Queensland Cancer Quality Index 2007-2021 **Technical Appendix**





Partnership

Queensland Cancer Quality Index

Technical Appendix

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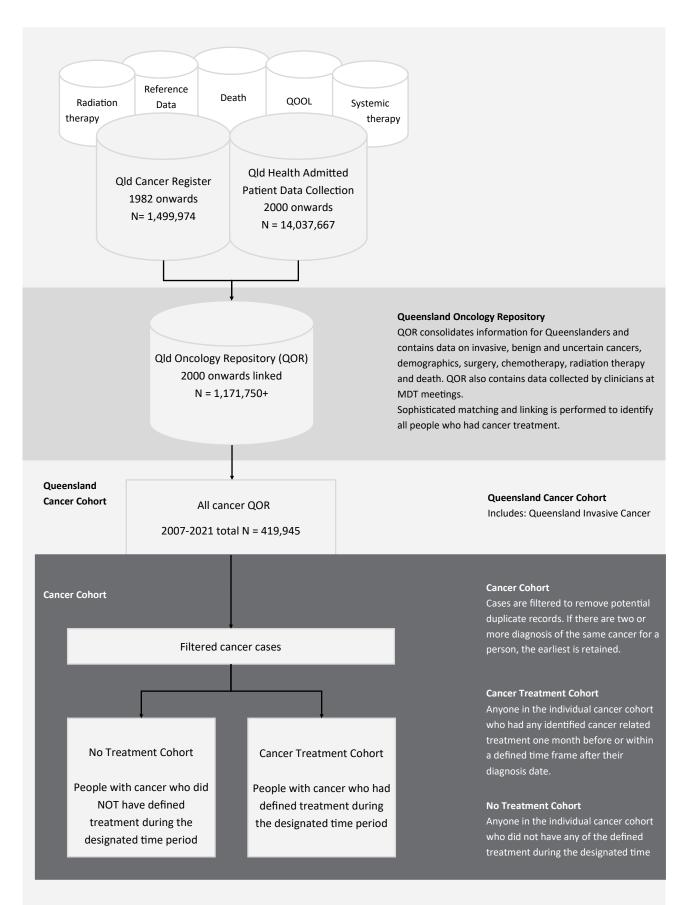
The Cancer Index Indicators

Quality Dimension	Indicator	Description	Calculation
1 Effective	1.1 Survival	What percentage of people with cancer are living 5 years after their diagnosis?	Percentage of people who would have survived if cancer was the only cause of death
	1.2 Queenslanders receiv- ing Multidisciplinary Team review (for cancer care)	How many Queenslanders with cancer receive multidisciplinary team (MDT) review during their cancer management?	Percentage of people with cancer receiv- ing MDT review anytime during their can- cer management
	1.3 Queenslanders receiv- ing cancer surgery	How many Queenslanders with cancer receive surgery?	Percentage of people with cancer receiv- ing surgery
	1.4 Queenslanders receiv- ing radiation therapy	How many Queenslanders with cancer receive radiation therapy	Percentage of people with cancer receiv- ing radiation therapy
	1.5 Queenslanders receiv- ing intravenous systemic therapy	How many Queenslanders with cancer receive intravenous systemic therapy	Percentage of people with cancer receiv- ing intravenous systemic therapy
2 Efficient	2.1 Hospital Stay	How long do people receiving cancer surgery stay in hospital?	Median time in days between the admis- sion and discharge date of cancer surgery
3 Safe	3.1 In-Hospital mortality	What percentage of people die in-hospital after cancer surgery?	Percentage of people who die in-hospital following cancer surgery
	3.2 30 day mortality	What percentage of people die within 30 days of their cancer surgery?	Percentage of people who die ≤ 30 days following cancer surgery
	3.3 90 day mortality	What percentage of people die within 90 days of their cancer surgery?	Percentage of people who die ≤ 90 days following cancer surgery
	3.4 1 year survival	What percentage of people are alive one year after cancer surgery?	Percentage of people still alive 1 year after cancer surgery
	3.5 2 year survival	What percentage of people are alive two years after cancer surgery?	Percentage of people still alive 2 years after cancer surgery
4 Accessible	4.1 Timeliness	What percentage of people attended a public or private facility and received their first cancer treatment within 30 days of diagnosis?	Percentage of people whose time from diagnosis to first cancer treatment is ≤ 30 days
	4.2 Remoteness	What percentage of people living outside a major city received cancer treatment?	Percentage of rural and remote people who received cancer treatment
	4.3 Time to first treatment ≤ 30 days	What percentage of people living outside a major city received their first cancer treatment within 30 days of diagnosis?	Percentage of rural and remote people whose time from diagnosis to cancer treatment is ≤ 30 days
5 Equitable	5.1 Over 75 years	What percentage of people aged ≥75 years received first cancer treatment within 30 days of diagnosis?	Percentage of older people whose time from diagnosis to first cancer treatment is ≤ 30 days
	5.2 First Nations peoples	What percentage of First Nations people re- ceived first cancer treatment within 30 days of diagnosis?	Percentage of First Nations people whose time from diagnosis to first cancer treatment is \leq 30 days
	5.3 Socio-economically disadvantaged	What percentage of socioeconomically disad- vantaged people received first cancer treat- ment within 30 days of diagnosis?	Percentage of socio-economically disad- vantaged people whose time from diagno- sis to first cancer treatment is ≤ 30 days

Data sources and methods

Key to Cancer Alliance's program of work is the ability to match and link population based cancer information on an individual case basis. This matched and linked data is housed in the Queensland Oncology Repository (QOR), a resource managed by Cancer Alliance Queensland. QOR consolidates cancer information for the state and contains data on cancer diagnoses from the Queensland Cancer Register (QCR) and deaths, Queensland Hospital Admissions Data Collection (QHAPDC), surgery, radiation therapy and intravenous systemic therapy. QOR also includes data collected in QOOL by clinicians at multidisciplinary team (MDT) meetings across the state. Our matching and linking processes generate millions of cnacer records from 1982 which provide the data for The Queensland Quality Cancer Index.

