Prostate Cancer Quality Performance Indicator Specifications

2021

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# Introduction

Te Aho o Te Kahu, the Cancer Control Agency (Te Aho o Te Kahu) and the National Urological Cancer Working Group (the working group) worked together to identify a set of 13 quality performance indicators (QPIs) for prostate cancer.

The [Prostate Cancer Quality Improvement Indicators (Descriptions)](https://teaho.govt.nz/reports/publications) document sets out descriptions of and the evidence and rationale for the full set of 13 QPIs.

The five QPIs that were able to be calculated using the Ministry of Health’s national collections are presented in the associated [Prostate Cancer Quality Improvement Monitoring Report](https://teaho.govt.nz/reports/publications) (the monitoring report).

This document, the Prostate Cancer Quality Performance Indicator Technical Specifications, provides specifications for the final five QPIs to make it easier for analysts to replicate our calculations.

To this aim we have provided information on data sources, numerator criteria, denominator criteria, relevant data codes and descriptions and data flow diagrams.

The final five QPI measures for which technical specifications are provided are as follows, in the same order as the monitoring report:

| **Indicator** | **Measure** | **Measure abbreviation** | **Measure type** |
| --- | --- | --- | --- |
| [PCQI 1. Routes to diagnosis](#_PCQI_01._Route) | Proportion of men with prostate cancer who are diagnosed following presentation to an emergency department | emergency | Quality improvement |
| [PCQI 5. Discussion with radiation oncologist before radical prostatectomy](#_PCQI_02._Discussion) | Proportion of men with prostate cancer who saw a radiation oncologist prior to radical prostatectomy | radoncdis | Quality improvement |
| [PCQI 9. Equitable access to treatment](#_PCQI_03._Equitable) | Proportion of men with prostate cancer who had radical surgery | radsurg | Quality improvement |
| Proportion of men with prostate cancer who had curative radiation | radrt | Quality improvement |
| Proportion of men with prostate cancer who had radical treatment (surgery or radiation treatment) | radtrmt | Quality improvement |
| [PCQI 8. Length of stay after surgery](#_PCQI_04._Length) | Proportion of men who stayed three or more days after surgery | surg3mo | Quality improvement |
| Proportion of men who stayed five or more days after surgery | surg5mo | Quality improvement |
| [PCQI 6. Medical oncology review of men with advanced disease](#_PCQI_05._Medical) | Proportion of men who met with a medical oncologist prior to death from prostate cancer | deathmo | Quality improvement |

# PCQI 1. Route to diagnosis

Proportion of men with prostate cancer who are diagnosed following presentation to an emergency department.

## 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

## Data 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 prostate 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 |
| NZCR | Site | Primary organ of origin of the cancer |
| NZCR | Sex | Sex of patient |
| NZCR | Age at diagnosis | Age of patient at diagnosis |
| NZCR | Ethnicity | Prioritised ethnicity for patient |
| NZCR | Behaviour code | Neoplastic behaviour of the cancer |
| NZCR | Date of initial diagnosis | Date person first diagnosed with prostate cancer |
| NZCR | Basis | Basis of diagnosis |
| NZCR | NZDep13 | Social deprivation index quintile based on address of patient at time of diagnosis |
| NZCR | Multiple tumour flags | Person diagnosed with more than one tumour |
| NZCR | Registration status code | Status of registration processing |
| NMDS | Health specialty | Type of inpatient admission |
| NMDS | Event start date | Date of admission |
| NMDS | LOS | Length of hospital stay |
| 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 |

