

Queensland Cancer Control Analysis Team

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Cancer Surgery in Queensland: Infocus - access and flows for public & private patients 2002-2011 Chapter 8: Oral Cavity Cancer

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Oral Cavity cancer clinical lead Ben Panizza

Cancer Surgery in Queensland: Infocus – access and flows for public & private patients 2002-2011. Chapter 9 Oral Cavity Cancer has been prepared by Michael Blake, Danica Cossio, Nathan Dunn, Tania Eden, Tracey Guan, Julie Moore, Shoni Philpot and Nancy Tran the Queensland Cancer Control Analysis Team.

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Introduction

In 2014 an estimated 270 new cases of invasive oral cavity cancer will be diagnosed among Queensland residents¹. With the ageing population, the number of new cases is expected to reach 330 by 2021¹.

Oral cavity cancer is a chapter in the *Cancer Surgery in Queensland: Infocus - access and flows for public & private patients 2002-2011* series and should be read in conjunction with the background document, available at https://qccat.health.gld.gov.au/

Surgery is a critical component of the curative treatment of oral cavity cancer. This chapter is focused on two dimensions of access to cancer care services – surgery rates and patient flows. It provides population wide information on rates of surgery provision and flows based on patient Hospital and Health Service (HHS) of residence. The chapter contains information on oral cavity cancer surgery in Queensland from 2002 - 2011 and reflections on the trends in the data observed over the most recent three year time period 2009 - 2011.

For the first time, a population profile for oral cavity cancer surgery in Queensland and the HHSs is described including the characteristics of oral cavity cancer patients who receive surgery. Importantly, it provides information on the number and demographic characteristics of oral cavity cancer patients who do not receive surgery and where they live according to HHS of residence.

The baseline information provided in this chapter will inform the planning and funding of cancer services, provide HHSs with locally meaningful information and contribute to our understanding of variation in oral cavity cancer surgery across Queensland. This information enables Queensland to compare themselves with other Australian states and territories, internationally and published literature.

This chapter is framed around five important questions relevant to cancer surgery in Queensland.

- 1. How many Queenslanders who are newly diagnosed with oral cavity cancer have a surgical procedure as a result of their diagnosis?
- 2. What are the characteristics of Queenslanders who have a surgical procedure as a result of their oral cavity cancer diagnosis and those that do not have a surgical procedure?
- 3. What types of surgery are performed for patients who are diagnosed with oral cavity cancer?
- 4. What number of surgeries is performed by HHSs for Queenslanders newly diagnosed with oral cavity cancer?
- 5. Where do patients receive their surgery?

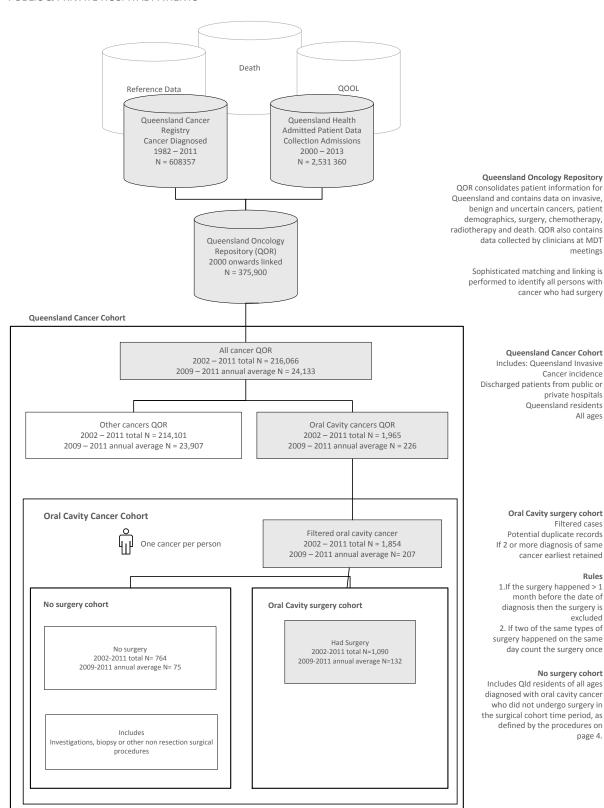
Data sources and methods

Key to QCCAT's program of work is our ability to link population based cancer information on an individual patient basis, using a master linkage key specifically developed by our team. This matched and linked data is housed in the Queensland Oncology Repository (QOR), a resource managed by QCCAT. This centralised repository, QOR, compiles and collates data from a range of source systems including Queensland Cancer Registry, hospital admissions data, death data, treatment systems, public and private pathology, hospital clinical data systems and QOOL. QOR contains approximately 32 million records between 1982 – 2013. Our matching and linking processes provide the 375 900 matched and linked records of cancer patients between 2000 – 2011, which are the starting point for this analysis. This chapter is structured around four cohorts of patients: Queensland Cancer Cohort; Oral Cavity Cancer Cohort; Oral Cavity Surgery Cohort and the No Surgery Cohort.

¹ Queensland Health. Oncology Analysis System (OASys). Queensland Cancer Control Analysis Team: Brisbane; 2014. https://qccat.health.qld.qov.au/OASys._ Accessed 01/08/2014

How the cohorts were identified

2002 – 2011 AND 2009 – 2011 ANNUAL AVERAGE PUBLIC & PRIVATE HOSPITAL PATIENTS



Time periods

Time period – 01 December 2001 to 31 December 2012

Diagnosis year - 01 January 2002 to 31 December 2011

Cancer definitions - the site and morphology of the cancers have been coded according to the International Classification of Diseases for Oncology, 3rd edition (ICD-O-3).

| Dorsal surface of tongue Border of tongue CO2.1 Ventral surface of tongue CO2.2 Anterior two-thirds of tongue, part unspecified CO2.3 Lingual tonsil CO2.4 Overalpping lesion of tongue Tongue, unspecified CO2.9 Malignant neoplasm of gum CO3.0 Lower gum CO3.1 Gum, unspecified CO4.0 All Anterior floor of mouth CO4.0 Lateral floor of mouth CO4.1 Overlapping lesion of floor of mouth CO4.1 Overlapping lesion of floor of mouth CO4.9 Malignant neoplasm of gum CO3.0 Lateral floor of mouth CO4.1 Overlapping lesion of floor of mouth CO4.2 Eloor of mouth, unspecified CO5.0 Soft palate CO5.0 Soft palate CO5.1 Uvula CO5.2 Overlapping lesion of palate CO5.8 Palate, unspecified CO5.9 | Site | ICD-0-3 | Morphology |
|--|---|---------|------------|
| Border of tongue Ventral surface of tongue Anterior two-thirds of tongue, part unspecified Lingual tonsil Overalpping lesion of tongue Tongue, unspecified CO2.9 Malignant neoplasm of gum CO3 All Upper gum CO3.1 Co4 Co4 Upper gum CO3.1 Co5.2 Malignant neoplasm of floor of mouth CO4.1 Co4.1 Co4.8 Floor of mouth, unspecified CO5.0 Malignant neoplasm of palate Soft palate CO5.2 Overlapping lesion of palate Palate, unspecified CO6.0 Vestibule of mouth CO6.1 Retromolar area Overlapping lesion of other and unspecified parts of mouth CO6.2 Overlapping lesion of other and unspecified parts of mouth CO6.2 Overlapping lesion of other and unspecified parts of mouth CO6.2 Overlapping lesion of other and unspecified parts of mouth CO6.2 Overlapping lesion of other and unspecified parts of mouth CO6.2 | Malignant neoplasm of other and unspecified parts of tongue | C02 | All |
| Ventral surface of tongue Anterior two-thirds of tongue, part unspecified C02.3 Lingual tonsil C02.4 Overalpping lesion of tongue Tongue, unspecified C02.9 Malignant neoplasm of gum C03.0 Lower gum C03.1 Gum, unspecified C04.4 All Anterior floor of mouth C04.1 Coverlapping lesion of floor of mouth C04.1 Coverlapping lesion of floor of mouth C04.8 Floor of mouth, unspecified C05.0 Malignant neoplasm of palate C05.0 Soft palate C05.1 Uvula C05.2 Coverlapping lesion of palate Palate, unspecified C05.9 Malignant neoplasm of other and unspecified parts of mouth C06.1 Retromolar area C06.2 Coverlapping lesion of other and unspecified parts of mouth C06.3 | Dorsal surface of tongue | C02.0 | |
| Anterior two-thirds of tongue, part unspecified C02.3 Lingual tonsil C02.4 Overalpping lesion of tongue C02.8 Tongue, unspecified C02.9 Malignant neoplasm of gum C03 All Upper gum C03.0 Lower gum C03.1 Gum, unspecified C04.9 Malignant neoplasm of floor of mouth C04.1 Anterior floor of mouth C04.1 Overlapping lesion of floor of mouth C04.8 Floor of mouth, unspecified C05.9 Malignant neoplasm of palate C05.0 Soft palate C05.1 Uvula C05.2 Overlapping lesion of palate C05.9 Malignant neoplasm of other and unspecified parts of mouth C06.1 Cheek mucosa C06.0 Vestibule of mouth C06.1 Retromolar area C06.2 Overlapping lesion of other and unspecified parts of mouth C06.8 | Border of tongue | C02.1 | |
| Lingual tonsil C02.4 Overalpping lesion of tongue C02.8 Tongue, unspecified C02.9 Malignant neoplasm of gum C03 All Upper gum C03.0 Lower gum C03.1 Gum, unspecified C03.9 Malignant neoplasm of floor of mouth C04 All Anterior floor of mouth C04.1 Overlapping lesion of floor of mouth C04.8 Floor of mouth, unspecified C04.9 Malignant neoplasm of palate C05.0 Soft palate C05.1 Uvula C05.2 Overlapping lesion of palate C05.9 Malignant neoplasm of other and unspecified parts of mouth C06.1 Retromolar area C06.2 Overlapping lesion of other and unspecified parts of mouth C06.8 | Ventral surface of tongue | C02.2 | |
| Overalpping lesion of tongue Tongue, unspecified Malignant neoplasm of gum Co3 All Upper gum Co3.0 Lower gum Co3.1 Gum, unspecified Co4 All Anterior floor of mouth Co4 All Anterior floor of mouth Co4.1 Overlapping lesion of floor of mouth Co4.8 Floor of mouth, unspecified Co5.0 Malignant neoplasm of palate Co5 All Hard palate Co5.1 Uvula Co5.2 Overlapping lesion of palate Palate, unspecified Co6.0 Vestibule of mouth Co6.1 Retromolar area Co7.2 Overlapping lesion of other and unspecified parts of mouth Co6.2 Overlapping lesion of other and unspecified parts of mouth Co6.2 Coverlapping lesion of other and unspecified parts of mouth Co6.2 Coverlapping lesion of other and unspecified parts of mouth Co6.2 Coverlapping lesion of other and unspecified parts of mouth Co6.2 Coverlapping lesion of other and unspecified parts of mouth Co6.2 Coverlapping lesion of other and unspecified parts of mouth Co6.2 Coverlapping lesion of other and unspecified parts of mouth Co6.3 | Anterior two-thirds of tongue, part unspecified | C02.3 | |
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| Lower gum Gum, unspecified C03.1 Malignant neoplasm of floor of mouth C04 All Anterior floor of mouth C04.0 Lateral floor of mouth C04.1 Overlapping lesion of floor of mouth Floor of mouth, unspecified C04.9 Malignant neoplasm of palate C05 Soft palate C05.1 Uvula C05.2 Overlapping lesion of palate C05.8 Palate, unspecified C05.9 Malignant neoplasm of other and unspecified parts of mouth C06 All Cheek mucosa Vestibule of mouth C06.1 Retromolar area C06.2 Overlapping lesion of other and unspecified parts of mouth C06.8 | Malignant neoplasm of gum | C03 | All |
| Gum, unspecified Malignant neoplasm of floor of mouth Anterior floor of mouth C04.0 Lateral floor of mouth C04.1 Overlapping lesion of floor of mouth C04.8 Floor of mouth, unspecified C05.0 Malignant neoplasm of palate C05.0 Soft palate C05.1 Uvula C05.2 Overlapping lesion of palate C05.8 Palate, unspecified C05.9 Malignant neoplasm of other and unspecified parts of mouth C06.1 Retromolar area C06.2 Overlapping lesion of other and unspecified parts of mouth C06.2 Overlapping lesion of other and unspecified parts of mouth C06.2 Overlapping lesion of other and unspecified parts of mouth C06.2 | Upper gum | C03.0 | |
| Malignant neoplasm of floor of mouth Anterior floor of mouth C04.0 Lateral floor of mouth C04.1 Overlapping lesion of floor of mouth Floor of mouth, unspecified C04.9 Malignant neoplasm of palate C05.0 Soft palate C05.1 Uvula C05.2 Overlapping lesion of palate C05.8 Palate, unspecified C05.9 Malignant neoplasm of other and unspecified parts of mouth C06.1 Retromolar area C06.2 Overlapping lesion of other and unspecified parts of mouth C06.2 Overlapping lesion of other and unspecified parts of mouth C06.2 Overlapping lesion of other and unspecified parts of mouth C06.2 | Lower gum | C03.1 | |
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| Lateral floor of mouth Overlapping lesion of floor of mouth Floor of mouth, unspecified Malignant neoplasm of palate Cos All Hard palate Cos | Malignant neoplasm of floor of mouth | C04 | All |
| Overlapping lesion of floor of mouth Floor of mouth, unspecified Malignant neoplasm of palate Hard palate Co5.0 Soft palate Co5.1 Uvula Co5.2 Overlapping lesion of palate Palate, unspecified Co5.9 Malignant neoplasm of other and unspecified parts of mouth Cheek mucosa Vestibule of mouth Retromolar area Co6.2 Overlapping lesion of other and unspecified parts of mouth Co6.1 Retromolar area Co6.2 Overlapping lesion of other and unspecified parts of mouth Co6.8 | Anterior floor of mouth | C04.0 | |
| Malignant neoplasm of palate C05 All Hard palate C05.0 Soft palate C05.1 Uvula C05.2 Overlapping lesion of palate C05.8 Palate, unspecified C05.9 Malignant neoplasm of other and unspecified parts of mouth Cheek mucosa Vestibule of mouth Retromolar area C06.2 Overlapping lesion of other and unspecified parts of mouth C06.1 Retromolar area C06.2 Overlapping lesion of other and unspecified parts of mouth C06.8 | Lateral floor of mouth | C04.1 | |
| Malignant neoplasm of palate C05.0 Soft palate C05.1 Uvula C05.2 Overlapping lesion of palate Palate, unspecified C05.9 Malignant neoplasm of other and unspecified parts of mouth Cheek mucosa Vestibule of mouth Retromolar area C06.2 Overlapping lesion of other and unspecified parts of mouth C06.1 Retromolar area C06.2 Overlapping lesion of other and unspecified parts of mouth C06.8 | Overlapping lesion of floor of mouth | C04.8 | |
| Hard palate C05.0 Soft palate C05.1 Uvula C05.2 Overlapping lesion of palate C05.8 Palate, unspecified C05.9 Malignant neoplasm of other and unspecified parts of mouth C06 All Cheek mucosa C06.0 Vestibule of mouth C06.1 Retromolar area C06.2 Overlapping lesion of other and unspecified parts of mouth C06.8 | Floor of mouth, unspecified | C04.9 | |
| Soft palate Uvula Co5.1 Uvula Co5.2 Overlapping lesion of palate Palate, unspecified Co5.9 Malignant neoplasm of other and unspecified parts of mouth Cheek mucosa Vestibule of mouth Retromolar area Co6.2 Overlapping lesion of other and unspecified parts of mouth Co6.1 Retromolar area Co6.2 Overlapping lesion of other and unspecified parts of mouth Co6.8 | Malignant neoplasm of palate | C05 | All |
| Uvula C05.2 Overlapping lesion of palate C05.8 Palate, unspecified C05.9 Malignant neoplasm of other and unspecified parts of mouth C06 All Cheek mucosa C06.0 Vestibule of mouth C06.1 Retromolar area C06.2 Overlapping lesion of other and unspecified parts of mouth C06.8 | Hard palate | C05.0 | |
| Overlapping lesion of palate Palate, unspecified C05.9 Malignant neoplasm of other and unspecified parts of mouth Cheek mucosa Vestibule of mouth Retromolar area C06.2 Overlapping lesion of other and unspecified parts of mouth C06.8 | Soft palate | C05.1 | |
| Palate, unspecified C05.9 Malignant neoplasm of other and unspecified parts of mouth C06 All Cheek mucosa C06.0 Vestibule of mouth C06.1 Retromolar area C06.2 Overlapping lesion of other and unspecified parts of mouth C06.8 | Uvula | C05.2 | |
| Malignant neoplasm of other and unspecified parts of mouth Cheek mucosa Vestibule of mouth Retromolar area Co6.2 Overlapping lesion of other and unspecified parts of mouth C06.8 | Overlapping lesion of palate | C05.8 | |
| Cheek mucosa C06.0 Vestibule of mouth C06.1 Retromolar area C06.2 Overlapping lesion of other and unspecified parts of mouth C06.8 | Palate, unspecified | C05.9 | |
| Vestibule of mouth C06.1 Retromolar area C06.2 Overlapping lesion of other and unspecified parts of mouth C06.8 | Malignant neoplasm of other and unspecified parts of mouth | C06 | All |
| Retromolar area C06.2 Overlapping lesion of other and unspecified parts of mouth C06.8 | Cheek mucosa | C06.0 | |
| Overlapping lesion of other and unspecified parts of mouth C06.8 | Vestibule of mouth | C06.1 | |
| | Retromolar area | C06.2 | |
| Mouth, unspecified C06.9 | Overlapping lesion of other and unspecified parts of mouth | C06.8 | |
| | Mouth, unspecified | C06.9 | |

