

10 Procedures for admitted patients

Introduction

The *National Health Data Dictionary* version 12.0 (NHDC 2003) defines a procedure as a clinical intervention that is surgical in nature, carries a procedural risk, carries an anaesthetic risk, requires specialised training, and/or requires special facilities or equipment only available in an acute care setting. Procedures therefore encompass surgical procedures and also non-surgical investigative and therapeutic procedures such as X-rays and chemotherapy. Client support interventions that are neither investigative nor therapeutic (such as anaesthesia) are also included.

Procedures for 2003–04 were classified, coded and reported to the National Hospital Morbidity Database by all states and territories except South Australia, using the third edition of the *International Statistical Classification of Diseases and Related Health Problems, 10th Revision, Australian Modification* (ICD-10-AM) (NCCH 2002). South Australia mapped the data collected using that classification forward to codes of the fourth edition of ICD-10-AM (NCCH 2004). The AIHW mapped these data backward to the third edition codes so that national data could be presented in a single classification in this report. The mapped data should be interpreted with these mappings in mind. Information about the quality of the ICD-10-AM coded data is presented in Appendix 3.

One or more procedures can be reported for each separation in the National Hospital Morbidity Database, but procedures are not undertaken for all hospital admissions, so only a proportion of the separation records include procedure data.

There are two types of data on procedures presented in this chapter:

- data on the separations for which there was one or more procedures reported within the group of procedures (an ICD-10-AM procedure block or chapter) being considered. Because more than one procedure can be reported for each separation, the counts for these data are not additive, so totals in the tables will not usually equal the sum of counts in the rows; and
- data on the total number of procedures reported. For these data, all procedures within a group of procedures being considered are counted, even if there is more than one reported for a separation.

The procedure classification is divided into chapters by anatomical site and within each chapter by a 'superior' to 'inferior' (head to toe) approach. These sub-chapters are further divided into more specific procedure blocks, beginning with the least invasive procedure through to the most invasive. The blocks, which are numbered sequentially, group the very specific procedure codes. The tables and figures in this chapter use blocks and abbreviated descriptions. Full descriptions of the categories are available in the ICD-10-AM publication.

Most of the information is presented using two methods of grouping procedures based on the ICD-10-AM procedure classification:

- ICD-10-AM procedure chapters – these 20 groups provide information aggregated at the ICD-10-AM chapter level (Tables 10.1 to 10.4, 10.8, 10.9 and 10.21); and

- ICD-10-AM procedure blocks – these 1,594 categories describe procedures at a quite specific level. Detailed information is presented for the 30 of these groups with the highest number of separations (Tables 10.10 to 10.20) and summary information is provided for all of the groups (for which separations were reported) on the Internet at <http://www.aihw.gov.au> (Tables S10.1 and S10.2).

In addition, Table 10.5 presents information on the number of procedures reported per separation and Tables 10.6 and 10.7 present time series information on separations for selected procedures.

Tables are presented with summary separation, patient day and average length of stay statistics for public and private hospitals and for public patients, nationally and by state and territory. National information on age group and sex distributions is presented, as well as procedure statistics by Indigenous status. The 30 ICD-10-AM procedure blocks with the highest number of separations are also presented. Information on ‘public’ patients in Tables 10.1 to 10.2 and Tables 10.10 to 10.14 relates to separations for which the patient election status was reported as public (see Chapter 7).

Data for private hospitals in Tasmania, the Australian Capital Territory and the Northern Territory have not been included in Tables 10.4, 10.5, 10.9, 10.16 and 10.18. The data were supplied but are not published for confidentiality reasons.

Overall, there were 5.5 million separations for which a procedure was reported, 80.6% of total separations. Almost 19.3 million patient days were reported for separations with a procedure, accounting for 81.6% of the total (Tables 10.1 and 10.2).

Procedures and other data elements reported for separations

The information on procedures reported in this chapter is compiled in the National Hospital Morbidity Database with a range of other data. Figure 10.1 demonstrates this using the example of procedure block 671 *Transluminal coronary angioplasty with stenting* and other data elements in the National Hospital Morbidity Database. There were 29,543 separations for which this procedure was reported, with an average length of stay of 3.5 days. Almost 51% of separations were admitted in private hospitals. The majority of separations (91.3%) with this procedure had a separation mode of *Other*, suggesting that these patients went home after separation from the hospital. The principal diagnosis mostly associated with this procedure was *Angina pectoris* (I20) with 11,427 separations, and the most commonly reported AR-DRG was *Percutaneous coronary intervention without acute myocardial infarction with stent implantation* (F15Z) with 19,592 separations. There were significantly more separations for males than females, with males accounting for 74.0% of separations. The majority of separations (78.6%) were for patients aged 55 years and over.

ICD-10-AM chapters

Tables 10.1 to 10.4 provide separation and procedure statistics reported for each of the ICD-10-AM procedure chapters. Tables 10.1 and 10.2 present separation and procedure statistics by hospital sector, and Tables 10.3 and 10.4 present separations reported for each

ICD-10-AM procedure chapter by sector, states and territories. If a separation had two block numbers within the same chapter, it was only counted once.

Sector

Public hospitals accounted for 56.1% of the separations for which a procedure was reported, although they accounted for 61.4% of the separations overall. Similarly, although 69.6% of overall patient days were in public hospitals, only 66.9% of patient days associated with procedures were in public hospitals. In public hospitals, 73.6% of total separations involved a procedure (3,090,306) and these separations were associated with 78.4% of total patient days (Table 10.1). In contrast, 91.7% of total separations in private hospitals involved a procedure (2,421,265), and these separations were associated with 88.9% of total patient days (Table 10.2). About 86.1% of separations with a procedure in public hospitals were for public patients, in contrast to 3.1% in private hospitals.

The private sector reported a higher proportion of separations for same day procedures than the public sector. About 54.1% (1,671,941) of separations for which a procedure was reported were same day in public hospitals, compared with 65.4% (1,583,086) in private hospitals (Tables 10.1 and 10.2).

The highest numbers of separations in both the public and private sectors was for *Non-invasive, cognitive and interventions, not elsewhere classified* (Blocks 1820–1916). This chapter also accounted for the highest numbers of patient days in the public sector and the private sector.

After *Non-invasive, cognitive and other interventions, not elsewhere classified* (Blocks 1820–1916) (1,931,003), the chapter that accounted for the largest number of separations in public hospitals was *Procedures on urinary system* (Blocks 1040–1129), which includes haemodialysis. There were 737,505 separations for which procedures in this chapter were reported, accounting for 1,257,819 patient days. This group of procedures also accounted for a large number of same day separations (675,901) and public patient separations (654,996). Other chapters that accounted for a large number of separations in public hospitals were *Procedures on digestive system* (Blocks 850–1011) with 377,721 separations, and *Imaging services* (Blocks 1940–2016) with 350,013 separations.

Within the private sector, *Procedures on digestive system* (Blocks 850–1011), which includes colonoscopy, was the group of procedures that accounted for the largest number of separations after *Non-invasive, cognitive and other interventions, not elsewhere classified* (Blocks 1820–1916) (1,898,709 separations). There were 565,809 separations for which procedures in this chapter were reported, accounting for 1,080,488 patient days. This group of procedures also accounted for a large number of same day separations (436,485). Other chapters that accounted for a large number of separations in private hospitals were *Procedures on musculoskeletal system* (Blocks 1360–1579) with 242,295 separations and *Procedures on urinary system* (Blocks 1040–1129) with 234,530 separations.

States and territories

Tables 10.3 and 10.4 describe the pattern of hospital use in the states and territories by procedure chapter, in both the public and private sectors. These tables enable state by state comparisons of overall hospital use for the different procedure chapters and the share of separations between the private and public sectors. For example, the proportion of total

separations for *Procedures on urinary system* (Blocks 1040–1129) performed in public hospitals in comparison to private hospitals was higher in Victoria (222,655 public sector separations or 82.2% of combined separations) than in Queensland (113,782 public sector separations or 63.8% of combined separations). Similarly, the proportion of total separations for *Procedures on eye and adnexa* (Blocks 160–256) performed in private hospitals in comparison to public hospitals was higher in Queensland (32,096 private sector separations, representing 78.1% of combined separations) than in Victoria (27,464 private sector separations, or 56.3%).

Number of procedure codes

Table 10.5 presents information on the number of procedure codes reported to the National Hospital Morbidity Database. Ideally, the number of procedures recorded for a patient should reflect the procedures undertaken, and not be restricted by administrative or technical limitations. There were marked differences between the states and territories in the maximum number of procedures reported, ranging from 66 procedures for Western Australia to 25 for South Australia. However, with the exception of the Northern Territory, the average number of procedure codes per separation in the public sector varied little among the jurisdictions. For the private sector there was also little variation in the average number of procedure codes per separation among the jurisdictions. The AIHW requested a maximum of 50 codes, so this may have restricted the number of codes reported by Queensland, New South Wales, Tasmania and Western Australia.

In recent years there has been a trend in both sectors to increased reporting of five or more procedure codes for a separation. In the public sector, 7.2% of records had five or more procedure codes in 2003–04 compared with 6.9% in 2002–03 and 5.8% in 2001–02 (AIHW 2003, 2004a). In the private sector, 8.2% of records had five or more procedure codes in 2003–04 compared with 7.6% in 2002–03 and 5.3% in 2001–02. The higher rate of recording five or more procedures in the private sector than in the public sector may be due to differences in coding practices between the sectors.

Selected procedures

Tables 10.6 and 10.7 present the number of separations for selected procedures from 1999–00 to 2003–04 and the change in separations over this period, by hospital sector and patient election status. The selected procedures have been identified as performance indicators related to appropriateness and may also be indicators of accessibility. The ICD-10-AM codes used to define the procedures are listed in Appendix 3. More information and statistics on the selected procedures and other hospital performance indicators can be found in Chapter 4.

Changes in separations reported for each of the selected procedures between 1999–00 and 2003–04 varied between the hospital sectors. For example, the number of private sector separations for *Diagnostic gastrointestinal endoscopy* increased by 25.2% (75,189 separations) between 1999–00 and 2003–04, compared with a decrease of 6.9% (13,861 separations) in the public sector over the same period (Table 10.6). Overall, the reported number of separations increased for all but one of the selected procedures between 1999–00 and 2003–04 in the private sector and increased for seven of the 15 selected procedures in the public sector. A decrease in the number of separations over the 5-year period for *Coronary artery bypass graft*

was reported for both sectors, with private sector separations decreasing by 485 and public sector separations decreasing by 1,356. These changes would have been affected by the recategorisation of two New South Wales hospitals from private to public between 2002–03 and 2003–04 (see Appendix 4).

Table 10.7 presents the number of separations and change in separations for selected procedures from 1999–00 to 2003–04, by patient election status, for all hospitals. Due to a small proportion of separations whose 'Patient election status' was not reported (less than 5% of all separations in each year), the overall changes by selected procedure in Table 10.7 are slightly different to those presented in Table 10.6.

Variations between private and public patients in changes in separations for the selected procedures over the 5-year period were similar to those identified between hospital sectors. For example, private patient separations increased for 14 of the 15 selected procedures between 1999–00 and 2003–04, whereas public patient separations increased for six of the selected procedures over the same period. A notable difference between private and public patients was for *Coronary angioplasty*, with private patient separations increasing by 77.7% (8,028 separations) between 1999–00 and 2003–04, compared with an increase in public patient separations of 26.5% (2,689 separations) over the same period.

Total procedures

Tables 10.8 and 10.9 provide counts of all the procedures reported for 2003–04, by state and territory for the public and private sectors. The totals are the total number of procedures, rather than the total number of separations for which a procedure was reported, as presented elsewhere in this chapter. A total of 13.2 million procedures were reported, 7.2 million in the public sector and 6.0 million in the private sector. The most commonly reported procedure chapter in both public and private hospitals was *Non-invasive, cognitive and other interventions, not elsewhere classified* (Blocks 1820–1916) (5,901,041 procedures in total). A block which accounted for many of these procedures was *Cerebral anaesthesia* (Block 1910), 44.5% of the chapter overall (2,624,932 procedures) (Tables 10.11 to 10.13). The next most common procedure chapters for both sectors combined were *Procedures on digestive system* (Blocks 850–1011) (1,241,950) and *Procedures on urinary system* (Blocks 1040–1129) (1,041,722).

After *Non-invasive, cognitive and other interventions, not elsewhere classified* (Blocks 1820–1916), the most commonly reported procedure chapter in public hospitals was *Procedures on urinary system* (Blocks 1040–1119) with 770,198 procedures. In private hospitals, it was *Procedures on digestive system* (Blocks 850–1011) with 738,948 procedures.

High-volume procedures

Tables 10.10 to 10.20 present information on the most common procedures (at the block level of the ICD-10-AM classification).

Sector

Tables 10.10 and 10.11 contain summary separation, patient day and average length of stay statistics for the 30 blocks with the highest number of overnight separations in public and private hospitals, and Tables 10.12 and 10.13 contain summary separation statistics for same day separations. Table 10.14 contains summary separation, patient day and average length of

stay statistics for the procedure blocks with the most separations in private free-standing day hospitals only.

