

Lung Cancer Quality Performance Indicator Specifications

LCQI01 Route to Diagnosis

2021

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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 lung cancer who are diagnosed following presentation to an emergency department	emergency	Quality improvement

Sources of data for indicator

- 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)¹ – a collection of public and private hospital discharge information, including coded clinical data for inpatients and day patients
- National Non-Admitted Patients Collection (NNPAC) – includes event-based purchase units that relate to medical and surgical outpatient events and emergency department events

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

¹ Hospital events in NMDS are coded using the International Statistical Classification of Diseases and Related Health Problems, Tenth Revision, Australian Modification (ICD-10-AM) for diagnoses and the Australian Classification of Health Interventions (ACHI) for procedures. Both ICD-10-AM and ACHI are from the Independent Hospital Pricing Authority, Australia.

LCQI01

Route to diagnosis

Proportion of people with lung cancer who are diagnosed following presentation to an emergency department.

Measure type: quality improvement

Measure items

Dataset	Data item	Description
NZCR	NHI	Patient identifier
NZCR	Cancer event ID	Cancer registration identifier
NZCR	Date of initial diagnosis	Date person first diagnosed with lung cancer
NZCR	Diagnosis year	Calendar year of first diagnosis
NZCR	Site	Primary organ of origin of the cancer (ICD-10-AM 8 th Edition code)
NZCR	Morphology code	4-digit code (ICD-O-3) for microscopic or cellular anatomy of the cancer
NZCR	Basis	Basis of diagnosis
NZCR	DHB of domicile	DHB code for domicile of patient at diagnosis
NZCR	DHB	DHB name based on domicile of patient at diagnosis
NZCR	Age at diagnosis	Age of patient at diagnosis in years
NZCR	Prioritised ethnicity	Ethnic group derived from patient's ethnicity
NZCR	Sex	Sex of patient
NZCR	Deprivation quintile	NZDep2013 index of social deprivation quintile based on patient's domicile
NZCR	Date of death	Date patient died
NZCR	TNM_T	Stage at diagnosis – tumour
NZCR	TNM_N	Stage at diagnosis – node
NZCR	TNM_M	Stage at diagnosis – metastases
NZCR	Behaviour code	Neoplastic behaviour of the cancer
NZCR	Multiple tumour flags	Person diagnosed with more than one tumour
NZCR	Registration status code	Status of registration processing
NMDS	Purchase unit code	Type of inpatient admission
NMDS	Event start date	Date of admission

Dataset	Data item	Description
NNPAC	Purchase unit code	Type of outpatient attendance
NNPAC	Date time of service	Date and time of outpatient service
NNPAC	Attendance code	Attendance of outpatient event

Case eligibility criteria (denominator)

Diagram reference	Assessment	Item	Codes
1	First or only diagnosis of malignant neoplasm	Primary site	First diagnosis of lung cancer (trachea C33 or bronchus C34)
2	Exclude manually censored case	Exclusion	Registration codes not R_C (registered complete) or R_R (registered) No incident cancer (exclude people with multiple tumour flags = yes) People diagnosed following death certificate only (basis = 0) People domiciled outside of New Zealand (DHB_code = 999) Cancer morphologies of melanoma, sarcoma and other unusual morphologies (codes 8333, 8720, 8772, 8800, 8801, 8803, 8805, 8815, 8890, 9040, 9041, 9133)
3	Diagnosis date	Date of initial diagnosis	2015–18
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

Numerator criteria

Diagram reference	Assessment	Item	Codes
7	Numerator: Number of people with lung cancer who are diagnosed following presentation to an emergency department	emergency	<p>Inpatient (NMDS)</p> <ul style="list-style-type: none"> Emergency medicine admission Purchase unit code = M05.01 <p>Outpatient (NNPAC)</p> <ul style="list-style-type: none"> Outpatient attendance Purchase unit code like ED% Attendance code = ATT <p>ED admission/presentation within 2 weeks prior to diagnosis date</p>