Exclusions

The following exclusions apply:

- Non Queensland residents
- People not admitted to a hospital in Queensland for invasive oral cavity cancer
- Patients with primary lip cancer

Identification and categorisation of cancer related procedures

A oral cavity surgery performed up to one month prior to or within twelve months following a cancer diagnosis was included. The following process was used to assign a oral cavity surgery to patients with cancer

- Potential cancer related procedures were identified for oral cavity from the Australian Classification of Health Interventions (ACHI) International Classification of Diseases (ICD-10-AM) 7th Edition, 2010
- Identified procedures were reviewed by an expert clinician for completeness and accuracy

The following tables outlines the number of oral cavity procedures performed on Queensland residents (both public and private hospitals). The 'All cancers' row indicates the total number of each procedure performed by a HHS for any cancer. The 'Oral Cavity cancer' column represents the number of procedures undertaken for patients diagnosed with oral cavity cancer which is the cohort for this report.

Total number of surgeries performed by HHS performing procedure

YEAR OF DIAGNOSIS 2002 – 2011
PUBLIC & PRIVATE HOSPITAL PATIENTS

| | HHS performing surgery | Queensland | Cairns and Hinterland | Central Queensland | Central West | Children's Health Queensland | Darling Downs | Gold Coast | Mackay | Metro North | Metro South | North West | South West | Sunshine Coast | Townsville | West Moreton | Wide Bay |
|--------------------------------------|---------------------------|------------|--------------------------|-----------------------|-----------------|------------------------------------|------------------|---------------|--------|----------------|----------------|---------------|---------------|-------------------|------------|-----------------|-------------|
| | All Cancers | 587 | 12 | 16 | | | 38 | 51 | 5 | 257 | 125 | | | 18 | 39 | 18 | 8 |
| Partial excision of tongue | Oral Cavity Cancer | 450 | 7 | 8 | | | 25 | 37 | 1 | 212 | 100 | | | 14 | 27 | 12 | 7 |
| | All Cancers | 640 | 38 | 20 | 1 | 1 | 38 | 56 | 15 | 256 | 121 | 4 | | 20 | 37 | 16 | 17 |
| Excision of lesion of tongue | Oral Cavity Cancer | 390 | 29 | 12 | | | 19 | 28 | 5 | 177 | 73 | 1 | | 11 | 20 | 12 | 3 |
| | All Cancers | 17 | | | | | 2 | 1 | | 6 | 7 | | | | | 1 | į . |
| Total excision of tongue | Oral Cavity Cancer | 12 | | | | | 1 | 1 | | 6 | 4 | | | | | | |
| D II I | All Cancers | 483 | 1 | | | | 38 | 34 | 1 | 190 | 161 | İ | | | 35 | 23 | |
| Radical excision of intraoral lesion | Oral Cavity Cancer | 374 | 1 | | | | 27 | 28 | 1 | 161 | 117 | | | | 28 | 11 | |
| Eurisian of ather lasten of manuals | All Cancers | 573 | 27 | 12 | | | 45 | 47 | 9 | 249 | 117 | 1 | 1 | 13 | 24 | 18 | 10 |
| Excision of other lesion of mouth | Oral Cavity Cancer | 343 | 9 | 5 | | | 35 | 25 | 3 | 162 | 73 | 1 | | 3 | 10 | 13 | 4 |
| Local excision or destruction of | All Cancers | 115 | 4 | 5 | | 1 | 4 | 12 | 3 | 41 | 33 | | | 3 | 2 | 5 | 2 |
| lesion of bony palate | Oral Cavity Cancer | 54 | 2 | 1 | | | 4 | 5 | 1 | 24 | 15 | | | 1 | 1 | | |
| Ulanka | All Cancers | 35 | 4 | 2 | | | 2 | 2 | | 13 | 4 | | | 3 | 3 | 2 | |
| Uvulectomy | Oral Cavity Cancer | 15 | 2 | | | | 1 | | | 7 | | | | 2 | 1 | 2 | |
| Uvulectomy with partial | All Cancers | 17 | 1 | | | | 1 | 3 | 3 | 4 | 3 | | | | 1 | 1 | |
| palatectomy | Oral Cavity Cancer | 4 | 1 | | | | | | | 2 | 1 | | | | | | |
| Uvulectomy with partial | All Cancers | 9 | | 1 | | | | 1 | | 2 | 2 | | | | 2 | 1 | |
| palatectomy and tonsillectomy | Oral Cavity Cancer | 3 | | | | | | 1 | | 1 | 1 | | | | | | |
| Excision of submandibular gland | All Cancers | 454 | 11 | 12 | | 2 | 26 | 41 | 13 | 148 | 99 | 1 | 1 | 27 | 47 | 15 | 11 |
| excision of submanulbular gianu | Oral Cavity Cancer | 87 | 2 | 1 | | | 3 | 10 | 2 | 47 | 12 | | | | 9 | 0 | 1 |
| Removal of submandibular gland | All Cancers | 29 | 0 | 1 | | | 2 | 1 | 1 | 16 | 4 | | | | 3 | 1 | |
| Keliloval of Submanulbular gland | Oral Cavity Cancer | 15 | 0 | 1 | | | 1 | | 1 | 10 | 1 | | | | | 1 | |
| Partial excision of parotid gland | All Cancers | 1166 | 24 | 21 | | | 102 | 120 | 9 | 341 | 335 | 1 | | 86 | 77 | 32 | 18 |
| Partial excision of parotic giant | Oral Cavity Cancer | 27 | | | | | 1 | 1 | | 18 | 5 | | | | 1 | 1 | |
| Total excision of parotid | All Cancers | 232 | 4 | 4 | | | 21 | 29 | | 57 | 73 | | | 6 | 12 | 20 | 6 |
| Total excision of parotic | Oral Cavity Cancer | 5 | | | | | | | | 2 | | | | 1 | 1 | 1 | |
| Total excision of parotid gland with | All Cancers | 314 | | | | | | | | | | | | | | | |
| preservation of facial nerve | Oral Cavity Cancer | 3 | | | | | | 1 | | 1 | 1 | | | | | | |
| Excision of lesion of salivary gland | All Cancers | 27 | 2 | 1 | | | 1 | 2 | | 7 | 9 | | | 1 | 3 | | 1 |
| Excision of lesion of Salivary gland | Oral Cavity Cancer | 2 | | | | | | | | | 2 | | | | | | |
| Excision of sublingual gland | All Cancers | 31 | | 1 | | | | 2 | | 20 | 4 | | | 1 | 2 | 1 | |
| Excision of sublingual giand | Oral Cavity Cancer | 18 | | | | | | | | 13 | 3 | | | | 1 | 1 | |

