
10 Public hospitals

Public hospitals are important providers of government funded health services in Australia. A key objective of government is to provide public hospital services to ensure the population has access to cost-effective health services, based on clinical need and within clinically appropriate times, regardless of geographic location. Public hospitals provide a range of services, including:

- acute care services to admitted patients
- sub-acute and non-acute services to admitted patients (for example, rehabilitation, palliative care, or long stay maintenance care)
- emergency, outpatient and other services to non-admitted patients¹
- mental health services, including services provided to admitted patients by designated psychiatric/psychogeriatric units
- public health services
- teaching and research activities.

This chapter focuses on services provided to admitted patients and emergency services provided to non-admitted patients in public hospitals (see *Report on Government Services 2009* (2009 Report), chapter 10). These services comprise the bulk of public hospital activity and, in the case of services to admitted patients, have the most reliable data available. Data in the chapter include sub-acute and non-acute care services.

In some instances, stand-alone psychiatric hospitals are included in this chapter, (see 2009 Report, chapter 10), although their role is diminishing in accordance with the National Mental Health Strategy. Under the strategy, the provision of psychiatric treatment is shifting away from specialised psychiatric hospitals to mainstream public hospitals and the community sector. The performance of psychiatric hospitals and psychiatric units of public hospitals is examined more closely in the mental health section of the 'Health management' chapter (see 2009 Report, chapter 12).

¹ Other services to non-admitted patients include community health services such as baby clinics and immunisation units, district nursing services and other outreach services (AIHW 2001).

Some common health terms relating to hospitals are defined in box 10.1.

Box 10.1 Some common terms relating to hospitals

Patients

admitted patient: a patient who has undergone a formal admission process in a public hospital to begin an episode of care. Admitted patients may receive acute, sub-acute or non-acute care services.

non-admitted patient: a patient who has not undergone a formal admission process, but who may receive care through an emergency department, outpatient or other non-admitted service.

Types of care

Classification of care depends on the principal clinical intent of the care received.

acute care: clinical services provided to admitted or non-admitted patients, including managing labour, curing illness or treating injury, performing surgery, relieving symptoms and/or reducing the severity of illness or injury, and performing diagnostic and therapeutic procedures. Most episodes involve a relatively short hospital stay.

sub-acute and non-acute care: clinical services provided to patients suffering from chronic illnesses or recovering from such illnesses. Services include rehabilitation, planned geriatric care, palliative care, geriatric care evaluation and management, and services for nursing home type patients. Clinical services delivered by designated psychogeriatric units, designated rehabilitation units and mothercraft services are considered non-acute.

Hospital outputs

separation: an episode of care for an admitted patient, which can be a total hospital stay (from admission to discharge, transfer or death), or a portion of a hospital stay beginning or ending in a change of type of care (for example, from acute to rehabilitation). Admitted patients who receive same day procedures (for example, renal dialysis) are included in separation statistics.

casemix-adjusted separations: the number of separations adjusted to account for differences across hospitals in the complexity of their episodes of care. Casemix adjustment is an important step to achieving comparable measures of efficiency across hospitals and jurisdictions.

(Continued on next page)

Box 10.1 (Continued)

non-admitted occasion of service: occasion of examination, consultation, treatment or other service provided to a non-admitted patient in a functional unit of a health service establishment. Services may include emergency department visits, outpatient services (such as pathology, radiology and imaging, and allied health services, including speech therapy and family planning) and other services to non-admitted patients. Hospital non-admitted occasions of service are not yet recorded consistently across states and territories, and relative differences in the complexity of services provided are not yet documented.

Other common health terms

AR-DRG (Australian refined diagnosis related group): a patient classification system that hospitals use to match their patient services (hospital procedures and diagnoses) with their resource needs. AR-DRG version 5.1 is based on the ICD-10-AM classification.

ICD-10-AM (the Australian modification of the International Standard Classification of Diseases and Related Health Problems): the current classification of diagnoses and procedures.

Source: AIHW (2006, 2008); NCCH (2008).

Indigenous data in the public hospitals chapter

The public hospitals chapter in the 2009 Report contains the following data items on Indigenous people:

- separations, by Indigenous status of patients and hospital sector, 2006-07
- separations per 1000 people, public hospitals, 2002-03 to 2006-07
- separations with a procedure recorded by selected principal diagnoses, public hospitals, July 2005–June 2007
- separations with a procedure recorded, by Indigenous status of patient, July 2005–June 2007
- separations with a procedure recorded, by Indigenous status of patient and remoteness, July 2005–June 2007
- perinatal, neonatal and fetal death rates, 2001–2005.

Attachment tables

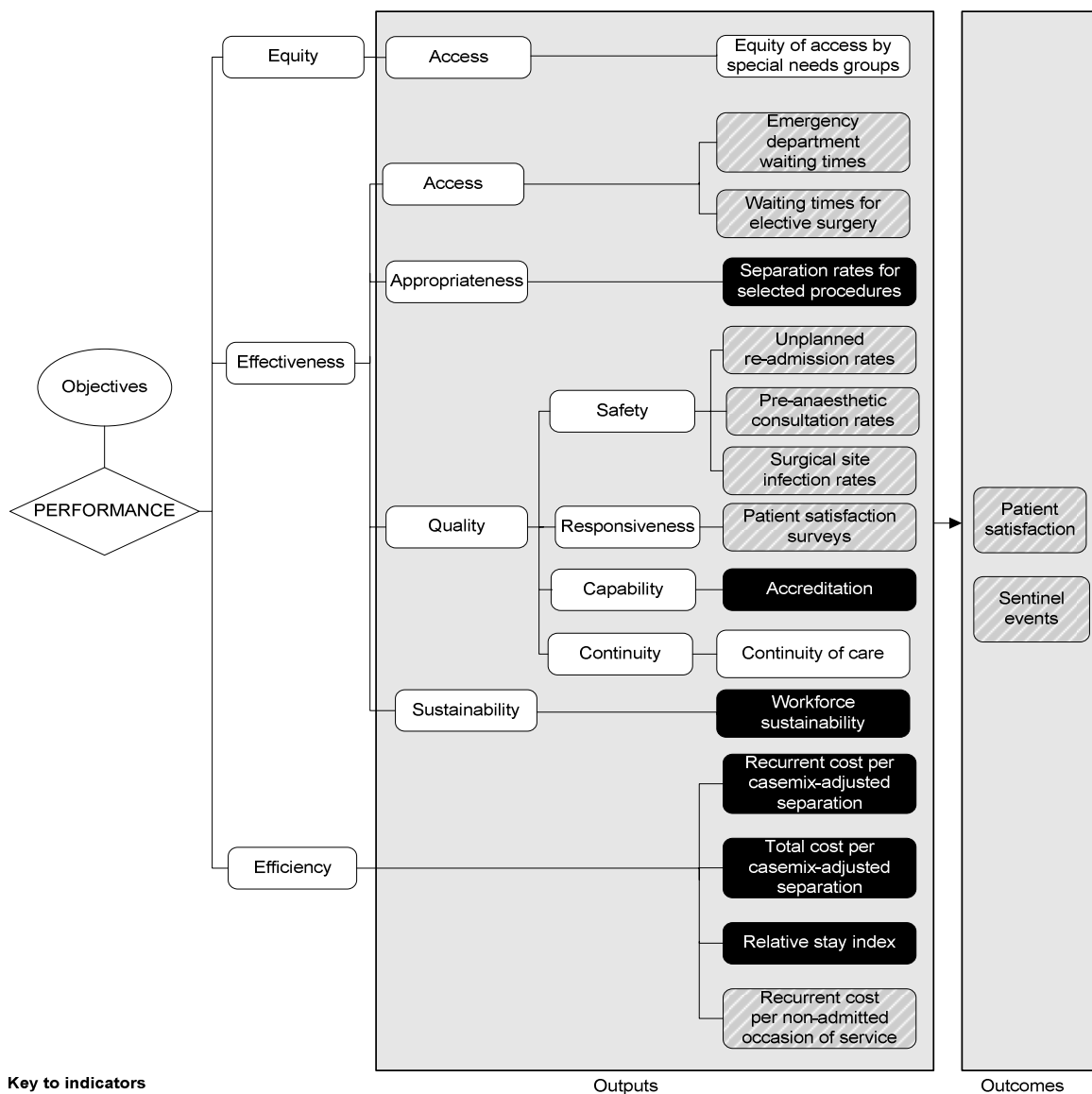
Attachment tables for data within the public hospitals chapter of this compendium are contained in attachment 10A of the compendium. These tables are identified in references throughout this chapter by an ‘A’ suffix (for example, table 10A.3 is