In the public sector, the most common procedure blocks for overnight separations were *Generalised allied health interventions* (Block 1916) (732,840) and *Cerebral anaesthesia* (Block 1910) (532,846) (Table 10.10). The average length of stay for separations reporting each of these procedure blocks was 11.8 and 6.5 days respectively. Both these procedure blocks also accounted for the highest number of patient days for separations with procedures, with 8,641,575 patient days for *Generalised allied health interventions* (Block 1916) and 3,441,426 patient days for *Cerebral anaesthesia* (Block 1910). *Haemodialysis* (Block 1060) was the most frequently reported procedure for same day separations in the public sector (622,142), followed by *Cerebral anaesthesia* (Block 1910) (529,625) (Table 10.12).

Cerebral anaesthesia (Block 1910) was the most frequently reported procedure for overnight separations in private hospitals (500,735) (Table 10.11), and also the most frequently reported procedure for same day separations (966,859) (Table 10.13).

Cerebral anaesthesia (Block 1910) was the most frequently reported procedure group in private free-standing day hospitals (286,041 separations), followed by *Panendoscopy with excision* (Block 1008) (65,598 separations) (Table 10.14). Public patient separations accounted for 35.6% (13,124) of the separations for *Haemodialysis* (Block 1060) in private free-standing day hospitals.

States and territories

There was some variation between the states and territories in the relative number of separations for the most common procedure blocks (Tables 10.15 and 10.16). In the public sector, for example, the proportion of separations for which *Haemodialysis* (Block 1060) was reported was greatest for the Northern Territory (40.5%, 28,410) and lowest in South Australia (11.5%, 43,518). The number of separations for *Chemotherapy administration* (Block 1780) was lower in New South Wales (8,452) than in other comparable states such as Victoria (60,004). This is because most chemotherapy patients in New South Wales public hospitals are outpatients rather than admitted patients. In the private sector, Victoria had relatively high numbers of separations with *Panendoscopy* (Block 1005) (19,957).

There was also some variation between the states and territories in the average length of stay for separations reporting the most common procedure blocks (Tables 10.17 and 10.18). For example, in the public sector, the average length of stay for separations with *Coronary angiography* (Block 668) ranged from 2.6 days in the Australian Capital Territory to 6.3 days in New South Wales and 8.5 days in the Northern Territory (Table 10.17). Overall, there was a much smaller variation in average lengths of stay within the private sector for those blocks reported, but there was still some variation. For example, the average length of stay for separations with *Psychological/psychosocial therapies* (Block 1873) ranged from 2.4 days in Western Australia to 13.5 days in South Australia (Table 10.18).

Age group and sex

There was little difference between males and females in the proportion of separations with procedures, with 81.2% for males (2,592,779) and 80.0% for females (2,918,740) (Tables 10.19 and 10.20). Besides the more sex-specific procedures such as *Caesarean section* (Block 1340) and *Postpartum suture* (Block 1344), most of the top 30 procedures were common to both

sexes. For both males and females, the group of procedures with the most separations was *Cerebral anaesthesia* (Block 1910), with the most separations for this group of procedures in the 55–64 years age group for males and the 45–54 age group for females.

For both males and females, the highest number of separations with procedures was reported for the 65–74 years age group, with 498,827 (19.2%) separations for males and 431,118 (14.8%) separations for females (Tables 10.19 and 10.20).

Indigenous status

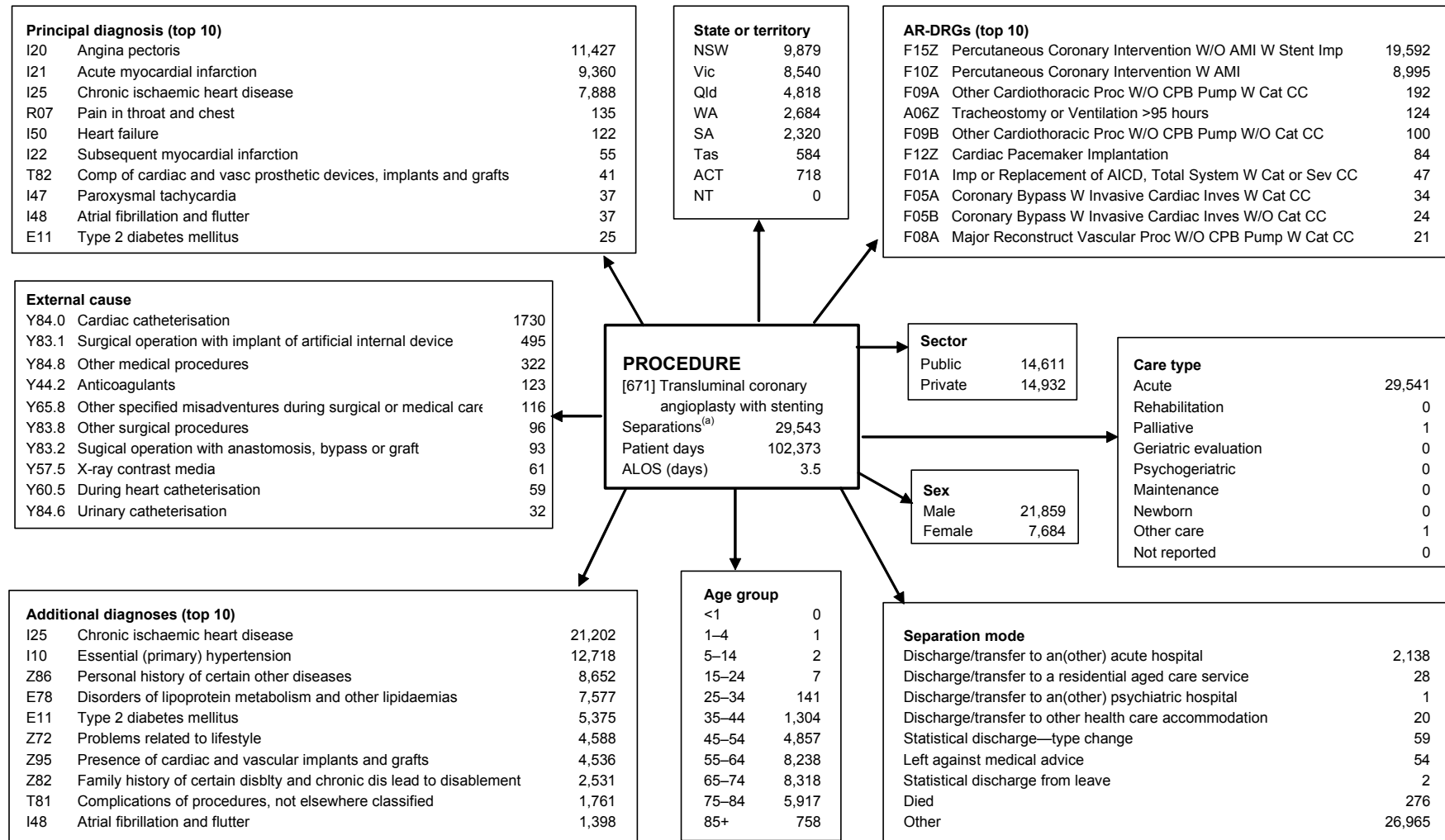
Table 10.21 contains a comparison between patients identified as Indigenous and patients not identified as Indigenous for each of the ICD-10-AM procedure chapters, including information on procedures per 1,000 population. *Procedures on urinary system* (Blocks 1040–1128) was the most frequently reported procedure chapter for Indigenous patients (86,406). For *Haemodialysis* (Block 1060), the number of procedures per 1,000 population for persons identified as Indigenous was eight times that for other persons. For *Procedures on respiratory system* (Blocks 520–569), the rate for persons identified as Indigenous was 2.4 times that for other persons and for *Procedures on ear and mastoid process* (Blocks 300–333) the rate was 1.7 times that of other persons. Some chapters for which the rate for Indigenous persons was less than that for other persons included *Procedures on endocrine system* (Blocks 110–129), *Procedures on nose, mouth and pharynx* (Blocks 370–422) and *Gynaecological procedures* (Blocks 1240–1299).

Although the overall number of procedures per 1,000 population was higher for Indigenous persons, Figure 10.2 shows the proportion of separations with a procedure by ICD-10-AM diagnosis chapter was lower for Indigenous patients than for other patients for almost all of the diagnosis chapters. For example, for *Diseases of the nervous system* (G00–G99), 39.2% of separations for Indigenous patients had a procedure reported, compared with 78.5% of separations for other patients. *Certain conditions originating in the perinatal period* (P00–P96) and *Factors influencing health status and contact with health services* (Z00–Z99) were the only chapters for which the proportion of separations with procedures was higher for Indigenous patients. These differences may be affected by the pattern of principal diagnoses reported within chapters.

Additional data

The accompanying tables on the Internet at <http://www.aihw.gov.au/> provide information on the number of separations by 5-year age group and ICD-10-AM procedure block for males and females. There are also national summary statistics for public and private hospitals for each procedure block, for overnight and same day separations (as presented for the top 30 procedure blocks in Tables 10.10 to 10.13).

For access to more procedure data, the Institute's web site also contains an Interactive National Hospital Morbidity Data page which contains links to a number of data cubes containing information on the procedures performed on patients admitted to Australian hospitals. Data in the form of counts of procedures are available on all procedures performed by age group, sex and same day status. Procedure information is available at the broader ICD-10-AM chapter level through to the more specific seven digit procedure code level. The source of these data is the National Hospital Morbidity Database.



Note: Main abbreviations: ALOS—average length of stay; Proc—procedure; W—with; W/O—without; Cat—catastrophic; CC—complication or comorbidity; Imp—implantation; Sev—severe; AMI—acute myocardial infarction.

(a) Separations for which the care type was reported as *Newborn* with no qualified days, and records for *Hospital boarders* and *Posthumous organ procurement* have been excluded.

Figure 10.1: Interrelationships of a procedure (Block 671 Transluminal coronary angioplasty with stenting) with other data elements, all hospitals, Australia, 2003–04

Table 10.1: Separation^(a) and procedure statistics, by procedure in ICD-10-AM chapters, public hospitals, Australia, 2003–04

Procedure chapters		Separations	Same day separations	Public patient separations	Separations	Patient days	Patient days	ALOS (days)	ALOS (days)
					per 10,000 population ^(b)		per 10,000 population ^(b)		excluding same day
1–86	Procedures on nervous system	66,114	27,001	54,399	33.1	438,749	219.4	6.6	10.5
110–129	Procedures on thyroid and parathyroid glands	5,657	199	4,876	2.8	26,457	13.2	4.7	4.8
160–256	Procedures on eye and adnexa	67,996	56,340	52,138	34.0	110,205	55.1	1.6	4.6
300–333	Procedures on ear and mastoid process	25,585	16,946	21,959	12.8	56,283	28.1	2.2	4.6
370–422	Procedures on nose, mouth and pharynx	47,210	14,292	40,012	23.6	102,500	51.3	2.2	2.7
450–490	Dental services	29,375	24,724	22,855	14.7	92,600	46.3	3.2	14.6
520–569	Procedures on respiratory system	76,392	16,668	62,600	38.2	996,192	498.2	13.0	16.4
600–767	Procedures on cardiovascular system	160,547	36,960	133,190	80.3	1,543,647	771.9	9.6	12.2
800–817	Procedures on blood and blood-forming organs	27,912	10,054	23,219	14.0	212,628	106.3	7.6	11.3
850–1011	Procedures on digestive system	377,721	199,490	327,109	188.9	1,566,447	783.3	4.1	7.7
1040–1129	Procedures on urinary system	737,505	675,901	654,996	368.8	1,257,819	629.0	1.7	9.4
1160–1203	Procedures on male genital organs	35,868	19,297	30,670	17.9	92,480	46.2	2.6	4.4
1240–1299	Gynaecological procedures	144,518	95,153	125,684	72.3	288,571	144.3	2.0	3.9
1330–1347	Obstetric procedures	162,188	8,296	148,330	81.1	605,676	302.9	3.7	3.9
1360–1579	Procedures on musculoskeletal system	209,041	61,829	172,005	104.5	1,155,613	577.9	5.5	7.4
1600–1718	Dermatological and plastic procedures	167,692	84,762	141,992	83.9	910,052	455.1	5.4	10.0
1740–1759	Procedures on breast	18,143	8,307	16,139	9.1	48,463	24.2	2.7	4.1
1780–1799	Chemotherapeutic and radiation oncology procedures	150,810	124,690	131,569	75.4	388,542	194.3	2.6	10.1
1820–1916	Non-invasive, cognitive and other interventions, not elsewhere classified	1,931,003	743,622	1,632,992	965.6	11,092,202	5,546.7	5.7	8.7
1940–2016	Imaging services	350,013	53,921	285,108	175.0	3,427,637	1,714.0	9.8	11.4
	<i>Procedure reported^(c)</i>	<i>3,090,306</i>	<i>1,671,941</i>	<i>2,659,370</i>	<i>1,545.3</i>	<i>12,879,873</i>	<i>6,440.6</i>	<i>4.2</i>	<i>7.9</i>
	No procedure or not reported	1,110,189	385,223	986,998	555.2	3,538,608	1,769.5	3.2	4.3
Total^(c)		4,200,495	2,057,164	3,646,368	2,100.5	16,418,481	8,210.1	3.9	6.7

(a) Separations for which the care type was reported as *Newborn* with no qualified days, and records for *Hospital boarders* and *Posthumous organ procurement* have been excluded.

(b) Crude rate based on Australian population as at 31 December 2003.