The following tables outlines the relevant oral cavity procedures included in this report for Queensland residents (both public & private) diagnosed with invasive oral cavity cancer:

| ICD-10-AM | PROCEDURE/GROUPING |
|-----------|--------------------|
| | |

| EXCISION 30272-00 Partial excision of tongue 90135-00 Excision of lesion of tongue 41779-01 Total excision of tongue 30275-00 Radical excision of intraoral lesion 90141-01 Excision of other lesion of mouth 90141-01 Local excision or destruction of lesion of bony palate 41810-01 Uvulectomy 41787-00 Uvulectomy with partial palatectomy 41787-01 Uvulectomy with partial palatectomy 41787-01 Uvulectomy with partial palatectomy 41787-01 Uvulectomy with partial palatectomy 40255-00 Removal of submandibular gland 30255-00 Removal of submandibular ducts 30253-00 Partial excision of parotid gland 30250-00 Total excision of parotid gland 30250-00 Total excision of parotid gland 30250-00 Excision of lesion of salivary gland 30250-00 Excision of lesion of salivary gland 30259-00 Excision of sublingual gland 40259-00 Excision of lesion of symph nodes of neck 31423-01 Regional excision of lymph nodes of neck 31423-01 Regional excision of lymph nodes of neck 31423-00 Excision of lymph node of neck 45562-00 Noninnervated free flap 45562-00 Noninnervated free flap 45562-00 Noninnervated free flap 45567-00 Other repair of mouth 4567-00 Other repair of mouth | | |
|--|----------|---|
| 90135-00 Excision of lesion of tongue 41779-01 Total excision of tongue 30275-00 Radical excision of intraoral lesion 90141-01 Excision of other lesion of mouth 90141-00 Local excision or destruction of lesion of bony palate 41810-01 Uvulectomy 41787-00 Uvulectomy with partial palatectomy 41787-01 Uvulectomy with partial palatectomy 41787-01 Uvulectomy with partial palatectomy 41787-01 Uvulectomy with partial palatectomy 30256-00 Excision of submandibular gland 30255-00 Removal of submandibular ducts 30253-00 Partial excision of parotid gland 30247-00 Total excision of parotid gland 30250-00 Excision of lesion of salivary gland 30250-00 Excision of lesion of salivary gland 30259-00 Excision of lesion of salivary gland 30259-00 Excision of lesion of salivary gland 30259-00 Excision of lymph nodes of neck 14433-01 Regional excision of lymph nodes of neck 31423-01 Regional excision of lymph nodes of neck 31423-00 Excision of lymph node of neck RECONSTRUCTION/REPAIR 45562-01 Innervated free flap 45562-00 Noninnervated free flap 45562-00 Reconstruction of mouth using direct tongue flap, single or first stage 45676-00 Other repair of mouth 400136-00 Other repair of mouth 400136-00 Other repair of palate 45837-00 Submucosal vestibuloplasty 45837-01 Open vestibuloplasty 52327-00 Reconstruction of mouth using direct tongue flap, second stage TRACHEOSTOMY 41881-00 Open tracheostomy, temporary 41880-00 Percutaneous | | EXCISION |
| 41779-01 Total excision of tongue 30275-00 Radical excision of intraoral lesion 90141-01 Excision of other lesion of mouth 90141-00 Local excision or destruction of lesion of bony palate 41810-01 Uvulectomy 41787-00 Uvulectomy with partial palatectomy 41787-01 Uvulectomy with partial palatectomy 41787-01 Uvulectomy with partial palactomy and tonsillectomy 30256-00 Excision of submandibular gland 30255-00 Removal of submandibular ducts 30253-00 Partial excision of parotid gland 30247-00 Total excision of parotid gland 30250-00 Total excision of parotid gland with preservation of facial nerve 90138-00 Excision of lesion of salivary gland 30259-00 Excision of sublingual gland LYMPH NODE DISSECTION 31435-00 Radical excision of lymph nodes of neck 31423-01 Regional excision of lymph nodes of neck 81423-00 Excision of lymph node of neck 45562-01 Innervated free flap 45562-00 Noninnervated free flap 45562-00 Reconstruction of mouth using direct tongue flap, single or first stage 45676-00 Other repair of mouth 90136-00 Other repair of tongue 90142-01 Other repair of palate 45837-00 Submucosal vestibuloplasty 45837-01 Open vestibuloplasty 52327-00 Reconstruction of mouth using direct tongue flap, second stage TRACHEOSTOMY 41881-00 Open tracheostomy, temporary 41880-00 Percutaneous | 30272-00 | Partial excision of tongue |
| 30275-00 Radical excision of intraoral lesion 90141-01 Excision of other lesion of mouth 90141-00 Local excision or destruction of lesion of bony palate 41810-01 Uvulectomy 41787-00 Uvulectomy with partial palatectomy 41787-01 Uvulectomy with partial palatectomy and tonsillectomy 30256-00 Excision of submandibular gland 30255-00 Removal of submandibular ducts 30253-00 Partial excision of parotid gland 30247-00 Total excision of parotid gland 30250-00 Total excision of parotid gland 30250-00 Excision of parotid gland with preservation of facial nerve 90138-00 Excision of lesion of salivary gland 30259-00 Excision of lesion of sublingual gland LYMPH NODE DISSECTION 31435-00 Radical excision of lymph nodes of neck 31423-01 Regional excision of lymph nodes of neck 31423-00 Excision of lymph node of neck RECONSTRUCTION/REPAIR 45562-01 Innervated free flap 45562-00 Noninnervated free flap 45562-00 Reconstruction of mouth using direct tongue flap, single or first stage 45567-00 Other repair of mouth 30052-04 Closure of fistula of mouth 90136-00 Other repair of tongue 90142-01 Other repair of palate 45837-00 Submucosal vestibuloplasty 45837-01 Open vestibuloplasty 52327-00 Reconstruction of mouth using direct tongue flap, second stage TRACHEOSTOMY 41881-00 Open tracheostomy, temporary 41881-00 Open tracheostomy, temporary | 90135-00 | Excision of lesion of tongue |
| 90141-01 Excision of other lesion of mouth 90141-00 Local excision or destruction of lesion of bony palate 41810-01 Uvulectomy 41787-00 Uvulectomy with partial palatectomy 41787-01 Uvulectomy with partial palactomy and tonsillectomy 30256-00 Excision of submandibular gland 30255-00 Removal of submandibular ducts 30253-00 Partial excision of parotid gland 30247-00 Total excision of parotid gland 30250-00 Excision of parotid gland with preservation of facial nerve 90138-00 Excision of lesion of salivary gland 30259-00 Excision of sublingual gland LYMPH NODE DISSECTION 31435-00 Radical excision of lymph nodes of neck 31423-01 Regional excision of lymph nodes of neck 31423-01 Regional excision of lymph node of neck RECONSTRUCTION/REPAIR 45562-01 Innervated free flap 45562-00 Noninnervated free flap 45562-00 Reconstruction of mouth using direct tongue flap, single or first stage 45676-00 Other repair of mouth 30052-04 Closure of fistula of mouth 90136-00 Other repair of palate 45837-00 Submucosal vestibuloplasty 45837-01 Open vestibuloplasty 52327-00 Reconstruction of mouth using direct tongue flap, second stage TRACHEOSTOMY 41881-00 Open tracheostomy, temporary 41881-00 Open tracheostomy, temporary 41880-00 Percutaneous | 41779-01 | Total excision of tongue |
| 90141-01 Excision of other lesion of mouth 90141-00 Local excision or destruction of lesion of bony palate 41810-01 Uvulectomy 41787-00 Uvulectomy with partial palatectomy 41787-01 Uvulectomy with partial palactomy and tonsillectomy 30256-00 Excision of submandibular gland 30255-00 Removal of submandibular ducts 30253-00 Partial excision of parotid gland 30247-00 Total excision of parotid gland 30250-00 Excision of parotid gland with preservation of facial nerve 90138-00 Excision of lesion of salivary gland 30259-00 Excision of sublingual gland LYMPH NODE DISSECTION 31435-00 Radical excision of lymph nodes of neck 31423-01 Regional excision of lymph nodes of neck 31423-01 Regional excision of lymph node of neck RECONSTRUCTION/REPAIR 45562-01 Innervated free flap 45562-00 Noninnervated free flap 45562-00 Reconstruction of mouth using direct tongue flap, single or first stage 45676-00 Other repair of mouth 30052-04 Closure of fistula of mouth 90136-00 Other repair of palate 45837-00 Submucosal vestibuloplasty 45837-01 Open vestibuloplasty 52327-00 Reconstruction of mouth using direct tongue flap, second stage TRACHEOSTOMY 41881-00 Open tracheostomy, temporary 41881-00 Open tracheostomy, temporary 41880-00 Percutaneous | | • |
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| 41787-00 Uvulectomy with partial palatectomy 41787-01 Uvulectomy with partial palactomy and tonsillectomy 30256-00 Excision of submandibular gland 30255-00 Removal of submandibular ducts 30253-00 Partial excision of parotid gland 30247-00 Total excision of parotid gland 30250-00 Total excision of parotid gland with preservation of facial nerve 90138-00 Excision of lesion of salivary gland 30259-00 Excision of sublingual gland LYMPH NODE DISSECTION 31435-00 Radical excision of lymph nodes of neck 31423-01 Regional excision of lymph nodes of neck 31423-00 Excision of lymph node of neck RECONSTRUCTION/REPAIR 45562-01 Innervated free flap 45562-00 Noninnervated free flap 45562-00 Other repair of mouth 30052-04 Closure of fistula of mouth 90136-00 Other repair of tongue 90142-01 Other repair of tongue 90142-01 Other repair of palate 45837-00 Submucosal vestibuloplasty 45837-01 Reconstruction of mouth using direct tongue flap, second stage TRACHEOSTOMY 41881-00 Open tracheostomy, temporary 41880-00 Percutaneous | 41910 01 | Lhudoctomy |
| 41787-01 Uvulectomy with partial palactomy and tonsillectomy 30256-00 Excision of submandibular gland 30255-00 Removal of submandibular ducts 30253-00 Partial excision of parotid gland 30247-00 Total excision of parotid gland 30250-00 Total excision of parotid gland with preservation of facial nerve 90138-00 Excision of lesion of salivary gland 30259-00 Excision of sublingual gland LYMPH NODE DISSECTION 31435-00 Radical excision of lymph nodes of neck 31423-01 Regional excision of lymph nodes of neck 31423-00 Excision of lymph node of neck RECONSTRUCTION/REPAIR 45562-01 Innervated free flap 45562-00 Noninnervated free flap 52324-00 Reconstruction of mouth using direct tongue flap, single or first stage 45676-00 Other repair of mouth 90136-00 Other repair of tongue 90142-01 Other repair of tongue 90142-01 Other repair of palate 45837-00 Submucosal vestibuloplasty 45837-01 Open vestibuloplasty 52327-00 Reconstruction of mouth using direct tongue flap, second stage TRACHEOSTOMY 41881-00 Open tracheostomy, temporary 41880-00 Percutaneous | | · |
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| 30247-00 Total excision of parotid gland 30250-00 Total excision of parotid gland with preservation of facial nerve 90138-00 Excision of lesion of salivary gland 30259-00 Excision of sublingual gland LYMPH NODE DISSECTION 31435-00 Radical excision of lymph nodes of neck 31423-01 Regional excision of lymph nodes of neck 31423-00 Excision of lymph node of neck RECONSTRUCTION/REPAIR 45562-01 Innervated free flap 45562-00 Noninnervated free flap 52324-00 Reconstruction of mouth using direct tongue flap, single or first stage 45676-00 Other repair of mouth 90136-00 Other repair of tongue 90142-01 Other repair of palate 45837-00 Submucosal vestibuloplasty 45837-01 Open vestibuloplasty 52327-00 Reconstruction of mouth using direct tongue flap, second stage TRACHEOSTOMY 41881-00 Open tracheostomy, temporary 41880-00 Percutaneous | 30255-00 | |
| 30247-00 Total excision of parotid gland 30250-00 Total excision of parotid gland with preservation of facial nerve 90138-00 Excision of lesion of salivary gland 30259-00 Excision of sublingual gland LYMPH NODE DISSECTION 31435-00 Radical excision of lymph nodes of neck 31423-01 Regional excision of lymph nodes of neck 31423-00 Excision of lymph node of neck RECONSTRUCTION/REPAIR 45562-01 Innervated free flap 45562-00 Noninnervated free flap 52324-00 Reconstruction of mouth using direct tongue flap, single or first stage 45676-00 Other repair of mouth 90136-00 Other repair of tongue 90142-01 Other repair of palate 45837-00 Submucosal vestibuloplasty 45837-01 Open vestibuloplasty 52327-00 Reconstruction of mouth using direct tongue flap, second stage TRACHEOSTOMY 41881-00 Open tracheostomy, temporary 41880-00 Percutaneous | | |
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| 90138-00 Excision of lesion of salivary gland 30259-00 Excision of sublingual gland LYMPH NODE DISSECTION 31435-00 Radical excision of lymph nodes of neck 31423-01 Regional excision of lymph nodes of neck 31423-00 Excision of lymph node of neck RECONSTRUCTION/REPAIR 45562-01 Innervated free flap 45562-00 Noninnervated free flap 52324-00 Reconstruction of mouth using direct tongue flap, single or first stage 45676-00 Other repair of mouth 30052-04 Closure of fistula of mouth 90136-00 Other repair of tongue 90142-01 Other repair of palate 45837-00 Submucosal vestibuloplasty 45837-01 Open vestibuloplasty 52327-00 Reconstruction of mouth using direct tongue flap, second stage TRACHEOSTOMY 41881-00 Open tracheostomy, temporary 41880-00 Percutaneous | 30247-00 | Total excision of parotid gland |
| LYMPH NODE DISSECTION 31435-00 Radical excision of lymph nodes of neck 31423-01 Regional excision of lymph nodes of neck 31423-00 Excision of lymph node of neck RECONSTRUCTION/REPAIR 45562-01 Innervated free flap 45562-00 Noninnervated free flap 52324-00 Reconstruction of mouth using direct tongue flap, single or first stage 45676-00 Other repair of mouth 30052-04 Closure of fistula of mouth 90136-00 Other repair of tongue 90142-01 Other repair of palate 45837-00 Submucosal vestibuloplasty 45837-01 Open vestibuloplasty 52327-00 Reconstruction of mouth using direct tongue flap, second stage TRACHEOSTOMY 41881-00 Open tracheostomy, temporary 41880-00 Percutaneous | 30250-00 | Total excision of parotid gland with preservation of facial nerve |
| LYMPH NODE DISSECTION 31435-00 Radical excision of lymph nodes of neck 31423-01 Regional excision of lymph nodes of neck 31423-00 Excision of lymph node of neck RECONSTRUCTION/REPAIR 45562-01 Innervated free flap 45562-00 Noninnervated free flap 52324-00 Reconstruction of mouth using direct tongue flap, single or first stage 45676-00 Other repair of mouth 30052-04 Closure of fistula of mouth 90136-00 Other repair of tongue 90142-01 Other repair of palate 45837-00 Submucosal vestibuloplasty 45837-01 Open vestibuloplasty 52327-00 Reconstruction of mouth using direct tongue flap, second stage TRACHEOSTOMY 41881-00 Open tracheostomy, temporary 41880-00 Percutaneous | | |
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| 31435-00 Radical excision of lymph nodes of neck 31423-01 Regional excision of lymph nodes of neck 31423-00 Excision of lymph node of neck RECONSTRUCTION/REPAIR 45562-01 Innervated free flap 45562-00 Noninnervated free flap 52324-00 Reconstruction of mouth using direct tongue flap, single or first stage 45676-00 Other repair of mouth 30052-04 Closure of fistula of mouth 90136-00 Other repair of tongue 90142-01 Other repair of palate 45837-00 Submucosal vestibuloplasty 45837-01 Open vestibuloplasty 52327-00 Reconstruction of mouth using direct tongue flap, second stage TRACHEOSTOMY 41881-00 Open tracheostomy, temporary 41880-00 Percutaneous | 30259-00 | Excision of sublingual gland |
| 31435-00 Radical excision of lymph nodes of neck 31423-01 Regional excision of lymph nodes of neck 31423-00 Excision of lymph node of neck RECONSTRUCTION/REPAIR 45562-01 Innervated free flap 45562-00 Noninnervated free flap 52324-00 Reconstruction of mouth using direct tongue flap, single or first stage 45676-00 Other repair of mouth 30052-04 Closure of fistula of mouth 90136-00 Other repair of tongue 90142-01 Other repair of palate 45837-00 Submucosal vestibuloplasty 45837-01 Open vestibuloplasty 52327-00 Reconstruction of mouth using direct tongue flap, second stage TRACHEOSTOMY 41881-00 Open tracheostomy, temporary 41880-00 Percutaneous | | |
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| RECONSTRUCTION/REPAIR 45562-01 Innervated free flap 45562-00 Noninnervated free flap 52324-00 Reconstruction of mouth using direct tongue flap, single or first stage 45676-00 Other repair of mouth 30052-04 Closure of fistula of mouth 90136-00 Other repair of tongue 90142-01 Other repair of palate 45837-00 Submucosal vestibuloplasty 45837-01 Open vestibuloplasty 52327-00 Reconstruction of mouth using direct tongue flap, second stage TRACHEOSTOMY 41881-00 Open tracheostomy, temporary 41880-00 Percutaneous | | |
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| 45562-01 Innervated free flap 45562-00 Noninnervated free flap 52324-00 Reconstruction of mouth using direct tongue flap, single or first stage 45676-00 Other repair of mouth 30052-04 Closure of fistula of mouth 90136-00 Other repair of tongue 90142-01 Other repair of palate 45837-00 Submucosal vestibuloplasty 45837-01 Open vestibuloplasty 52327-00 Reconstruction of mouth using direct tongue flap, second stage TRACHEOSTOMY 41881-00 Open tracheostomy, temporary 41880-00 Percutaneous | | DECONCEDUCATION /DEDAID |
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| 45676-00 Other repair of mouth 30052-04 Closure of fistula of mouth 90136-00 Other repair of tongue 90142-01 Other repair of palate 45837-00 Submucosal vestibuloplasty 45837-01 Open vestibuloplasty 52327-00 Reconstruction of mouth using direct tongue flap, second stage TRACHEOSTOMY 41881-00 Open tracheostomy, temporary 41880-00 Percutaneous | | · |
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| 90136-00 Other repair of tongue 90142-01 Other repair of palate 45837-00 Submucosal vestibuloplasty 45837-01 Open vestibuloplasty 52327-00 Reconstruction of mouth using direct tongue flap, second stage TRACHEOSTOMY 41881-00 Open tracheostomy, temporary 41880-00 Percutaneous | | |
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| 52327-00 Reconstruction of mouth using direct tongue flap, second stage TRACHEOSTOMY 41881-00 Open tracheostomy, temporary 41880-00 Percutaneous | | |
| TRACHEOSTOMY 41881-00 Open tracheostomy, temporary 41880-00 Percutaneous | | |
| 41881-00 Open tracheostomy, temporary 41880-00 Percutaneous | 32327 00 | neconstruction of mount using an ect tongue hap, second stage |
| 41880-00 Percutaneous | | TRACHEOSTOMY |
| | 41881-00 | Open tracheostomy, temporary |
| 41881-01 Open tracheostomy, permanent | 41880-00 | Percutaneous |
| | 41881-01 | Open tracheostomy, permanent |