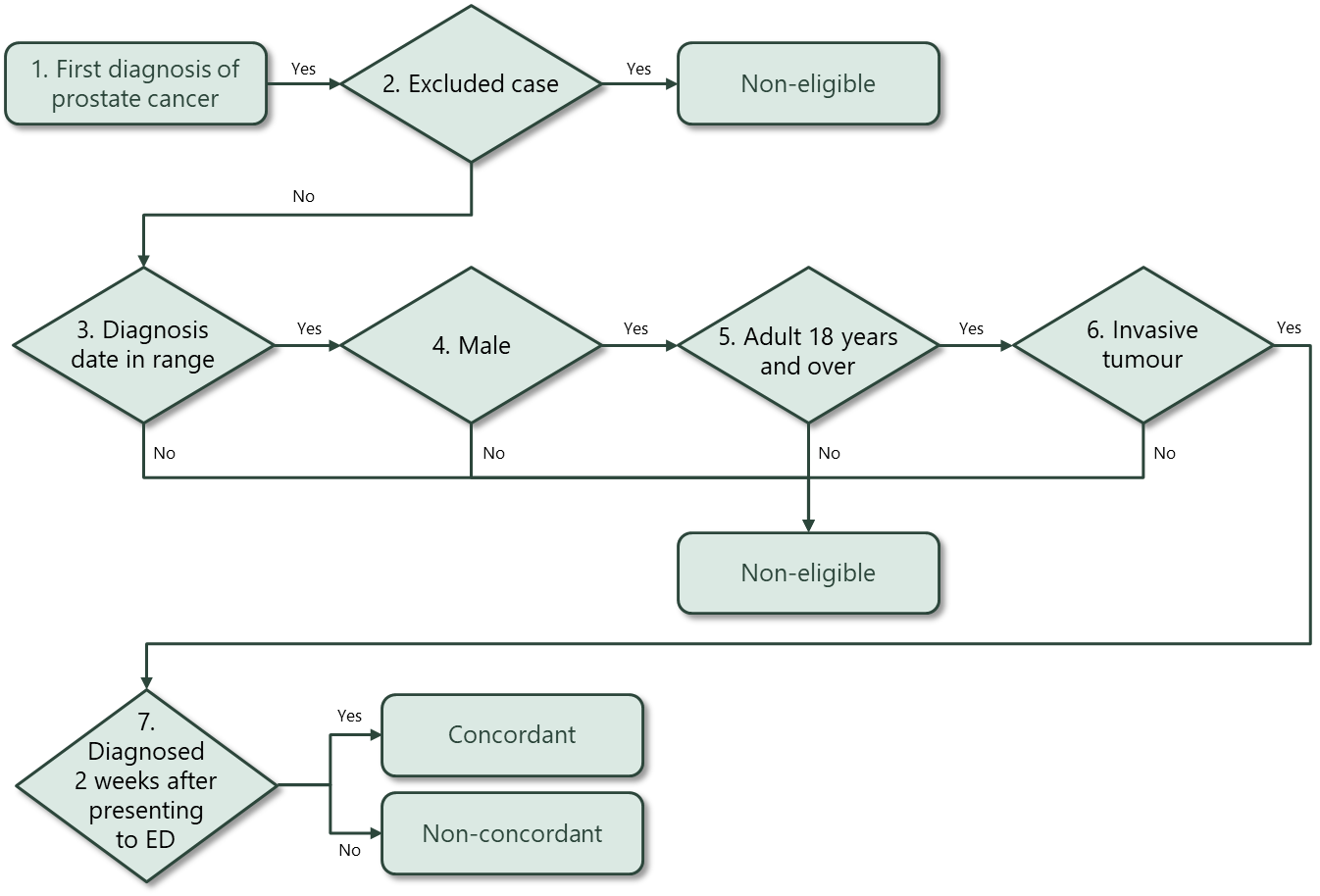
## Case eligibility criteria (denominator)

| **Diagram reference** | **Assessment** | **Item** | **Codes** |
| --- | --- | --- | --- |
| 1 | First or only diagnosis of malignant neoplasm | Primary site | First diagnosis of prostate cancer (C61) |
| 2 | Exclude manually censored case | Exclusion | Registration codes not registered complete R\_C or registered R\_R  No 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)  Morphology (ICD-O) codes  8041 – Small cell carcinoma, not otherwise specified, 8045 – Small cell-large cell carcinoma, 8246 – Neuroendocrine carcinoma, not otherwise specified, 8890 – Leiomyosarcoma, not otherwise specified, 8980 – Carcinosarcoma, not otherwise specified |
| 3 | Diagnosis date | Date of initial diagnosis | 2016–18 |
| 4 | Male | Sex | M |
| 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 | Patient was diagnosed following presentation to an emergency department | emergency | Inpatient (NMDS)   * Health speciality = M05 (Emergency Medicine) and length of inpatient stay is between 0 and 1 days   Outpatient (NNPAC)   * Outpatient attendance (purchase code) of ED * ED admission/presentation within 2 weeks prior to diagnosis date |

## Flow diagram



# PCQI 5. Discussion with radiation oncologist

Proportion of men with prostate cancer who saw a radiation oncologist before radical prostatectomy.

## 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) – 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

## Data 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 prostate 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 |
| NZCR | Site | Primary organ of origin of the cancer |
| NZCR | Sex | Sex of patient |
| NZCR | Age at diagnosis | Age of patient at diagnosis |
| NZCR | Ethnicity | Prioritised ethnicity for patient |
| NZCR | Behaviour code | Neoplastic behaviour of the cancer |
| NZCR | Date of initial diagnosis | Date person first diagnosed with prostate cancer |
| NZCR | Basis | Basis of diagnosis |
| NZCR | NZDep13 | Social deprivation index quintile based on address of patient at time 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 | Surgical procedure | Surgical procedure of primary site |
| NMDS | Date of surgery | Date of most definitive surgical procedure of the primary site |
| NNPAC | Purchase code | Type of outpatient attendance |
| NNPAC | Date and time of service | Date and time of service |