table 3 in the public hospitals attachment). As the data are directly sourced from the 2009 Report, the compendium also notes where the original table, figure or text in the 2009 Report can be found. For example, where the compendium refers to ‘2009 Report, p. 10.15’ this is page 15 of chapter 10 of the 2009 Report, and ‘2009 Report, table 10A.2’ is attachment table 2 of attachment 10A of the 2009 Report.

Framework of performance indicators for public hospitals

Data for Indigenous people are reported for a subset of the performance indicators for public hospitals in the 2009 Report. It is important to interpret these data in the context of the broader performance indicator framework outlined in figure 10.1. The performance indicator framework shows which data are comparable in the 2009 Report. For data that are not considered directly comparable, the text includes relevant caveats and supporting commentary.

Figure 10.1 Performance indicators for public hospitals



Key to indicators

- Text** Data for these indicators comparable, subject to caveats to each chart or table
- Text** Data for these indicators not complete or not directly comparable
- Text** These indicators yet to be developed or data not collected for this Report

Source: 2009 Report, figure 10.13, p. 10.23.

Separation rates for Indigenous patients

The completeness of Indigenous identification in hospital admitted patient data varies across states and territories. The AIHW (2005) report *Improving the Quality of Indigenous Identification in Hospital Separations Data* found that Indigenous patient data was of acceptable quality for analytical purposes only for Queensland,

WA, SA, and public hospitals in the NT. Following new assessments of the quality of Indigenous identification in 2007, the National E Health Information Principal Committee (NEHIPC) has approved NSW and Victorian Indigenous patient data as acceptable in quality for analytical purposes, from the 2004-05 reference year. Efforts to improve Indigenous identification across states and territories are ongoing.

The available data are not necessarily representative of other jurisdictions. Because of improvements in data quality over time, caution also should be used in time series analysis of the data.

In 2006-07, separations for Indigenous people accounted for around 3.5 per cent of total separations and 5.3 per cent of separations in public hospitals in NSW, Victoria, Queensland, WA, SA and the NT (table 10.1), but the Indigenous population made up only around 2.5 per cent of the population in these jurisdictions (table AA.3 and 2009 Report, table AA.2). Most separations involving Indigenous patients (94.4 per cent) in these jurisdictions occurred in public hospitals. The low proportion of private hospital separations for Indigenous people may be due partly to a lower proportion of Indigenous patients being correctly identified in private hospitals in addition to their lower use of private hospitals.

Table 10.1 Separations, by Indigenous status of patient and hospital sector, 2006-07^{a, b}

	NSW	Vic	Qld	WA	SA	Tas	ACT	NT	Aust	Total ^c
Public hospital separations ('000)										
Indigenous	50.6	11.4	60.2	42.3	17.3	np	np	57.9	np	239.6
Non-Indigenous	1 394.5	1 296.1	710.6	408.6	362.1	np	np	27.9	np	4 199.9
Not reported	17.0	6.7	13.8	–	11.2	np	np	–	np	48.8
Total	1 462.1	1 314.2	784.6	450.9	390.6	np	np	85.8	np	4 488.4
Private hospital separations ('000)										
Indigenous	1.1	0.5	3.9	8.3	0.5	np	np	np	np	14.2
Non-Indigenous	797.1	755.4	654.5	280.9	225.5	np	np	np	np	2 713.5
Not reported	10.1	5.5	83.6	–	3.3	np	np	np	np	102.6
Total	808.4	761.4	742.0	289.2	229.3	np	np	np	np	2 830.3
Indigenous separations as proportion of total separations (%)										
Public hospitals	3.5	0.9	7.7	9.4	4.4	np	np	67.4	np	5.3
Private hospitals	0.1	0.1	0.5	2.9	0.2	np	np	np	np	0.5
All hospitals	2.3	0.6	4.2	6.8	2.9	np	np	np	np	3.5
Separations in public hospitals as a proportion of separations in all hospitals (%)										
Indigenous	97.8	96.0	94.0	83.6	97.4	np	np	np	np	94.4
Non-Indigenous	63.6	63.2	52.1	59.3	61.6	np	np	np	np	60.8

^a Excludes separations for which the care type was reported as 'newborn with no qualified days' and records for hospital boarders and posthumous organ procurement. ^b Identification of Indigenous patients is not considered complete and completeness varies across jurisdictions. The AIHW advised that only data for NSW, Victoria, Queensland, WA, SA and the NT are considered to be acceptable for the purpose of analysis. Nevertheless, data for these jurisdictions should be interpreted with caution as there are jurisdictional differences in data quality. In addition, these jurisdictions are not necessarily representative of the excluded jurisdictions. ^c The total includes data only for NSW, Victoria, Queensland, WA, SA, and the NT. – Nil or rounded to zero. **np** Not published.

Source: AIHW 2008a, *Australian Hospital Statistics 2006-07*, Health services series no. 31. Cat no. HSE 55, AIHW, Canberra; table 10A.1; 2009 Report, table 10.1, p. 10.13.

In 2006-07, on an age standardised basis, 787.5 public hospitals separations (including same day separations) for Indigenous patients were reported per 1000 Indigenous people in NSW, Victoria, Queensland, WA, SA and the NT (table 10.2). This rate was markedly higher than the corresponding rate for these jurisdictions' combined total population of 218.7 per 1000 (table 10.2). Incomplete identification of Indigenous people limits the validity of comparisons over time, as well as across jurisdictions.