How the cohorts were identified



Inclusions

• Queensland residents who were diagnosed with invasive cancers outlined in table below between 1 January 2007 and 31 December 2021.

Exclusions

- People diagnosed with cancer interstate and had treatment in Queensland hospital
- Other conditions that people may have had similar surgery for, e.g. gastrectomy for gastric ulcer
- Oral therapies
- Radiation therapy where it is not external beam
- Death certificate only

Cancer treatment

Site and morphology of cancers have been coded according to the International Statistical Classification of Diseases and Related Health Problems, 12th edition, Australian Modification.

Cancer treatment time period

1 January 2007 and 31 December 2022.

BREAST CANCER

Cancer group	Cancer Site	ICD-10-AM	Morphology	Other criteria	Person count
Breast	Breast	C50	All (invasive only)	Females only	48,509

Breast Cancer Surgery				
Excision of lesion				
3153600	Localisation of lesion of breast			
3150000	Excision of lesion of breast			
Mastectomy				
3151800	Total mastectomy (unilateral)			
3151801	Total mastectomy (bilateral)			
3152400	Subcutaneous mastectomy (unilateral)			
3152401	Subcutaneous mastectomy (bilateral)			
4552001	Reduction mammoplasty with nipple repositioning, bilateral			
4552002	Reduction mammoplasty with reconstruction of nipple, unilateral			
4552003	Reduction mammoplasty with reconstruction of nipple, bilateral			
4552200	Reduction mammoplasty, unilateral			
4552201	Reduction mammoplasty, bilateral			

BRAIN CANCER

Cancer group	Cancer Site	ICD-10-AM	Morphology	Other criteria	Person count
Brain	Brain	C70, C71	All (invasive only)		4,997

BRAIN CANCER SURGERY

Craniotomy	
3964000	Removal of lesion involving anterior cranial fossa
3964200	Removal of lesion involving anterior cranial fossa with clearance of paranasal sinus extension
3964600	Removal of lesion involving anterior cranial fossa with radical clearance of paranasal sinus and orbital fossa extensions
3965000	Removal of lesion involving middle cranial and infratemporal fossae
3970601	Decompression of intracranial tumour via osteoplastic craniotomy
3970900	Removal of lesion of cerebrum
3970901	Removal of lesion of brain stem
3970902	Removal of lesion of cerebellum
3971200	Removal of lesion of cerebral meninges
3971203	Removal of intraventricular lesion
3971204	Removal of other intracranial lesion
4031200	Removal of spinal intradural lesion
4070302	Partial lobectomy of brain
4157500	Removal of lesion of cerebellopontine angle
9003200	Removal of lesion involving post cranial fossa

COLORECTAL CANCER

Cancer group	Cancer Site	ICD-10-AM	Morphology	Other criteria	Person count
	Colon	C180,C182- C189	Invasive only Excluding 8041,8070-8072, 8083,	Excluding appendix C181	28,781
Colorectal	Rectum	C19, C20, C218	8240, 8241, 8243, 8249, 8123 C218 (included adenocarcinomas only)		13,112

COLORECTAL CANCER SURGERY (CANCERS OF COLON OR RECTUM)

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3200600Left hemicolectomy with anastomosis3200601Left hemicolectomy with formation of stoma3200602Laparoscopic left hemicolectomy with anastomosis3200603Laparoscopic left hemicolectomy with formation of stoma3200900Total colectomy with ileostomy3200901Laparoscopic total colectomy with ileostomy3201200Total colectomy with ileorectal anastomosis	3200502	Laparoscopic subtotal colectomy with anastomosis
3200601Left hemicolectomy with formation of stoma3200602Laparoscopic left hemicolectomy with anastomosis3200603Laparoscopic left hemicolectomy with formation of stoma3200900Total colectomy with ileostomy3200901Laparoscopic total colectomy with ileostomy3201200Total colectomy with ileorectal anastomosis	3200503	Laparoscopic extended right hemicolectomy with anastomosis
3200602Laparoscopic left hemicolectomy with anastomosis3200603Laparoscopic left hemicolectomy with formation of stoma3200900Total colectomy with ileostomy3200901Laparoscopic total colectomy with ileostomy3201200Total colectomy with ileorectal anastomosis	3200600	Left hemicolectomy with anastomosis
3200603 Laparoscopic left hemicolectomy with formation of stoma 3200900 Total colectomy with ileostomy 3200901 Laparoscopic total colectomy with ileostomy 3201200 Total colectomy with ileorectal anastomosis	3200601	Left hemicolectomy with formation of stoma
3200900 Total colectomy with ileostomy 3200901 Laparoscopic total colectomy with ileostomy 3201200 Total colectomy with ileorectal anastomosis	3200602	Laparoscopic left hemicolectomy with anastomosis
3200901 Laparoscopic total colectomy with ileostomy 3201200 Total colectomy with ileorectal anastomosis	3200603	Laparoscopic left hemicolectomy with formation of stoma
3201200 Total colectomy with ileorectal anastomosis	3200900	Total colectomy with ileostomy
	3200901	Laparoscopic total colectomy with ileostomy
3201201 Laparoscopic total colectomy with ileorectal anastomosis	3201200	Total colectomy with ileorectal anastomosis
	3201201	Laparoscopic total colectomy with ileorectal anastomosis

