

# PROSTATE CANCER QUALITY PERFORMANCE INDICATOR SPECIFICATIONS

2021

Citation: Te Aho o Te Kahu. 2021. *Prostate Cancer Quality Performance Indicator Specifications*. Wellington: Te Aho o Te Kahu.

Published in **September** 2021 by Te Aho o Te Kahu  
PO Box 5013, Wellington 6140, New Zealand

ISBN **XX** (online)

HP **XX**



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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) 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 (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
<b>PCQI 1. Routes to diagnosis</b>	Proportion of men with prostate cancer who are diagnosed following presentation to an emergency department	emergency	Quality improvement
<b>PCQI 5. Discussion with radiation oncologist before radical prostatectomy</b>	Proportion of men with prostate cancer who saw a radiation oncologist prior to radical prostatectomy	radoncdis	Quality improvement
<b>PCQI 9. Equitable access to treatment</b>	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
<b>PCQI 8. Length of stay after surgery</b>	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
<b>PCQI 6. Medical oncology review of men with advanced disease</b>	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)<sup>1</sup> – 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

<sup>1</sup> 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.



<b>Dataset</b>	<b>Data item</b>	<b>Description</b>
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)

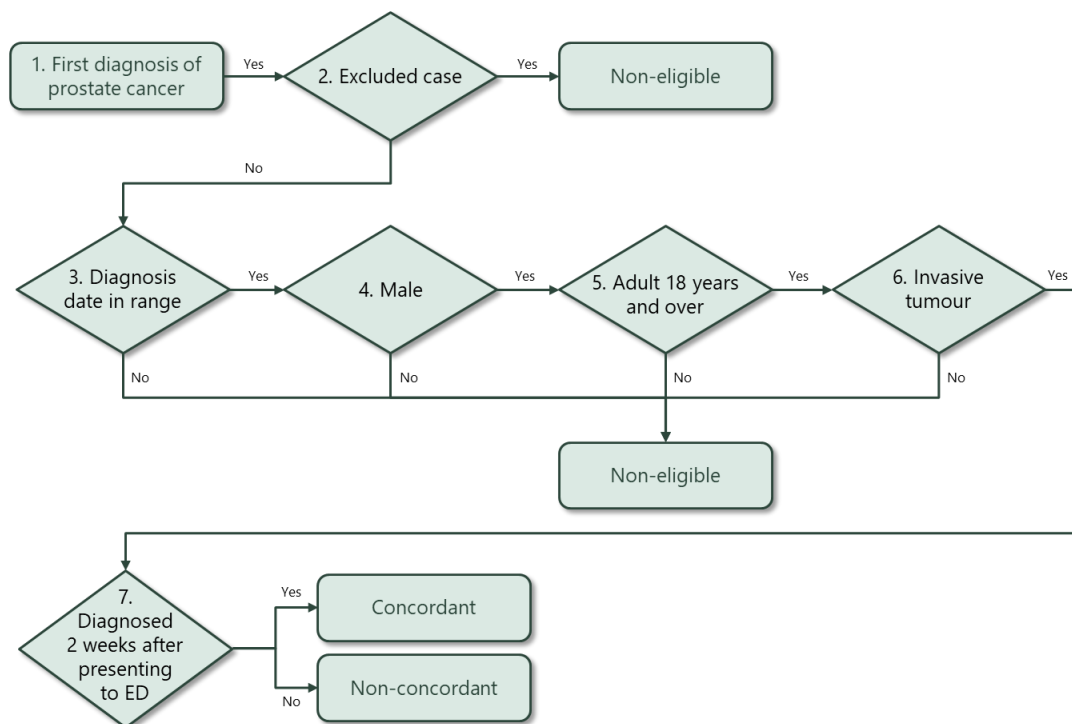
Diagram reference	Assessment	Item	Codes
1	First or only diagnosis of malignant neoplasm	Primary site	First diagnosis of prostate cancer (C61)
2	Exclude manually censored case	Exclusion	<p>Registration codes not registered complete R_C or registered R_R</p> <p>No incident cancer (exclude people with multiple 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> <p>Morphology (ICD-O) codes</p> <p>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</p>
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	<p>Inpatient (NMDS)</p> <ul style="list-style-type: none"> <li>Health speciality = M05 (Emergency Medicine) and length of inpatient stay is between 0 and 1 days</li> </ul> <p>Outpatient (NNPAC)</p> <ul style="list-style-type: none"> <li>Outpatient attendance (purchase code) of ED</li> <li>ED admission/presentation within 2 weeks prior to diagnosis date</li> </ul>