Table 10.2 Estimates of public hospital separations per 1000 people, by Indigenous status of patient^{a, b}

	NSW ^c	Vic	Qld ^c	WA ^{c, d}	SA ^c	Tas	ACT	NT ^c	Aust	Total ^e
2002-03										
Indigenous	np	np	685.2	809.4	788.1	np	np	1223.3	np	np
Total population	np	np	189.4	195.4	231.0	np	np	422.5	np	np
2003-04										
Indigenous	np	np	710.9	789.3	853.9	np	np	1286.2	np	np
Total population	np	np	189.3	191.0	235.9	np	np	428.9	np	np
2004-05										
Indigenous	np	np	733.6	821.5	822.2	np	np	1441.0	np	907.0
Total population	np	np	188.1	195.2	225.3	np	np	456.2	np	205.2
2005-06										
Indigenous	495.6	np	745.4	845.2	875.0	np	np	1548.0	np	792.1
Total population	204.7	np	188.5	198.8	229.7	np	np	491.4	np	205.7
2006-07										
Indigenous	528.0	624.3	756.7	876.5	929.3	np	np	1584.8	np	787.5
Total population	205.9	246.6	218.7	218.1	232.6	np	np	480.6	np	218.7

^a The rates are directly age standardised to the Australian population at 30 June 2001. ^b Identification of Indigenous patients is not considered complete and completeness varies across jurisdictions and time. ^c AIHW advice on data of acceptable quality limits reporting across jurisdictions for various years. Nevertheless, data for these jurisdictions should be interpreted with caution as there are jurisdictional differences in data quality and changes in hospitalisation rates for Indigenous people over time that may include a component due to improved identification. In addition, these jurisdictions are not necessarily representative of the excluded jurisdictions. ^d Data for WA for 2006-07 includes separations for public patients at Joondalup and Peel Health Campuses. Separations for these patients are not included in previous years. ^e Total rates include data for Queensland, WA, SA, and the NT for all years, and for 2005-06 incorporate NSW and for 2006-07 incorporate NSW and Victoria. Total rates before 2005-06 are not comparable with the 2005-06 total and total rates before 2006-07 are not comparable with the 2006-07 total. **np** Not published.

Source: AIHW (unpublished), derived from the National Hospital Morbidity Database; table 10A.2; 2009 Report, table 10.2, p. 10.14.

Separations with a procedure recorded for Indigenous patients

While Indigenous Australians are more likely to be hospitalised than non-Indigenous Australians, they are less likely to be treated by medical or surgical procedure while in hospital. The underlying reasons for this are not well understood and are likely to reflect a range of factors, including, for example, clinical judgements about the appropriateness of treatment by procedure, patient preferences and concerns, and distance from appropriate facilities (AHMAC 2006). Other factors are also likely to affect the data, including those relating to variations in casemix, comorbidities and stage at presentation.

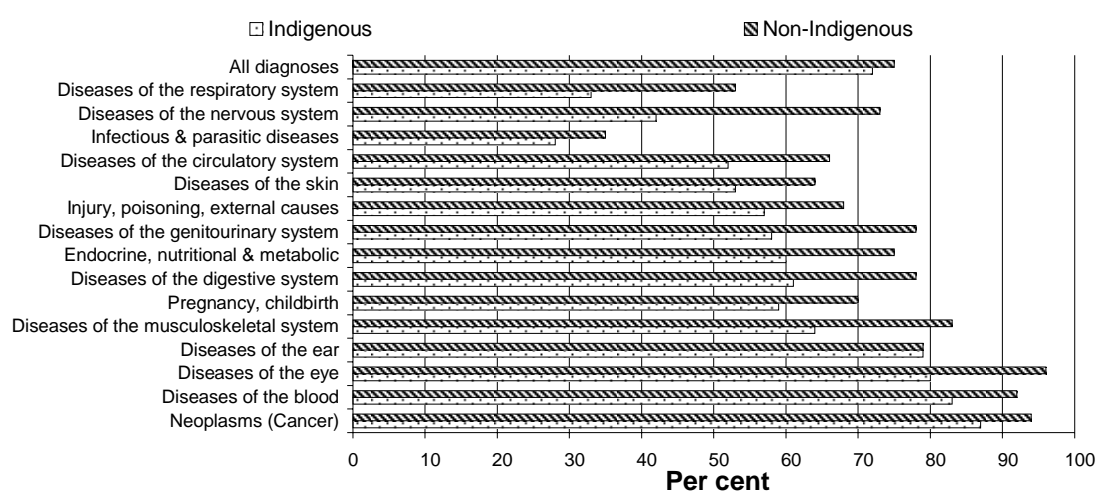
Data for NSW, Victoria, Queensland, WA, SA and NT public hospitals for separations with a procedure recorded by principal diagnosis are presented in figure 10.2. Separations with a procedure recorded both by jurisdiction and by

remoteness are presented in figures 10.3 and 10.4, and include data for all patients treated in public hospitals and public patients treated in private hospitals. Private hospital data are not published for the NT, but the extent to which public patients are treated in private hospitals in that jurisdiction is limited.

In the period July 2005–June 2007, excluding care involving dialysis, consistently lower proportions of separations with a procedure were recorded for Indigenous patients compared with non-Indigenous patients in almost all categories of principal diagnosis (figure 10.2). The differences can be observed across all jurisdictions for which data are available (figure 10.3). While remoteness is associated with progressively reduced rates of separation with a procedure recorded for all patients, differences were more pronounced for Indigenous patients (figure 10.4).

Care involving dialysis accounts for the greatest number of Indigenous separations, with end-stage renal disease requiring frequent dialysis treatments, often several times per week. The alternative to dialysis is a kidney transplant. Indigenous people have very high levels of end-stage renal disease as a consequence of high rates of diabetes, hypertension and related illnesses. In addition, few Indigenous people receive kidney transplants (AHMAC 2006). Without the exclusion of dialysis the result would overestimate the numbers of Indigenous people being treated by procedure for other conditions.