COLORECTAL CANCER SURGERY (CANCERS OF COLON OR RECTUM)

Abdominoperineal Resection	
3203900	Abdominoperineal proctectomy
Total Proctocolectomy	
3201500	Total proctocolectomy with ileostomy
3205100	Total proctocolectomy with ileo-anal anastomosis
3205101	Total proctocolectomy with ileo-anal anastomosis and formation of temporary ileostomy
Anterior Resection	
3202400	High anterior resection of rectum
3202500	Low anterior resection of rectum
3202600	Ultra low anterior resection of rectum
3202800	Ultra low anterior resection of rectum with hand sutured coloanal anastomosis
9220800	Anterior resection of rectum, level unspecified
Hartmanns	
3203000	Rectosigmoidectomy with formation of stoma
3203001	Laparoscopic rectosigmoidectomy with formation of stoma
Pelvic Exenteration	
9045000	Anterior pelvic exenteration
9045001	Posterior pelvic exenteration
9045002	Total pelvic exenteration

GYNAECOLOGICAL CANCER

Cancer group	Cancer Site	ICD-10-AM	Morphology	Other criteria	Person count
	Cervix	C53	All	Females only	2,938
	Ovarian	C56, C57	(invasive only)	Females only	4,579
Gynaecological	Uterine	C54, C55		Females only	7,467
	Vagina	C52		Females only	255
	Vulva	C51		Females only	1,016

CERVIX UTERI CANCER SURGERY

CERVIX OTERI CAINCER SOR	
Major Resections	
3565300	Subtotal abdominal hysterectomy
3565301	Total abdominal hysterectomy
3565305	Laparoscopic subtotal abdominal hysterectomy
3565307	Laparoscopic total abdominal hysterectomy
3565700	Vaginal hysterectomy
3566700	Radical abdominal hysterectomy
3566701	Radical vaginal hysterectomy
3566702	Laparoscopic radical abdominal hysterectomy
3566703	Laparoscopically assisted radical vaginal hysterectomy
3575000	Laparoscopically assisted vaginal hysterectomy
9623500	Total excision of cervix laparoscopic
9623501	Total excision of cervix laparoscopically assisted vaginal approach
9623502	Total excision of cervix vaginal approach
9623503	Total excision of cervix abdominal approach
9623504	Radical excision of cervix laparoscopic
9623505	Radical excision of cervix laparoscopically assisted vaginal approach
9623506	Radical excision of cervix vaginal approach
9623507	Radical excision of cervix abdominal approach
UTERINE CANCER SURGERY	
Major Resections	
3565300	Subtotal abdominal hysterectomy
3565301	Total abdominal hysterectomy
3565305	Laparoscopic subtotal abdominal hysterectomy
3565307	Laparoscopic total abdominal hysterectomy
3565700	Vaginal hysterectomy
3566700	Radical abdominal hysterectomy
3566701	Radical vaginal hysterectomy
3566702	Laparoscopic radical abdominal hysterectomy
3566703	Laparoscopically assisted radical vaginal hysterectomy
3575000	Laparoscopically assisted vaginal hysterectomy
VAGINA CANCER SURGERY	
Major Resections	
3556000	Partial vaginectomy
3556001	Complete vaginectomy
3556100	Radical vaginectomy

VULVA CANCER SURGERY

Major Resections	
3553000	Subtotal amputation of clitoris
3553001	Total amputation of clitoris
3553600	Hemivulvectomy
3553601	Vulvectomy unilateral
3553602	Vulvectomy bilateral
3554800	Radical vulvectomy

OVARY CANCER SURGERY

OVART CANCER SOR	
Major Resections	
3563800	Laparoscopic wedge resection of ovary
3563801	Laparoscopic partial oophorectomy
3563802	Laparoscopic oophorectomy unilateral
3563803	Laparoscopic oophorectomy bilateral
3563804	Laparoscopic ovarian cystectomy unilateral
3563805	Laparoscopic ovarian cystectomy bilateral
3563807	Laparoscopic partial salpingectomy unilateral
3563808	Laparoscopic partial salpingectomy bilateral
3563809	Laparoscopic salpingectomy unilateral
3563810	Laparoscopic salpingectomy bilateral
3563811	Laparoscopic salpingo-oophorectomy unilateral
3563812	Laparoscopic salpingo-oophorectomy bilateral
3565300	Subtotal abdominal hysterectomy
3565301	Total abdominal hysterectomy
3565305	Laparoscopic subtotal abdominal hysterectomy
3565307	Laparoscopic total abdominal hysterectomy
3565700	Vaginal hysterectomy
3566700	Radical abdominal hysterectomy
3566701	Radical vaginal hysterectomy
3566702	Laparoscopic radical abdominal hysterectomy
3566703	Laparoscopically assisted radical vaginal hysterectomy
3571304	Ovarian cystectomy unilateral
3571305	Wedge resection of ovary
3571306	Partial oophorectomy
3571307	Oophorectomy unilateral
3571308	Partial salpingectomy unilateral
3571309	Salpingectomy unilateral
3571311	Salpingo-oophorectomy unilateral
3571700	Ovarian cystectomy bilateral
3571701	Oophorectomy bilateral
3571702	Partial salpingectomy bilateral
3571703	Salpingectomy bilateral
3571704	Salpingo-oophorectomy bilateral
3575000	Laparoscopically assisted vaginal hysterectomy
9032800	Excision of lesion of peritoneal tissue
9032801	Excision of lesion of peritoneal tissue with intestinal resection
9045000	Anterior pelvic exenteration
9045001	Posterior pelvic exenteration
9045002	Total pelvic exenteration
9618900	Omentectomy
9618901	Laparoscopic omentectomy

