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]](#footnote-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**.

# LCQI01Route 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 8th 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 |
| 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 | Inpatient (NMDS)* Emergency medicine admission
* Purchase unit code = M05.01

Outpatient (NNPAC)* Outpatient attendance
* Purchase unit code like ED%
* Attendance code = ATT

ED admission/presentation within 2 weeks prior to diagnosis date |



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. [↑](#footnote-ref-1)