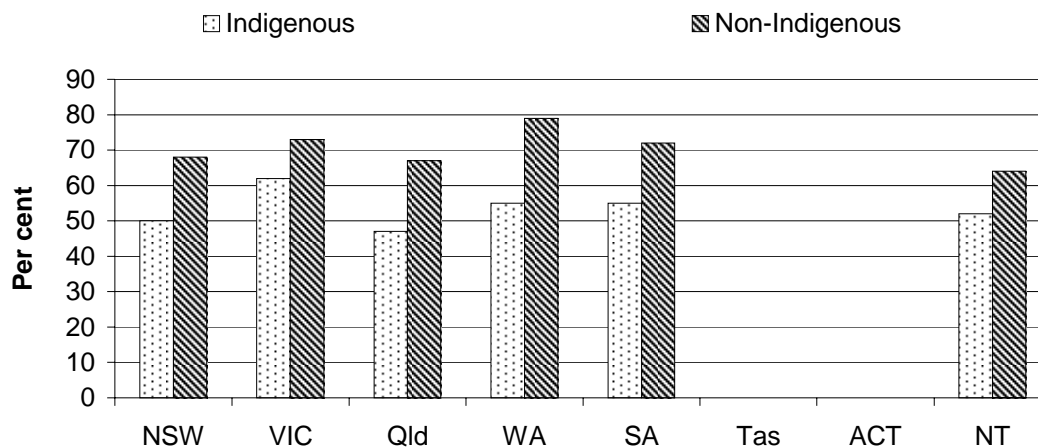
Figure 10.2 **Separations with a procedure recorded by principal diagnosis, by Indigenous status of patient, July 2005–June 2007^{a, b}**



^a Includes patients treated in public hospitals and public patients treated in private hospitals in NSW, Victoria, Queensland, WA, SA and NT. ^b 'All diagnoses' excludes care involving dialysis.

Source: AIHW (unpublished), derived from the National Hospital Morbidity Database, table 10A.3; 2009 Report, figure 10.9, p. 10.15.

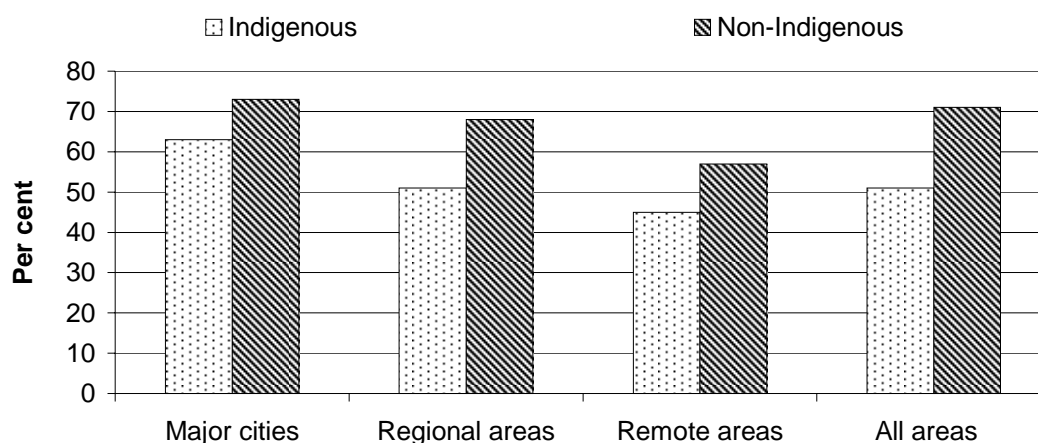
Figure 10.3 Separations with a procedure recorded, by Indigenous status of patient, July 2005–June 2007^{a, b, c}



^a Includes all patients treated in public hospitals and public patients treated in private hospitals. Private hospital data for NT were not available therefore results for NT include public hospital data only. ^b The AIHW advised that only data for NSW, Victoria, Queensland, WA, SA and the NT are considered to be acceptable for the purpose of analysis. Nevertheless, data for these jurisdictions should be interpreted with caution as there are jurisdictional differences in data quality. In addition, these jurisdictions are not necessarily representative of the excluded jurisdictions. ^c 'All diagnoses' excludes care involving dialysis.

Source: AIHW (unpublished), derived from the National Hospital Morbidity Database; table 10A.4; 2009 Report, figure 10.10, p. 10.16.

Figure 10.4 Separations with a procedure recorded, by Indigenous status of patient and remoteness, July 2005–June 2007^{a, b}



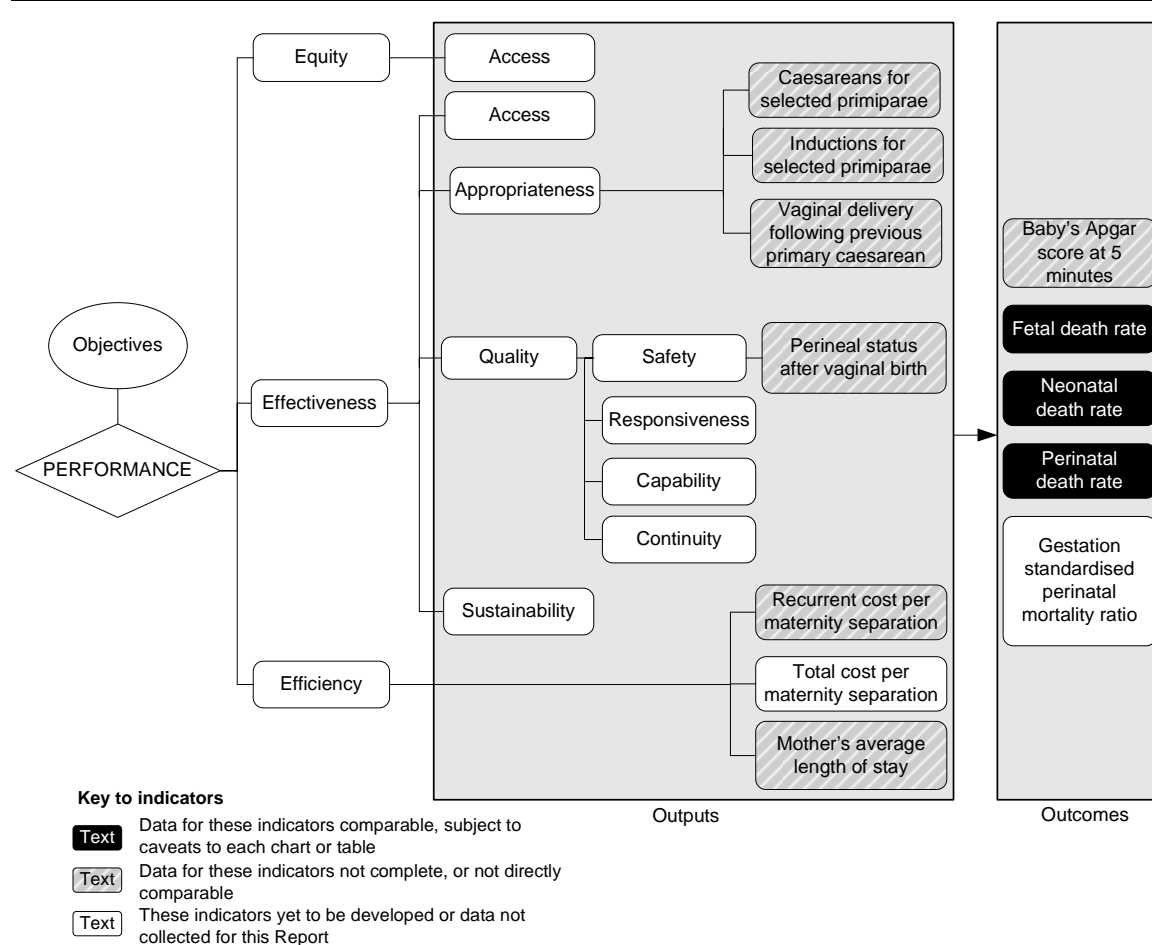
^a Includes all patients treated in public hospitals and public patients treated in private hospitals in NSW, Victoria, Queensland, WA, SA and NT. Private hospital data for NT were not available therefore results for NT include public hospital data only. ^b 'All diagnoses' excludes care involving dialysis.