(c) As more than one procedure can be reported for each separation, the totals are not the sums of the rows of the table.

Note: Abbreviation: ALOS—average length of stay.

Table 10.2: Separation^(a) and procedure statistics, by procedure in ICD-10-AM chapters, private hospitals, Australia, 2003–04

Procedure chapters		Separations	Same day separations	Public patient separations	Separations per 10,000 population ^(b)	Patient days	Patient days per 10,000 population ^(b)	ALOS (days)	ALOS (days) excluding same day
1–86	Procedures on nervous system	72,546	38,408	727	36.3	257,327	128.7	3.5	6.4
110–129	Procedures on thyroid and parathyroid glands	5,607	82	45	2.8	18,179	9.1	3.2	3.3
160–256	Procedures on eye and adnexa	136,396	121,019	3,030	68.2	142,985	71.5	1.0	1.4
300–333	Procedures on ear and mastoid process	26,266	18,891	279	13.1	31,556	15.8	1.2	1.7
370–422	Procedures on nose, mouth and pharynx	58,837	20,290	695	29.4	75,604	37.8	1.3	1.4
450–490	Dental services	85,885	80,963	130	42.9	89,917	45.0	1.0	1.8
520–569	Procedures on respiratory system	25,721	6,846	379	12.9	202,746	101.4	7.9	10.4
600–767	Procedures on cardiovascular system	115,814	31,263	1,403	57.9	598,082	299.1	5.2	6.7
800–817	Procedures on blood and blood-forming organs	18,249	5,432	154	9.1	93,000	46.5	5.1	6.8
850–1011	Procedures on digestive system	565,809	436,485	6,947	282.9	1,080,488	540.3	1.9	5.0
1040–1129	Procedures on urinary system	234,530	189,772	39,397	117.3	441,654	220.9	1.9	5.6
1160–1203	Procedures on male genital organs	50,164	27,615	763	25.1	126,454	63.2	2.5	4.4
1240–1299	Gynaecological procedures	177,543	135,129	2,202	88.8	299,525	149.8	1.7	3.9
1330–1347	Obstetric procedures	74,199	1,662	2,385	37.1	372,288	186.2	5.0	5.1
1360–1579	Procedures on musculoskeletal system	242,295	100,433	2,659	121.2	834,146	417.1	3.4	5.2
1600–1718	Dermatological and plastic procedures	158,628	112,602	2,152	79.3	339,474	169.8	2.1	4.9
1740–1759	Procedures on breast	29,371	11,950	317	14.7	63,835	31.9	2.2	3.0
1780–1799	Chemotherapeutic and radiation oncology procedures	160,090	144,333	4,178	80.1	251,467	125.7	1.6	6.8
1820–1916	Non-invasive, cognitive and other interventions, not elsewhere classified	1,898,709	1,159,049	30,325	949.5	5,553,355	2777.0	2.9	5.9
1940–2016	Imaging services	108,484	22,881	2,670	54.2	906,542	453.3	8.4	10.3
	<i>Procedure reported^(c)</i>	2,421,265	1,583,086	75,760	1210.8	6,372,197	3186.5	2.6	5.7
	No procedure or not reported	219,432	71,217	11,205	109.7	792,535	396.3	3.6	4.9
Total^(c)		2,640,697	1,654,303	86,965	1,320.5	7,164,732	3,582.8	2.7	5.6

(a) Separations for which the care type was reported as *Newborn* with no qualified days, and records for *Hospital boarders* and *Posthumous organ procurement* have been excluded.

(b) Crude rate based on Australian population as at 31 December 2003.

(c) As more than one procedure can be reported for each separation, the totals are not the sums of the rows of the table.

Note: Abbreviation: ALOS—average length of stay.

Table 10.3: Separations^(a), by procedure in ICD-10-AM chapters, public hospitals, states and territories, 2003–04

Procedure chapters		NSW	Vic	Qld	WA	SA	Tas	ACT	NT	Total
1–86	Procedures on nervous system	19,893	18,515	10,268	7,572	6,853	1,356	1,003	654	66,114
110–129	Procedures on thyroid and parathyroid glands	2,033	1,589	997	385	430	109	86	28	5,657
160–256	Procedures on eye and adnexa	21,764	21,333	9,016	7,103	6,760	374	1,056	590	67,996
300–333	Procedures on ear and mastoid process	5,247	7,680	6,315	2,774	2,730	228	296	315	25,585
370–422	Procedures on nose, mouth and pharynx	11,679	15,482	8,923	4,318	5,284	488	692	344	47,210
450–490	Dental services	6,615	9,741	6,355	3,074	2,641	441	239	269	29,375
520–569	Procedures on respiratory system	25,824	20,099	13,666	6,386	6,551	1,695	1,288	883	76,392
600–767	Procedures on cardiovascular system	52,036	42,914	25,600	14,881	14,762	3,726	5,009	1,619	160,547
800–817	Procedures on blood and blood-forming organs	8,167	8,564	4,957	2,959	1,920	431	772	142	27,912
850–1011	Procedures on digestive system	125,757	105,333	56,721	38,628	35,255	6,005	6,720	3,302	377,721
1040–1129	Procedures on urinary system	211,443	222,655	113,782	75,094	52,805	14,867	17,727	29,132	737,505
1160–1203	Procedures on male genital organs	10,648	11,923	4,830	3,496	3,636	606	368	361	35,868
1240–1299	Gynaecological procedures	41,614	43,167	25,173	11,523	17,379	1,896	1,593	2,173	144,518
1330–1347	Obstetric procedures	54,920	39,565	32,112	16,345	11,689	2,831	2,651	2,075	162,188
1360–1579	Procedures on musculoskeletal system	68,982	55,202	36,261	20,241	17,480	4,165	4,116	2,594	209,041
1600–1718	Dermatological and plastic procedures	44,211	42,774	36,536	15,710	21,315	2,635	2,050	2,461	167,692
1740–1759	Procedures on breast	5,541	5,074	2,954	2,538	1,354	331	222	129	18,143
1780–1799	Chemotherapeutic and radiation oncology procedures	12,427	63,685	30,343	18,797	16,669	3,247	4,675	967	150,810
1820–1916	Non-invasive, cognitive and other interventions, not elsewhere classified	630,277	555,530	303,185	174,318	181,605	36,464	31,168	18,456	1,931,003
1940–2016	Imaging services	136,806	95,490	49,270	26,186	25,933	6,857	5,880	3,591	350,013
	<i>Procedure reported^(b)</i>	<i>927,576</i>	<i>908,313</i>	<i>506,930</i>	<i>294,053</i>	<i>283,066</i>	<i>59,524</i>	<i>58,985</i>	<i>51,859</i>	<i>3,090,306</i>
	No procedure or not reported	397,959	279,216	214,083	73,193	96,043	21,394	10,044	18,257	1,110,189
Total^(b)		1,325,535	1,187,529	721,013	367,246	379,109	80,918	69,029	70,116	4,200,495

(a) Separations for which the care type was reported as *Newborn* with no qualified days, and records for *Hospital boarders* and *Posthumous organ procurement* have been excluded.

(b) As more than one procedure can be reported for each separation, the totals are not the sums of the rows of the table.

Table 10.4: Separations^(a), by procedure in ICD-10-AM chapters, private hospitals, states and territories, 2003–04

Procedure chapters		NSW	Vic	Qld	WA	SA	Tas	ACT	NT	Total
1–86	Procedures on nervous system	18,411	16,639	13,668	12,053	8,197	n.p.	n.p.	n.p.	72,546
110–129	Procedures on thyroid and parathyroid glands	1,907	1,216	1,233	566	452	n.p.	n.p.	n.p.	5,607
160–256	Procedures on eye and adnexa	48,520	27,464	32,096	12,016	10,069	n.p.	n.p.	n.p.	136,396
300–333	Procedures on ear and mastoid process	7,989	5,412	4,940	3,649	3,258	n.p.	n.p.	n.p.	26,266
370–422	Procedures on nose, mouth and pharynx	19,280	12,058	11,584	7,079	6,360	n.p.	n.p.	n.p.	58,837
450–490	Dental services	23,869	22,416	16,652	12,596	6,865	n.p.	n.p.	n.p.	85,885
520–569	Procedures on respiratory system	6,558	5,537	7,476	2,297	2,856	n.p.	n.p.	n.p.	25,721
600–767	Procedures on cardiovascular system	34,068	31,784	27,153	8,790	8,821	n.p.	n.p.	n.p.	115,814
800–817	Procedures on blood and blood-forming organs	4,691	3,963	5,486	1,652	1,459	n.p.	n.p.	n.p.	18,249
850–1011	Procedures on digestive system	164,797	155,447	137,942	52,216	36,897	n.p.	n.p.	n.p.	565,809
1040–1129	Procedures on urinary system	52,497	48,086	64,514	38,260	25,539	n.p.	n.p.	n.p.	234,530
1160–1203	Procedures on male genital organs	16,759	11,755	9,477	5,350	3,837	n.p.	n.p.	n.p.	50,164
1240–1299	Gynaecological procedures	51,291	49,945	43,005	15,405	10,514	n.p.	n.p.	n.p.	177,543
1330–1347	Obstetric procedures	20,109	18,385	16,433	10,183	4,890	n.p.	n.p.	n.p.	74,199
1360–1579	Procedures on musculoskeletal system	70,554	60,332	43,915	30,249	24,712	n.p.	n.p.	n.p.	242,295
1600–1718	Dermatological and plastic procedures	45,761	35,502	36,192	16,691	16,805	n.p.	n.p.	n.p.	158,628
1740–1759	Procedures on breast	8,532	6,957	6,695	3,406	2,329	n.p.	n.p.	n.p.	29,371
1780–1799	Chemotherapeutic and radiation oncology procedures	29,230	45,236	46,753	18,207	13,806	n.p.	n.p.	n.p.	160,090
1820–1916	Non-invasive, cognitive and other interventions, not elsewhere classified	565,265	459,854	467,066	190,208	140,226	n.p.	n.p.	n.p.	1,898,709
1940–2016	Imaging services	27,051	26,644	28,523	12,548	8,850	n.p.	n.p.	n.p.	108,484
	<i>Procedure reported^(b)</i>	<i>677,146</i>	<i>606,953</i>	<i>584,007</i>	<i>266,493</i>	<i>190,917</i>	<i>n.p.</i>	<i>n.p.</i>	<i>n.p.</i>	<i>2,421,265</i>
	No procedure or not reported	34,999	73,853	56,040	23,700	15,294	n.p.	n.p.	n.p.	219,432
Total^(b)		712,145	680,806	640,047	290,193	206,211	n.p.	n.p.	n.p.	2,640,697

(a) Separations for which the care type was reported as *Newborn* with no qualified days, and records for *Hospital boarders* and *Posthumous organ procurement* have been excluded.

(b) As more than one procedure can be reported for each separation, the totals are not the sums of the rows of the table.

n.p. Not published.

Table 10.5: Separations^(a), by number of procedures reported and hospital sector, states and territories, 2003–04

Hospital sector	NSW	Vic	Qld	WA	SA	Tas	ACT	NT	Total
	Number								
Public hospitals									
Separations ^{(a)(b)}	1,325,535	1,187,529	721,013	367,246	379,109	80,918	69,029	70,116	4,200,495
No procedure reported	397,959	279,216	214,083	73,193	96,043	21,394	10,044	18,257	1,110,189
One procedure code only	363,027	412,377	236,236	134,629	129,582	29,822	30,956	35,338	1,371,967
Two procedure codes only	248,465	239,140	129,918	74,361	77,628	13,904	13,110	8,578	805,104
Three procedure codes only	141,548	113,399	63,920	37,546	37,210	6,832	6,326	3,845	410,626
Four procedure codes only	69,142	57,470	30,447	18,930	16,605	3,394	3,269	1,666	200,923
Five or more procedure codes	105,394	85,927	46,409	28,587	22,041	5,572	5,324	2,432	301,686
Mean procedure codes per separation ^(c)	2.5	2.3	2.3	2.3	2.2	2.2	2.2	1.7	2.3
Maximum number of procedure codes	50	40	50	66	25	50	31	30	..
Private hospitals									
Separations ^{(a)(b)}	712,145	680,806	640,047	290,193	206,211	n.p.	n.p.	n.p.	2,640,697
No procedure reported	34,999	73,853	56,040	23,700	15,294	n.p.	n.p.	n.p.	219,432
One procedure code only	132,976	166,214	150,118	79,557	49,747	n.p.	n.p.	n.p.	598,893
Two procedure codes only	274,249	246,124	237,779	92,877	67,368	n.p.	n.p.	n.p.	958,915
Three procedure codes only	154,023	105,159	108,511	46,570	35,487	n.p.	n.p.	n.p.	468,723
Four procedure codes only	55,941	40,215	38,012	20,144	15,795	n.p.	n.p.	n.p.	177,535
Five or more procedure codes	59,957	49,241	49,587	27,345	22,520	n.p.	n.p.	n.p.	217,199
Mean procedure codes per separation ^(c)	2.6	2.4	2.4	2.5	2.6	n.p.	n.p.	n.p.	2.5
Maximum number of procedure codes	20	40	50	49	25	n.p.	n.p.	n.p.	..
Per cent									
Public hospitals									
No procedure reported	30.0	23.5	29.7	19.9	25.3	26.4	14.6	26.0	26.4
One procedure code only	27.4	34.7	32.8	36.7	34.2	36.9	44.8	50.4	32.7
Two procedure codes only	18.7	20.1	18.0	20.2	20.5	17.2	19.0	12.2	19.2
Three procedure codes only	10.7	9.5	8.9	10.2	9.8	8.4	9.2	5.5	9.8
Four procedure codes only	5.2	4.8	4.2	5.2	4.4	4.2	4.7	2.4	4.8
Five or more procedure codes	8.0	7.2	6.4	7.8	5.8	6.9	7.7	3.5	7.2
Private hospitals									
No procedure reported	4.9	10.8	8.8	8.2	7.4	n.p.	n.p.	n.p.	8.3
One procedure code only	18.7	24.4	23.5	27.4	24.1	n.p.	n.p.	n.p.	22.7
Two procedure codes only	38.5	36.2	37.2	32.0	32.7	n.p.	n.p.	n.p.	36.3
Three procedure codes only	21.6	15.4	17.0	16.0	17.2	n.p.	n.p.	n.p.	17.7
Four procedure codes only	7.9	5.9	5.9	6.9	7.7	n.p.	n.p.	n.p.	6.7
Five or more procedure codes	8.4	7.2	7.7	9.4	10.9	n.p.	n.p.	n.p.	8.2

(a) Separations for which the care type was reported as *Newborn* with no qualified days, and records for *Hospital boarders* and *Posthumous organ procurement* have been excluded.