## 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



<b>Dataset</b>	<b>Data item</b>	<b>Description</b>
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	IncludesACHI (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. <sup>2</sup>

<sup>2</sup> 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](http://www.ncin.org.uk/cancer_type_and_topic_specific_work/topic_specific_work/main_cancer_treatments).



# 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

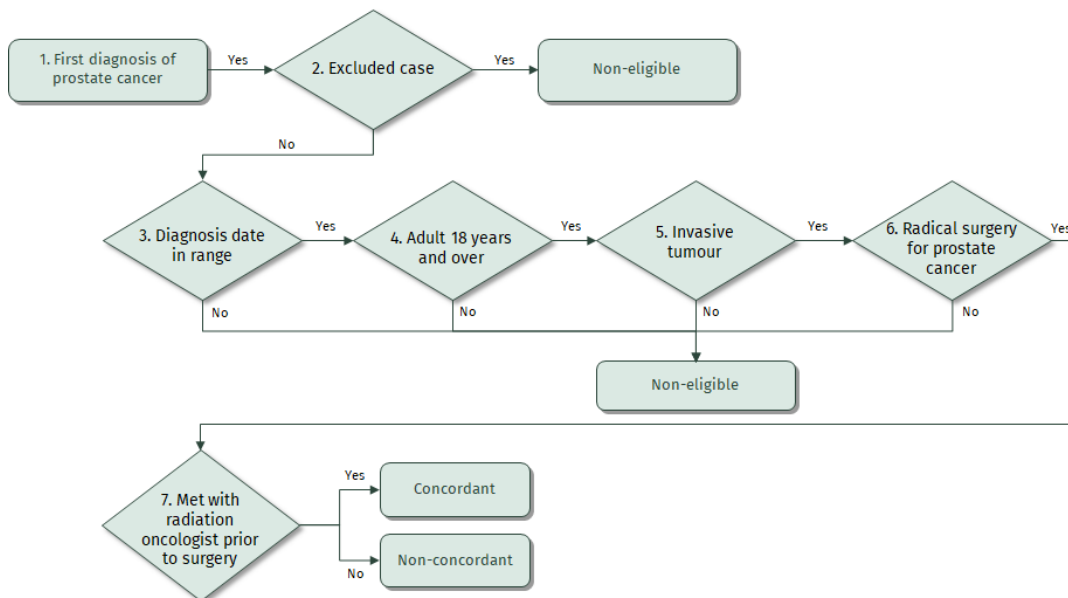
Clinical code	Block short description	Clinical code description
3720004	Open prostatectomy	Retropubic prostatectomy
3720900	Open prostatectomy	Radical prostatectomy
3720901	Other closed prostatectomy	Laparoscopic radical prostatectomy
3721000	Open prostatectomy	Radical prostatectomy with bladder neck 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

- a) Proportion of men with prostate cancer who had radical surgery
- b) Proportion of men with prostate cancer who had curative radiation<sup>3</sup>
- c) 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

<sup>3</sup> Curative radiation includes adjuvant and salvage radiotherapy.