Source: AIHW (unpublished), derived from the National Hospital Morbidity Database; table 10A.5; 2009 Report, figure 10.11, p. 10.16.

Framework of performance indicators for maternity services

Data for Indigenous people are reported for a subset of the performance indicators for maternity services in the 2009 Report. It is important to interpret these data in the context of the broader performance indicator framework outlined in figure 10.5. The performance indicator framework shows which data are comparable in the 2009 Report. For data that are not considered directly comparable, the text includes relevant caveats and supporting commentary.

Figure 10.5 Performance indicators for maternity services



Source: 2009 Report, figure 10.25, p. 10.73.

Fetal death rate

The 'fetal death rate' is an indicator of governments' objective to deliver maternity services that are safe and of high quality (box 10.2). Fetal deaths rates by the Indigenous status of the mother are shown in figure 10.6.

Box 10.2 Fetal death rate

Fetal death (stillbirth) is the birth of a child who did not at any time after delivery breathe or show any other evidence of life, such as a heartbeat. Fetal deaths by definition include only infants weighing at least 400 grams or of a gestational age of at least 20 weeks.

'Fetal death rate' is reported as an indicator because maternity services for admitted patients have some potential to reduce the likelihood of fetal deaths. However, this potential is limited and other factors (such as the health of mothers and the progress of pregnancy before hospital admission) are also important.

The 'fetal death rate' is calculated as the number of fetal deaths divided by the total number of births (live births and fetal deaths combined), by State or Territory of usual residence of the mother. The rate of fetal deaths is expressed per 1000 total births. This indicator is also reported by the Indigenous status of the mother.

Low fetal death rates may indicate high quality maternity services. In jurisdictions where the number of fetal deaths is low, small annual fluctuations in the number affect the annual rate of fetal deaths.

Differences in the 'fetal death rate' between jurisdictions are likely to be due to factors outside the control of maternity services for admitted patients. To the extent that the health system influences fetal death rates, the health services that may have an influence include outpatient services, general practice services and maternity services.

Data reported for this indicator are comparable.

Neonatal death rate

The 'neonatal death rate' is an indicator of governments' objective to deliver maternity services that are safe and of high quality (box 10.3). Neonatal death rates by the Indigenous status of the mother are shown in figure 10.6.

Box 10.3 Neonatal death rate

Neonatal death is the death of a live born infant within 28 days of birth (see section 10.8 for a definition of a live birth). As for fetal deaths, a range of factors contribute to neonatal deaths. However, the influence of maternity services for admitted patients is greater for neonatal deaths than for fetal deaths, through the management of labour and the care of sick and premature babies.

The 'neonatal death rate' is calculated as the number of neonatal deaths divided by the number of live births registered. The rate of neonatal deaths is expressed per 1000 live births, by state or territory of usual residence of the mother. This indicator is also reported by the Indigenous status of the mother.

Low 'neonatal death rates' may indicate high quality maternity services. The rate tends to be higher among premature babies, so a lower neonatal death rate may also indicate a lower percentage of pre-term births.

Data reported for this indicator are comparable.

Perinatal death rate

The 'perinatal death rate' is an indicator of governments' objective to deliver maternity services that are safe and of high quality (box 10.4). Perinatal death rates by the Indigenous status of the mother are shown in figure 10.6.

Box 10.4 Perinatal death rate

A perinatal death is a fetal or neonatal death (boxes 10.2 and 10.3).

The 'perinatal death rate' is calculated as the number of perinatal deaths divided by the total number of births (live births registered and fetal deaths combined) in each jurisdiction. It is expressed per 1000 total births. This indicator is also reported by the Indigenous status of the mother.

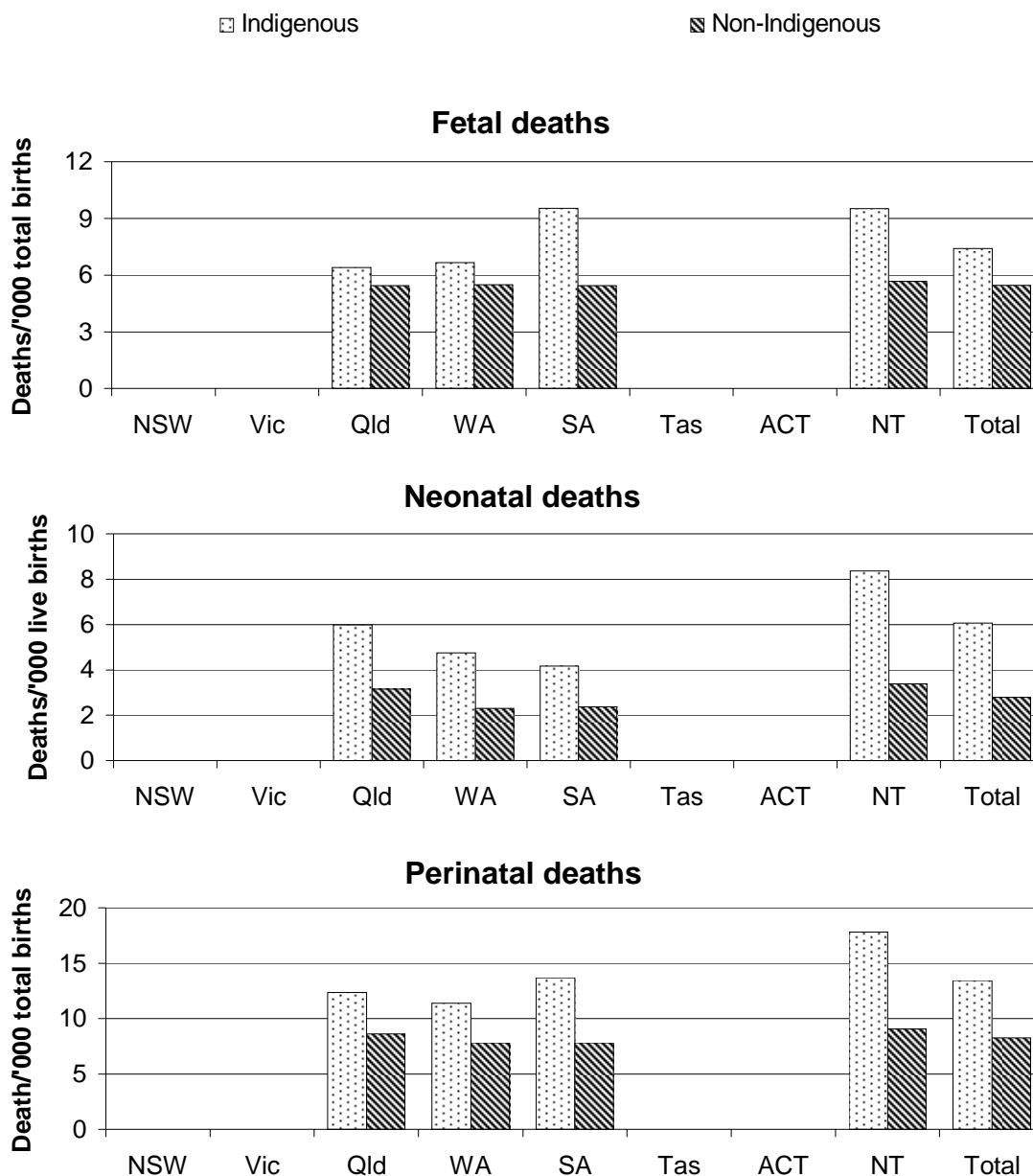
The caveats that apply to fetal and neonatal death rates also apply to perinatal death rates.