Surgery rate for oral cavity cancer

ANNUAL AVERAGE YEAR OF DIAGNOSIS 2009 – 2011 PUBLIC & PRIVATE HOSPITAL PATIENTS

EVER HAD MUTUALLY EXCLUSIVE

| | Annual A | verage | Had E | xcision | No | No Excision | | | | |
|----------------------|---------------|---------|-------|---------|----|-------------|--|--|--|--|
| | Oral cavity | (Qld %) | n | (row %) | n | (row %) | | | | |
| Characteristic | cancer cohort | | | | | | | | | |
| Queensland | 207 | (100%) | 132 | (64%) | 75 | (36%) | | | | |
| | | | | | | | | | | |
| Gender | | | | | | | | | | |
| Male | 131 | (64%) | 82 | (62%) | 50 | (38%) | | | | |
| Female | 75 | (36%) | 50 | (67%) | 26 | (34%) | | | | |
| Age Group | | | | | | | | | | |
| < 55 | 57 | (28%) | 43 | (74%) | 16 | (28%) | | | | |
| 55-64 | 61 | (29%) | 40 | (66%) | 20 | (34%) | | | | |
| 65-74 | 47 | (23%) | 28 | (60%) | 19 | (40%) | | | | |
| 75-84 | 28 | (14%) | 16 | (55%) | 13 | (47%) | | | | |
| 85+ | 14 | (7%) | 6 | (41%) | 9 | (63%) | | | | |
| Indigenous Status | | | | | | | | | | |
| Indigenous | 6 | (3%) | 3 | (59%) | 2 | (41%) | | | | |
| Non-Indigenous | 184 | (89%) | 120 | (65%) | 64 | (35%) | | | | |
| Not Stated/Unknown | 17 | (8%) | 9 | (53%) | 9 | (51%) | | | | |
| Socioeconomic Status | | | | | | | | | | |
| Affluent | 30 | (14%) | 20 | (69%) | 10 | (33%) | | | | |
| Middle | 139 | (67%) | 88 | (63%) | 51 | (37%) | | | | |
| Disadvantaged | 37 | (18%) | 24 | (63%) | 14 | (37%) | | | | |
| Unknown | 1 | (0%) | | | 1 | (100%) | | | | |
| Remoteness | | | | | | | | | | |
| Major City | 126 | (61%) | 82 | (65%) | 44 | (35%) | | | | |
| Inner Regional | 48 | (23%) | 30 | (61%) | 19 | (39%) | | | | |
| Outer Regional | 29 | (14%) | 19 | (64%) | 10 | (36%) | | | | |
| Remote & Very Remote | 2 | (1%) | 1 | (57%) | 2 | (86%) | | | | |
| Qld Unknown | 1 | (0%) | | , , , | 1 | (100%) | | | | |
| Diagnosis Basis | | | | | | | | | | |
| Histology | 201 | (97%) | 132 | (66%) | 69 | (34%) | | | | |
| Cytology | 1 | (0%) | | () | 1 | (100%) | | | | |
| Clinical | 4 | (2%) | | | 4 | (100%) | | | | |
| Other | 1 | (0%) | | | 1 | (100%) | | | | |
| Comorbidity | | | | | | | | | | |
| 0 | 171 | (83%) | 113 | (66%) | 57 | (34%) | | | | |
| 1 | 25 | (12%) | 13 | (51%) | 13 | (51%) | | | | |
| 2+ | 11 | (5%) | 6 | (53%) | 6 | (53%) | | | | |

In the interest of completeness, annual average numbers have been included with fewer than 16 cases. Numbers < 16 should be interpreted with caution due to poor reliability of calculations based on small numbers. Annual average numbers have been rounded up to the nearest whole number for those with less than one, therefore the totals may not add up.