HEAD AND NECK CANCER

Cancer group	Cancer Site	ICD-10-AM	Morphol- ogy	Other crite- ria	Person count
	Head and Neck	C003-C14, C30-C32		Excluding lip	11,381
	Hypopharynx	C12-C13]		631
	Larynx	C32]		1,793
Head	Major salivary glands	C07-C08			743
	Nasal and sinus	C30-C31	All (invasive		507
and Neck	Nasopharynx	C11	only)		318
	Oral cavity	C003-C009, C020-C023, C028-C029, C030- C049, C050, C058-C069	Ulliy)	Excluding lip	3,273
	Oropharynx	C01, C024, C051-C052, C09-C10]		3,934
	Other pharynx	C14			182

HYPOPHARYNX CANCER SURGERY

HTPOPHAKTINA CANCER 3	
Major resections & other r	related surgeries
3029401	Laryngopharyngectomy and plastic reconstruction
4183400	Total laryngectomy
4183700	Hemilaryngectomy
4184000	Supraglottic laryngectomy
4184300	Laryngopharyngectomy
4185200	Laryngoscopy with removal of lesion
4186100	Microlaryngoscopy with removal of lesion by laser
4186400	Microlaryngoscopy with removal of lesion
4186700	Microlaryngoscopy with arytenoidectomy
OROPHARYNX CANCER SU	IRGERY
Major resections & other r	related surgeries
3027200	Partial excision of tongue
3027500	Radical excision of intraoral lesion
3028300	Excision of cyst of mouth
3029401	Laryngopharyngectomy and plastic reconstruction
3135000	Excision of lesion of soft tissue, not elsewhere classified
3140000	Excision of lesion of upper aerodigestive tract
4176701	Excision of lesion of oropharynx
4177901	Total excision of tongue
4178200	Partial pharyngectomy
4178500	Partial pharyngectomy with partial glossectomy
4178501	Partial pharyngectomy with total glossectomy
4178601	Uvulopalatopharyngoplasty with tonsillectomy
4178700	Uvulectomy with partial palatectomy
4178701	Uvulectomy with partial palatectomy and tonsillectomy
4178900	Tonsillectomy without adenoidectomy
4178901	Tonsillectomy with adenoidectomy
4180400	Removal of lingual tonsil
4181001	Uvulectomy
4183400	Total laryngectomy
4184000	Supraglottic laryngectomy
4184300	Laryngopharyngectomy
4185200	Laryngoscopy with removal of lesion
4186100	Microlaryngoscopy with removal of lesion by laser
4186400	Microlaryngoscopy with removal of lesion
4559600	Total resection of 1 maxilla
4559700	Total resection of both maxillae
4559900	Total resection of both sides of mandible
4560200	Subtotal resection of mandible
4560201	Subtotal resection of maxilla
4560500	Partial resection of mandible
4560501	Partial resection of maxilla
5212000	Partial resection of mandible with condylectomy
9013500	Excision of lesion of tongue
9014101	Excision of other lesion of mouth
9014301	Other procedures on palate
9014400	Excision of lesion of tonsils or adenoids
9014900	Excision of other lesion of pharynx
9016100	Excision of other lesion of larynx

LARYNX CANCER SURGERY

Major resections & other related surgeries	
3029401	Laryngopharyngectomy and plastic reconstruction
4183400	Total laryngectomy
4183700	Hemilaryngectomy
4184000	Supraglottic laryngectomy
4184300	Laryngopharyngectomy
4185200	Laryngoscopy with removal of lesion
4186100	Microlaryngoscopy with removal of lesion by laser
4186400	Microlaryngoscopy with removal of lesion
4186700	Microlaryngoscopy with arytenoidectomy
4187601	Laryngofissure with vocal cordectomy
9016100	Excision of other lesion of larynx