Data reported for this indicator are comparable.

New data for fetal, neonatal and perinatal deaths for Indigenous people were not available for this report so data for 2001–2005 are reported again this year. Fetal, neonatal and perinatal deaths data by the Indigenous status of the mother are available for Queensland, WA, SA and the NT only. Data for other jurisdictions are not included due to small numbers or poor coverage rates (ABS 2004). In those jurisdictions for which data are available, the fetal, neonatal and perinatal death

rates for Indigenous people are generally higher than those for non-Indigenous people (figure 10.6).

Figure 10.6 **Fetal, neonatal and perinatal deaths, by Indigenous status of mother 2001–2005^a**



^a The total relates to those jurisdictions for which data are published. Data are not available for other jurisdictions.

Source: ABS (unpublished) *Causes of Death*, Cat. no. 3303.0; table 10A.6; 2009 Report, figure 10.34, p 10.90.

Future directions in performance reporting

Priorities for future reporting on public hospitals and maternity services include improving the comprehensiveness of reporting by filling in gaps in the performance indicator frameworks. Important gaps in reporting for public hospitals include indicators of equity of access to services for special needs groups (particularly Indigenous people), and indicators of continuity of care. Gaps in the maternity services framework include equity of access, effectiveness of access, three aspects of quality — responsiveness, capability and continuity — and the effectiveness subdimension of sustainability.

Attachment tables

Attachment tables for data within this chapter are contained in the attachment to the compendium. These tables are identified in references throughout this chapter by an 'A' suffix (for example, table 10A.3 is table 3 in the public hospitals attachment). The tables included in the attachment are listed below.

- Table 10A.1** Separations by hospital sector and Indigenous status of patient, 2006-07
- Table 10A.2** Separations per 1000 people, by Indigenous status of patient (number)
- Table 10A.3** Hospitalisations with a procedure recorded, selected principal diagnoses, by Indigenous status of patient, July 2005 – June 2007 (per cent)
- Table 10A.4** Hospitalisations with a procedure recorded, by Indigenous status of patient, July 2005 – June 2007 (per cent)
- Table 10A.5** Hospitalisations with a procedure recorded, by Indigenous status of patient and remoteness, July 2005 – June 2007 (per cent)
- Table 10A.6** Perinatal, neonatal and fetal deaths, by Indigenous status of mother 2001–2005

References

- ABS (Australian Bureau of Statistics) 2004, *Deaths, Australia 2003*, Cat. no. 3302.0, Canberra.
- AIHW (Australian Institute of Health and Welfare) 2005, *Improving the Quality of Indigenous Identification in Hospital Separations Data*, AIHW Cat. no. HSE 101, Canberra.
- 2006, *Australian Hospital Statistics*, AIHW, Canberra.
- 2008 METeOR AIUHW Metadata Online Registry <http://meteor.aihw.gov.au/content/index.phtml/itemId/181162> (accessed 12 November 2008).
- AHMAC (Australian Health Ministers' Advisory Council) 2006, *Aboriginal and Torres Strait Islander Health Performance Framework Report 2006*, AHMAC, Canberra.
- NCCH (National Centre for Classification in Health) 2008, *The International Statistical Classification of Diseases and Related Health Problems, 10th Revision*, Australian Modification, 6th edition (ICD-10-AM), Sydney.

10A Public hospitals — attachment

Definitions for the indicators and descriptors in this attachment are in section 10.8 of the chapter in the *Report on Government Services 2009* (2009 Report). Data in this Report are examined by the Health Working Group, but have not been formally audited by the Secretariat. Unsourced information was obtained from the Australian, State and Territory governments.

This file is available in Adobe PDF format on the Review web page (www.pc.gov.au/gsp). Users without Internet access can contact the Secretariat to obtain these tables (details on the inside front cover of the Report).

Attachment contents

Table 10A.1	Separations by hospital sector and Indigenous status of patient, 2006-07
Table 10A.2	Separations per 1000 people, by Indigenous status of patient (number)
Table 10A.3	Hospitalisations with a procedure recorded, selected principal diagnoses, by Indigenous status of patient, July 2005 – June 2007 (per cent)
Table 10A.4	Hospitalisations with a procedure recorded, by Indigenous status of patient, July 2005 – June 2007 (per cent)
Table 10A.5	Hospitalisations with a procedure recorded, by Indigenous status of patient and remoteness, July 2005 – June 2007 (per cent)
Table 10A.6	Perinatal, neonatal and fetal deaths, by Indigenous status of mother 2001–2005

Table 10A.1

Table 10A.1 Separations by hospital sector and Indigenous status of patient, 2006-07 (a), (b)

Unit	NSW	Vic	Qld	WA	SA	Tas	ACT	NT	Total (c)
Public hospitals									
Indigenous people	no. 50 557	11 444	60 193	42 251	17 278	np	np	57 863	239 586
Non-Indigenous people	no. 1 394 539	1 296 086	710 634	408 645	362 120	np	np	27 914	4 199 938
Not reported	no. 17 033	6 712	13 803	–	11 249	np	np	36	48 833
Total population	no. 1 462 129	1 314 242	784 630	450 896	390 647	np	np	85 813	4 488 357
Private hospitals									
Indigenous people	no. 1 138	480	3 855	8 294	457	np	np	np	14 224
Non-Indigenous people	no. 797 112	755 411	654 547	280 869	225 520	np	np	np	2 713 459
Not reported	no. 10 126	5 526	83 612	–	3 347	np	np	np	102 611
Total population	no. 808 376	761 417	742 014	289 163	229 324	np	np	np	2 830 294
Indigenous separations (% of total separations)									
Public hospitals	% 3.5	0.9	7.7	9.4	4.4	np	np	67.4	5.3
Private hospitals	% 0.1	0.1	0.5	2.9	0.2	np	np	np	0.5
All hospitals	% 2.3	0.6	4.2	6.8	2.9	np	np	np	3.5
Separations in public hospitals (% of total separations)									
Indigenous people	% 97.8	96.0	94.0	83.6	97.4	np	np	np	94.4
Non-Indigenous people	% 63.6	63.2	52.1	59.3	61.6	np	np	np	60.8

(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 the jurisdictions.