Surgery rate for oral cavity cancer by patient residence

ANNUAL AVERAGE YEAR OF DIAGNOSIS 2009 – 2011 PUBLIC & PRIVATE HOSPITAL PATIENTS



| | Annual Av | verage | Had | Excision | No Excision | | | |
|-----------------------------|---------------------------|---------|-----|----------|-------------|---------|--|--|
| | Oral cavity cancer cohort | (Qld %) | n | (row %) | n | (row %) | | |
| Queensland | 207 | (100%) | 132 | (64%) | 75 | (36%) | | |
| HHS (patient residence) | | | | | | | | |
| Metro North | 44 | (21%) | 30 | (67%) | 15 | (33%) | | |
| Metro South | 40 | (19%) | 27 | (68%) | 13 | (34%) | | |
| Gold Coast | 23 | (11%) | 14 | (61%) | 10 | (42%) | | |
| Sunshine Coast | 19 | (9%) | 11 | (61%) | 8 | (43%) | | |
| Wide Bay | 14 | (7%) | 8 | (55%) | 7 | (48%) | | |
| Darling Downs | 13 | (6%) | 8 | (66%) | 5 | (39%) | | |
| Cairns and Hinterland | 12 | (6%) | 9 | (70%) | 4 | (30%) | | |
| Townsville | 12 | (6%) | 7 | (63%) | 4 | (37%) | | |
| Central Queensland | 10 | (5%) | 6 | (55%) | 5 | (52%) | | |
| West Moreton | 9 | (4%) | 5 | (62%) | 4 | (46%) | | |
| Mackay | 7 | (4%) | 5 | (68%) | 2 | (32%) | | |
| South West | 1 | (1%) | 1 | (75%) | 1 | (75%) | | |
| North West | 1 | (0%) | 1 | (100%) | 2 | (200%) | | |
| Central West | 1 | (0%) | 1 | (100%) | | | | |
| Torres Strait and Cape York | 1 | (0%) | 1 | (100%) | | | | |
| Qld Unknown | 1 | (0%) | | | 1 | (100%) | | |

Type of definitive surgery for oral cavity cancer

ANNUAL AVERAGE YEAR OF DIAGNOSIS 2009 – 2011 PUBLIC & PRIVATE HOSPITAL PATIENTS



| | Annual Average | | Had E | xcision | node dis | with lymph section and action/repair | | ion with uction/repair | | with lymph dissection | Excision only | |
|--------------------------|---------------------------|---------|-------|---------|----------|--|----|---------------------------|----|--------------------------|---------------|---------|
| Characteristic | Oral cavity cancer cohort | (Qld %) | n | (col %) | n | (row %) | n | (row %) | n | (row %) | n | (row %) |
| Queensland | 207 | (100%) | 132 | (64%) | 13 | (10%) | 25 | (19%) | 28 | (21%) | 66 | (50%) |
| | | | | | | | | | | | | |
| Gender | | | | | | | | | | | | |
| Male | 131 | (64%) | 82 | (62%) | 9 | (11%) | 16 | (20%) | 17 | (21%) | 40 | (49%) |
| Female | 75 | (36%) | 50 | (38%) | 4 | (9%) | 8 | (17%) | 11 | (23%) | 26 | (52%) |
| Age Group | | | | | | | | | | | | |
| < 55 | 57 | (28%) | 43 | (32%) | 7 | (16%) | 7 | (17%) | 11 | (27%) | 19 | (45%) |
| 55-64 | 61 | (29%) | 40 | (31%) | 4 | (11%) | 9 | (23%) | 7 | (18%) | 19 | (48%) |
| 65-74 | 47 | (23%) | 28 | (21%) | 2 | (7%) | 6 | (22%) | 5 | (19%) | 15 | (52%) |
| 75-84 | 28 | (14%) | 16 | (12%) | | | 3 | (17%) | 4 | (26%) | 9 | (57%) |
| 85+ | 14 | (7%) | 6 | (4%) | 1 | (18%) | | | 1 | (18%) | 5 | (88%) |
| Indigenous Status | | | | | | | | | | | | |
| Indigenous | 6 | (3%) | 3 | (3%) | 1 | (30%) | 1 | (30%) | 1 | (40%) | 1 | (30%) |
| Non-Indigenous | 184 | (89%) | 120 | (91%) | 12 | (10%) | 24 | (20%) | 26 | (22%) | 58 | (48%) |
| Not Stated/Unknown | 17 | (8%) | 9 | (7%) | 1 | (10%) | 1 | (11%) | 1 | (11%) | 7 | (81%) |
| Not Stated/Officiowif | 17 | (070) | , | (770) | 1 | (11/0) | _ | (1170) | 1 | (11/0) | ′ | (8170) |
| Socioeconomic Status | | | | | | | | | | | | |
| Affluent | 30 | (14%) | 20 | (15%) | 1 | (5%) | 2 | (11%) | 5 | (26%) | 12 | (57%) |
| Middle | 139 | (67%) | 88 | (67%) | 10 | (11%) | 19 | (21%) | 18 | (21%) | 41 | (47%) |
| Disadvantaged | 37 | (18%) | 24 | (18%) | 2 | (8%) | 4 | (15%) | 5 | (20%) | 13 | (56%) |
| Unknown | 1 | (0%) | | | | | | | | | | |
| Dometoness | | | | | | | | | | | | |
| Remoteness Major City | 126 | (61%) | 82 | (62%) | 9 | (11%) | 18 | (21%) | 17 | (21%) | 39 | (47%) |
| Inner Regional | 48 | (23%) | 30 | (22%) | 3 | (9%) | 5 | (16%) | 7 | (21%) | 15 | (52%) |
| Outer Regional | 29 | (14%) | 19 | (14%) | 2 | (9%) | 2 | (11%) | 4 | (20%) | 11 | (61%) |
| Remote & Very Remote | 2 | (1%) | 1 | (14%) | _ | (370) | 1 | (75%) | 1 | (75%) | 1 | (75%) |
| Old Unknown | 1 | (0%) | | (170) | | | • | (7370) | _ | (7370) | • | (1370) |
| | _ | () | | | | | | | | | | |
| Comorbidity | | | | | | | | | | | | |
| 0 | 171 | (83%) | 113 | (86%) | 11 | (10%) | 20 | (18%) | 26 | (23%) | 56 | (50%) |
| 1 | 25 | (12%) | 13 | (10%) | 2 | (13%) | 3 | (24%) | 2 | (16%) | 6 | (47%) |
| 2+ | 11 | (5%) | 6 | (5%) | 1 | (17%) | 2 | (28%) | 1 | (17%) | 4 | (61%) |

In the interest of completeness, annual average numbers have been included with fewer than 16 cases. Numbers < 16 should be interpreted with caution due to poor reliability of calculations based on small numbers. Annual average numbers have been rounded up to the nearest whole number for those with less than one, therefore the totals may not add up.

Type of definitive surgery for oral cavity cancer by patient residence

AVERAGE YEAR OF DIAGNOSIS 2009 – 2011 PUBLIC & PRIVATE HOSPITAL PATIENTS



| | Annual A | Average | Had Excision | | node dis | with lymph section and ction/repair | Excision with reconstruction/repair | | Excision with lymph node dissection | | Excision only | |
|--|------------------------------|---------|--------------|---------|----------|---|-------------------------------------|---------|-------------------------------------|---------|---------------|---------|
| | Oral cavity cancer cohort | (Qld %) | n | (col %) | n | (row %) | n | (row %) | n | (row %) | n | (row %) |
| Queensland | 207 | (100%) | 132 | (64%) | 13 | (10%) | 25 | (19%) | 28 | (21%) | 66 | (50%) |
| HHS (patient residence) | | | | | | | | | | | | |
| Metro North | 44 | (21%) | 30 | (22%) | 4 | (15%) | 4 | (15%) | 6 | (21%) | 15 | (49%) |
| Metro South | 40 | (19%) | 27 | (20%) | 2 | (7%) | 7 | (25%) | 5 | (20%) | 13 | (48%) |
| Gold Coast | 23 | (11%) | 14 | (11%) | 1 | (10%) | 3 | (24%) | 3 | (21%) | 6 | (45%) |
| Sunshine Coast | 19 | (9%) | 11 | (9%) | 1 | (12%) | 3 | (24%) | 3 | (24%) | 5 | (41%) |
| Wide Bay | 14 | (7%) | 8 | (6%) | 1 | (13%) | 1 | (13%) | 1 | (17%) | 5 | (65%) |
| Darling Downs | 13 | (6%) | 8 | (6%) | 1 | (12%) | 1 | (12%) | 3 | (32%) | 4 | (44%) |
| Cairns and Hinterland | 12 | (6%) | 9 | (7%) | 1 | (12%) | 1 | (15%) | 2 | (19%) | 5 | (58%) |
| Townsville | 12 | (6%) | 7 | (6%) | 1 | (14%) | 1 | (14%) | 1 | (14%) | 5 | (68%) |
| Central Queensland | 10 | (5%) | 6 | (4%) | | | 2 | (41%) | 2 | (29%) | 2 | (41%) |
| West Moreton | 9 | (4%) | 5 | (4%) | 1 | (19%) | 1 | (19%) | 1 | (19%) | 2 | (44%) |
| Mackay | 7 | (4%) | 5 | (4%) | 1 | (20%) | | | 1 | (20%) | 3 | (67%) |
| South West | 1 | (1%) | 1 | (1%) | | | | | 1 | (100%) | 1 | (100%) |
| North West | 1 | (0%) | 1 | (1%) | | | | | | | | |
| Central West Torres Strait and Cape | 1 | (0%) | 1 | (1%) | | | 1 | (100%) | | | | |
| York | 1 | (0%) | 1 | (1%) | | | | | 1 | (100%) | | |
| Qld Unknown | 1 | (0%) | | | | | | | | | | |

Type of definitive surgery for oral cavity cancer by HHS performing surgery

AVERAGE YEAR OF DIAGNOSIS 2009 – 2011 PUBLIC & PRIVATE HOSPITAL PATIENTS



| | Performi | ng Surgery | node diss | Excision with lymph node dissection and reconstruction/repair | | ion with action/repair | | with lymph issection | Excision only | | |
|--------------------------|----------|------------|-----------|---|----|---------------------------|----|-------------------------|---------------|---------|--|
| | n | (col %) | n | (row %) | n | (row %) | n | (row %) | n | (row %) | |
| Queensland | 136 | (100%) | 13 | (10%) | 25 | (18%) | 28 | (21%) | 66 | (48%) | |
| HHS (performing surgery) | | | | | | | | | | | |
| Metro North | 65 | (48%) | 7 | (56%) | 11 | (45%) | 15 | (52%) | 29 | (44%) | |
| Metro South | 29 | (21%) | 3 | (21%) | 7 | (30%) | 5 | (18%) | 14 | (21%) | |
| Gold Coast | 13 | (9%) | 1 | (8%) | 3 | (14%) | 2 | (8%) | 6 | (9%) | |
| Townsville | 11 | (8%) | 1 | (8%) | 1 | (5%) | 2 | (6%) | 7 | (10%) | |
| Darling Downs | 8 | (6%) | 1 | (8%) | 1 | (4%) | 3 | (12%) | 3 | (4%) | |
| West Moreton | 4 | (3%) | | | 1 | (4%) | 1 | (4%) | 2 | (4%) | |
| Cairns and Hinterland | 3 | (2%) | | | | | | | 3 | (4%) | |
| Sunshine Coast | 2 | (1%) | | | | | 1 | (4%) | 1 | (2%) | |
| Central Queensland | 1 | (1%) | | | | | | | 1 | (2%) | |
| Wide Bay | 1 | (1%) | | | | | | | 1 | (2%) | |

^{*}The Mackay, North West, Torres Strait & Cape York, South West, Central West and Qld Unknown HHSs did not perform oral cavity cancer surgery.