MAJOR SALIVARY GLANDS CANCER SURGERY

Major resections & other re	elated surgeries
3002300	Excisional debridement of soft tissue
3022900	Excision of muscle, not elsewhere classified
3024100	Excision of lesion of bone, not elsewhere classified
3024700	Total excision of parotid gland
3025000	
	Total excision of parotid gland with preservation of facial nerve
3025300	Partial excision of parotid gland
3025600	Excision of submandibular gland
3025900	Excision of sublingual gland
3027200	Partial excision of tongue
3027500	Radical excision of intraoral lesion
3120500	Excision of lesion of skin and subcutaneous tissue of other site
3123500	Excision of lesion of skin and subcutaneous tissue of other site of head
3134000	Excision of muscle, bone or cartilage involved with lesion of skin
3135000	Excision of lesion of soft tissue, not elsewhere classified
3910600	Division of intracranial trigeminal nerve
3932702	Removal of lesion from deep peripheral nerve
3971501	Partial excision of pituitary gland, transsphenoidal approach
4154500	Mastoidectomy
4155700	Modified radical mastoidectomy
4158100	Removal of lesion involving infratemporal fossa
4158400	Partial resection of temporal bone with mastoidectomy
4158401	
	Partial resection of temporal bone with mastoidectomy and decompression of facial nerve
4158700	Total resection of temporal bone
4164401	Other excision of middle ear
4167103	Septoplasty with submucous resection of nasal septum
4171603	Intranasal removal of polyp from maxillary antrum
4178900	Tonsillectomy without adenoidectomy
4186400	Microlaryngoscopy with removal of lesion
4253600	Exenteration of orbit
4544804	Small split skin graft of neck
	Total resection of 1 maxilla
4559600	
4559700	Total resection of both maxillae
4559900	Total resection of both sides of mandible
4560200	Subtotal resection of mandible
4560201	Subtotal resection of maxilla
4560500	Partial resection of mandible
4560501	Partial resection of maxilla
4561100	Mandibular condylectomy
4566500	Full thickness wedge excision of lip
4566501	Full thickness wedge excision of eyelid
5020300	Marginal excision of lesion of bone
5212000	Partial resection of mandible with condylectomy
9013800	Excision of lesion of salivary gland
9014100	Local excision or destruction of lesion of bony palate
9014102	Excision or destruction of lesion of palate
9014900	Excision of other lesion of pharynx
9066500	Excisional debridement of skin and subcutaneous tissue
9066501	Debridement of skin and subcutaneous tissue, not elsewhere classified
9067800	Partial resection of other facial bone, not elsewhere classified
9067802	Total resection of other facial bone, not elsewhere classified
9733100	Alveolectomy, per segment
4561100	Mandibular condylectomy
4566500	Full thickness wedge excision of lip
4566501	Full thickness wedge excision of eyelid
5020300	Marginal excision of lesion of bone
5212000	Partial resection of mandible with condylectomy
9013800	Excision of lesion of salivary gland
9014100	Local excision or destruction of lesion of bony palate
9014102	Excision or destruction of lesion of palate
9014900	Excision of other lesion of pharynx
9066500	Excisional debridement of skin and subcutaneous tissue
9066501	Debridement of skin and subcutaneous tissue, not elsewhere classified
9067800	Partial resection of other facial bone, not elsewhere classified
9067802	Total resection of other facial bone, not elsewhere classified
9733100	Alveolectomy, per segment

NASAL CAVITY AND PARANASAL SINUSES CANCER SURGERY

Major resections & other related surgeries		
3025600	Excision of submandibular gland	
3964000	Removal of lesion involving anterior cranial fossa	
3964200	Removal of lesion involving anterior cranial fossa with clearance of paranasal sinus extension	
3964600	Removal of lesion involving anterior cranial fossa with radical clearance of paranasal sinus and orbital fossa extensions	
3965000	Removal of lesion involving middle cranial and infratemporal fossae	
3966002	Excision of lesion of cavernous sinus	
3970000	Excision of lesion of skull	
4154500	Mastoidectomy	
4155700	Modified radical mastoidectomy	
4155701	Radical mastoidectomy	
4158100	Removal of lesion involving infratemporal fossa	
4158400	Partial resection of temporal bone with mastoidectomy	
4158401	Partial resection of temporal bone with mastoidectomy and decompression of facial nerve	
4166800	Removal of nasal polyp	
4167100	Submucous resection of nasal septum	
4167103	Septoplasty with submucous resection of nasal septum	
4168900	Partial turbinectomy, unilateral	
4168901	Partial turbinectomy, bilateral	
4168902	Total turbinectomy, unilateral	
4168903	Total turbinectomy, bilateral	
4168904	Turbinoplasty, unilateral	
4168905	Turbinoplasty, bilateral	
4169200	Submucous resection of turbinate, unilateral	
4169201	Submucous resection of turbinate, bilateral	
4171000	Radical maxillary antrostomy, unilateral	
4171300	Radical maxillary antrostomy with transantral ethmoidectomy	
4171301	Radical maxillary antrostomy with transantral vidian neurectomy	
4171606	Excision of lesion of maxillary antrum	
4172800	Lateral rhinotomy with removal of intranasal lesion	
4173100	Ethmoidectomy, frontonasal approach	
4173101	Ethmoidectomy with sphenoidectomy, frontonasal approach	
4173702	Ethmoidectomy, unilateral	
4173703	Ethmoidectomy, bilateral	
4173709	Frontal sinusectomy	
4175201	Sphenoidectomy	
4176700	Removal of lesion of nasopharynx	
4253600	Exenteration of orbit	
4253601	Exenteration of orbit with skin graft	
4253604	Exenteration of orbit with removal of adjacent structures	
4253605	Exenteration of orbit with therapeutic removal of orbital bone	
4559600	Total resection of 1 maxilla	
4560201	Subtotal resection of maxilla	
4560501	Partial resection of maxilla	
4572001	Osteotomy of maxilla, unilateral	
9003200	Removal of lesion involving posterior cranial fossa	
9011600	Other procedures on mastoid or temporal bone	
9013100	Local excision of other intranasal lesion	
9013101	Rhinectomy	
9625701	Functional endoscopic sinus surgery [FESS]	
NASOPHARYNX CANCE		
Major resections & other related surgeries		
3135000	Excision of lesion of soft tissue, not elsewhere classified	
4167100	Submucous resection of nasal septum	
4173702	Ethmoidectomy, unilateral	
-1/3/02	Lannoidectonty, diffiateral	

416/100	Submucous resection of hasal septum
4173702	Ethmoidectomy, unilateral
4173703	Ethmoidectomy, bilateral
4173709	Frontal sinusectomy
4175201	Sphenoidectomy
4176700	Removal of lesion of nasopharynx
4180100	Adenoidectomy without tonsillectomy
9625701	Functional endoscopic sinus surgery [FESS]