(c) Total includes data only for NSW, Queensland, WA, SA and the NT (public hospitals only), for which the quality of Indigenous identification is considered acceptable for the purposes of analysis. Caution should be used in the interpretation of these data because of jurisdictional differences in data quality. In addition, these jurisdictions are not necessarily representative of the excluded jurisdictions.

– Nil or rounded to zero. np Not published.

Source: AIHW 2008. Australian hospital statistics 2006-07. Health Services series no. 31. Cat. No. HSE 55. Canberra: AIHW; 2009 Report, table 10A.10.

Table 10A.2

Table 10A.2 **Separations per 1000 people, by Indigenous status of patient (number) (a), (b), (c)**

	<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>WA (d)</i>	<i>SA</i>	<i>Tas</i>	<i>ACT</i>	<i>NT</i>	<i>Aust</i>	<i>Total (e)</i>
2002-03										
Public hospitals										
Indigenous people	np	np	685.2	809.4	788.1	np	np	1 223.3	np	np
Total population	np	np	189.4	195.4	231.0	np	np	422.5	np	np
Private Hospitals										
Indigenous people	np	np	64.1	109.7	16.2	np	np	np	np	np
Total population	np	np	162.8	148.1	130.0	np	np	np	np	np
2003-04										
Public hospitals										
Indigenous people	np	np	710.9	789.3	853.9	np	np	1 286.2	np	np
Total population	np	np	189.3	191.0	235.9	np	np	428.9	np	np
Private Hospitals										
Indigenous people	np	np	70.7	198.3	51.2	np	np	np	np	np
Total population	np	np	167.8	149.8	124.8	np	np	np	np	np
2004-05										
Public hospitals										
Indigenous people	np	np	733.6	821.5	822.2	np	np	1 441.0	np	907.0
Total population	np	np	188.1	195.2	225.3	np	np	456.2	np	205.2
Private Hospitals (f)										
Indigenous people	np	np	np	np	np	np	np	np	np	np
Total population	np	np	np	np	np	np	np	np	np	np
2005-06										
Public hospitals										
Indigenous people	495.6	np	745.4	845.2	875.0	np	np	1 548.0	np	792.1
Total population	204.7	np	188.5	198.8	229.7	np	np	491.4	np	205.7
Private Hospitals (f)										
Indigenous people	np	np	np	np	np	np	np	np	np	np
Total population	np	np	np	np	np	np	np	np	np	np
2006-07										
Public hospitals										
Indigenous people	528.0	624.3	756.7	876.5	929.3	np	np	1 584.8	np	787.5
Total population	205.9	246.6	218.7	218.1	232.6	np	np	480.6	np	218.7
Private Hospitals (f)										
Indigenous people	np	np	np	np	np	np	np	np	np	np
Total population	np	np	np	np	np	np	np	np	np	np

(a) Directly age standardised to the Australian population at 30 June 2001.

(b) Identification of Aboriginal and Torres Strait Islander patients is not considered to be complete and completeness varies among jurisdictions. The variation in the number of Indigenous separations per 1000 Indigenous population among the states and territories suggests that there was variation in the proportion of Indigenous persons who were identified as such in the hospital morbidity data collections and/or in the total population.

Table 10A.2 Separations per 1000 people, by Indigenous status of patient (number) (a), (b), (c)

	<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>WA (d)</i>	<i>SA</i>	<i>Tas</i>	<i>ACT</i>	<i>NT</i>	<i>Aust</i>	<i>Total (e)</i>
(c)	The quality of the data provided for Indigenous status since 2001-02 has improved due to the use of the National Health Data Dictionary definitions by all jurisdictions. It is still in need of improvement, however, the AIHW has advised that data for for NSW, Victoria, Queensland, SA, WA and the NT are of acceptable quality in 2005-06. Nevertheless data for these jurisdictions should be interpreted with caution as there are jurisdictional differences in data quality and changes in hospitalisation rates for Indigenous people over time may include a component due to improved identification. Indigenous status should therefore be interpreted cautiously.									
(d)	In WA, separations for public patients at Joondalup and Peel Health Campuses are included in 2006-07 public hospitals figures but not in those for previous years.									
(e)	For 2005-06, the total rates include data only for NSW, Queensland, WA, SA, and the NT. Caution should be used in the interpretation of these data because of jurisdictional differences in data quality. It should be noted that data for these jurisdictions are not necessarily representative of the other jurisdictions.									
(f)	Data quality of Indigenous status in the private sector is considered to be unacceptable and therefore data have been suppressed for the private sector.									

na Not available. **np** Not published.

Source: AIHW (unpublished), derived from the National Hospital Morbidity Database; 2009 Report, table 10A.11.

Table 10A.3

Table 10A.3 Hospitalisations with a procedure recorded, selected principal diagnoses, by Indigenous status of patient, July 2005 – June 2007 (per cent) (a), (b)

	<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>WA</i>	<i>SA</i>	<i>Tas</i>	<i>ACT</i>	<i>NT</i>	<i>Aust (c)</i>
Procedures for Indigenous patients									
Neoplasms (Cancer)	87	93	86	88	92	np	np	82	87
Diseases of the blood	80	85	80	90	87	np	np	81	83
Diseases of the eye	84	90	77	81	84	np	np	73	80
Diseases of the ear	80	92	77	80	70	np	np	77	79
Diseases of the musculoskeletal system	63	79	59	66	69	np	np	64	64
Pregnancy, childbirth	59	64	55	68	65	np	np	56	59
Diseases of the digestive system	63	72	58	60	60	np	np	60	61
Endocrine, nutritional and metabolic disorders	56	68	50	62	60	np	np	72	60
Diseases of the genitourinary system	63	72	56	55	63	np	np	54	58
Injury, poisoning, external causes	55	65	52	60	55	np	np	61	57
Diseases of the skin	50	60	45	54	57	np	np	60	53
Diseases of the circulatory system	53	63	46	56	65	np	np	49	52
Infectious and parasitic diseases	19	41	21	32	33	np	np	36	28
Diseases of the nervous system	43	60	38	35	44	np	np	50	42
Diseases of the respiratory system	34	48	27	36	31	np	np	32	33
All diagnoses	62	75	67	76	73	np	np	80	72
Procedures for all other patients (d)									
Neoplasms (Cancer)	93	95	92	93	94	np	np	90	94
Diseases of the blood	90	93	91	95	93	np	np	81	92
Diseases of the eye	95	97	93	97	97	np	np	91	96
Diseases of the ear	73	83	80	80	78	np	np	76	79
Diseases of the musculoskeletal system	81	83	81	90	85	np	np	79	83
Pregnancy, childbirth	69	68	67	78	74	np	np	62	70
Diseases of the digestive system	77	78	75	85	78	np	np	78	78
Endocrine, nutritional and metabolic disorders	73	77	70	83	73	np	np	73	75
Diseases of the genitourinary system	76	79	75	83	78	np	np	72	78
Injury, poisoning, external causes	68	70	64	75	65	np	np	70	68
Diseases of the skin	61	66	60	69	72	np	np	59	64
Diseases of the circulatory system	68	67	60	72	66	np	np	59	66
Infectious and parasitic diseases	31	42	31	41	33	np	np	32	35
Diseases of the nervous system	74	73	66	82	76	np	np	76	73
Diseases of the respiratory system	52	57	49	55	48	np	np	42	53
All diagnoses	73	77	71	83	75	np	np	67	75