DEFINITIVE

SURGERY

MUTUALLY EXCLUSIVE

Characteristics of patients receiving oral cavity surgery by patient residence

ANNUAL AVERAGE YEAR OF DIAGNOSIS 2009 – 2011 PUBLIC & PRIVATE HOSPITAL PATIENTS

| ha | | | |
|----|--|--|--|
| | | | |

| | Characteristic | | | | | | | | | | | | | LACE | .00172 |
|-----------------------------|----------------|---------|----|---------|-------------------------|-------|----------|-----|----------|------|------------|----|---------|------|----------|
| | | | | | | | | | | One | or more | / | | | |
| | Annual Ave | rage | ľ | Male | Median Age at Diagnosis | Disad | vantaged | Ind | digenous | come | orbidities | F | rivate | Em | nergency |
| | Had Excision | (Qld %) | n | (row %) | yrs | n | (row %) | n | (row %) | n | (row %) | n | (row %) | n | (row %) |
| | | | | | | | | | | | | | | | |
| Queensland | 132 | (64%) | 82 | (62%) | 60 yrs | 24 | (18%) | 3 | (3%) | 19 | (14%) | 46 | (35%) | 2 | (1%) |
| | | | | | | | | | | | | | | | |
| HHS (patient residence) | | | | | | | | | | | | | | | |
| Metro North | 30 | (22%) | 18 | (60%) | 61 yrs | 3 | (11%) | 1 | (3%) | 6 | (19%) | 13 | (44%) | 1 | 3% |
| Metro South | 27 | (20%) | 16 | (59%) | 59 yrs | 5 | (17%) | 1 | (4%) | 3 | (11%) | 7 | (26%) | 1 | (4%) |
| Gold Coast | 14 | (11%) | 9 | (64%) | 59 yrs | | | | | 1 | (7%) | 7 | (50%) | | |
| Sunshine Coast | 11 | (9%) | 7 | (59%) | 60 yrs | 1 | (9%) | | | 2 | (21%) | 4 | (35%) | 1 | (9%) |
| Cairns and Hinterland | 9 | (7%) | 6 | (69%) | 58 yrs | 2 | (23%) | 1 | (12%) | 1 | (12%) | 3 | (38%) | | |
| Wide Bay | 8 | (6%) | 4 | (57%) | 63 yrs | 7 | (91%) | 1 | (13%) | 1 | (13%) | 2 | (22%) | | |
| Darling Downs | 8 | (6%) | 5 | (56%) | 64 yrs | 3 | (36%) | 1 | (12%) | 2 | (24%) | 3 | (40%) | | |
| Townsville | 7 | (6%) | 5 | (68%) | 57 yrs | 1 | (14%) | | | 1 | (14%) | 2 | (23%) | | |
| Central Queensland | 6 | (4%) | 4 | (65%) | 59 yrs | 1 | (18%) | 1 | (18%) | 1 | (18%) | 2 | (29%) | | |
| West Moreton | 5 | (4%) | 4 | (75%) | 62 yrs | 1 | (19%) | | | 1 | (19%) | 1 | (25%) | | |
| South West | 5 | (4%) | 3 | (60%) | 60 yrs | 1 | (20%) | | | 1 | (20%) | 1 | (20%) | | |
| Central West | 1 | (1%) | 1 | (100%) | 58 yrs | | | | | | | 1 | (100%) | | |
| Torres Strait and Cape York | 1 | (1%) | 1 | (100%) | 82 yrs | | | | | 1 | (100%) | 1 | (100%) | | |
| North West | 1 | (1%) | 1 | (100%) | 36 yrs | 1 | (100%) | 1 | (100%) | | | 1 | (100%) | | |

^{*}No patients from Qld Unknown were reported as undergoing oral cavity surgery

Tracheostomy rate for oral cavity cancer

ANNUAL AVERAGE YEAR OF DIAGNOSIS 2009 – 2011 PUBLIC & PRIVATE HOSPITAL PATIENTS

EVER HAD MUTUALLY EXCLUSIVE

| | Annual A | Average | Trac | heostomy | No Trach | eostomy |
|----------------------|--------------|---------|------|----------|----------|---------|
| | Had Excision | (Qld %) | n | (row %) | n | (row %) |
| Characteristic | | | | | | |
| Queensland | 132 | (100%) | 11 | (8%) | 121 | (92%) |
| | | | | | | |
| Gender | | | | | | |
| Male | 82 | (62%) | 9 | (11%) | 73 | (89%) |
| Female | 50 | (38%) | 2 | (4%) | 48 | (96%) |
| Age Group | | | | | | |
| < 55 | 43 | (32%) | 4 | (9%) | 39 | (91%) |
| 55-64 | 40 | (31%) | 4 | (10%) | 36 | (90%) |
| 65-74 | 28 | (21%) | 2 | (7%) | 26 | (93%) |
| 75-84 | 16 | (12%) | 1 | (9%) | 14 | (91%) |
| 85+ | 6 | (4%) | 1 | (18%) | 5 | (82%) |
| Indigenous Status | | | | | | |
| Indigenous | 3 | (3%) | 1 | (30%) | 2 | (70%) |
| Non-Indigenous | 120 | (91%) | 10 | (8%) | 110 | (92%) |
| Not Stated/Unknown | 9 | (7%) | 1 | (11%) | 8 | (89%) |
| Socioeconomic Status | | | | | | |
| Affluent | 20 | (15%) | 2 | (8%) | 19 | (92%) |
| Middle | 88 | (67%) | 7 | (8%) | 81 | (92%) |
| Disadvantaged | 24 | (18%) | 2 | (8%) | 22 | (92%) |
| Unknown | | | | | | |
| Remoteness | | | | | | |
| Major City | 82 | (62%) | 7 | (8%) | 76 | (92%) |
| Inner Regional | 30 | (22%) | 3 | (9%) | 27 | (91%) |
| Outer Regional | 19 | (14%) | 1 | (5%) | 18 | (95%) |
| Remote & Very Remote | 1 | (1%) | 1 | (75%) | | |
| Qld Unknown | | | | | | |
| Diagnosis Basis | | | | | | |
| Histology | 132 | (100%) | 11 | (8%) | 121 | (92%) |
| Cytology | | | | | | |
| Clinical | | | | | | |
| Other | | | | | | |
| Comorbidity | | | | | | |
| 0 | 113 | (86%) | 9 | (8%) | 105 | (92%) |
| 1 | 13 | (10%) | 1 | (8%) | 12 | (92%) |
| 2+ | 6 | (5%) | 1 | (17%) | 5 | (83%) |

In the interest of completeness, annual average numbers have been included with fewer than 16 cases. Numbers < 16 should be interpreted with caution due to poor reliability of calculations based on small numbers. Annual average numbers have been rounded up to the nearest whole number for those with less than one, therefore the totals may not add up.

Tracheostomy rate for oral cavity cancer by patient residence

ANNUAL AVERAGE YEAR OF DIAGNOSIS 2009 – 2011 PUBLIC & PRIVATE HOSPITAL PATIENTS

EVER HAD
MUTUALLY
EXCLUSIVE

| | Annual A | verage | Trach | neostomy | No Tra | acheostomy |
|-----------------------------|--------------|---------|-------|----------|--------|------------|
| | Had Excision | (Qld %) | n | (row %) | n | (row %) |
| Queensland | 132 | (100%) | 11 | (8%) | 121 | (92%) |
| Queensiana | 102 | (20070) | | (070) | | (3270) |
| HHS (patient residence) | | | | | | |
| Metro North | 30 | (22%) | 2 | (8%) | 27 | (92%) |
| Metro South | 27 | (20%) | 3 | (10%) | 24 | (90%) |
| Gold Coast | 14 | (11%) | 1 | (7%) | 13 | (93%) |
| Sunshine Coast | 11 | (9%) | 1 | (9%) | 10 | (91%) |
| Wide Bay | 8 | (6%) | 1 | (13%) | 7 | (87%) |
| Darling Downs | 8 | (6%) | 1 | (12%) | 7 | (88%) |
| Cairns and Hinterland | 9 | (7%) | 1 | (12%) | 8 | (88%) |
| Townsville | 7 | (6%) | 1 | (14%) | 6 | (86%) |
| Central Queensland | 6 | (4%) | 1 | (18%) | 5 | (82%) |
| West Moreton | 5 | (4%) | 1 | (19%) | 4 | (81%) |
| Mackay | 5 | (4%) | 1 | (20%) | 4 | (80%) |
| South West | 1 | (1%) | | | 1 | (100%) |
| North West | 1 | (1%) | 1 | (100%) | | |
| Central West | 1 | (1%) | | | 1 | (100%) |
| Torres Strait and Cape York | 1 | (1%) | | | 1 | (100%) |
| Qld Unknown | | | | | | |

Tracheostomy rate for oral cavity cancer by HHS performing surgery

ANNUAL AVERAGE YEAR OF DIAGNOSIS 2009 – 2011 PUBLIC & PRIVATE HOSPITAL PATIENTS

EVER HAD MUTUALLY EXCLUSIVE

| | Annual Av | rerage | Trac | cheostomy | No Tracheostomy | | | |
|--------------------------|--------------|---------|------|-----------|-----------------|---------|--|--|
| | Had Excision | (col %) | n | (row %) | n | (row %) | | |
| Queensland | 132 | (100%) | 11 | (8%) | 121 | (92%) | | |
| HHS (performing surgery) | | , , | | , , | | , , | | |
| Metro North | 62 | (47%) | 4 | (41%) | 58 | (48%) | | |
| Metro South | 29 | (22%) | 4 | (38%) | 25 | (20%) | | |
| Gold Coast | 12 | (9%) | 1 | (9%) | 11 | (9%) | | |
| Townsville | 11 | (8%) | 1 | (9%) | 10 | (8%) | | |
| Darling Downs | 8 | (6%) | 1 | (9%) | 7 | (5%) | | |
| West Moreton | 4 | (3%) | | | 4 | (4%) | | |
| Cairns and Hinterland | 3 | (2%) | | | 3 | (2%) | | |
| Sunshine Coast | 2 | (1%) | | | 2 | (1%) | | |
| Central Queensland | 1 | (1%) | | | 1 | (1%) | | |
| Wide Bay | 1 | (1%) | | | 1 | (1%) | | |

^{*}The Mackay, North West, Torres Strait & Cape York, South West, Central West and Qld Unknown HHSs did not perform oral cavity surgery.

In the interest of completeness, annual average numbers have been included with fewer than 16 cases. Numbers < 16 should be interpreted with caution due to the poor reliability of calculations based on small numbers. Annual average numbers have been rounded up to the nearest whole number for those with less than one, therefore the totals may not add up.

Patient flows



10 year oral cavity cancer patient flows for surgery

YEAR OF DIAGNOSIS 2002 – 2011 (COL% ROW %) PUBLIC & PRIVATE HOSPITAL PATIENTS

| | | | HHS of surgery | | | |
|-------------------------------|-------------|-------------|----------------|----------------|-----------|---------------|
| | Metro North | Metro South | Gold Coast | Sunshine Coast | Wide Bay | Darling Downs |
| Hospitals performing surgery* | . 8 | . 7 | 5 | 4 | 2 | 4 |
| HHS (patient residence) | | | | | | |
| Metro North | 201~ | 20 | 1 | 1 | | |
| | (40% 90%) | (8% 9%) | (1% 0%) | (6% 0%) | | |
| Metro South | 92 | 144 | 1 | | | |
| | (18% 38%) | (55% 60%) | (1% 0%) | | | |
| Gold Coast | 18 | 19 | 92 | | | |
| | (4% 14%) | (7% 15%) | (98% 71%) | | | |
| Sunshine Coast | 58 | 11 | | 17 | | |
| | (11% 67%) | (4% 13%) | | (94% 20%) | | |
| Wide Bay | 50 | 10 | | | 6 | |
| | (10% 76%) | (4% 15%) | | | (100% 9%) | |
| Darling Downs | 8 | 3 | | | | 60 |
| | (2% 11%) | (1% 4%) | | | | (88% 83%) |
| Cairns and Hinterland | 19 | 16 | | | | |
| | (4% 28%) | (6% 24%) | | | | |
| Townsville | 2 | 15 | | | | |
| | (0% 4%) | (6% 28%) | | | | |
| Central Queensland | 33 | 4 | | | | |
| | (7% 69%) | (2% 8%) | | | | |
| West Moreton | 4 | 7 | | | | 5 |
| | (1% 8%) | (3% 14%) | | | | (7% 10%) |
| Mackay | 13 | 6 | | | | |
| | (3% 41%) | (2% 19%) | | | | |
| South West | 1 | | | | | 3 |
| | (0% 20%) | | | | | (4% 60%) |
| North West | 3 | | | | | |
| | (1% 50%) | | | | | |
| Central West | 3 | 1 | | | | |
| | (1% 50%) | (0% 17%) | | | | |
| Torres Strait and Cape York | 1 | 4 | | | | |
| | (0% 14%) | (2% 57%) | | | | |
| Qld Unknown | | | | | | |
| | | | | | | |
| Queensland | 506~ | 260 | 94 | 18 | 6 | 68 |
| Qld (%) | (46%) | (24%) | (9%) | (2%) | (1%) | (6%) |
| Annual Average | 51 | 26 | 9 | 2 | 1 | 7 |

^{*}the number of hospitals within a HHS performing oral cavity surgery

$\underline{^{\sim} \text{Using Metro South as an example:}}$

- 223 Total number of patients who lived in Metro South.
- $506\,\hbox{--Total}$ number of oral cavity surgeries that Metro South performed.
- 201 Number of patients who had oral cavity surgery in Metro South and lived in Metro South.
- $40\% Of the 506 \ patients \ who \ had \ or al \ cavity \ surgery \ in \ Metro \ South \ 201 \ also \ lived \ in \ Metro \ South \ (201/506 = 40\%) \ .$
- 90% Of the 223 patients who lived in Metro South 201 had oral cavity surgery in Metro South (201/223 = 90%).