OTHER PHARYNX CANCER SURGERY

Major resection	s & other related surgeries
3024700	Total excision of parotid gland
3025000	Total excision of parotid gland with preservation of facial nerve
3025300	Partial excision of parotid gland
3025600	Excision of submandibular gland
3025900	Excision of sublingual gland
3027200	Partial excision of tongue
3027500	Radical excision of intraoral lesion
3028300	Excision of cyst of mouth
3029401 3135000	Laryngopharyngectomy and plastic reconstruction Excision of lesion of soft tissue, not elsewhere classified
3140000	Excision of lesion of upper aerodigestive tract
3140900	Excision of parapharyngeal lesion by cervical approach
4166800	Removal of nasal polyp
4171606	Excision of lesion of maxillary antrum
4172800	Lateral rhinotomy with removal of intranasal lesion
4173100	Ethmoidectomy, frontonasal approach
4173101	Ethmoidectomy with sphenoidectomy, frontonasal approach
4173702	Ethmoidectomy, unilateral
4173703	Ethmoidectomy, bilateral
4173709	Frontal sinusectomy
4175201 4176700	Sphenoidectomy Removal of lesion of nasopharynx
4176700	Excision of lesion of oropharynx
4177901	Total excision of tongue
4177902	Incision and drainage of pharyngeal abscess
4178200	Partial pharyngectomy
4178500	Partial pharyngectomy with partial glossectomy
4178501	Partial pharyngectomy with total glossectomy
4178601	Uvulopalatopharyngoplasty with tonsillectomy
4178700	Uvulectomy with partial palatectomy
4178701	Uvulectomy with partial palatectomy and tonsillectomy
4178900	Tonsillectomy without adenoidectomy
4178901	Tonsillectomy with adenoidectomy
4180400	Removal of lingual tonsil
4181001	Uvulectomy
4183400 4183700	Total laryngectomy Hemilaryngectomy
4184000	Supraglottic laryngectomy
4184300	Laryngopharyngectomy
4185200	Laryngoscopy with removal of lesion
4186100	Microlaryngoscopy with removal of lesion by laser
4186400	Microlaryngoscopy with removal of lesion
4186700	Microlaryngoscopy with arytenoidectomy
4559600	Total resection of 1 maxilla
4559700	Total resection of both maxillae
4559900	Total resection of both sides of mandible
4560200	Subtotal resection of mandible
4560201	Subtotal resection of maxilla
4560500	Partial resection of mandible
4560501 4561100	Partial resection of maxilla Mandibular condylectomy
4566500	Full thickness wedge excision of lip
4566800	Vermilionectomy
4572001	Osteotomy of maxilla, unilateral
4572002	Ostectomy of mandible, unilateral
5212000	Partial resection of mandible with condylectomy
9013100	Local excision of other intranasal lesion
9013101	Rhinectomy
9013500	Excision of lesion of tongue
9013800	Excision of lesion of salivary gland
9014101	Excision of other lesion of mouth
9014301	Other procedures on palate
9014400	Excision of lesion of tonsils or adenoids
9014900	Excision of other lesion of pharynx
9016100 9625701	Excision of other lesion of larynx Functional endoscopic sinus surgery [FESS]
5025701	

ORAL CAVITY CANCER SURGERY

ORAL CAVITY CANCER S	URGERY
Major resections & othe	er related surgeries
3002300	Excisional debridement of soft tissue
3010300	Excision of sinus involving soft tissue, not elsewhere classified
3022900	Excision of muscle, not elsewhere classified
3024100	Excision of lesion of bone, not elsewhere classified
3024700	Total excision of parotid gland
3025000	Total excision of parotid gland with preservation of facial nerve
3025300	Partial excision of parotid gland
3025500	Removal of submandibular ducts
3025600	Excision of submandibular gland
3025900	Excision of sublingual gland
	Incision of salivary gland or duct
3026600	
3027200	Partial excision of tongue
3027500	Radical excision of intraoral lesion
3028300	Excision of cyst of mouth
3120500	Excision of lesion of skin and subcutaneous tissue of other site
3123500	Excision of lesion of skin and subcutaneous tissue of other site of head
3134000	Excision of muscle, bone or cartilage involved with lesion of skin
3135000	Excision of lesion of soft tissue, not elsewhere classified
3140000	Excision of lesion of upper aerodigestive tract
3910600	Division of intracranial trigeminal nerve
3932400	Neurectomy of superficial peripheral nerve
3964000	Removal of lesion involving anterior cranial fossa
3970000	Excision of lesion of skull
4154500	Mastoidectomy
4158100	Removal of lesion involving infratemporal fossa
4167100	Submucous resection of nasal septum
4168902	Total turbinectomy, unilateral
4170700	Interruption of maxillary artery
4171301	Radical maxillary antrostomy with transantral vidian neurectomy
4171603	Intranasal removal of polyp from maxillary antrum
4173100	Ethmoidectomy, frontonasal approach
4173101	Ethmoidectomy with sphenoidectomy, frontonasal approach
4175201	Sphenoidectomy
4177901	Total excision of tongue
4178200	Partial pharyngectomy
4178500	Partial pharyngectomy with partial glossectomy
4178501	Partial pharyngectomy with total glossectomy
4178701	Uvulectomy with partial palatectomy and tonsillectomy
4178900	Tonsillectomy without adenoidectomy
4181001	Uvulectomy
4185200	Laryngoscopy with removal of lesion
4185200	
	Microlaryngoscopy with removal of lesion by laser Microlaryngoscopy with removal of lesion
4186400	, , ,
4253605	Exenteration of orbit with therapeutic removal of orbital bone
4544804	Small split skin graft of neck
4545102	Full thickness skin graft of lip
4559600	Total resection of 1 maxilla
4559700	Total resection of both maxillae
4559900	Total resection of both sides of mandible
4560200	Subtotal resection of mandible
4560201	Subtotal resection of maxilla
4560500	Partial resection of mandible
4560501	Partial resection of maxilla
4566500	Full thickness wedge excision of lip
4572000	Osteotomy of mandible, unilateral
4572001	Osteotomy of maxilla, unilateral
4572002	Ostectomy of mandible, unilateral
4572003	Ostectomy of maxilla, unilateral
4572302	Ostectomy of mandible with internal fixation, unilateral
4582700	Excision of mylohyoid ridge of mandible
4582900	Excision of maxillary tuberosity
5020300	Marginal excision of lesion of bone
5023000	Resection of lesion of bone with anatomic specific allograft
5212000	Partial resection of mandible with anatomic specific anogram
9013100	Local excision of other intranasal lesion
9013400	Destruction of lesion of tongue
3313400	