(b) Includes separations for which no procedure codes were reported.

(c) Means are for separations with one or more procedures.

Note: AIHW requested up to 50 procedure codes to be reported.

n.p. Not published.

.. Not applicable.

Table 10.6: Separations^{(a)(b)} for selected procedures^(c), by hospital sector, Australia, 1999–00 to 2003–04

Procedure	Private hospitals					Change 1999–00 to 2003–04	Public hospitals					Change 1999–00 to 2003–04
	1999–00	2000–01	2001–02	2002–03	2003–04		1999–00	2000–01	2001–02	2002–03	2003–04	
Appendectomy	6,624	7,666	7,241	7,380	7,001	377	19,889	19,379	19,408	19,495	19,918	29
Coronary artery bypass graft	7,068	7,046	7,173	6,780	6,583	–485	10,234	9,650	9,102	9,142	8,878	–1,356
Coronary angioplasty	9,089	10,116	11,636	13,943	15,674	6,585	11,487	12,006	12,183	13,598	15,530	4,043
Caesarean section	18,205	20,644	24,504	27,348	28,483	10,278	37,855	39,673	39,838	41,914	44,806	6,951
Cholecystectomy	17,779	20,712	21,337	21,257	20,996	3,217	26,688	25,492	24,582	24,627	25,322	–1,366
Diagnostic gastrointestinal endoscopy	298,680	342,464	349,979	367,946	373,869	75,189	200,716	198,577	190,521	191,636	186,855	–13,861
Hip replacement	11,056	12,441	14,229	15,003	15,660	4,604	11,203	11,227	11,821	12,274	12,818	1,615
Revision of hip replacement	1,651	1,842	1,983	1,986	2,111	460	1,227	1,152	1,282	1,284	1,404	177
Hysterectomy, females aged 15–69	13,339	15,518	17,303	16,262	15,587	2,248	17,251	15,605	14,163	13,483	13,624	–3,627
Lens insertion	84,957	92,364	98,522	105,660	109,324	24,367	39,052	40,385	43,387	46,379	47,001	7,949
Myringotomy	17,281	18,033	18,193	17,922	17,855	574	17,753	16,203	15,076	14,691	14,122	–3,631
Knee replacement	11,880	13,590	16,350	17,579	18,812	6,932	7,520	7,440	8,361	8,851	9,476	1,956
Prostatectomy	13,408	14,133	14,601	15,020	16,224	2,816	10,186	9,885	9,483	9,214	9,359	–827
Arthroscopic procedures (includes arthroscopies)	77,326	83,007	87,326	87,217	90,236	12,910	29,738	27,023	25,641	24,483	24,224	–5,514
Tonsillectomy	14,211	14,222	18,153	17,661	17,430	3,219	18,345	15,963	15,713	15,428	15,163	–3,182
Total^(d)	599,291	670,156	704,607	735,021	751,676	152,385	456,736	447,399	438,040	443,973	445,757	–10,979

(a) Separations for which the care type was reported as *Newborn* with no qualified days, and records for *Hospital boarders* and *Posthumous organ procurement* have been excluded.

(b) Excludes multiple procedures for the same separation within the same group.

(c) The procedures are defined using ICD-10-AM codes. See Appendix 3.

(d) As more than one procedure can be reported for each separation, the totals are not the sums of the rows of the table.

Table 10.7: Separations^{(a)(b)} for selected procedures^(c), by patient election status, Australia, 1999–00 to 2003–04

Procedure	Private patients					Change 1999–00 to 2003–04	Public patients					Change 1999–00 to 2003–04
	1999–00	2000–01	2001–02	2002–03	2003–04		1999–00	2000–01	2001–02	2002–03	2003–04	
Appendectomy	7,790	9,681	9,259	9,354	9,414	1,624	18,419	17,176	17,211	17,366	17,438	–981
Coronary artery bypass graft	8,488	8,415	8,430	8,036	7,690	–798	8,679	8,207	7,825	7,875	7,753	–926
Coronary angioplasty	10,328	11,374	13,405	16,041	18,356	8,028	10,144	10,516	10,230	11,343	12,833	2,689
Caesarean section	20,983	23,498	28,195	31,010	32,673	11,690	34,557	36,358	35,799	37,935	40,518	5,961
Cholecystectomy	19,130	21,621	22,471	22,567	22,762	3,632	25,154	24,192	23,181	23,129	23,545	–1,609
Diagnostic gastrointestinal endoscopy	315,309	357,823	365,799	385,234	394,867	79,558	182,827	181,312	171,182	172,650	165,702	–17,125
Hip replacement	12,198	13,511	15,388	16,450	17,546	5,348	9,951	9,889	10,394	10,740	10,927	976
Revision of hip replacement	1,818	1,939	2,118	2,153	2,308	490	1,046	1,007	1,104	1,100	1,207	161
Hysterectomy, females aged 15–69	14,657	16,494	18,405	17,411	17,140	2,483	15,776	14,325	12,815	12,196	12,066	–3,710
Lens insertion	90,528	97,917	103,582	111,885	116,916	26,388	32,327	33,902	36,382	39,389	39,377	7,050
Myringotomy	19,677	20,155	20,000	20,024	19,966	289	15,266	13,835	13,023	12,488	12,002	–3,264
Knee replacement	12,149	13,679	16,415	17,834	19,465	7,316	7,130	7,081	8,091	8,542	8,822	1,692
Prostatectomy	14,485	14,834	15,214	15,728	17,178	2,693	9,055	8,947	8,641	8,404	8,399	–656
Arthroscopic procedures (includes arthroscopies)	78,849	83,520	88,203	89,102	92,616	13,767	27,565	25,103	23,835	22,328	21,817	–5,748
Tonsillectomy	16,489	16,042	19,910	19,592	19,650	3,161	15,952	13,935	13,843	13,449	12,942	–3,010
Total^(d)	639,288	706,671	742,603	778,151	803,988	164,700	411,795	403,809	391,388	396,769	392,995	–18,800

(a) Separations for which the care type was reported as *Newborn* with no qualified days, and records for *Hospital boarders* and *Posthumous organ procurement* have been excluded.

(b) Excludes multiple procedures for the same separation within the same group.

(c) The procedures are defined using ICD-10-AM codes. See Appendix 3.

(d) As more than one procedure can be reported for each separation, the totals are not the sums of the rows of the table.

Table 10.8: Number of procedures^(a), by ICD-10-AM chapter, public hospitals, states and territories, 2003–04

Procedure chapters	NSW	Vic	Qld	WA	SA	Tas	ACT	NT	Total
1–86 Procedures on nervous system	24,085	23,103	13,202	10,293	7,570	1,758	1,299	728	82,038
110–129 Procedures on thyroid and parathyroid glands	2,206	1,704	1,125	497	455	115	107	29	6,238
160–256 Procedures on eye and adnexa	25,243	24,384	10,683	8,295	7,591	424	1,132	713	78,465
300–333 Procedures on ear and mastoid process	6,165	8,825	7,051	3,149	3,015	272	343	353	29,173
370–422 Procedures on nose, mouth and pharynx	16,811	23,489	11,560	6,490	7,914	698	1,123	436	68,521
450–490 Dental services	31,201	31,662	32,763	15,278	11,466	2,097	811	1,175	126,453
520–569 Procedures on respiratory system	45,145	38,006	24,443	11,586	11,369	2,746	2,423	1,789	137,507
600–767 Procedures on cardiovascular system	91,848	73,223	44,949	26,583	23,868	7,122	7,735	2,476	277,804
800–817 Procedures on blood and blood-forming organs	8,753	8,927	5,308	3,189	2,044	451	804	145	29,621
850–1011 Procedures on digestive system	175,355	135,338	74,558	50,624	46,102	7,812	8,918	4,295	503,002
1040–1129 Procedures on urinary system	224,602	229,922	118,491	78,467	55,549	15,433	18,373	29,361	770,198
1160–1203 Procedures on male genital organs	11,415	12,687	5,522	3,817	3,939	664	427	383	38,854
1240–1299 Gynaecological procedures	66,083	70,095	38,520	19,287	24,433	2,484	2,563	2,687	226,152
1330–1347 Obstetric procedures	97,672	72,765	61,523	35,250	22,826	5,038	5,055	3,397	303,526
1360–1579 Procedures on musculoskeletal system	89,437	78,750	47,857	27,959	22,801	5,745	5,405	3,759	281,713
1600–1718 Dermatological and plastic procedures	65,086	64,916	56,755	24,651	32,158	3,909	2,965	3,781	254,221
1740–1759 Procedures on breast	7,231	6,381	3,842	3,579	1,627	447	249	151	23,507
1780–1799 Chemotherapeutic and radiation oncology procedures	13,942	67,380	32,351	19,902	18,848	3,312	4,815	973	161,523
1820–1916 Non-invasive, cognitive and other interventions, not elsewhere classified	1,142,406	979,359	500,313	297,483	280,985	63,733	54,458	28,419	3,347,156
1940–2016 Imaging services	190,052	129,448	63,164	34,446	32,899	9,299	7,938	4,551	471,797
Total procedures	2,334,738	2,080,364	1,153,980	680,825	617,459	133,559	126,943	89,601	7,217,469

(a) Separations for which the care type was reported as *Newborn* with no qualified days, and records for *Hospital boarders* and *Posthumous organ procurement* have been excluded.

Table 10.9: Number of procedures^(a), by ICD-10-AM chapter, private hospitals, states and territories, 2003–04

Procedure chapters		NSW	Vic	Qld	WA	SA	Tas	ACT	NT	Total
1–86	Procedures on nervous system	24,363	24,109	20,928	21,256	10,307	n.p.	n.p.	n.p.	106,027
110–129	Procedures on thyroid and parathyroid glands	2,094	1,315	1,353	670	491	n.p.	n.p.	n.p.	6,182
160–256	Procedures on eye and adnexa	56,082	30,518	39,621	14,098	11,583	n.p.	n.p.	n.p.	158,679
300–333	Procedures on ear and mastoid process	9,208	6,037	5,598	4,088	3,734	n.p.	n.p.	n.p.	29,795
370–422	Procedures on nose, mouth and pharynx	35,665	20,321	20,958	12,600	13,513	n.p.	n.p.	n.p.	107,749
450–490	Dental services	79,521	59,579	58,136	52,471	26,888	n.p.	n.p.	n.p.	291,082
520–569	Procedures on respiratory system	9,063	8,487	11,250	3,316	4,369	n.p.	n.p.	n.p.	37,921
600–767	Procedures on cardiovascular system	67,176	59,414	54,345	15,540	16,833	n.p.	n.p.	n.p.	221,758
800–817	Procedures on blood and blood-forming organs	5,108	4,138	5,747	1,757	1,544	n.p.	n.p.	n.p.	19,364
850–1011	Procedures on digestive system	225,980	192,837	179,078	68,372	48,601	n.p.	n.p.	n.p.	738,948
1040–1129	Procedures on urinary system	66,508	54,133	71,525	42,506	29,029	n.p.	n.p.	n.p.	271,524
1160–1203	Procedures on male genital organs	17,692	12,433	10,050	5,656	4,113	n.p.	n.p.	n.p.	53,195
1240–1299	Gynaecological procedures	80,547	77,072	60,188	24,795	16,961	n.p.	n.p.	n.p.	271,233
1330–1347	Obstetric procedures	40,474	36,367	31,557	24,023	10,363	n.p.	n.p.	n.p.	150,590
1360–1579	Procedures on musculoskeletal system	99,036	88,309	59,695	42,021	37,051	n.p.	n.p.	n.p.	343,472
1600–1718	Dermatological and plastic procedures	85,333	68,297	81,064	30,863	34,109	n.p.	n.p.	n.p.	313,637
1740–1759	Procedures on breast	11,238	8,767	8,879	4,663	2,822	n.p.	n.p.	n.p.	38,098
1780–1799	Chemotherapeutic and radiation oncology procedures	29,667	47,737	49,478	19,071	15,065	n.p.	n.p.	n.p.	168,031
1820–1916	Non-invasive, cognitive and other interventions, not elsewhere classified	765,086	609,407	621,004	259,404	200,390	n.p.	n.p.	n.p.	2,553,885
1940–2016	Imaging services	33,969	34,340	37,384	15,940	10,899	n.p.	n.p.	n.p.	138,516
Total procedures		1,743,810	1,443,617	1,427,838	663,110	498,665	n.p.	n.p.	n.p.	6,019,686

(a) Separations for which the care type was reported as *Newborn* with no qualified days, and records for *Hospital boarders* and *Posthumous organ procurement* have been excluded.

n.p. Not published.