Table 10A.3 **Hospitalisations with a procedure recorded, selected principal diagnoses, by Indigenous status of patient, July 2005 – June 2007 (per cent) (a), (b)**

- (a) Includes all patients treated in public hospitals and public patients treated in private hospitals.
- (b) Proportions are indirectly age standardised using the age and cause specific rates of other Australians as the standard.
- (c) Includes data for NSW, Victoria, Queensland, WA, SA and NT only.
- (d) Includes non-Indigenous patients and those for whom Indigenous status was not stated.

np Not published.

Source: AIHW (unpublished), derived from the National Hospital Morbidity Database; 2009 Report, table 10A.12.

Table 10A.4 Hospitalisations with a procedure recorded, by Indigenous status of patient, July 2005 – June 2007 (per cent) (a), (b)

	<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>WA</i>	<i>SA</i>	<i>Tas</i>	<i>ACT NT</i> (c)	
Public hospitals and public patients (d)								
Indigenous hospitalisations with procedure reported	50	62	47	55	55	np	np	52
Hospitalisations with procedure reported for all other patients (e)	68	73	67	79	72	np	np	64
Total patients (f)								
Indigenous hospitalisations with procedure reported	51	62	49	55	56	np	np	52
Hospitalisations with procedure reported for all other patients (e)	79	80	80	85	80	np	np	64

(a) Proportions are indirectly age standardised using the age and cause specific rates of other Australians as the standard.

(b) Excludes hospitalisations with a principal diagnosis of care involving dialysis.

(c) Excludes private hospital data for NT.

(d) Includes all patients treated in public hospitals and public patients treated in private hospitals.

(e) Includes non-Indigenous patients and those for whom Indigenous status was not stated.

(f) Includes all patients in public and private hospitals.

np Not published.

Source: AIHW (unpublished), derived from the National Hospital Morbidity Database; 2008 Report, table 10A.13.

Table 10A.5 Hospitalisations with a procedure recorded, by Indigenous status of patient and remoteness, July 2005 – June 2007 (per cent) (a), (b)

	<i>Unit</i>	<i>Major cities</i>	<i>Regional areas</i>	<i>Remote areas</i>	<i>All areas (c)</i>
Public hospitals and public patients (d)					
Indigenous hospitalisations with procedure reported	%	63	51	45	51
Hospitalisations with procedure reported for all other patients (e)	%	73	68	57	71
Total patients (f)					
Indigenous hospitalisations with procedure reported	%	64	52	45	52
Hospitalisations with procedure reported for all other patients (e)	%	82	76	65	80

(a) Proportions are indirectly age standardised using the age and cause specific rates of other Australians as the standard.

(b) Excludes hospitalisations with a principal diagnosis of care involving dialysis.

(c) Includes data for NSW, Victoria, Queensland, WA, SA and NT only. Excludes private hospital data for NT.

(d) Includes all patients treated in public hospitals and public patients treated in private hospitals.

(e) Includes non-Indigenous patients and those for whom Indigenous status was not stated.

(f) Includes all patients in public and private hospitals.

Source: AIHW (unpublished), derived from the National Hospital Morbidity Database; 2009 Report, table 10A.14.

Table 10A.6

Table 10A.6 Perinatal, neonatal and fetal deaths, by Indigenous status of mother 2001–2005 (a)

	Unit	NSW	Vic	Qld	WA	SA	Tas	ACT	NT	Total (b)
Fetal deaths										
Indigenous										
Total births (c)	no.	np	np	17 333	8 261	3 144	np	np	8 084	36 822
Fetal deaths	no.	np	np	111	55	30	np	np	77	273
Fetal death rate	per 1000 total births	np	np	6.4	6.7	9.5	np	np	9.5	7.4
Non-Indigenous										
Total births (c)	no.	np	np	223 793	109 944	82 780	np	np	10 389	426 906
Fetal deaths	no.	np	np	1 220	605	451	np	np	59	2 335
Fetal death rate	per 1000 total births	np	np	5.5	5.5	5.4	np	np	5.7	5.5
Neonatal deaths										
Indigenous										
Adjusted live births (d)	no.	np	np	17 222	8 206	3 114	np	np	8 007	36 549
Neonatal deaths	no.	np	np	103	39	13	np	np	67	222
Neonatal death rate	per 1000 live births	np	np	6.0	4.8	4.2	np	np	8.4	6.1
Non-Indigenous										
Adjusted live births (d)	no.	np	np	222 573	109 339	82 329	np	np	10 330	424 571
Neonatal deaths	no.	np	np	705	253	196	np	np	35	1 189
Neonatal death rate	per 1000 live births	np	np	3.2	2.3	2.4	np	np	3.4	2.8
Perinatal deaths										
Indigenous										
Total births (c)	no.	np	np	17 333	8 261	3 144	np	np	8 084	36 822
Perinatal deaths	no.	np	np	214	94	43	np	np	144	495
Perinatal death rate	per 1000 total births	np	np	12.3	11.4	13.7	np	np	17.8	13.4
Non-Indigenous										
Total births (c)	no.	np	np	223 793	109 944	82 780	np	np	10 389	426 906
Perinatal deaths	no.	np	np	1 925	858	647	np	np	94	3 524

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Table 10A.6

Table 10A.6 Perinatal, neonatal and fetal deaths, by Indigenous status of mother 2001–2005 (a)

	Unit	NSW	Vic	Qld	WA	SA	Tas	ACT	NT	Total (b)
Perinatal death rate	per 1000 total births	np	np	8.6	7.8	7.8	np	np	9.0	8.3

(a) Rates are expressed per 1000 total births for fetal and perinatal deaths and per 1000 adjusted live births for neonatal deaths.

(b) Total relates to the jurisdictions for which data are published.

(c) Total births is the sum of adjusted live births and fetal deaths.

(d) Live births adjusted to exclude those records where birthweight was known to be less than 400 grams.

np Not published.

Source: ABS, *Causes of Death, Cat. no. 3303.0*, Canberra (unpublished); 2009 Report, table 10A.106.