Major resections & other related surgeries		
9013500	Excision of lesion of tongue	
9013800	Excision of lesion of salivary gland	
9014100	Local excision or destruction of lesion of bony palate	
9014101	Excision of other lesion of mouth	
9014102	Excision or destruction of lesion of palate	
9014301	Other procedures on palate	
9014400	Excision of lesion of tonsils or adenoids	
9014900	Excision of other lesion of pharynx	
9056802	Incision of soft tissue, not elsewhere classified	
9057400	Excision of lesion of joint, not elsewhere classified	
9066100	Other incision of skin and subcutaneous tissue	
9066500	Excisional debridement of skin and subcutaneous tissue	
9066501	Debridement of skin and subcutaneous tissue, not elsewhere classified	
9067800	Partial resection of other facial bone, not elsewhere classified	
9068000	Osteotomy of zygoma with internal fixation, unilateral	
9733100	Alveolectomy, per segment	

HEPATOBILIARY CANCER

Cancer group	Cancer Site	ICD-10-AM	Morphology	Other criteria	Person count
Hepatobiliary	Pancreatic, biliary tract & duo- denal	C170, C248-C249, C25	Invasive only		9,749
	Liver	C22	,		5,100

PANCREATIC, BILIARY TRACT CANCER SURGERY

Major resections	
Whipples	
3058400	Pancreaticoduodenectomy with formation of stoma

LIVER CANCER SURGERY

Major resections	
3042100	Trisegmental resection of liver
3041400	Excision of lesion of liver
3041500	Segmental resection of liver
3041800	Lobectomy of liver
9031700	Transplantation of liver
9625801	Laparoscopic procurement of liver for transplantation, living donor
9625802	Procurement of liver for transplantation, living donor
9625803	Procurement of liver for transplantation, cadaver

LUNG CANCER

Cancer group	Cancer Site	ICD-10-AM	Morphology	Other criteria	Person count
Lung	Non-small cell lung	C33-C34	Invasive only		28,574

NON-SMALL CELL LUNG CANCER SURGERY

Major resections		
Partial resection		
9016900	Endoscopic wedge resection of lung	
3844001	Radical wedge resection of lung	
3843800	Segmental wedge resection of lung	
3844000	Wedge resection of lung	
Lobectomy of lung		
3843801	Lobectomy of lung	
3844100	Radical lobectomy	
Pneumonectomy		
3843802	Pneumonectomy	
3844101	Radical pneumonectomy	

PROSTATE CANCER

Cancer group	Cancer Site	ICD-10-AM	Morphology	Other criteria	Person count
Prostate	Prostate	C61	All (invasive only)	Males only	63,795

PROSTATE CANCER SURGERY

Major resections	
3720003	Suprapubic prostatectomy
3720004	Retropubic prostatectomy
3720005	Other open prostatectomy
3720306	Other closed prostatectomy
3720900	Radical prostatectomy
3720901	Laparoscopic radical prostatectomy
3721000	Radical prostatectomy with bladder neck reconstruction
3721001	Laparoscopic radical prostatectomy with bladder neck reconstruction
3721100	Radical prostatectomy with bladder neck reconstruction and pelvic lymphadenopathy
3721101	Laparoscopic radical prostatectomy with bladder neck reconstruction and pelvic lymphadenectomy
3722403	Endoscopic resection of prostate

UPPER GI CANCER

Cancer group	Cancer Site	ICD-10-AM	Morphology	Other criteria	Person count
	Gastric	C16	Invasive only		6,486
Upper Gl	Oesophagus	C15			4,268

OESOPHAGOGASTRIC CANCER SURGERY

Gastrectomy	/
3051800	Partial distal gastrectomy with gastroduodenal anastomosis
3051801	Partial distal gastrectomy with gastrojejunal anastomosis
3051802	Partial proximal gastrectomy with oesophagogastric anastomosis
3052100	Total gastrectomy
3052300	Subtotal gastrectomy
3052400	Radical gastrectomy
Oesophagec	tomy
3053500	Oesophagectomy by abdominal and transthoracic mobilisation, with thoracic oesophagogastric anastomosis
3053600	Oesophagectomy by abdominal and transthoracic mobilisation, with cervical oesophagogastric anastomosis
3053601	Oesophagectomy by abdominal and transthoracic mobilisation, with cervical oesophagostomy
3054100	Trans-hiatal oesophagectomy by abdominal and cervical mobilisation, with oesophagogastric anastomosis
3054101	Trans-hiatal oesophagectomy by abdominal and cervical mobilisation, with oesophagojejunal anastomosis
3054500	Oesophagectomy by abdominal and thoracic mobilisation with thoracic anastomosis, large intestine interposition and anastomosis
3054501	Oesophagectomy by abdominal and thoracic mobilisation with thoracic anastomosis using Roux-en-Y reconstruction
3055000	Oesophagectomy by abdominal and thoracic mobilisation with cervical anastomosis, large intestine interposition and anastomosis
3055001	Oesophagectomy by abdominal and thoracic mobilisation with cervical anastomosis using Roux-en-Y reconstruction
3055400	Oesophagectomy with reconstruction by free jejunal flap
3055401	Oesophagectomy with reconstruction by other free flap