Table 10.10: Separation^(a) and procedure statistics for the 30 ICD-10-AM procedure blocks with the highest number of overnight separations, public hospitals, Australia, 2003–04

Procedure block	Separations	Public patient separations	Patient days	ALOS (days)	Total procedures reported
1916 Generalised allied health interventions	732,840	609,037	8,641,575	11.8	1,399,823
1910 Cerebral anaesthesia	532,846	447,592	3,441,426	6.5	598,031
1952 Computerised tomography of brain	108,031	86,197	1,337,644	12.4	110,930
1893 Transfusion of blood and gamma globulin	106,530	86,318	1,490,890	14.0	128,866
1909 Conduction anaesthesia	97,049	82,573	731,441	7.5	99,341
1885 Injection or infusion of therapeutic or prophylactic substance	68,896	57,052	930,808	13.5	89,663
1912 Postprocedural analgesia	60,520	50,489	518,367	8.6	62,244
1344 Postpartum suture	51,131	46,892	172,303	3.4	52,037
1340 Caesarean section	44,649	39,746	238,920	5.4	44,677
738 Venous catheterisation	44,292	36,303	964,010	21.8	50,109
1334 Medical or surgical induction of labour	42,934	39,141	174,426	4.1	44,022
1335 Medical or surgical augmentation of labour	41,035	38,211	139,845	3.4	41,118
1963 Computerised tomography of abdomen and pelvis	39,309	31,605	479,585	12.2	40,303
1333 Analgesia and anaesthesia during labour and caesarean section	34,550	31,096	150,095	4.3	34,640
668 Coronary angiography	30,155	24,786	200,445	6.6	30,524
2015 Magnetic resonance imaging	28,192	22,314	437,918	15.5	30,800
1962 Computerised tomography of abdomen	27,710	22,713	310,166	11.2	28,304
569 Continuous ventilatory support	27,419	22,018	584,969	21.3	53,362
965 Cholecystectomy	24,711	22,370	103,830	4.2	24,764
1960 Computerised tomography of chest	21,804	17,637	336,842	15.4	22,309
607 Examination procedures on ventricle	21,240	17,441	134,071	6.3	21,309
926 Appendectomy	19,836	17,035	80,393	4.1	19,922
1966 Other computerised tomography	19,502	15,989	252,461	12.9	20,200
1780 Chemotherapy administration	19,296	15,727	188,154	9.8	20,472
2006 Lung perfusion or ventilation study	18,838	14,954	223,287	11.9	18,940
1343 Other procedures associated with delivery	18,777	16,724	71,328	3.8	18,872
1008 Panendoscopy with excision	18,572	15,637	185,479	10.0	18,837
957 Examination of gallbladder or biliary tract	17,648	15,784	82,827	4.7	18,220
1341 Foetal monitoring	17,313	16,508	69,250	4.0	17,988
1635 Repair of wound of skin and subcutaneous tissue	16,425	12,293	134,978	8.2	19,543
Other	1,287,188	1,060,325	13,860,430	10.8	1,378,863
No procedure or not reported	724,966	634,192	3,153,383	4.3	..
Total^(b)	2,143,331	1,831,814	14,361,294	6.7	4,559,033

(a) Separations for which the care type was reported as *Newborn* with no qualified days, and records for *Hospital boarders* and *Posthumous organ procurement* have been excluded.

(b) As more than one procedure can be reported for each separation, the totals are not the sums of the rows of the table.

Note: A similar listing of all procedures in ICD-10-AM blocks is provided on the Internet at <http://www.aihw.gov.au>.

.. Not applicable.

Table 10.11: Separation^(a) and procedure statistics for the 30 ICD-10-AM procedure blocks with the highest number of overnight separations, private hospitals, Australia, 2003–04

Procedure block	Separations	Public patient separations	Patient days	ALOS (days)	Total procedures reported
1910 Cerebral anaesthesia	500,735	6,876	2,145,614	4.3	528,761
1916 Generalised allied health interventions	281,122	6,604	2,914,411	10.4	406,115
1909 Conduction anaesthesia	100,163	1,271	631,042	6.3	102,140
1912 Postprocedural analgesia	56,388	1,272	413,245	7.3	57,391
1893 Transfusion of blood and gamma globulin	52,723	849	604,199	11.5	59,816
668 Coronary angiography	32,505	0	142,578	4.4	32,874
1340 Caesarean section	28,463	670	172,088	6.0	28,470
607 Examination procedures on ventricle	27,713	0	118,190	4.3	27,769
1828 Sleep study	26,480	158	30,718	1.2	26,697
1333 Analgesia and anaesthesia during labour and caesarean section	24,390	607	125,653	5.2	24,418
1334 Medical or surgical induction of labour	22,239	772	110,482	5.0	22,736
1344 Postpartum suture	21,761	555	99,490	4.6	21,865
965 Cholecystectomy	20,760	610	65,034	3.1	20,793
990 Repair of inguinal hernia	20,373	304	35,491	1.7	20,444
1952 Computerised tomography of brain	17,563	783	234,625	13.4	17,990
412 Tonsillectomy or adenoidectomy	16,795	200	18,435	1.1	16,813
1518 Arthroplasty of knee	16,402	233	136,275	8.3	16,722
957 Examination of gallbladder or biliary tract	16,215	491	48,234	3.0	16,502
1885 Injection or infusion of therapeutic or prophylactic substance	15,781	498	180,549	11.4	17,817
1335 Medical or surgical augmentation of labour	15,561	556	73,266	4.7	15,585
1620 Excision of lesion of skin and subcutaneous tissue	15,454	149	59,235	3.8	29,014
986 Division of abdominal adhesions	14,871	276	106,684	7.2	15,040
1489 Arthroplasty of hip	13,695	183	132,022	9.6	13,749
671 Transluminal coronary angioplasty with stenting	13,561	0	44,962	3.3	13,862
1780 Chemotherapy administration	13,459	54	84,188	6.3	14,244
1343 Other procedures associated with delivery	12,655	226	61,075	4.8	12,692
1165 Transurethral prostatectomy	12,382	208	59,041	4.8	12,430
905 Fiberoptic colonoscopy	11,898	155	67,370	5.7	12,085
738 Venous catheterisation	11,649	160	229,278	19.7	12,879
1089 Examination procedures on bladder	11,546	158	52,794	4.6	11,620
Other	929,168	14,983	6,151,013	6.6	1,006,424
No procedure or not reported	148,215	8,291	721,318	4.9	..
Total^(b)	986,394	25,039	5,510,429	5.6	2,635,757

(a) Separations for which the care type was reported as *Newborn* with no qualified days, and records for *Hospital boarders* and *Posthumous organ procurement* have been excluded.

(b) As more than one procedure can be reported for each separation, the totals are not the sums of the rows of the table.

Note: A similar listing of all procedures in ICD-10-AM blocks is provided on the Internet at <http://www.aihw.gov.au>.

.. Not applicable.

Table 10.12: Separation^(a) and procedure statistics for the 30 ICD-10-AM procedure blocks with the highest number of same day separations, public hospitals, Australia, 2003–04

Procedure block	Separations	Public patient separations	Separations per 10,000 population ^(b)	Total procedures reported
1060 Haemodialysis	622,142	553,653	311.1	622,302
1910 Cerebral anaesthesia	529,625	449,730	264.8	530,355
1780 Chemotherapy administration	119,185	106,209	59.6	122,771
1885 Injection or infusion of therapeutic or prophylactic substance	64,183	56,076	32.1	67,431
1008 Panendoscopy with excision	57,688	50,479	28.8	57,951
905 Fibreoptic colonoscopy	56,830	50,212	28.4	56,866
1893 Transfusion of blood and gamma globulin	50,171	42,673	25.1	51,981
1620 Excision of lesion of skin and subcutaneous tissue	45,188	39,882	22.6	65,227
911 Fibreoptic colonoscopy with excision	41,586	36,863	20.8	42,919
197 Extracapsular crystalline lens extraction by phacoemulsification	41,460	32,624	20.7	41,472
1909 Conduction anaesthesia	40,648	33,500	20.3	40,760
1916 Generalised allied health interventions	36,007	32,869	18.0	50,680
1265 Curettage of uterus	34,935	30,929	17.5	34,957
1089 Examination procedures on bladder	25,203	22,822	12.6	25,209
1259 Examination procedures on uterus	24,729	21,600	12.4	24,748
1267 Evacuation of gravid uterus	24,275	20,969	12.1	24,954
1005 Panendoscopy	21,099	18,338	10.6	21,108
1952 Computerised tomography of brain	18,038	15,812	9.0	18,064
1890 Therapeutic interventions on cardiovascular system	17,677	15,701	8.8	17,909
668 Coronary angiography	12,382	10,219	6.2	12,393
458 Surgical removal of tooth	12,261	7,852	6.1	29,667
1275 Destruction procedures on cervix	11,996	10,752	6.0	12,785
1279 Examination procedures on vagina	11,584	10,872	5.8	11,608
309 Myringotomy	11,192	9,393	5.6	11,308
1635 Repair of wound of skin and subcutaneous tissue	11,178	9,620	5.6	12,060
457 Non-surgical removal of tooth	11,021	9,744	5.5	37,758
76 Release of carpal and tarsal tunnel	10,587	9,428	5.3	10,962
607 Examination procedures on ventricle	10,392	8,563	5.2	10,410
1907 Electroconvulsive therapy	10,164	9,610	5.1	10,164
1554 Other application, insertion or removal procedures on other musculoskeleta	10,155	8,668	5.1	10,635
Other	519,426	441,609	259.7	571,022
No procedure or not reported	385,223	352,806	192.6	..
Total^(c)	2,057,164	1,814,554	1,028.7	2,658,436

(a) Separations for which the care type was reported as *Newborn* with no qualified days, and records for *Hospital boarders* and *Posthumous organ procurement* have been excluded.

(b) Crude rate based on the Australian estimated resident population as at 31 December 2003.

(c) As more than one procedure can be reported for each separation, the totals are not the sums of the rows of the table.

Note: A similar listing of all procedures in ICD-10-AM blocks is provided on the Internet at <http://www.aihw.gov.au>.

.. Not applicable.

Table 10.13: Separation^(a) and procedure statistics for the 30 ICD-10-AM procedure blocks with the highest number of same day separations, private hospitals, Australia, 2003–04

Procedure block	Separations	Public patient separations	Separations per 10,000 population^(b)	Total procedures reported
1910 Cerebral anaesthesia	966,859	10,783	483.5	967,785
905 Fiberoptic colonoscopy	157,214	1,216	78.6	157,265
1008 Panendoscopy with excision	152,604	1,314	76.3	153,500
1780 Chemotherapy administration	140,952	3,974	70.5	146,850
1060 Haemodialysis	133,611	36,762	66.8	133,617
911 Fiberoptic colonoscopy with excision	123,325	1,449	61.7	126,710
197 Extracapsular crystalline lens extraction by phacoemulsification	90,673	2,476	45.3	90,700
1620 Excision of lesion of skin and subcutaneous tissue	78,475	916	39.2	129,655
1909 Conduction anaesthesia	67,512	2,150	33.8	68,131
458 Surgical removal of tooth	66,573	57	33.3	180,707
1267 Evacuation of gravid uterus	45,679	243	22.8	45,831
1885 Injection or infusion of therapeutic or prophylactic substance	44,402	2,562	22.2	51,015
1005 Panendoscopy	43,403	389	21.7	43,410
1916 Generalised allied health interventions	41,479	84	20.7	51,547
1265 Curettage of uterus	37,055	408	18.5	37,082
1890 Therapeutic interventions on cardiovascular system	32,221	223	16.1	32,327
1089 Examination procedures on bladder	31,293	842	15.6	31,300
1259 Examination procedures on uterus	29,552	288	14.8	29,565
1297 Procedures for reproductive medicine	27,936	365	14.0	28,337
1873 Psychological/psychosocial therapies	26,458	1	13.2	28,211
1517 Arthroscopic meniscectomy of knee with repair	24,455	146	12.2	24,869
1893 Transfusion of blood and gamma globulin	21,483	691	10.7	22,347
668 Coronary angiography	18,618	599	9.3	18,636
1651 Local skin flap, simple and small, single stage	17,559	83	8.8	19,770
607 Examination procedures on ventricle	15,775	552	7.9	15,782
309 Myringotomy	15,687	157	7.8	15,789
76 Release of carpal and tarsal tunnel	15,640	189	7.8	17,042
941 Procedures for haemorrhoids	14,599	74	7.3	15,961
1503 Arthroscopic excision of knee	13,394	99	6.7	14,117
457 Non-surgical removal of tooth	10,496	68	5.2	23,314
Other	579,950	9,090	290.0	662,757
No procedure or not reported	71,217	2,914	35.6	..
Total^(c)	1,654,303	61,926	827.2	3,383,929

(a) Separations for which the care type was reported as *Newborn* with no qualified days, and records for *Hospital boarders* and *Posthumous organ procurement* have been excluded.