## Case eligibility criteria (denominator)

| **Diagram reference** | **Assessment** | **Item** | **Codes** |
| --- | --- | --- | --- |
| 1 | First or only diagnosis of malignant neoplasm | Primary site | First diagnosis of prostate cancer (C61) |
| 2 | Exclude manually censored case | Exclusion | Registration codes not registered complete (R\_C) or registered (R\_R)  No 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)  Morphology (ICD-O) codes  8041 – Small cell carcinoma, not otherwise specified, 8045 – Small cell-large cell carcinoma, 8246 – Neuroendocrine carcinoma, not otherwise specified, 8890 – Leiomyosarcoma, not otherwise specified, 8980 – Carcinosarcoma, not otherwise specified |
| 3 | Diagnosis date | Date of initial diagnosis | 2016–18 |
| 4 | Adult male patient 18 years and older at diagnosis | Age at diagnosis | 18 years and older |
| 5 | Invasive tumours | Behaviour code | 3 |
| 6 | Surgical procedure | Surgical procedure of the primary site | Includes ACHI (8th edition) procedure codes:  3720004, 3720900, 3720901, 3721000, 3721001, 3721100, 3721101, 3720900, 3720901, 3721000, 3721001, 3721100  Only includes procedures between 31 days prior and 456 days after diagnosis of prostate cancer.[[2]](#footnote-2) |

## Numerator criteria

| **Diagram reference** | **Assessment** | **Item** | **Codes** |
| --- | --- | --- | --- |
| 7 | Patient consulted radiation oncologist prior to radical prostatectomy | radoncdis | One of the purchase unit codes M50022 or M50023 recorded prior to the patient’s surgery date |

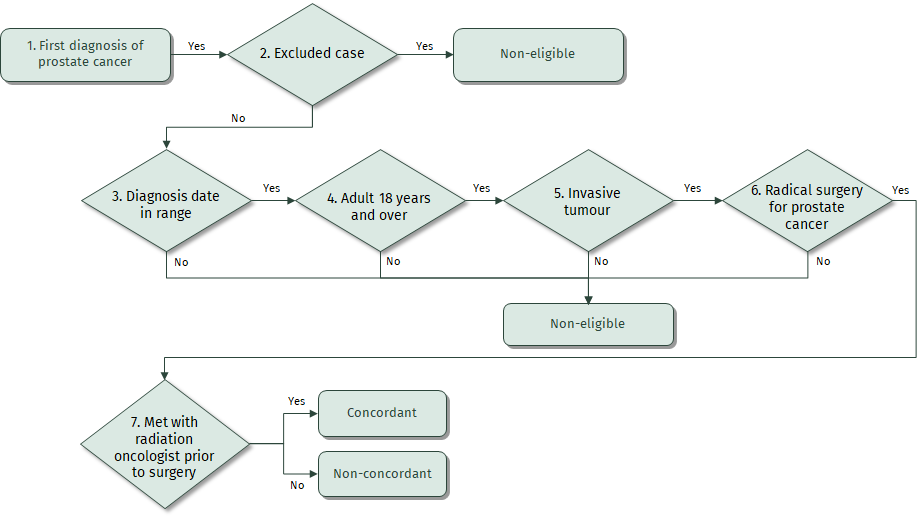
## Surgical procedure codes and descriptions

| **Clinical code** | **Block short description** | **Clinical code description** |
| --- | --- | --- |
| 3720004 | Open prostatectomy | Retropubic prostatectomy |
| 3720900 | Open prostatectomy | Radical prostatectomy |
| 3720901 | Other closed prostatectomy | Laparoscopic radical prostatectomy |
| 3721000 | Open prostatectomy | Radical prostatectomy with bladder neck reconstruction |
| 3721001 | Other closed prostatectomy | Laparoscopic radical prostatectomy with bladder neck reconstruction |
| 3721100 | Open prostatectomy | Radical prostatectomy with bladder neck reconstruction and pelvic lymphadenectomy |
| 3721101 | Other closed prostatectomy | Laparoscopic radical prostatectomy with bladder neck reconstruction and pelvic lymphadenectomy |
| 3720900 | Open prostatectomy | Radical prostatectomy |
| 3720901 | Closed prostatectomy | Laparoscopic radical prostatectomy |
| 3721000 | Open prostatectomy | Radical prostatectomy with bladder neck reconstruction |
| 3721001 | Closed prostatectomy | Laparoscopic radical prostatectomy with bladder neck reconstruction |
| 3721100 | Open prostatectomy | Radical prostatectomy with bladder neck reconstruction and pelvic lymphadenectomy |

## Purchase unit codes and descriptions

| **Purchase unit code** | **Description** | **Definition** |
| --- | --- | --- |
| M50022 | Radiation Oncology 1st Attendance | First attendance to radiation oncologist or medical officer at registrar level or above or nurse practitioner for specialist assessment. Excludes medical oncology. |
| M50023 | Radiation Oncology Subsequent Attendance | Follow-up attendances to a radiation oncologist or medical officer at registrar level or above or nurse practitioner. Excludes medical oncology and radiotherapy. |

## Flow diagram



# PCQI 9. Equitable access to treatment

Proportion of men with prostate cancer who had radical surgery

Proportion of men with prostate cancer who had curative radiation[[3]](#footnote-3)