10 year oral cavity cancer patient flows for surgery

YEAR OF DIAGNOSIS 2002 – 2011 (COL% ROW %)
PUBLIC & PRIVATE HOSPITAL PATIENTS

23

(2%)

2

62

(6%)

6

EVER HAD

1 SURGERY:

1 PATIENT

HHS of surgery Central Queensland Cairns and Hinterland Townsville West Moreton Mackay North West Qld 3 2 2 45 3 1 n % 223~ (20%) 2 239 (22%) (5% 1%) 129 (12%) 86 (8%) 66 (6%) 1 72 (7%) (3% 1%) 22 11 68 (6%) (96% 32%) (18% 16%) 36 53 (5%) (58% 68%) 11 48 (4%) (100% 23%) 34 (5%) 50 (89% 68%) (3%) 10 3 32 (100% 9%) (16% 31%) 1 (0%) (3% 20%) 2 (1%) (100% 17%) (3% 33%) 6 (1%) (3% 33%) 1 7 (1%) (4% 14%) (2% 14%)

11

(1%)

1

38

(3%)

3

(0%)

1090

(100%)

1

(0%)

0

2011 oral cavity cancer patient flows for surgery

YEAR OF DIAGNOSIS 2011 (COL%. ROW%)
PUBLIC & PRIVATE HOSPITAL PATIENTS

| | Metro North | Metro South | Gold Coast | Sunshine Coast | Wide Bay | Darling Downs |
|-------------------------------|-------------|-------------|------------|----------------|------------|---------------|
| Hospitals performing surgery* | 5 | 4 | 4 | 2 | 1 | 3 |
| HHS (patient residence) | | | | | | |
| Metro North | 27~ | 3 | | | | |
| | (40% 90%) | (10% 10%) | | | | |
| Metro South | 10 | 17 | | | | |
| | (15% 37%) | (57% 63%) | | | | |
| Gold Coast | 1 | 2 | 9 | | | |
| | (1% 8%) | (7% 17%) | (100% 75%) | | | |
| Sunshine Coast | 7 | 3 | | 3 | | |
| | (10% 54%) | (10% 23%) | | (100% 23%) | | |
| Wide Bay | 4 | 2 | | | 3 | |
| | (6% 44%) | (7% 22%) | | | (100% 33%) | |
| Darling Downs | 1 | | | | | 9 |
| | (1% 9%) | | | | | (90% 82%) |
| Cairns and Hinterland | 5 | 3 | | | | |
| | (7% 42%) | (10% 25%) | | | | |
| Townsville | | | | | | |
| Central Queensland | 7 | | | | | |
| | (10% 88%) | | | | | |
| West Moreton | 1 | | | | | 1 |
| | (1% 17%) | | | | | (10% 17%) |
| Mackay | 4 | | | | | |
| | (6% 80%) | | | | | |
| South West | | | | | | |
| | | | | | | |
| North West | | | | | | |
| Central West | | | | | | |
| Central West | | | | | | |
| Torres Strait and Cape York | | | | | | |
| • | | | | | | |
| Qld Unknown | | | | | | |
| | | | | | | |
| Queensland | 67~ | 30 | 9 | 3 | 3 | 10 |
| Qld (%) | (47%) | (21%) | (6%) | (2%) | (2%) | (7%) |

^{*}the number of hospitals within a HHS performing oral cavity surgery

~Using Metro South as an example:

- 30 Total number of patients who lived in Metro South.
- 67 –Total number of oral cavity surgeries that Metro South performed.
- $\ensuremath{\mathsf{27}}\xspace{-}\mathsf{Number}$ of patients who had oral cavity surgery in Metro South and lived in Metro South.
- 40% Of the 67 patients who had oral cavity surgery in Metro South 27 also lived in Metro South (27/67 = 40%) .
- 90% Of the 30 patients who lived in Metro South 27 had oral cavity surgery in Metro South (27/30 = 90%).

2011 oral cavity cancer patient flows for surgery

YEAR OF DIAGNOSIS 2011 (COL%. ROW%)
PUBLIC & PRIVATE HOSPITAL PATIENTS

EVER HAD

1 SURGERY:

1 PATIENT

HHS of surgery

| | HHS of sur | gery | | | |
|-----------------------|------------------|--------------------|----------------|-----|----------|
| Cairns and Hinterland | Townsville | Central Queensland | West Moreton | Q | ld |
| 2 | 2 | 1 | 2 | 2 | 6 |
| | | | | n | % |
| | | | | 30~ | (21%) |
| | | | | | , , |
| | | | | 27 | (19%) |
| | | | | 12 | (8%) |
| | | | | 13 | (9%) |
| | | | | 9 | (6%) |
| | | | 1 (20% 9%) | 11 | (8%) |
| 2 (100% 17%) | 2 (15% 17%) | | | 12 | (8%) |
| | 10 (77% 100%) | | | 10 | (7%) |
| | , | 1 (100% 13%) | | 8 | (6%) |
| | | | 4 (80% 67%) | 6 | (4%) |
| | 1 (8% 20%) | | (33% 3,7%) | 5 | (3%) |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| 2 | 13 | 1 | 5 | 143 | (4.000() |
| (1%) | (9%) | (1%) | (3%) | | (100%) |

Surgery rates



10 year surgery rates for oral cavity cancer by patient residence

YEAR OF DIAGNOSIS 2002 – 2011 PUBLIC & PRIVATE HOSPITAL PATIENTS



| | | | | | | | | | | | Year of | Diagnosis | | | | | | | | / | | | | |
|-----------------------------|------|--------------------|------|----------|----|--------|----|-------|----|--------|---------|-----------|----|-------|-----|--------|-----|-------|-----|--------|-----|--------|-----|-------|
| | | ity cancer hort | Had | Excision | | 2002 | : | 2003 | | 2004 | 20 | 005 | | 2006 | : | 2007 | 2 | 800 | : | 2009 | : | 2010 | 2 | 011 |
| | N | (col %) | n | (row %) | n | (%) | n | (%) | n | (%) | n | (%) | n | (%) | n | (%) | n | (%) | n | (%) | n | (%) | n | (%) |
| Queensland | 1854 | (100%) | 1090 | (59%) | 60 | (44%) | 80 | (54%) | 88 | (54%) | 120 | (62%) | 92 | (53%) | 121 | (58%) | 133 | (63%) | 129 | (63%) | 124 | (61%) | 143 | (67%) |
| HHS (patient residence) | | | | | | | | | | | | | | | | | | | | | | | | |
| Metro North | 379 | (20%) | 223 | (59%) | 13 | (45%) | 21 | (57%) | 14 | (54%) | 22 | (56%) | 21 | (55%) | 23 | (55%) | 20 | (57%) | 34 | (68%) | 25 | (68%) | 30 | (65%) |
| Metro South | 378 | (20%) | 239 | (63%) | 11 | (48%) | 16 | (52%) | 24 | (67%) | 28 | (61%) | 20 | (50%) | 24 | (62%) | 35 | (80%) | 27 | (69%) | 27 | (63%) | 27 | (73%) |
| Gold Coast | 194 | (10%) | 129 | (66%) | 8 | (67%) | 10 | (59%) | 11 | (52%) | 15 | (94%) | 13 | (76%) | 15 | (71%) | 15 | (71%) | 16 | (76%) | 14 | (58%) | 12 | (50%) |
| Sunshine Coast | 154 | (8%) | 86 | (56%) | 5 | (45%) | 6 | (67%) | 6 | (43%) | 9 | (60%) | 9 | (47%) | 11 | (61%) | 6 | (50%) | 11 | (58%) | 10 | (56%) | 13 | (68%) |
| Wide Bay | 125 | (7%) | 66 | (53%) | 4 | (36%) | 4 | (44%) | 7 | (64%) | 6 | (55%) | 7 | (70%) | 5 | (33%) | 10 | (63%) | 6 | (43%) | 8 | (53%) | 9 | (69%) |
| Darling Downs | 124 | (7%) | 72 | (58%) | 3 | (30%) | 7 | (70%) | 6 | (55%) | 6 | (55%) | 5 | (38%) | 11 | (58%) | 9 | (75%) | 8 | (57%) | 6 | (67%) | 11 | (73%) |
| Cairns and Hinterland | 111 | (6%) | 68 | (61%) | 5 | (50%) | 3 | (43%) | 5 | (45%) | 10 | (67%) | 4 | (67%) | 6 | (55%) | 9 | (64%) | 8 | (73%) | 6 | (46%) | 12 | (92%) |
| Townsville | 102 | (6%) | 53 | (52%) | 3 | (33%) | 1 | (25%) | 1 | (17%) | 6 | (55%) | 6 | (67%) | 9 | (60%) | 5 | (38%) | 4 | (67%) | 8 | (50%) | 10 | (77%) |
| Central Queensland | 83 | (4%) | 48 | (58%) | 2 | (40%) | 4 | (80%) | 3 | (60%) | 4 | (44%) | 3 | (50%) | 5 | (71%) | 10 | (67%) | 4 | (44%) | 5 | (56%) | 8 | (62%) |
| West Moreton | 81 | (4%) | 50 | (62%) | 3 | (75%) | 5 | (83%) | 3 | (50%) | 8 | (80%) | | | 7 | (64%) | 8 | (57%) | 5 | (56%) | 5 | (71%) | 6 | (60%) |
| Mackay | 61 | (3%) | 32 | (52%) | 1 | (17%) | 1 | (25%) | 3 | (60%) | 4 | (50%) | 3 | (43%) | 3 | (75%) | 2 | (40%) | 4 | (44%) | 6 | (100%) | 5 | (71%) |
| Torres Strait and Cape York | 18 | (1%) | 7 | (39%) | 1 | (100%) | 1 | (25%) | 2 | (40%) | | | | | | | 1 | (50%) | 1 | (100%) | 1 | (100%) | | |
| North West | 15 | (1%) | 6 | (40%) | | | | | 1 | (50%) | 1 | (100%) | 1 | (33%) | 1 | (100%) | 2 | (50%) | | | | | | |
| South West | 9 | (0%) | 5 | (56%) | | | | | | | 1 | (100%) | | | 1 | (100%) | | | | | 3 | (75%) | | |
| Central West | 9 | (0%) | 6 | (67%) | 1 | (100%) | 1 | (50%) | 2 | (100%) | | | | | | | 1 | (50%) | 1 | (100%) | | | | |
| Qld Unknown | 11 | (1%) | | | | | | | | | | | | | | | | | | | | | | |

Note: %'s for each year are used to show the percentage of patients who had surgery out of the total number of incidences for that year of oral cavity cancer. For example in Queensland in 2002 there were 60 patients who had oral cavity surgery which is 44% of the total incidences of oral cavity cancer in 2002.