(b) Crude rate based on the Australian estimated resident population as at 31 December 2003.

(c) As more than one procedure can be reported for each separation, the totals are not the sums of the rows of the table.

Note: A similar listing of all procedures in ICD-10-AM blocks is provided on the Internet at <http://www.aihw.gov.au>.

.. Not applicable.

Table 10.14: Separation^(a) and procedure statistics for the 30 ICD-10-AM procedure blocks with the highest number of separations, private free-standing day hospitals, Australia^(b), 2003–04

Procedure block	Separations	Same day separations	Public patient separations	Separations per 10,000 population ^(c)	Total procedures reported
1910 Cerebral anaesthesia	286,041	285,968	511	143.0	286,352
1008 Panendoscopy with excision	65,598	65,597	0	32.8	65,894
905 Fibreoptic colonoscopy	64,583	64,583	0	32.3	64,605
911 Fibreoptic colonoscopy with excision	46,779	46,778	0	23.4	47,818
197 Extracapsular crystalline lens extraction by phacoemulsification	45,753	45,753	397	22.9	45,771
1060 Haemodialysis	36,902	36,902	13,124	18.5	36,902
1267 Evacuation of gravid uterus	35,908	35,908	17	18.0	35,966
1620 Excision of lesion of skin and subcutaneous tissue	32,063	32,062	250	16.0	51,626
1780 Chemotherapy administration	31,818	31,818	504	15.9	31,921
1909 Conduction anaesthesia	29,597	29,597	755	14.8	30,064
1005 Panendoscopy	22,239	22,238	0	11.1	22,241
1885 Injection or infusion of therapeutic or prophylactic substance	17,029	17,028	0	8.5	22,313
1890 Therapeutic interventions on cardiovascular system	16,892	16,892	0	8.4	16,893
458 Surgical removal of tooth	12,866	12,863	0	6.4	34,689
1297 Procedures for reproductive medicine	12,303	12,303	365	6.2	12,627
1893 Transfusion of blood and gamma globulin	7,440	7,440	1	3.7	8,011
1651 Local skin flap, simple and small, single stage	7,362	7,361	51	3.7	8,265
668 Coronary angiography	4,899	4,899	320	2.4	4,916
1265 Curettage of uterus	4,160	4,160	2	2.1	4,163
1649 Other full thickness skin graft	3,986	3,986	66	2.0	4,206
457 Non-surgical removal of tooth	3,707	3,704	1	1.9	6,794
941 Procedures for haemorrhoids	3,698	3,698	0	1.8	3,950
607 Examination procedures on ventricle	3,234	3,234	309	1.6	3,239
466 Tooth coloured adhesive restoration, direct	3,201	3,199	0	1.6	9,301
1259 Examination procedures on uterus	3,135	3,135	1	1.6	3,135
1888 Hyperbaric oxygen therapy	3,133	3,133	1,043	1.6	3,133
1517 Arthroscopic meniscectomy of knee with repair	3,006	2,992	0	1.5	3,056
1089 Examination procedures on bladder	2,943	2,943	0	1.5	2,946
1870 Interventions involving assistive or adaptive device, aid or equipment	2,851	2,851	258	1.4	2,851
1828 Sleep study	2,501	5	1	1.3	2,517
Other	139,636	837	138,788	69.8	159,631
No procedure or not reported	1,767	1,767	6	0.9	..
Total^(d)	486,386	483,291	16,382	243.2	1,035,796

(a) Selected statistics for separations for which the care type was reported as *Newborn* with no qualified days, and records for *Hospital boarders* and *Posthumous organ procurement* have been excluded.

(b) Excludes separations from private free-standing hospitals in Tasmania.

(c) Crude rate based on the Australian estimated resident population as at 31 December 2003.

(d) As more than one procedure can be reported for each separation, the totals are not the sums of the rows of the table.

.. Not applicable.

Table 10.15: Separations^(a) for the 30 ICD-10-AM procedure blocks with the highest number of separations, public hospitals, states and territories, 2003–04

Procedure block	NSW	Vic	Qld	WA	SA	Tas	ACT	NT	Total
1910 Cerebral anaesthesia	347,122	306,402	166,336	99,511	96,937	17,937	17,603	10,623	1,062,471
1916 Generalised allied health interventions	273,949	209,473	121,041	69,947	61,672	13,711	12,483	6,571	768,847
1060 Haemodialysis	179,678	194,599	96,836	63,136	43,518	12,937	15,954	28,410	635,068
1893 Transfusion of blood and gamma globulin	52,344	44,635	22,335	14,801	15,724	3,060	2,560	1,242	156,701
1780 Chemotherapy administration	8,452	60,004	28,618	17,754	15,336	2,873	4,500	944	138,481
1909 Conduction anaesthesia	42,359	42,976	24,360	11,464	10,556	2,516	1,855	1,611	137,697
1885 Injection or infusion of therapeutic or prophylactic substance	41,502	38,384	16,953	11,772	16,385	3,996	3,016	1,071	133,079
1952 Computerised tomography of brain	46,538	38,251	18,176	9,129	8,442	2,279	1,964	1,290	126,069
1008 Panendoscopy with excision	26,422	21,289	9,473	8,563	7,079	842	1,791	801	76,260
905 Fiberoptic colonoscopy	24,800	18,914	9,538	7,446	7,151	858	1,137	564	70,408
1912 Postprocedural analgesia	24,861	10,262	9,987	7,759	3,689	2,147	1,929	119	60,753
1620 Excision of lesion of skin and subcutaneous tissue	13,896	15,391	12,352	4,819	7,221	939	399	295	55,312
1344 Postpartum suture	20,898	12,393	8,565	4,119	3,572	912	1,182	675	52,316
911 Fiberoptic colonoscopy with excision	18,498	13,267	6,175	7,221	4,720	645	1,227	432	52,185
738 Venous catheterisation	16,779	11,992	9,648	3,976	3,331	1,266	1,075	831	48,898
1340 Caesarean section	15,465	11,386	8,551	3,836	3,378	777	687	726	44,806
1334 Medical or surgical induction of labour	14,516	12,249	8,198	3,983	3,596	825	617	548	44,532
197 Extracapsular crystalline lens extraction by phacoemulsification	15,018	13,757	5,602	4,417	4,040	169	905	385	44,293
1963 Computerised tomography of abdomen and pelvis	18,306	13,527	5,322	1,460	2,554	950	489	508	43,116
668 Coronary angiography	14,703	9,735	6,115	5,157	4,223	1,061	1,247	296	42,537
1335 Medical or surgical augmentation of labour	15,453	9,883	8,588	3,068	2,865	760	842	539	41,998
1265 Curettage of uterus ^(b)	13,262	13,963	5,666	3,460	2,851	234	500	269	40,205
1005 Panendoscopy	10,450	11,502	5,329	3,580	3,994	562	252	221	35,890
1333 Analgesia and anaesthesia during labour and caesarean section	11,399	8,292	6,332	3,750	3,424	617	666	314	34,794
1089 Examination procedures on bladder	7,981	10,662	4,980	4,651	3,939	713	467	211	33,604
2015 Magnetic resonance imaging	11,789	10,035	4,202	2,021	2,848	661	661	278	32,495
607 Examination procedures on ventricle	9,924	7,738	4,440	4,519	3,074	571	1,093	273	31,632
1962 Computerised tomography of abdomen	12,794	6,386	4,939	3,420	2,076	382	985	397	31,379
1267 Evacuation of gravid uterus	7,606	9,405	3,278	2,136	6,362	433	280	1,145	30,645
569 Continuous ventilatory support	10,220	8,331	4,950	2,307	2,496	580	615	485	29,984
Other	652,357	542,006	348,939	193,898	188,501	38,942	32,358	18,788	2,015,789
No procedure or not reported	397,959	279,216	214,083	73,193	96,043	21,394	10,044	18,257	1,110,189
Total^(c)	1,325,535	1,187,529	721,013	367,246	379,109	80,918	69,029	70,116	4,200,495

(a) Separations for which the care type was reported as *Newborn* with no qualified days, and records for *Hospital boarders* and *Posthumous organ procurement* have been excluded.

(b) Excludes one separation from a public psychiatric hospital in New South Wales with a length of stay of several years.

(c) As more than one procedure can be reported for each separation, the totals are not the sums of the rows of the table.

Table 10.16: Separations^(a) for the 30 ICD-10-AM procedure blocks with the highest number of separations, private hospitals, states and territories, 2003–04

Procedure block	NSW	Vic	Qld	WA	SA	Tas	ACT	NT	Total
1910 Cerebral anaesthesia	449,041	359,146	334,892	149,867	113,495	n.p.	n.p.	n.p.	1,467,594
1916 Generalised allied health interventions	97,584	83,614	69,482	27,531	32,144	n.p.	n.p.	n.p.	322,601
905 Fiberoptic colonoscopy	54,568	48,051	39,951	11,093	10,741	n.p.	n.p.	n.p.	169,112
1909 Conduction anaesthesia	53,355	41,426	39,951	14,965	10,332	n.p.	n.p.	n.p.	167,675
1008 Panendoscopy with excision	51,937	42,486	41,994	14,774	8,311	n.p.	n.p.	n.p.	163,616
1780 Chemotherapy administration	28,040	43,234	45,294	17,657	13,533	n.p.	n.p.	n.p.	154,411
1060 Haemodialysis	21,918	27,102	42,837	26,655	16,627	n.p.	n.p.	n.p.	135,163
911 Fiberoptic colonoscopy with excision	41,638	32,522	31,922	16,178	7,019	n.p.	n.p.	n.p.	132,698
197 Extracapsular crystalline lens extraction by phacoemulsification	37,542	19,219	24,178	8,820	6,505	n.p.	n.p.	n.p.	100,596
1620 Excision of lesion of skin and subcutaneous tissue	26,668	19,610	23,737	9,244	9,871	n.p.	n.p.	n.p.	93,929
1893 Transfusion of blood and gamma globulin	14,524	19,298	23,007	7,200	7,246	n.p.	n.p.	n.p.	74,206
458 Surgical removal of tooth	20,159	18,813	14,298	10,011	5,260	n.p.	n.p.	n.p.	70,984
1885 Injection or infusion of therapeutic or prophylactic substance	9,234	13,416	26,187	6,923	2,705	n.p.	n.p.	n.p.	60,183
1912 Postprocedural analgesia	17,723	7,203	13,824	9,062	6,680	n.p.	n.p.	n.p.	56,533
668 Coronary angiography	17,158	12,619	12,037	3,486	3,625	n.p.	n.p.	n.p.	51,123
1005 Panendoscopy	10,706	19,957	10,883	2,804	4,486	n.p.	n.p.	n.p.	50,023
1267 Evacuation of gravid uterus	10,429	16,502	14,702	3,895	868	n.p.	n.p.	n.p.	47,052
607 Examination procedures on ventricle	13,418	10,930	10,817	3,278	3,287	n.p.	n.p.	n.p.	43,488
1089 Examination procedures on bladder	12,363	9,765	9,400	5,396	3,348	n.p.	n.p.	n.p.	42,839
1265 Curettage of uterus	13,686	12,847	7,380	3,911	2,569	n.p.	n.p.	n.p.	42,284
1890 Therapeutic interventions on cardiovascular system	2,105	8,507	20,459	1,480	1,503	n.p.	n.p.	n.p.	35,124
1259 Examination procedures on uterus	9,834	9,907	6,240	3,176	2,691	n.p.	n.p.	n.p.	33,455
1873 Psychological/psychosocial therapies	14,403	2,533	13,030	3,088	326	n.p.	n.p.	n.p.	33,388
1517 Arthroscopic meniscectomy of knee with repair	8,113	7,234	5,051	3,270	4,781	n.p.	n.p.	n.p.	30,168
1340 Caesarean section	7,284	6,793	6,831	4,101	1,987	n.p.	n.p.	n.p.	28,483
1297 Procedures for reproductive medicine	9,684	7,569	6,814	713	1,679	n.p.	n.p.	n.p.	27,997
1828 Sleep study	8,904	7,883	5,314	834	2,598	n.p.	n.p.	n.p.	26,682
990 Repair of inguinal hernia	7,936	5,453	5,316	2,752	1,801	n.p.	n.p.	n.p.	24,654
1333 Analgesia and anaesthesia during labour and caesarean section	7,174	5,660	4,368	4,070	2,182	n.p.	n.p.	n.p.	24,407
1334 Medical or surgical induction of labour	6,092	5,613	4,413	3,134	1,711	n.p.	n.p.	n.p.	22,399
Other	507,330	389,277	383,483	205,152	161,477	n.p.	n.p.	n.p.	1,726,535
No procedure or not reported	34,999	73,853	56,040	23,700	15,294	n.p.	n.p.	n.p.	219,432
Total^(b)	712,145	680,806	640,047	290,193	206,211	n.p.	n.p.	n.p.	2,640,697

(a) Separations for which the care type was reported as *Newborn* with no qualified days, and records for *Hospital boarders* and *Posthumous organ procurement* have been excluded.