Proportion of men with prostate cancer who had radical treatment (surgery or radiation treatment)

## 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) – a collection of public and private hospital discharge information, including coded clinical data for inpatients and day patients
* Radiation Oncology Collection (ROC) – includes private and public courses of radiation therapy delivered

## Data 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 prostate 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 |
| NZCR | Site | Primary organ of origin of the cancer |
| NZCR | Sex | Sex of patient |
| NZCR | Age at diagnosis | Age of patient at diagnosis |
| NZCR | Ethnicity | Prioritised ethnicity for patient |
| NZCR | Behaviour code | Neoplastic behaviour of the cancer |
| NZCR | Date of initial diagnosis | Date person first diagnosed with prostate cancer |
| NZCR | Basis | Basis of diagnosis |
| NZCR | NZDep13 | Social deprivation index quintile based on address of patient at time 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 | Surgical procedure | Surgical procedure of primary site |
| NMDS | Date of surgery | Date of most definitive surgical procedure of the primary site |
| ROC | Treatment start date | Radiation treatment start date |
| ROC | Planned doses | Planned doses |
| ROC | Clinical code | ICD-10-AM code |
| ROC | Intent of treatment | Intent of treatment |

## Case eligibility criteria (denominator)

| **Diagram reference** | **Assessment** | **Item** | **Codes** |
| --- | --- | --- | --- |
| 1 | First or only diagnosis of malignant neoplasm | Primary site | First diagnosis of prostate cancer (C61) |
| 2 | Exclude manually censored case | Exclusion | Registration codes not registered complete (R\_C) or registered (R\_R)  No 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)  Morphology (ICD-O) codes  8041 – Small cell carcinoma, not otherwise specified, 8045 – Small cell-large cell carcinoma, 8246 – Neuroendocrine carcinoma, not otherwise specified, 8890 – Leiomyosarcoma, not otherwise specified, 8980 – Carcinosarcoma, not otherwise specified |
| 3 | Diagnosis date | Date of initial diagnosis | 2016–18 |
| 4 | Male | Sex | M |
| 5 | Adult patient 18 years and older at diagnosis | Age at diagnosis | 18 years and older |
| 6 | Invasive tumours | Behaviour code | 3 |

