Bowel Cancer Quality Performance Indicator Specifications

BCQI10 Lymph Node Yield

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 surgical resection where ≥12 lymph nodes are pathologically examined | lymph12 | 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.

# BCQI10 Lymph node yield

Proportion of people with colorectal cancer who undergo surgical resection where ≥12 lymph nodes are pathologically examined.

## 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 | Surgical procedure | Surgical procedure of primary site |
| NMDS | Health specialty | Type of inpatient admission |
| NMDS | Event end date | Date of admission |
| NMDS | Date of surgery | Date of most definitive surgical procedure of the primary site |
| NZCR | Nodes sample number | Number of lymph nodes sampled |

## Case eligibility criteria

| **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  Non-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  Only include these procedures between 50 days prior to and 122 days after diagnosis. |
| 8 | Procedure date | Date of first procedure of primary site | Surgical procedure date within 122 days of diagnosis date. |
| 9 | Nodes sample number\* | Number of lymph nodes examined | Is not blank. |

\* Field is not completed by NZCR staff for people with rectal cancer who undergo long course neo-adjuvant chemo radiotherapy or radiotherapy.

## Numerator criteria

|  |  |  |  |
| --- | --- | --- | --- |
| **Diagram reference** | **Assessment** | **Item** | **Codes** |
| 10 | Numerator: Number of people with colorectal cancer who undergo surgical resection where ≥12 lymph nodes are pathologically examined. | lymph12 | Nodes sample number ≥12 |

## ACHI procedure codes for definitive surgery

|  |  |  |
| --- | --- | --- |
| **Clinical 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 |