(b) As more than one procedure can be reported for each separation, the totals are not the sums of the rows of the table.

n.p. Not published.

Table 10.17: Average length of stay^(a) (days) for the 30 ICD-10-AM procedure blocks with the highest number of separations, public hospitals, states and territories, 2003–04

Procedure block	NSW	Vic	Qld	WA	SA	Tas	ACT	NT	Total
1910 Cerebral anaesthesia	4.1	3.3	3.7	3.7	3.5	4.5	4.0	4.5	3.7
1916 Generalised allied health interventions	11.5	11.1	10.6	11.8	11.7	12.1	11.0	11.5	11.3
1060 Haemodialysis	1.3	1.2	1.2	1.3	1.3	1.3	1.2	1.2	1.2
1893 Transfusion of blood and gamma globulin	11.0	9.0	9.5	10.1	8.1	9.8	10.9	14.0	9.8
1780 Chemotherapy administration	7.9	1.7	2.0	1.9	2.0	2.0	2.1	1.6	2.2
1909 Conduction anaesthesia	5.7	5.3	5.3	6.8	5.5	7.4	4.4	7.3	5.6
1885 Injection or infusion of therapeutic or prophylactic substance	8.6	6.7	9.2	7.8	5.1	5.9	6.2	11.5	7.5
1952 Computerised tomography of brain	11.1	9.2	10.2	13.6	13.5	11.4	12.3	10.6	10.8
1008 Panendoscopy with excision	3.7	2.6	3.2	2.7	3.3	4.7	3.2	3.6	3.2
905 Fiberoptic colonoscopy	2.7	2.4	2.4	2.4	2.3	3.1	2.1	3.1	2.5
1912 Postprocedural analgesia	8.3	9.2	8.1	8.0	9.5	10.1	8.3	11.4	8.5
1620 Excision of lesion of skin and subcutaneous tissue	4.4	1.9	1.9	1.9	1.6	1.9	1.8	4.1	2.5
1344 Postpartum suture	3.4	3.3	2.9	3.7	3.5	3.9	3.4	3.8	3.3
911 Fiberoptic colonoscopy with excision	3.0	2.4	2.9	2.3	2.6	3.9	2.3	2.2	2.7
738 Venous catheterisation	20.5	20.7	17.0	21.4	20.6	17.2	18.5	21.2	19.8
1340 Caesarean section	5.5	5.4	4.5	5.6	5.9	5.5	6.1	6.3	5.3
1334 Medical or surgical induction of labour	4.1	3.7	3.5	4.1	4.4	4.6	4.7	4.9	4.0
197 Extracapsular crystalline lens extraction by phacoemulsification	1.1	1.1	1.0	1.1	1.1	1.3	1.1	1.7	1.1
1963 Computerised tomography of abdomen and pelvis	11.4	10.7	10.1	13.5	12.9	11.7	9.6	12.9	11.2
668 Coronary angiography	6.3	4.9	4.6	3.5	3.7	4.3	2.6	8.5	5.0
1335 Medical or surgical augmentation of labour	3.4	3.4	2.8	3.8	3.6	4.3	3.6	4.2	3.4
1265 Curettage of uterus ^(b)	1.2	1.2	1.3	1.4	1.2	1.4	1.2	1.3	1.2
1005 Panendoscopy	7.8	5.2	5.7	6.4	4.5	9.8	8.7	8.5	6.2
1333 Analgesia and anaesthesia during labour and caesarean section	4.5	4.3	3.8	4.5	4.5	5.1	4.7	5.0	4.3
1089 Examination procedures on bladder	2.9	2.5	2.3	2.6	2.1	2.7	2.6	3.4	2.5
2015 Magnetic resonance imaging	14.3	12.6	12.6	16.0	13.1	14.2	15.4	15.7	13.6
607 Examination procedures on ventricle	5.8	4.6	4.1	3.4	3.4	4.5	2.4	8.0	4.6
1962 Computerised tomography of abdomen	10.6	8.1	9.3	11.6	10.6	8.8	11.5	10.1	10.0
1267 Evacuation of gravid uterus	1.1	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1
569 Continuous ventilatory support	19.1	19.3	18.7	22.6	22.0	20.0	17.8	20.8	19.6
Total	4.4	3.6	3.6	3.9	4.1	4.4	3.4	3.0	3.9

(a) Separations for which the care type was reported as *Newborn* with no qualified days, and records for *Hospital boarders* and *Posthumous organ procurement* have been excluded.

(b) Excludes one separation from a public psychiatric hospital in New South Wales with a length of stay of several years.

Table 10.18: Average length of stay^(a) (days) for the 30 ICD-10-AM procedure blocks with the highest number of separations, private hospitals, states and territories, 2003–04

Procedure block	NSW	Vic	Qld	WA	SA	Tas	ACT	NT	Total
1910 Cerebral anaesthesia	1.9	2.1	2.2	2.3	2.2	n.p.	n.p.	n.p.	2.1
1916 Generalised allied health interventions	8.2	9.7	9.8	10.7	7.6	n.p.	n.p.	n.p.	9.2
905 Fiberoptic colonoscopy	1.2	1.3	1.4	1.5	1.4	n.p.	n.p.	n.p.	1.3
1909 Conduction anaesthesia	3.2	4.5	4.3	5.7	4.4	n.p.	n.p.	n.p.	4.2
1008 Panendoscopy with excision	1.2	1.4	1.6	1.8	1.6	n.p.	n.p.	n.p.	1.5
1780 Chemotherapy administration	1.2	1.5	1.6	1.4	1.4	n.p.	n.p.	n.p.	1.5
1060 Haemodialysis	1.2	1.2	1.2	1.1	1.1	n.p.	n.p.	n.p.	1.2
911 Fiberoptic colonoscopy with excision	1.2	1.3	1.4	1.4	1.5	n.p.	n.p.	n.p.	1.3
197 Extracapsular crystalline lens extraction by phacoemulsification	1.0	1.0	1.0	1.1	1.0	n.p.	n.p.	n.p.	1.0
1620 Excision of lesion of skin and subcutaneous tissue	1.5	1.4	1.5	1.7	1.3	n.p.	n.p.	n.p.	1.5
1893 Transfusion of blood and gamma globulin	9.2	8.6	7.3	8.9	8.9	n.p.	n.p.	n.p.	8.4
458 Surgical removal of tooth	1.0	1.0	1.1	1.0	1.1	n.p.	n.p.	n.p.	1.0
1885 Injection or infusion of therapeutic or prophylactic substance	4.5	4.1	3.0	3.9	4.4	n.p.	n.p.	n.p.	3.7
1912 Postprocedural analgesia	6.8	8.4	7.3	7.7	6.6	n.p.	n.p.	n.p.	7.3
668 Coronary angiography	2.4	3.4	3.9	3.4	3.5	n.p.	n.p.	n.p.	3.2
1005 Panendoscopy	2.0	1.8	2.9	3.3	2.1	n.p.	n.p.	n.p.	2.2
1267 Evacuation of gravid uterus	1.0	1.0	1.0	1.0	1.1	n.p.	n.p.	n.p.	1.0
607 Examination procedures on ventricle	2.5	3.3	3.7	3.3	3.3	n.p.	n.p.	n.p.	3.1
1089 Examination procedures on bladder	1.7	1.9	2.0	2.5	1.9	n.p.	n.p.	n.p.	2.0
1265 Curettage of uterus	1.1	1.1	1.2	1.2	1.2	n.p.	n.p.	n.p.	1.1
1890 Therapeutic interventions on cardiovascular system	2.5	1.7	1.4	2.9	2.7	n.p.	n.p.	n.p.	1.6
1259 Examination procedures on uterus	1.1	1.1	1.1	1.1	1.1	n.p.	n.p.	n.p.	1.1
1873 Psychological/psychosocial therapies	6.2	9.0	2.8	2.4	13.5	n.p.	n.p.	n.p.	4.8
1517 Arthroscopic meniscectomy of knee with repair	1.1	1.1	1.1	1.2	1.1	n.p.	n.p.	n.p.	1.1
1340 Caesarean section	6.0	5.9	5.5	7.0	6.6	n.p.	n.p.	n.p.	6.0
1297 Procedures for reproductive medicine	1.0	1.0	1.0	1.0	1.0	n.p.	n.p.	n.p.	1.0
1828 Sleep study	1.2	1.1	1.3	1.1	1.1	n.p.	n.p.	n.p.	1.2
990 Repair of inguinal hernia	1.6	1.6	1.5	1.8	1.8	n.p.	n.p.	n.p.	1.6
1333 Analgesia and anaesthesia during labour and caesarean section	5.0	5.0	4.8	5.6	5.5	n.p.	n.p.	n.p.	5.1
1334 Medical or surgical induction of labour	5.0	4.8	4.5	5.3	5.4	n.p.	n.p.	n.p.	4.9
Total	2.6	2.7	2.8	2.8	2.7	n.p.	n.p.	n.p.	2.7

(a) Separations for which the care type was reported as *Newborn* with no qualified days, and records for *Hospital boarders* and *Posthumous organ procurement* have been excluded.

n.p. Not published.

Table 10.19: Separations^(a) for males for the 30 ICD-10-AM procedure blocks with the highest number of separations, by age group, all hospitals, Australia, 2003–04

Procedure block	<1	1–4	5–14	15–24	25–34	35–44	45–54	55–64	65–74	75–84	85+	Total ^(b)
1910 Cerebral anaesthesia	10,018	42,888	70,259	90,989	97,431	127,962	162,329	196,950	183,931	144,702	27,685	1,155,144
1916 Generalised allied health interventions	9,044	6,128	11,718	25,403	30,133	37,212	49,023	71,071	93,495	112,239	43,601	489,067
1060 Haemodialysis	2	56	109	7,480	23,799	44,628	69,921	90,273	112,801	95,113	7,448	451,630
1780 Chemotherapy administration	122	1,709	2,443	3,244	3,420	7,579	19,124	36,834	41,151	20,539	1,735	137,900
1909 Conduction anaesthesia	1,742	2,293	2,771	4,429	5,120	7,255	11,831	22,165	32,261	33,345	7,459	130,671
1893 Transfusion of blood and gamma globulin	1,659	1,625	3,459	3,666	4,037	6,119	10,906	18,753	26,473	30,179	9,641	116,517
1008 Panendoscopy with excision	157	683	1,702	4,176	8,554	14,388	20,071	22,903	19,168	13,606	2,429	107,837
905 Fibreoptic colonoscopy	5	34	130	1,531	5,520	13,505	22,377	25,793	20,979	13,925	2,152	105,951
911 Fibreoptic colonoscopy with excision	27	120	458	2,017	4,436	9,254	17,007	24,176	21,464	13,024	1,748	93,731
1885 Injection or infusion of therapeutic or prophylactic substance	16,333	2,490	4,539	3,556	3,973	6,227	10,344	13,759	14,753	12,040	2,387	90,401
1620 Excision of lesion of skin and subcutaneous tissue	183	630	1,731	2,114	3,425	6,321	10,327	14,846	15,707	18,223	5,499	79,006
1952 Computerised tomography of brain	644	1,206	2,125	5,864	5,824	6,030	7,080	9,205	12,690	17,450	7,213	75,331
668 Coronary angiography	45	50	51	119	581	3,299	10,269	17,389	17,367	11,106	1,059	61,335
197 Extracapsular crystalline lens extraction by phacoemulsification	2	4	21	65	163	666	2,549	7,427	17,868	25,969	5,226	59,960
607 Examination procedures on ventricle	77	84	52	103	480	2,643	8,336	14,123	13,722	8,356	725	48,701
1089 Examination procedures on bladder	107	216	313	611	1,142	2,326	4,421	8,875	12,182	12,277	2,831	45,302
1912 Postprocedural analgesia	199	240	1,117	2,980	3,053	3,746	5,549	9,413	10,576	6,584	872	44,329
1005 Panendoscopy	19	100	193	1,174	2,537	4,339	6,480	7,992	8,171	7,414	1,867	40,286
990 Repair of inguinal hernia	1,509	1,829	1,402	1,693	2,938	4,406	6,380	7,957	6,639	4,374	718	39,845
458 Surgical removal of tooth	1	555	3,127	15,869	7,507	3,514	2,325	1,618	873	577	113	36,079
738 Venous catheterisation	3,380	468	679	1,344	1,691	2,512	4,170	6,176	7,272	5,924	1,144	34,760
1890 Therapeutic interventions on cardiovascular system	138	245	663	831	562	1,617	4,853	8,464	8,171	4,263	459	30,266
1963 Computerised tomography of abdomen and pelvis	12	89	318	1,561	2,259	3,155	3,869	4,622	5,332	5,297	1,520	28,034
1566 Excision procedures on other musculoskeletal sites	28	494	1,243	3,389	3,736	3,869	4,144	3,931	2,637	2,142	575	26,188
1828 Sleep study	124	288	327	371	1,501	3,644	5,970	5,741	2,935	1,578	103	22,582
671 Transluminal coronary angioplasty with stenting	0	1	1	6	121	1,120	4,128	6,602	5,882	3,582	416	21,859
2015 Magnetic resonance imaging	766	1,188	1,260	1,181	1,520	2,036	2,801	3,499	3,749	2,887	566	21,453
1517 Arthroscopic meniscectomy of knee with repair	0	0	44	1,081	2,237	4,158	5,627	4,965	2,211	750	63	21,136
1962 Computerised tomography of abdomen	29	68	383	1,070	1,655	2,497	3,046	3,547	3,783	3,709	1,010	20,797
412 Tonsillectomy or adenoidectomy	46	7,399	8,867	2,298	1,068	530	208	102	51	21	3	20,593
Other	47,919	56,830	94,250	118,660	134,972	172,109	212,079	269,426	272,614	231,431	53,550	1,663,840
Procedure reported ^(c)	41,289	55,363	92,093	137,120	173,540	250,380	351,850	461,870	498,827	435,266	95,180	2,592,779
No procedure or not reported	41,438	46,619	38,761	48,014	57,172	61,715	64,181	70,000	71,677	75,713	26,612	601,902
Total^(c)	82,727	101,982	130,854	185,134	230,712	312,095	416,031	531,870	570,504	510,979	121,792	3,194,681

(a) Separations for which the care type was reported as *Newborn* with no qualified days, and records for *Hospital boarders* and *Posthumous organ procurement* have been excluded.