<b>Dataset</b>	<b>Data item</b>	<b>Description</b>
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	<p>Surgical procedure of the primary site Includes ACHI (8th edition) procedure codes: 3720004, 3720900, 3720901, 3721000, 3721001, 3721100, 3721101, 3720900, 3720901, 3721000, 3721001, 3721100</p> <p>Includes procedures between 31 days prior and 456 days after diagnosis of prostate cancer.</p>
7b	Curative radiation treatment	radrt	<p>Radiation treatment start date within one year of diagnosis and PLANNED_DOSES_CNT &gt;=60 AND CLINICAL_CODE_ICD10_AM8 in ('C61','C610') AND INTENT_OF_TREATMENT_IND = 1 AND TMTSTARTDT - DIAG_DATE &gt; -31"</p>
7c	Radical surgery or curative radiation treatment	radtrmt	<p>Includes ACHI (8th edition) procedure codes: 3720004, 3720900, 3720901, 3721000, 3721001, 3721100, 3721101, 3720900, 3720901, 3721000, 3721001, 3721100</p> <p>Includes procedures between 31 days prior and 456 days after diagnosis of prostate cancer.</p> <p>OR</p> <p>Radiation Treatment start date within one year of diagnosis and PLANNED_DOSES_CNT &gt;=60 AND CLINICAL_CODE_ICD10_AM8 in ('C61','C610') AND INTENT_OF_TREATMENT_IND = 1 AND TMTSTARTDT - DIAG_DATE &gt; -31"</p>

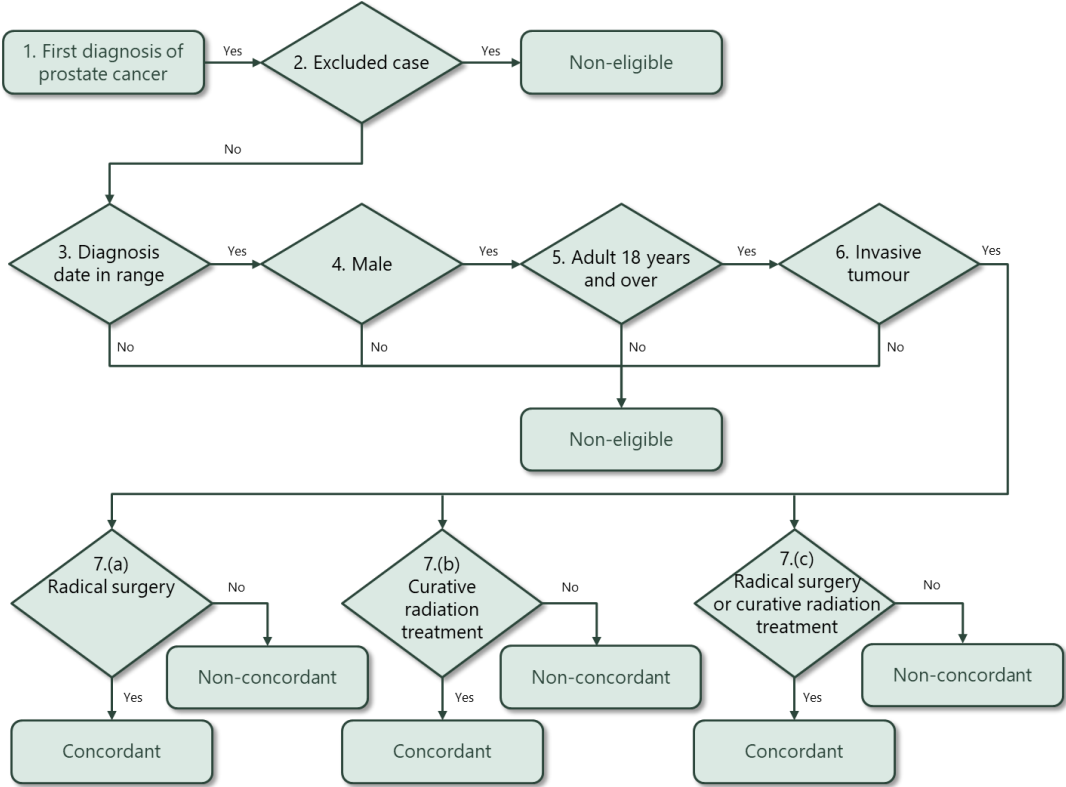


# Surgical procedure codes and descriptions

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

- a) Proportion of men who stayed three or more days after surgery
- b) 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