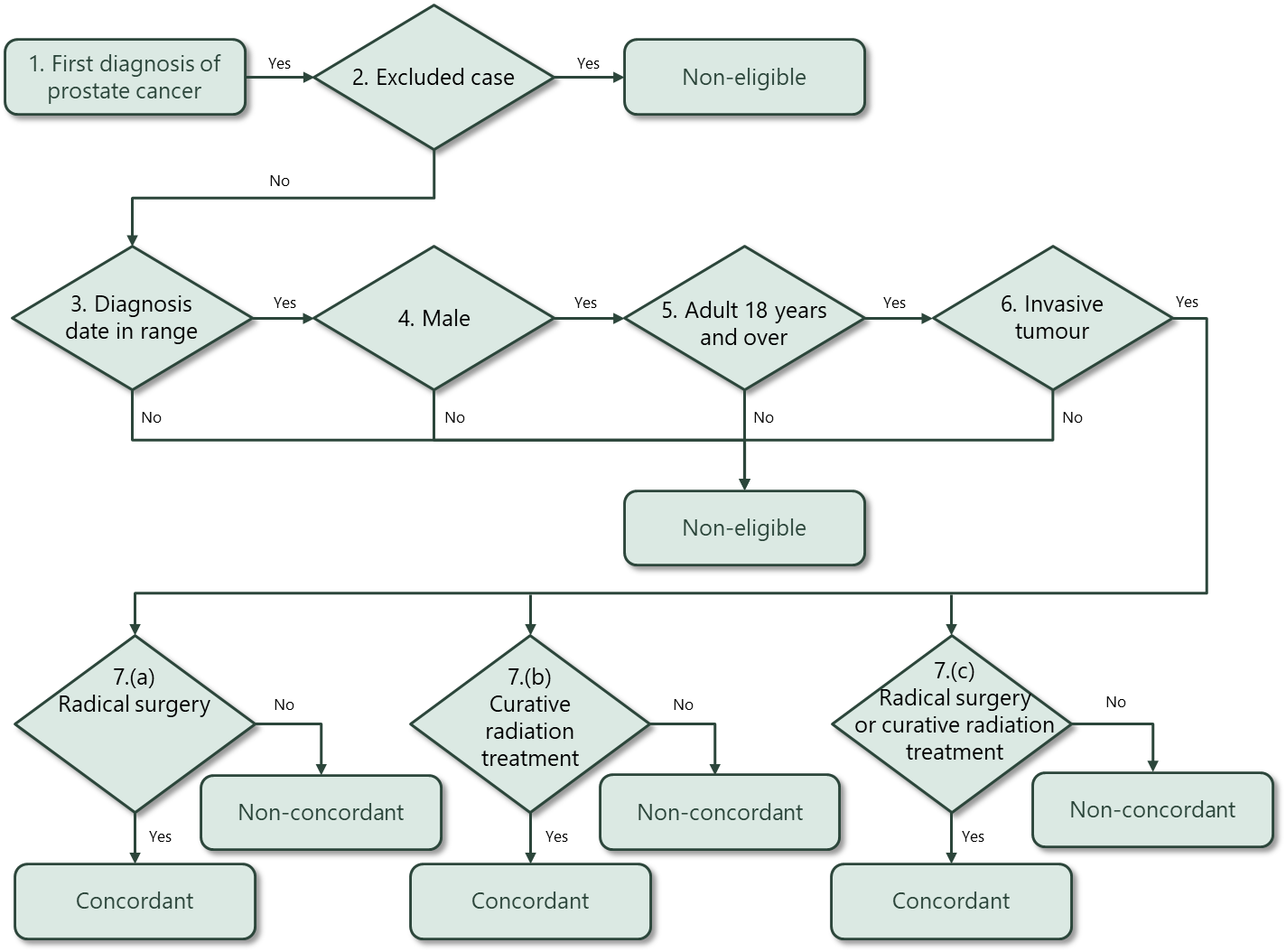
## Numerator criteria

| **Diagram reference** | **Assessment** | **Item** | **Codes** |
| --- | --- | --- | --- |
| 7a | Radical surgery | radsurg | Surgical procedure of the primary site Includes ACHI (8th edition) procedure codes:  3720004, 3720900, 3720901, 3721000, 3721001, 3721100, 3721101, 3720900, 3720901, 3721000, 3721001, 3721100  Includes procedures between 31 days prior and 456 days after diagnosis of prostate cancer. |
| 7b | Curative radiation treatment | radrt | Radiation treatment start date within one year of diagnosis and PLANNED\_DOSES\_CNT >=60 AND CLINICAL\_CODE\_ICD10\_AM8 in (‘C61’,’C610’) AND INTENT\_OF\_TREATMENT\_IND = 1 AND TMTSTARTDT – DIAG\_DATE > -31” |
| 7c | Radical surgery or curative radiation treatment | radtrmt | Includes ACHI (8th edition) procedure codes:  3720004, 3720900, 3720901, 3721000, 3721001, 3721100, 3721101, 3720900, 3720901, 3721000, 3721001, 3721100  Includes procedures between 31 days prior and 456 days after diagnosis of prostate cancer.  OR  Radiation Treatment start date within one year of diagnosis and PLANNED\_DOSES\_CNT >=60 AND CLINICAL\_CODE\_ICD10\_AM8 in (‘C61’,’C610’) AND INTENT\_OF\_TREATMENT\_IND = 1 AND TMTSTARTDT – DIAG\_DATE > -31” |

## Surgical procedure codes and descriptions

| **Clinical code** | **Block short description** | **Clinical code description** |
| --- | --- | --- |
| 3720004 | Open prostatectomy | Retropubic prostatectomy |
| 3720900 | Open prostatectomy | Radical prostatectomy |
| 3720901 | Other closed prostatectomy | Laparoscopic radical prostatectomy |
| 3721000 | Open prostatectomy | Radical prostatectomy with bladder neck reconstruction |
| 3721001 | Other closed prostatectomy | Laparoscopic radical prostatectomy with bladder neck reconstruction |
| 3721100 | Open prostatectomy | Radical prostatectomy with bladder neck reconstruction and pelvic lymphadenectomy |
| 3721101 | Other closed prostatectomy | Laparoscopic radical prostatectomy with bladder neck reconstruction and pelvic lymphadenectomy |
| 3720900 | Open prostatectomy | Radical prostatectomy |
| 3720901 | Closed prostatectomy | Laparoscopic radical prostatectomy |
| 3721000 | Open prostatectomy | Radical prostatectomy with bladder neck reconstruction |
| 3721001 | Closed prostatectomy | Laparoscopic radical prostatectomy with bladder neck reconstruction |
| 3721100 | Open prostatectomy | Radical prostatectomy with bladder neck reconstruction and pelvic lymphadenectomy |

## Flow diagram



# PCQI 8. Length of stay after surgery

* + - * 1. Proportion of men who stayed three or more days after surgery

Proportion of men who stayed five or more days after surgery

## 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) – a collection of public and private hospital discharge information, including coded clinical data for inpatients and day patients

## Data 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 prostate 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 |
| NZCR | Site | Primary organ of origin of the cancer |
| NZCR | Sex | Sex of patient |
| NZCR | Age at diagnosis | Age of patient at diagnosis |
| NZCR | Ethnicity | Prioritised ethnicity for patient |
| NZCR | Behaviour code | Neoplastic behaviour of the cancer |
| NZCR | Date of initial diagnosis | Date person first diagnosed with prostate cancer |
| NZCR | Basis | Basis of diagnosis |
| NZCR | NZDep13 | Social deprivation index quintile based on address of patient at time 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 | Surgical procedure | Surgical procedure of primary site |
| NMDS | Date of surgery | Date of most definitive surgical procedure of the primary site |
| NMDS | Date of discharge | Date of discharge from hospital |