UROLOGICAL CANCER

Cancer group	Cancer Site	ICD-10-AM	Morphology	Other criteria	Person count
Urological	Bladder	C67	Invasive only		7,513
Urological	Testicular	C62			2,455

UROLOGICAL CANCER SURGERY (CANCERS OF BLADDER OR TESTICULAR)

Laparoscopic partial excision of bladder
Partial excision of bladder
Total excision of bladder
Orchidectomy, bilateral
Orchidectomy, unilateral

Identifying people with cancer

The number of new cases of cancers is generally higher than the number of people with cancer. This is because one person can have two or more cancers and may be counted under two or more different cancer groups. Only primary invasive cancers are included in The Index. A primary cancer is one that occurs for the first time in a site or tissue (called the primary site) and is therefore not an extension, a recurrence or a metastasis of a pre-existing tumour.

The following examples illustrate the rules for identifying and counting cancer cases for this report:

- If a person has cancers in two different sites, then that person counts as 2 cases. For example if a woman was diagnosed with cancers in both the breast and rectum then she counts as 2 cases of cancer and will be included in both the breast and rectal cancer groups.
- If a person was diagnosed on two or more occasions with cancers in the same site, then that person counts as only one cancer case and the date of diagnosis will be based on the earliest diagnosis.

Identification and categorisation of cancer surgeries

Potential cancer related procedures were identified from the Australian Classification of Health Interventions (ACHI) International Classification of Diseases (ICD-10-AM) 12th Edition, 2022. The identified procedures were reviewed by expert clinicians for completeness and accuracy and then categorised into cancer surgery groups. See page 7 for further details.

Linking cancer treatment to a person

Each cancer diagnosed in a calendar year was matched and linked to one or many surgery records. This produces a list of all the surgeries performed for each cancer diagnosis. The surgeries are then categorised according to clinically developed rules which are specific to each indicator. Therefore a single cancer incidence and subsequent surgeries may be counted in a number of ways. For example a person diagnosed with colon cancer in 2006, had a colectomy in 2006 and an anterior resection in 2007. The colectomy (first surgery) would be used when measuring time to first treatment and the anterior resection (last surgery) would be used to measure surgical mortality outcomes such 30 day surgical mortality.

Intravenous systemic therapy treatment is generated when a treatment record is matched to a person with cancer. The time period for an eligible match is where the treatment starts between 30 days prior to the diagnosis to 365 days after diagnosis.

Radiation therapy treatment is generated when a treatment record is matched to a person with cancer. The time period for an eligible match is where the treatment starts between 30 days prior to the diagnosis to 365 days after diagnosis.

Data sources explained

QUEENSLAND ONCOLOGY REPOSITORY

The Queensland Oncology Repository (QOR) is a database developed and maintained by the Cancer Alliance Queensland to support Queensland's cancer control, safety, and quality assurance initiatives. QOR consolidates cancer information for the state and contains data on cancer diagnoses and deaths, surgery, chemotherapy, and radiotherapy. QOR also includes data collected by clinicians at multidisciplinary team (MDT) meetings across the state. For more information, visit <u>https://cancerallianceqld.health.qld.gov.au</u>.

Cancer Data Explorer (CDE)

The <u>Cancer Data Explorer</u> is a dashboarding tool allowing users to access information on the number of new cases of cancer (incidence), deaths due to cancer (mortality) and cancer survival among Queenslanders with cancer. The data is sourced from the Queensland Cancer Register, a database containing information on Queenslanders diagnosed or dying from cancer since 1982. The tool is freely available to the general public, researchers, clinicians, policy makers and government bodies alike.

Oncology Analysis System (OASys)

Oncology Analysis System (OASys) is a web based state-wide cancer analysis system with diagnostic, treatment and outcome data on registry-notifiable invasive cancers diagnosed among Queensland residents of all ages (including children) from 1982 to 2021.

The data collection, linking and reporting of OASys data is performed under the auspices of Queensland Cancer Control Safety and Quality Partnership, The Partnership was gazetted as a quality assurance committee under Part 6, Division 1 of the Hospital and Health Boards Act 2011.

Statistical Analysis

To examine differences in proportions across subgroups such as public and private, Indigenous status and age group, Pearson's chi square was used. For analysis by remoteness and socioeconomic status a non-parametric test such as the Cochrane-Armitage test for trend was used which provides a test of the trend of the proportions of positive responses in the groups (such as people with cancer who received treatment within 30 days of diagnosis). All statistical analyses were conducted using Stata/MP 15.1 (Stata Corp LLC, College Station, TX, USA).

More on the Cancer Alliance Queensland website

For more details on our program of work, go to https://cancerallianceqld.health.qld.gov.au.

FOR MORE INFORMATION

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Although care has been taken to ensure the accuracy, completeness and reliability of the information provided these data are released for purposes of quality assurance and are to be used with appropriate caution. Be aware that data can be altered subsequent to original distribution and that the information is therefore subject to change without notice. Data can also quickly become out-of-date. It is recommended that careful attention be paid to the contents of any data and if required CAQ can be contacted with any questions regarding its use. If you find any errors or omissions, please report them to <u>CancerAllianceQld@health.qld.gov.au</u>