number of people with colorectal cancer who undergo surgical resection following acute admission | emergsurg | Procedure following emergency (acute) admission where date of surgery date is greater than event start date  If adm\_type = AC then admission = Acute else admission = Elective |

## Surgical procedure codes

|  |  |  |
| --- | --- | --- |
| **Code** | **Clinical code description** | **Block short description** |
| 3200000 | Limited excision of large intestine with formation of stoma | Colectomy |
| 3200001 | Right hemicolectomy with formation of stoma | Colectomy |
| 3200300 | Limited excision of large intestine with anastomosis | Colectomy |
| 3200301 | Right hemicolectomy with anastomosis | Colectomy |
| 3200400 | Subtotal colectomy with formation of stoma | Colectomy |
| 3200401 | Extended right hemicolectomy with formation of stoma | Colectomy |
| 3200500 | Subtotal colectomy with anastomosis | Colectomy |
| 3200501 | Extended right hemicolectomy with anastomosis | Colectomy |
| 3200600 | Left hemicolectomy with anastomosis | Colectomy |
| 3200601 | Left hemicolectomy with formation of stoma | Colectomy |
| 3200900 | Total colectomy with ileostomy | Colectomy |
| 3201200 | Total colectomy with ileorectal anastomosis | Colectomy |
| 3201500 | Total proctocolectomy with ileostomy | Total proctocolectomy |
| 3202400 | High anterior resection of rectum | Anterior resection of rectum |
| 3202500 | Low anterior resection of rectum | Anterior resection of rectum |
| 3202600 | Ultra low anterior resection of rectum | Anterior resection of rectum |
| 3202800 | Ultra low anterior resection of rectum with hand sutured coloanal anastomosis | Anterior resection of rectum |
| 3203000 | Rectosigmoidectomy with formation of stoma | Rectosigmoidectomy or proctectomy |
| 3203900 | Abdominoperineal proctectomy | Rectosigmoidectomy or proctectomy |
| 3205100 | Total proctocolectomy with ileo-anal anastomosis | Total proctocolectomy |
| 3205101 | Total proctocolectomy with ileo-anal anastomosis and formation of temporary ileostomy | Total proctocolectomy |
| 3206000 | Restorative proctectomy | Rectosigmoidectomy or proctectomy |
| 3209900 | Per anal submucosal excision of lesion or tissue of rectum | Excision of lesion or tissue of rectum or anus |
| 3211200 | Perineal rectosigmoidectomy | Rectosigmoidectomy or proctectomy |
| 9220800 | Anterior resection of rectum, level unspecified | Anterior resection of rectum |