## Case eligibility criteria (denominator)

| **Diagram reference** | **Assessment** | **Item** | **Codes** |
| --- | --- | --- | --- |
| 1 | First or only diagnosis of malignant neoplasm | Primary site | First diagnosis of prostate cancer (C61) |
| 2 | Exclude manually censored case | Exclusion | Registration codes not registered complete (R\_C) or registered (R\_R)  No 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)  Morphology (ICD-O) codes  8041 – Small cell carcinoma, not otherwise specified, 8045 – Small cell-large cell carcinoma, 8246 – Neuroendocrine carcinoma, not otherwise specified, 8890 – Leiomyosarcoma, not otherwise specified, 8980 – Carcinosarcoma, not otherwise specified |
| 3 | Diagnosis date | Date of initial diagnosis | 2016–18 |
| 4 | Male | Sex | M |
| 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:  3720004, 3720900, 3720901, 3721000, 3721001, 3721100, 3721101, 3720900, 3720901, 3721000, 3721001, 3721100  Only includes procedures between 31 days prior and 456 days after diagnosis of prostate cancer. |

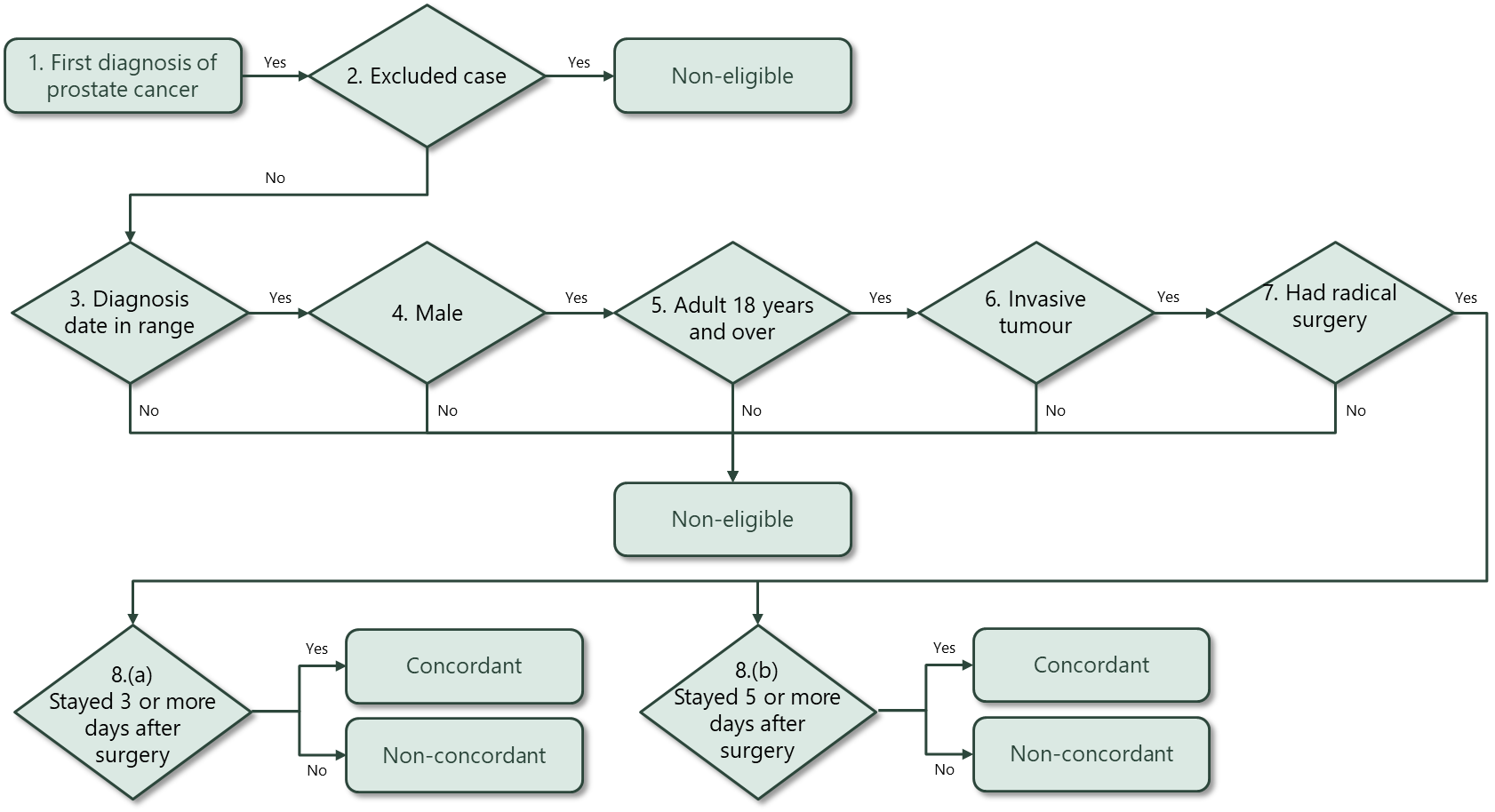
## Numerator criteria

| **Diagram reference** | **Assessment** | **Item** | **Codes** |
| --- | --- | --- | --- |
| 8a | Patient stayed 3 or more days after date of surgery | surg3mo | Date of discharge – date of surgery >=3 |
| 8b | Patient stayed 5 or more days after date of surgery | surg5mo | Date of discharge – date of surgery >=5 |

## Surgical procedure codes and descriptions

| **Clinical code** | **Block short description** | **Clinical code description** |
| --- | --- | --- |
| 3720004 | Open prostatectomy | Retropubic prostatectomy |
| 3720900 | Open prostatectomy | Radical prostatectomy |
| 3720901 | Other closed prostatectomy | Laparoscopic radical prostatectomy |
| 3721000 | Open prostatectomy | Radical prostatectomy with bladder neck reconstruction |
| 3721001 | Other closed prostatectomy | Laparoscopic radical prostatectomy with bladder neck reconstruction |
| 3721100 | Open prostatectomy | Radical prostatectomy with bladder neck reconstruction and pelvic lymphadenectomy |
| 3721101 | Other closed prostatectomy | Laparoscopic radical prostatectomy with bladder neck reconstruction and pelvic lymphadenectomy |
| 3720900 | Open prostatectomy | Radical prostatectomy |
| 3720901 | Closed prostatectomy | Laparoscopic radical prostatectomy |
| 3721000 | Open prostatectomy | Radical prostatectomy with bladder neck reconstruction |
| 3721001 | Closed prostatectomy | Laparoscopic radical prostatectomy with bladder neck reconstruction |
