

Bowel Cancer Quality Performance Indicator Specifications

BCQI19 Emergency Surgery

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 colorectal cancer who undergo major surgical resection performed as an emergency.	emergurg	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	<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>No 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
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

