

Bowel Cancer Quality Performance Indicator Specifications

BCQI21 Stoma Free Survival

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 rectal cancer who had major surgery and are free of a stoma at 18 months	stomafree	Quality improvement

Sources of data for indicators

This document refers to the following national data sources.

- **Mortality Collection (MORT)** – classifies the underlying cause of death for all deaths registered in New Zealand
- **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.

BCQI21 Stoma free survival

Proportion of people with rectal cancer who had major surgery are free of a stoma at 18 months.

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	Procedure code	Procedure code
NMDS	Procedure date	Date of procedure
MORT	Date of death	Date of death

Case eligibility criteria (denominator)

Diagram reference	Assessment	Item	Codes
1	First or only diagnosis of malignant neoplasm	Site	Date of first diagnosis with colorectal cancer
2	Primary site – rectum	Primary site	Rectum C20
3	Exclude manually censored case	Exclusion	<p>Patients who died within 18 months of diagnosis</p> <p>Patients diagnosed following death certificate only (basis = 0)</p> <p>Patients domiciled outside of New Zealand (DHB_code = 999)</p> <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>Exclude patients who had their initial surgery 2 months prior to initial diagnosis or 6 months after their initial diagnosis</p>
4	Male or female	Sex	M or F
5	Adult patient over the age of 17 at diagnosis	Age at diagnosis	18 years and over
6	Invasive tumours	Behaviour code	3
7	Diagnosis date	Date of initial diagnosis	2013–15
8	Surgical procedure	Surgical procedure of the primary site	Patients who undergo definitive surgery for rectal cancer (same procedures codes as bowel cancer) between 50 days prior and 365 days after diagnosis. This excludes patients who undergo transanal endoscopic microsurgery, transanal resection of tumour or endoscopic resection of tumour (3210300, 3210500, 3210800)

Numerator criteria

Diagram reference	Assessment	Item	Codes
9	Numerator: Number of people with colorectal cancer who do not have a stoma at 18 months after surgery	stomafree	<p>9a Includes people who never had an operation leading to a stoma within six months of rectal cancer diagnosis</p> <p>9b Excludes people who had an APER</p> <p>9c Includes people who had a stoma procedure (non APER) within six months of diagnosis and had a stoma reversal operation within 18 months of surgery</p> <p>Stoma-free at 18 months includes people who had major surgery for rectal cancer and never had a stoma and people who had a stoma which was reversed</p> <p>See ACHI procedure codes below</p>

ACHI (8th edition) procedure codes

Transanal resection codes

Code	Block short description	Clinical code description
3210300	Excision lesion or tissue rectum or anus	Per anal excision of lesion or tissue of rectum via stereoscopic rectoscopy
3210500	Excision lesion or tissue rectum or anus	Per anal full thickness excision of anorectal lesion or tissue
3210800	Excision lesion or tissue rectum or anus	Transsphincteric excision of lesion or tissue of rectum

Definitive surgery procedure codes for bowel cancer

Code	Block short description	Clinical code description
3200000	Colectomy	Limited excision of large intestine with formation of stoma
3200001	Colectomy	Right hemicolectomy with formation of stoma
3200300	Colectomy	Limited excision of large intestine with anastomosis
3200301	Colectomy	Right hemicolectomy with anastomosis
3200400	Colectomy	Subtotal colectomy with formation of stoma
3200401	Colectomy	Extended right hemicolectomy with formation of stoma
3200500	Colectomy	Subtotal colectomy with anastomosis
3200501	Colectomy	Extended right hemicolectomy with anastomosis
3200600	Colectomy	Left hemicolectomy with anastomosis
3200601	Colectomy	Left hemicolectomy with formation of stoma
3200900	Colectomy	Total colectomy with ileostomy
3201200	Colectomy	Total colectomy with ileorectal anastomosis
3201500	Total proctocolectomy	Total proctocolectomy with ileostomy
3202400	Anterior resection of rectum	High anterior resection of rectum
3202500	Anterior resection of rectum	Low anterior resection of rectum
3202600	Anterior resection of rectum	Ultra low anterior resection of rectum
3202800	Anterior resection of rectum	Ultra low anterior resection of rectum with hand sutured coloanal anastomosis
3203000	Rectosigmoidectomy or proctectomy	Rectosigmoidectomy with formation of stoma
3203900	Rectosigmoidectomy or proctectomy	Abdominoperineal proctectomy
3205100	Total proctocolectomy	Total proctocolectomy with ileo-anal anastomosis

3205101	Total proctocolectomy	Total proctocolectomy with ileo-anal anastomosis and formation of temporary ileostomy
3206000	Rectosigmoidectomy or proctectomy	Restorative proctectomy
3209900	Excision of lesion or tissue of rectum or anus	Per anal submucosal excision of lesion or tissue of rectum
3211200	Rectosigmoidectomy or proctectomy	Perineal rectosigmoidectomy
9220800	Anterior resection of rectum	Anterior resection of rectum, level unspecified

Stoma forming procedure codes

Code	Block short description	Clinical code description
3200000	Colectomy	Limited excision of large intestine with formation of stoma
3200001	Colectomy	Right hemicolectomy with formation of stoma
3200400	Colectomy	Subtotal colectomy with formation of stoma
3200401	Colectomy	Extended right hemicolectomy with formation of stoma
3200601	Colectomy	Left hemicolectomy with formation of stoma
3200900	Colectomy	Total colectomy with ileostomy
3201500	Total proctocolectomy	Total proctocolectomy with ileostomy
3202500	Anterior resection of rectum	Low anterior resection of rectum
3202600	Anterior resection of rectum	Ultra low anterior resection of rectum
3202800	Anterior resection of rectum	Ultra low anterior resection of rectum with hand sutured coloanal anastomosis
3203000	Rectosigmoidectomy or proctectomy	Rectosigmoidectomy with formation of stoma
3203900	Rectosigmoidectomy or proctectomy	Abdominoperineal proctectomy (APER)
3205100	Total proctocolectomy	Total proctocolectomy with ileo-anal anastomosis
3205101	Total proctocolectomy	Total proctocolectomy with ileo-anal anastomosis and formation of temporary ileostomy

Stoma reversal procedure codes

Code	Block short description	Clinical code description
3056200	Closure of stoma of small intestine	Closure of loop ileostomy
3056201	Closure of stoma of small intestine	Closure of ileostomy with restoration of bowel continuity, without resection

3203300	Other repair of large intestine	Restoration of bowel continuity after Hartmann's procedure
3206000	Rectosigmoidectomy or proctectomy	Restorative proctectomy