| 3721100 | Open prostatectomy | Radical prostatectomy with bladder neck reconstruction and pelvic lymphadenectomy |

## Flow diagram



# PCQI 6. Medical oncology review of men with advanced disease

Proportion of men who met with a medical oncologist prior to death from prostate cancer.

## 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 Non-Admitted Patients Collection (NNPAC) – includes event-based purchase units that relate to medical and surgical outpatient events and emergency department events
* The Mortality Collection (MORT) combines death registration and stillbirth registration data with cause of death information which is then collated and coded

## Data items

| **Dataset** | **Data item** | **Description** |
| --- | --- | --- |
| MORT | BDM registration no | Death registration number |
| MORT | Master encrypted NHI | Encrypted NHI number |
| MORT | Sex | Sex of patient |
| MORT | Age at death | Age of patient at death |
| MORT | Age in years | Age at death in years |
| MORT | Prioritised ethnic group | Prioritised ethnic group (from death record) derived from patient’s ethnicity |
| MORT | Domicile code | Domicile code at time of death |
| MORT | Domicile name | Name of domicile at time of death |
| MORT | NZDEP13 | NZDep2013 index of social deprivation quintile based on patient’s domicile |
| MORT | DHB | District Health Board of residence at time of death |
| MORT | Death date | Date of death |
| MORT | Death year | Year of death |
| MORT | Diagnosis type | Type of diagnosis (death) |
| MORT | Clinical code | Primary cause of death clinical code |
| MORT | Clinical code type | Primary cause of death clinical code type |
| MORT | Clinical code system | Primary cause of death clinical code system |
| NNPAC | Date/time of service | Date of appointment with medical oncologist |
| NNPAC | Service type | Type of service (first, follow-up, pre-admission) |
| NNPAC | Attendance code | Whether patient attended appointment |

## Case eligibility criteria (denominator)

| **Diagram reference** | **Assessment** | **Item** | **Codes** |
| --- | --- | --- | --- |
| 1 | Died from prostate cancer | Clinical code | D61 |
| 2 | Exclude manually censored case | Exclusion | DHB\_CODE = ‘999’ |
| 3 | Death date | Date of death | 2017–19 |
| 4 | Male | Sex | M |
| 5 | Adult patient 18 years and older at death | Age at death | 18 years and older |
| 6 | Prostate was primary cause of death | Diagnosis type | D (underlying cause of death) |