<b>Dataset</b>	<b>Data item</b>	<b>Description</b>
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	<p>Registration codes not registered complete (R_C) or registered (R_R)</p> <p>No 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> <p>Morphology (ICD-O) codes</p> <p>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</p>
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	<p>Includes ACHI (8th edition) procedure codes:</p> <p>3720004, 3720900, 3720901, 3721000, 3721001, 3721100, 3721101, 3720900, 3720901, 3721000, 3721001, 3721100</p> <p>Only includes procedures between 31 days prior and 456 days after diagnosis of prostate cancer.</p>



# Numerator criteria

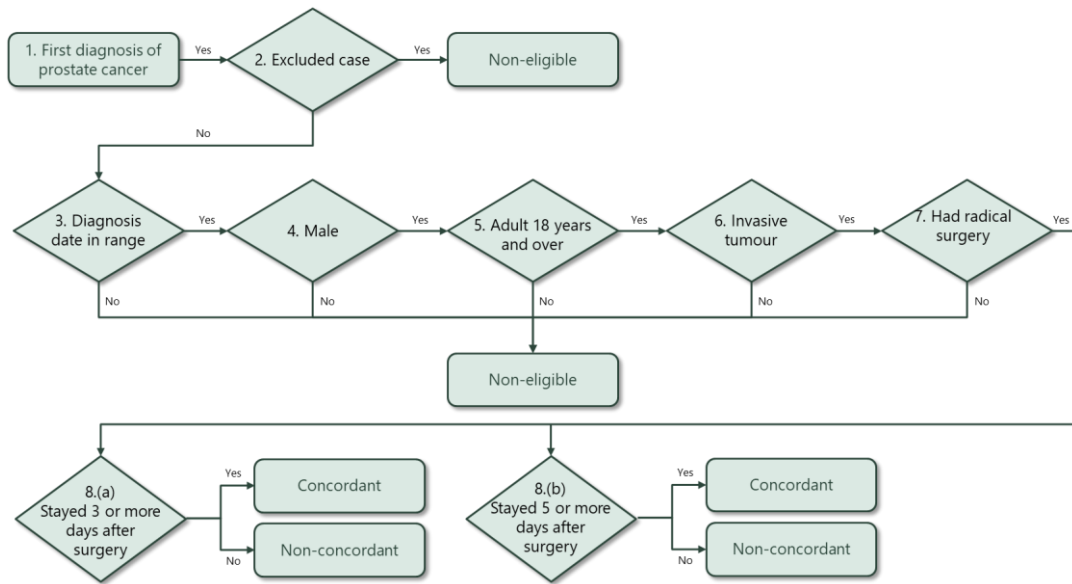
Diagram reference	Assessment	Item	Codes
8a	Patient stayed 3 or more days after date of surgery	surg3mo	Date of discharge – date of surgery >=3
8b	Patient stayed 5 or more days after date of surgery	surg5mo	Date of discharge – date of surgery >=5

# 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



Dataset	Data item	Description
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	<p>NNPAC outpatients</p> <p>date of service BETWEEN 20100101 AND 20201231</p> <p>purchase_unit_code in ('M50020','M50021') AND</p> <p>service_type = 'FIRST' AND attendance_code = 'ATT'</p> <p>DeathMO2yr = DEATH_DATE – DATETIME_OF_SERVICE &lt; 730</p> <p>DeathMO3more = DEATH_DATE – DATETIME_OF_SERVICE &gt;= 730</p>

## 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

