

Bowel Cancer Quality Performance Indicator Specifications

BCQI10 Lymph Node Yield

2019

Version number	Purpose/change	Date
1	Published	04/03/2019

Citation: Ministry of Health. 2019. *Bowel Cancer Quality Performance Indicator Specifications: BCQI10 Lymph node yield*. Wellington: Ministry of Health.

Published in February 2019 by the Ministry of Health
PO Box 5013, Wellington 6140, New Zealand

ISBN 978-1-98-856856-0 (online)
HP 7042



This document is available at health.govt.nz



This work is licensed under the Creative Commons Attribution 4.0 International licence. In essence, you are free to: share ie, copy and redistribute the material in any medium or format; adapt ie, remix, transform and build upon the material. You must give appropriate credit, provide a link to the licence and indicate if changes were made.

Contents

Introduction	1
BCQI10 Lymph node yield	2
Measure type: quality improvement	2
Case eligibility criteria	3
Numerator criteria	4
ACHI procedure codes for definitive surgery	5

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	<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>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	<p>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</p> <p>Only include these procedures between 50 days prior to and 122 days after diagnosis.</p>
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