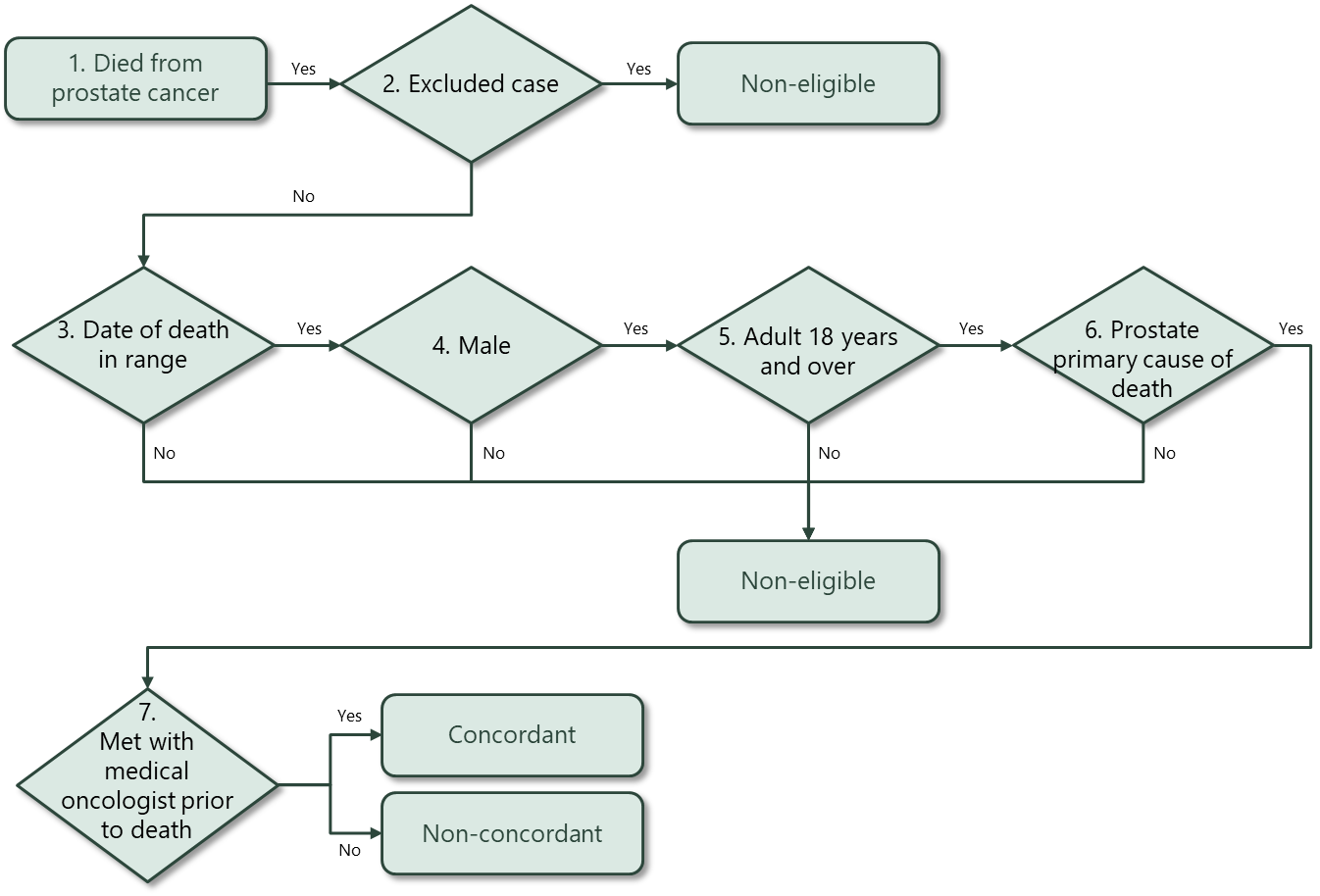
## Numerator criteria

| **Diagram reference** | **Assessment** | **Item** | **Codes** |
| --- | --- | --- | --- |
| 8 | Patient consulted medical oncologist prior to death | deathmo | NNPAC outpatients  date of service BETWEEN 20100101 AND 20201231  purchase\_unit\_code in (‘M50020’,’M50021’) AND  service\_type = ‘FIRST’ AND attendance\_code = ‘ATT’  DeathMO2yr = DEATH\_DATE – DATETIME\_OF\_SERVICE < 730  DeathMO3more = DEATH\_DATE – DATETIME\_OF\_SERVICE >= 730 |

## Purchase unit codes

| **Purchase unit code** | **Purchase unit description** | **Purchase unit definition** | **Unit of measure** |
| --- | --- | --- | --- |
| M50020 | Medical oncology 1st attendance | First attendance to medical oncologist or medical officer at registrar level or above or nurse practitioner for specialist assessment. Excludes radiation oncology. | Attendance |
| M50021 | Medical oncology subsequent attendance | Follow-up attendances to a medical oncologist or medical officer at registrar level or above or nurse practitioner. Excludes radiation oncology and chemotherapy. | Attendance |

## Flow diagram



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)
2. From CAS-SOP #4.5 Linking treatment tables – chemotherapy, tumour resections and radiotherapy Version 4.5 available from <http://www.ncin.org.uk/cancer_type_and_topic_specific_work/topic_specific_work/main_cancer_treatments>. [↑](#footnote-ref-2)
3. Curative radiation includes adjuvant and salvage radiotherapy. [↑](#footnote-ref-3)