(b) Includes separations for which age was not reported.

(c) As more than one procedure can be reported for each separation, the totals are not the sums of the rows of the table.

Table 10.20: Separations^(a) for females for the 30 ICD-10-AM procedure blocks with the highest number of separations, by age group, all hospitals, Australia, 2003–04

Procedure block	<1	1–4	5–14	15–24	25–34	35–44	45–54	55–64	65–74	75–84	85+	Total ^(b)
1910 Cerebral anaesthesia	4,879	27,263	51,270	122,368	173,890	203,454	214,859	203,127	177,397	155,169	41,220	1,374,897
1916 Generalised allied health interventions	7,237	4,861	9,564	34,059	68,978	50,894	49,884	64,170	88,021	139,402	85,298	602,368
1060 Haemodialysis	4	3	372	5,690	14,434	25,030	50,360	66,998	91,575	60,104	4,031	318,601
1909 Conduction anaesthesia	230	435	963	9,086	38,390	20,964	11,170	17,687	27,977	36,107	11,689	174,698
1780 Chemotherapy administration	109	1,322	1,902	1,854	4,207	16,410	36,185	42,524	33,308	15,528	1,643	154,992
905 Fiberoptic colonoscopy	1	15	91	2,638	7,313	17,102	29,472	31,602	24,972	16,978	3,385	133,569
1008 Panendoscopy with excision	117	446	1,646	6,821	10,401	17,964	26,441	26,498	21,487	16,355	3,863	132,039
1893 Transfusion of blood and gamma globulin	1,287	1,088	2,331	3,851	6,803	8,268	10,994	15,492	21,412	28,492	14,370	114,388
1885 Injection or infusion of therapeutic or prophylactic substance	12,646	2,477	3,308	4,552	6,938	9,572	14,381	16,506	15,407	13,101	3,965	102,853
911 Fiberoptic colonoscopy with excision	15	68	420	3,311	5,875	10,402	17,187	20,803	18,177	12,712	2,181	91,151
197 Extracapsular crystalline lens extraction by phacoemulsification	2	4	12	47	126	499	2,191	8,118	24,953	39,484	9,491	84,927
1265 Curettage of uterus	0	0	36	5,445	16,909	23,588	22,145	8,871	3,717	1,539	240	82,490
1267 Evacuation of gravid uterus	0	0	221	25,709	33,671	17,468	620	7	0	0	0	77,697
1344 Postpartum suture	0	0	31	14,378	46,887	12,771	68	1	0	0	0	74,136
1340 Caesarean section	0	0	17	9,346	45,347	18,403	175	1	0	0	0	73,289
1912 Postprocedural analgesia	141	259	922	4,528	15,888	11,935	9,491	9,830	10,325	8,082	1,555	72,956
1620 Excision of lesion of skin and subcutaneous tissue	158	616	1,973	2,728	4,722	8,104	11,210	11,625	10,565	12,600	5,932	70,233
1952 Computerised tomography of brain	505	877	1,269	3,122	3,723	4,583	5,710	6,732	9,884	19,283	12,999	68,687
1334 Medical or surgical induction of labour	0	0	29	12,709	41,891	12,211	90	1	0	0	0	66,931
1259 Examination procedures on uterus	0	2	24	3,487	12,763	17,552	17,090	6,443	2,699	1,123	173	61,356
1333 Analgesia and anaesthesia during labour and caesarean section	0	0	21	10,956	37,844	10,316	60	2	0	0	0	59,199
1335 Medical or surgical augmentation of labour	0	0	22	13,689	35,197	8,663	33	0	0	0	0	57,604
458 Surgical removal of tooth	0	442	3,637	25,521	9,917	4,055	2,615	1,582	743	641	212	49,365
1005 Panendoscopy	27	113	142	1,464	2,689	4,845	7,564	8,911	8,509	8,489	2,874	45,627
965 Cholecystectomy	2	6	90	2,328	5,325	6,203	6,397	5,835	3,736	2,386	453	32,761
668 Coronary angiography	32	32	41	57	193	1,174	4,235	7,801	9,750	8,142	867	32,324
1297 Procedures for reproductive medicine	1	0	0	415	13,900	17,357	577	3	0	0	0	32,253
1343 Other procedures associated with delivery	0	0	7	5,753	20,572	5,289	26	1	0	0	0	31,648
1089 Examination procedures on bladder	57	166	274	594	1,521	3,922	6,271	6,434	5,858	4,930	1,113	31,140
986 Division of abdominal adhesions	22	18	101	1,647	5,351	6,836	5,483	3,663	2,833	2,189	534	28,677
Other	33,356	45,614	77,368	139,404	257,715	265,922	284,179	277,844	252,807	241,835	82,112	1,958,156
<i>Procedure reported^(c)</i>	<i>26,487</i>	<i>36,999</i>	<i>68,011</i>	<i>213,527</i>	<i>400,985</i>	<i>370,675</i>	<i>395,719</i>	<i>420,885</i>	<i>431,118</i>	<i>410,517</i>	<i>143,816</i>	<i>2,918,740</i>
No procedure or not reported	33,686	34,792	28,775	92,346	136,980	85,425	65,032	59,888	61,173	81,966	47,631	727,694
Total^(c)	60,173	71,791	96,786	305,873	537,965	456,100	460,751	480,773	492,291	492,483	191,447	3,646,434

(a) Separations for which the care type was reported as *Newborn* with no qualified days, and records for *Hospital boarders* and *Posthumous organ procurement* have been excluded.

(b) Includes separations for which age was not reported.

(c) As more than one procedure can be reported for each separation, the totals are not the sums of the rows of the table.

Table 10.21: Procedure^(a) statistics in ICD-10-AM chapters, by Indigenous status^(b), all hospitals, Australia, 2003–04

Procedure chapter	Count of procedures		Proportion of total procedures for patients identified as Indigenous (%)	Procedures per 1,000 population ^(c)		Rate ratio ^(d)	
	Indigenous	Other		Indigenous	Other		
1–86	2,141	185,924	0.8	6.9	9.3	0.7	
110–129	137	12,283	0.1	0.4	0.6	0.6	
160–256	2,062	235,082	0.8	8.9	11.5	0.8	
300–333	1,924	57,044	0.7	5.1	3.0	1.7	
370–422	1,827	174,443	0.7	4.8	8.9	0.5	
450–490	9,588	407,947	3.6	31.8	21.3	1.5	
520–569	5,356	170,072	2.0	20.1	8.5	2.4	
600–767	8,106	491,456	3.1	28.0	24.2	1.2	
800–817	443	48,542	0.2	1.4	2.4	0.6	
850–1011	9,941	1,232,009	3.8	29.5	61.3	0.5	
1040–1128	86,406	955,316	32.7	282.3	47.3	6.0	
1060	83,480	687,483	31.6	272.2	34.1	8.0	
	<i>Other than haemodialysis in procedure block 1040–1128</i>						
	2,926	267,833	1.1	10.1	13.2	0.8	
1160–1203	816	91,233	0.3	2.7	4.6	0.6	
1240–1299	6,659	490,726	2.5	14.1	25.2	0.6	
1330–1347	12,141	441,975	4.6	19.6	23.2	0.8	
1360–1579	9,540	615,645	3.6	22.8	31.0	0.7	
1600–1718	9,628	558,230	3.6	27.1	27.8	1.0	
1740–1759	496	61,109	0.2	1.4	3.1	0.5	
1780–1799	1,847	327,707	0.7	5.7	16.2	0.4	
1820–1916	84,613	5,816,428	32.0	264.6	289.9	0.9	
1940–2016	10,498	599,815	4.0	32.2	29.7	1.1	
	Total (excluding haemodialysis)	180,689	12,285,503	68.4	537.0	615.0	0.9
	Total (including haemodialysis)	264,169	12,972,986	100.0	809.2	649.0	1.2

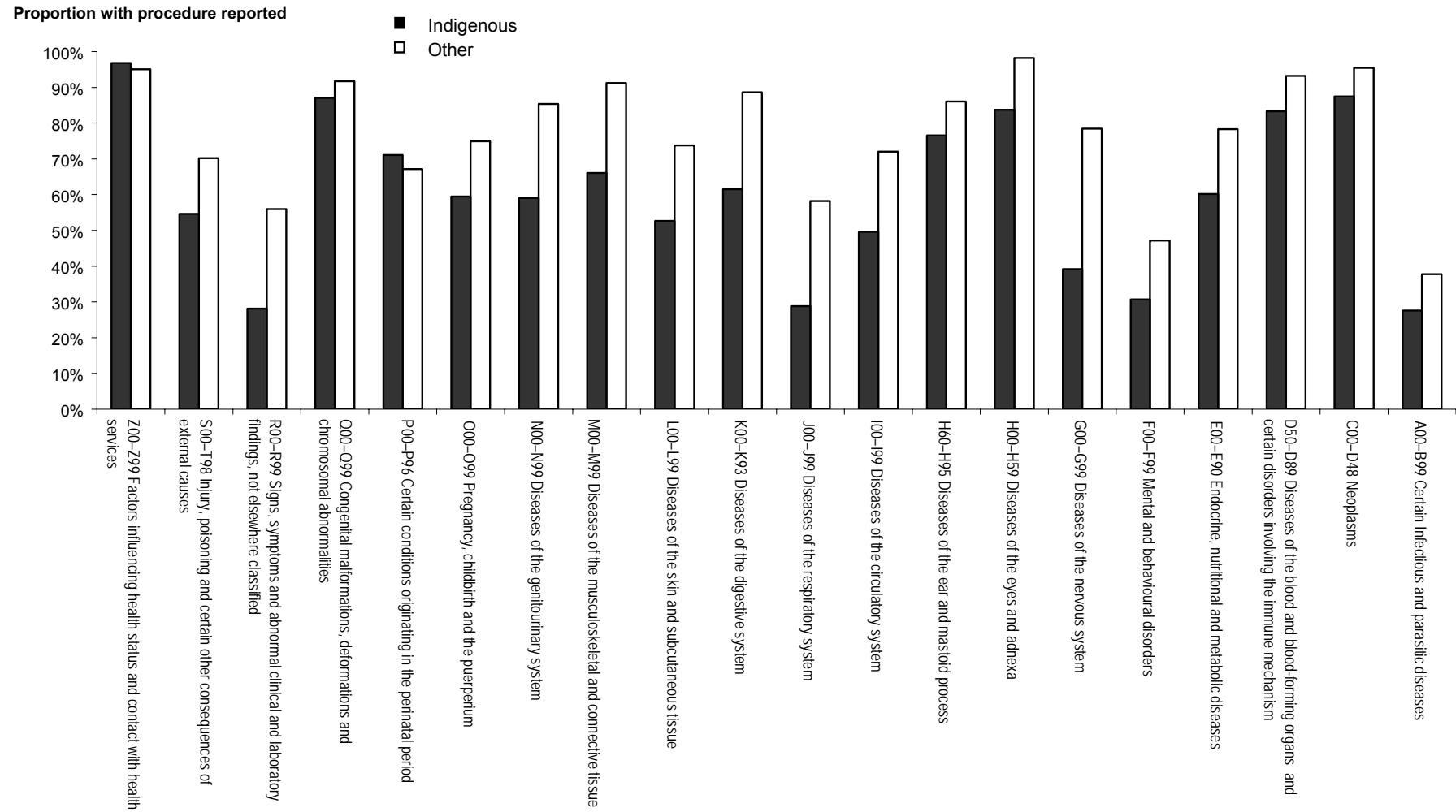
(a) Separations for which the care type was reported as *Newborn* with no qualified days, and records for *Hospital boarders* and *Posthumous organ procurement* have been excluded.

(b) Identification of Indigenous patients is not considered to be complete and completeness varies among jurisdictions. See the text of Chapter 8 for further detail.

(c) The rates were directly age-standardised to the Australian population at 30 June 2001. The rate for non-Indigenous persons includes *Not Reported*. For details, see Appendix 3.

(d) The rate ratio is equal to the rate for Indigenous people divided by the rate for other people (which includes *Not reported*).

Indigenous population data are available at <http://www.aihw.gov.au>.



(a) Separations for which the care type was reported as *Newborn* with no qualified days, and records for *Hospital boarders* and *Posthumous organ procurement* have been excluded.

Figure 10.2: Proportion of separations^(a) with a procedure reported, by principal diagnosis and Indigenous status, all hospitals, Australia, 2003-04