EVER HAD

1 SURGERY: 1 PATIENT

10 year surgery rates for oral cavity cancer by HHS performing surgery

YEAR OF DIAGNOSIS 2002 – 2011 PUBLIC & PRIVATE HOSPITAL PATIENTS

| | | | | | | | | | | | | Year of | Diagno | sis | | | | | | | | |
|--------------------------|-------|---------|----|--------|------|--------|----|--------|-----|--------|----|---------|--------|--------|-----|--------|-----|--------|--------|--------|-----|--------|
| | Had E | xcision | 2 | 002 | 2003 | | | 2004 | : | 2005 | | 2006 | : | 2007 | 2 | 2008 | 2 | 2009 | , 2 | 2010 | 2 | 2011 |
| | n | (row %) | n | (%) | n | (%) | n | (%) | n | (%) | n | (%) | n | (%) | n | (%) | n | (%) | n | (%) | n | (%) |
| Queensland | 1090 | (100%) | 60 | (100%) | 80 | (100%) | 88 | (100%) | 120 | (100%) | 92 | (100%) | 121 | (100%) | 133 | (100%) | 129 | (100%) | 124 | (100%) | 143 | (100%) |
| HHS (performing surgery) | | | | | | | | | | | | | | | | | | | | | | |
| Metro North | 506 | (46%) | 34 | (57%) | 42 | (53%) | 34 | (39%) | 51 | (43%) | 48 | (52%) | 54 | (45%) | 57 | (43%) | 62 | (48%) | 57 | (46%) | 67 | (47%) |
| Metro South | 260 | (24%) | 5 | (8%) | 14 | (18%) | 24 | (27%) | 37 | (31%) | 29 | (32%) | 28 | (23%) | 37 | (28%) | 31 | (24%) | 25 | (20%) | 30 | (21%) |
| Gold Coast | 94 | (9%) | 5 | (8%) | 7 | (9%) | 6 | (7%) | 10 | (8%) | 7 | (8%) | 10 | (8%) | 12 | (9%) | 15 | (12%) | 13 | (10%) | 9 | (6%) |
| Darling Downs | 68 | (6%) | 3 | (5%) | 7 | (9%) | 6 | (7%) | 6 | (5%) | 3 | (3%) | 13 | (11%) | 7 | (5%) | 7 | (5%) | 6 | (5%) | 10 | (7%) |
| Townsville | 62 | (6%) | 5 | (8%) | 2 | (3%) | 7 | (8%) | 3 | (3%) | 2 | (2%) | 3 | (2%) | 8 | (6%) | 7 | (5%) | 12 | (10%) | 13 | (9%) |
| West Moreton | 38 | (3%) | 3 | (5%) | 5 | (6%) | 2 | (2%) | 5 | (4%) | | | 4 | (3%) | 6 | (5%) | 3 | (2%) | 5 | (4%) | 5 | (3%) |
| Cairns and Hinterland | 23 | (2%) | 3 | (5%) | 2 | (3%) | 3 | (3%) | 3 | (3%) | | | 3 | (2%) | 1 | (1%) | 4 | (3%) | 2 | (2%) | 2 | (1%) |
| Sunshine Coast | 18 | (2%) | | | 1 | (1%) | 2 | (2%) | 2 | (2%) | 2 | (2%) | 4 | (3%) | 2 | (2%) | | | 2 | (2%) | 3 | (2%) |
| Central Queensland | 11 | (1%) | 1 | (2%) | | | 2 | (2%) | 1 | (1%) | | | 2 | (2%) | 2 | (2%) | | | 2 | (2%) | 1 | (1%) |
| Wide Bay | 6 | (1%) | | | | | 2 | (2%) | | | | | | | 1 | (1%) | | | | | 3 | (2%) |
| Mackay | 3 | (0%) | 1 | (2%) | | | | | 1 | (1%) | 1 | (1%) | | | | | | | | | | |
| North West | 1 | (0%) | | | | | | | 1 | (1%) | | | | | | | | | | | | |

^{*}The Torres Strait & Cape York, South West, Central West and Qld Unknown HHSs did not perform oral cavity cancer surgery.

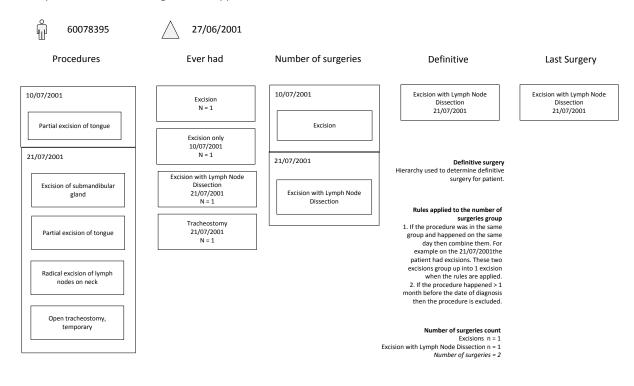
Note: %'s for each year are used to show the percentage of patients who had surgery out of the total number of surgeries for that year for oral cavity cancer. For example in Queensland in 2002 Metro North performed 57% of the total oral cavity cancer surgeries.

Technical appendix



How different counting rules can be applied to a patient

The calculations of surgery counts were defined for each data sheet and were tailored to each cancer. Below are 5 examples of how the counting rules are applied.



Counts of surgery across groups for patients diagnosed with oral cavity cancer from 2002 to 2011

| SURGERY | NO OF | EVER | NUMBER OF | DEFINITIVE*+ | LAST |
|---|------------|------|------------|--------------|----------|
| | PROCEDURES | HAD* | SURGERIES* | | SURGERY* |
| Excision with lymph node dissection and reconstruction/repair | 2504 | 95 | 282 | 95 | 88 |
| Excision with reconstruction/repair | 4324 | 155 | 155 | 155 | 148 |
| Excision with lymph node dissection | 6184 | 281 | 282 | 280 | 246 |
| Excision only | 13498 | 640 | 760 | 560 | 484 |
| Total | 26510 | 1171 | 1479 | 1090 | 966 |

^{*}Rules applied to surgical cohort

- Procedure 1 month before or any time after patient diagnosis
- If the same surgery happened on the same day than the surgery is only counted once. For example: a patient has 2 excisions on the 21/07/2001. The count of excisions is 1.

+Rules applied to definitive surgery cohort

 Heirarchy used to determine definitive surgery for patient. For example if a patient had a excision with lymph node dissection, excision with reconstruction/repair and an excision only the patients definitive surgery will be excision with reconstruction/repair.

Oral Cavity surgery hierarchy

- 1. Excision with lymph node dissection and reconstruction/repair
- 2. Excision with reconstruction/repair
- 3. Excision with lymph node dissection
- 4. Excision only
- 5. Tracheostomy

Definitions

Annual average

Annual average refers to the sum of numbers divided by the number of years being reported. In this report annual average numbers have been rounded up to the nearest whole number for those with less than 1.

Chargeable status - public and private

On admission to hospital, an eligible patient must elect to be either a public or private patient.

A public patient is a patient who:

- · Elects to be treated as a public patient, and so cannot choose the doctor who treats them, or
- Is receiving treatment in a private hospital under a contract arrangement with a public hospital or health authority.

A private patient is a patient who, by choosing the doctor who will treat them (provided the doctor has 'right of private practice' or is a general practitioner/specialist with admitting rights) has elected to be treated as a private patient.

Cohort

Queensland cancer cohort

Queenslanders who were identified in Queensland Oncology Repository as being diagnosed with cancer between 1 January 2002 and 31 December 2011.

Oral cavity cancer cohort

Queenslanders who were diagnosed with oral cavity cancer between 1 January 2002 and 31 December 2011.

Oral cavity cancer surgery cohort

Anyone in the oral cavity cancer cohort who had any of the identified cancer related procedures, one month before or within twelve months of diagnosis as outlined on page 4.

No surgery cohort

Anyone in the oral cavity cancer cohort who did not undergo surgery as an admitted patient in the surgical cohort time period, as defined by the procedures outlined on page 4.

Col %

Percentage of the column total

Comorbidity

A clinical condition that has the potential to significantly affect a cancer patient's prognosis after diagnosis with cancer.

Comorbidity is derived from hospital admissions data following the Quan algorithm1 for classifying ICD-10 coded conditions, modified to exclude metastasis, which is represented by a separate and distinct metastasis dimension.

Comorbidity is limited to conditions coded in any admission episode between 12 months before and 12 months after the date of cancer diagnosis.

For any given cancer diagnosis, comorbidity is restricted to conditions other than the primary cancer. For example: a breast cancer can be a comorbidity to a lung cancer diagnosis and vice versa, if they are diagnosed within 12 months of each other.

Benign tumours are not considered comorbidities.

Co-morbidity list

AIDS Acute myocardial Cancer

Cerebrovascular disease Congestive heart failure Chronic obstructive pulmonary disease

Dementia Diabetes Diabetes + complications
Hemiplegia or Paraplegia Mild liver disease Moderate/severe liver disease

Peptic ulcer Peripheral vascular disease Renal disease

Rheumatoid disease

Definitive surgery

The highest ranked surgery the patient ever had defined by the oral cavity cancer surgery hierarchy outline on page 23.

Diagnosis Basis

Confirmation of cancer through clinical or histological tests

Elective Status

Emergency Admission

A patient admitted to hospital at short notice because of clinical need or if alternative care is not available.

Elective Admission

A patient who is admitted into hospital for treatment from the waiting list.

Ever had surgery

Patients are counted once within the surgical groups but can be across multiple groups. For example: a patient had two excisions with lymph node dissection, one excision only and one excision with reconstruction/repair. The patient would be counted as one excision with lymph node dissection, one excision only and one excision with reconstruction/repair.

Had surgery

Includes Queensland residents of all ages diagnosed with invasive oral cavity cancer in the surgical cohort time period who underwent surgery as defined by the procedures outlined on pages 4 and 5. If the patient had multiple surgeries on the same day that fall in the same group then the surgery is counted once. For example if a patient had two excisions only on the same day the excision is counted once.

Hospital and Health Service (HHS)

For residence considerations, the Hospital and Health Service is a geographic area defined by a collection of Statistical Local Areas (SLA). For public hospitals and health service facilities, the term Hospital and Health Service is synonymous with a group of Queensland Health facilities and staff responsible for providing and delivering health resources and services to an area which may consist of one or more residential areas.

Queensland Unknown residence includes addresses reported as overseas, unknown or not fixed.

Indigenous Status

A measure of whether a person identifies as being of Aboriginal or Torres Strait Islander origin.

Last Surgery

The last surgery the patient ever had. To be included in this group the patient underwent one of the surgical procedures outlined on page 4.

Median age

The age that divides a population into two halves: one older than the median, the other younger than the median.

No surgery

Includes Queensland residents of all ages diagnosed with invasive oral cavity cancer who did not undergo surgery as an admitted patient in the surgical cohort time period, as defined by the procedures outlined on page 4.

Number of procedures

Includes Queensland residents of all ages diagnosed with invasive oral cavity cancer who underwent a relevant oral cavity cancer procedure. The procedure could have occurred at any time with no counting rules applied as outlined on page 2.

Patient flows

Col% is used to show the distribution of residence for the total group of patients who were operated on by a single HHS. Row% is used to show the proportion of patients residing in a given HHS who also receive their surgery in the same HHS, and what proportion had their surgery in another HHS.

Old %

Percentage of the Queensland total.

Remoteness

The relative remoteness of residence at time of diagnosis, based on the Australian Standard Geographical Classification (ASGC). This document classifies remoteness into four groups: Major City, Inner Regional, Outer Regional, and Remote/Very remote.

Row %

Percentage of the row total

Sex

Refers to the biological and physiological characteristics that define men and women.

Socioeconomic status

Socioeconomic classification is based on the Socio-Economic Indexes for Areas (SEIFA), a census-based measure of social and economic well-being developed by the Australian Bureau of Statistics (ABS) and aggregated at the level of Statistical Local Areas (SLA).

The ABS uses SEIFA scores to rank regions into ten groups or deciles numbered 1 to 10, with 1 being the most disadvantaged group and 10 being the most affluent group. This ranking is useful at the national level, but the number of people in each decile often becomes too small for meaningful comparisons when applied to a subset of the population. For this reason, this document further aggregates SEIFA deciles into 3 socioeconomic groups:

| SEIFA Group | Decile | Percentage of population (approximate) |
|---------------|--------|--|
| Affluent | 1-2 | 20% |
| Middle | 3-8 | 60% |
| Disadvantaged | 9-10 | 20% |

The proportion of cases in each group will vary depending on the subset of the population being examined. For example, the proportion in the Disadvantaged group may be higher than 20% when the data is limited to cancers that are more common in poor compared to rich people.

For more information

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