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# E Health preface

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### **Attachment tables**

Attachment tables are identified in references throughout this preface by an 'A' suffix (for example, table EA.3). A full list of attachment tables is provided at the end of this preface, and the attachment tables themselves are available on the CD-ROM enclosed with the Report or from the Review website at <[www.pc.gov.au/gsp](http://www.pc.gov.au/gsp)>.

Health services are concerned with promoting, restoring and maintaining a healthy society. They involve illness prevention, health promotion, the detection and treatment of illness and injury, and the rehabilitation and palliative care of individuals who experience illness and injury. Broadly defined, the health system also includes a range of activities that raise awareness of health issues, thereby reducing the risk and onset of illness and injury.

Health services in Australia are delivered by a variety of government and non-government providers in a range of service settings (box E.1). The Report primarily concentrates on the performance of public hospitals (chapter 10), primary and community health services (including general practice) (chapter 11) and the interactions among different service mechanisms for dealing with two health

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management issues: mental health and breast cancer (chapter 12). These services are selected for reporting as they:

- make an important contribution to the health of the community
- reflect government priorities, for example, they fall within the National Health Priority Areas
- represent significant components of government recurrent expenditure on health care
- have common objectives across jurisdictions.

The Australian, State, Territory and local governments spent \$51.3 billion (expressed in 2006-07 dollars) on public hospitals, medical services (including payments to general practitioners [GPs] and other specialist practitioners), community and public health, medications and public dental services in 2006-07. These areas of health care activity accounted for 84.9 per cent of government recurrent health expenditure in 2006-07 (table EA.4). Total public health expenditure by Australian and State and Territory governments on breast cancer screening was \$134 million in 2006-07 (table 12A.6). This includes funding by the Australian Government to states and territories through the Public Health Outcome Funding Agreements (PHOFAs). There are no specific estimates of government expenditure on the management of breast cancer for 2006-07, as reliable estimates have not yet been developed. Government recurrent expenditure on specialist mental health services was estimated to be around \$4.5 billion in 2006-07 (tables 12A.35 and 12A.36). Some of this expenditure was on psychiatric care provided by public (non-psychiatric) hospitals (chapters 10 and 12).

Estimates of government expenditure on health care provision exclude high level residential aged care services and patient transport services (ambulance services including pre-hospital care, treatment and transport services). These services are not covered in the health chapters in this Report, but are reported separately in chapter 9 ('Emergency management') and chapter 13 ('Aged care services').

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### Box E.1 Some common health terms

**Community health services:** health services for individuals and groups delivered in a community setting, rather than via hospitals or private facilities.

**General practitioners:** medical practitioners who, for the purposes of Medicare, are vocationally registered under s. 3F of the *Health Insurance Act 1973* (Cwlth), hold fellowship of the Royal Australian College of General Practitioners or equivalent, or hold a recognised training placement.

**Medicare:** covers Australian Government funding of private medical and optometrical services (the Medicare Benefits Schedule [MBS]); selected medications (under the Pharmaceutical Benefits Scheme [PBS]); and public hospital funding (under the Australian Health Care Agreements [AHCAs]), aimed at providing public hospital services free of charge to public patients.

**Primary health care:** services that:

- provide the first point of contact with the health system
- have a particular focus on prevention of illness and/or early intervention
- are intended to maintain people's independence and maximise their quality of life through care and support at home or in local community settings.

**Public health:** an organised social response to protect and promote health, and to prevent illness, injury and disability. The starting point for identifying public health issues, problems and priorities, and for designing and implementing medical interventions, is the population (or subgroups). Public health is characterised by a focus on the health of the population (and particular at-risk groups) and complements clinical provision of health care services.

**Public hospital:** a hospital that provides free treatment and accommodation to eligible admitted people who elect to be treated as public patients. It also provides free services to eligible non-admitted patients and may provide (and charge for) treatment and accommodation services to private patients. Charges to non-admitted patients and admitted patients on discharge may be levied in accordance with the AHCAs (for example, charges for aids and appliances).

Other major areas of government involvement in health provision not covered in the health chapters, or elsewhere in the Report, include:

- public health programs, other than those for breast cancer and mental health
- funding for specialist medical practitioners.

Other government services — such as education, public housing, sanitation and water supply — also influence health outcomes. These are not formally part of Australia's health system and are not the subject of the health chapters. Education

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(chapters 4 and 5) and public and community housing (chapter 16) are included in other chapters of the Report.

Indigenous people and people in rural and remote areas often have different health care needs and may experience poorer health outcomes than those of the general community. It is a priority of the Steering Committee to improve reporting on the performance of government provided health care services for Indigenous people and for residents in regional Australia.

## **Profile of health services**

This section provides a brief overview of Australian health services as a whole. More detailed descriptions of public hospitals, primary and community health services, and mental health and breast cancer services are provided in chapters 10, 11 and 12 respectively.

## **Roles and responsibilities**

The Australian Government's health services activities include:

- funding States and Territories through the Australian Health Care Agreements to deliver public hospital services
- providing rebates to patients for medical services provided by GPs and specialists and delivering public health programs
- funding the PBS
- funding high level residential aged care services
- funding private health insurance rebates
- funding for improved access to primary health care, specialist services and infrastructure for rural and remote communities
- funding Indigenous-specific primary health
- promulgating and coordinating health regulations
- undertaking health policy research and policy coordination across the Australian, State and Territory governments
- funding hospital services and the provision of other services through the Department of Veterans' Affairs
- funding the Medicare Safety Net.

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State and Territory governments contribute funding for, and deliver, a range of health care services, such as:

- public hospital services
- public health programs (such as health promotion programs and disease prevention)
- community health services (including services specifically for Indigenous people)
- public dental services
- mental health programs
- patient transport
- the regulation, inspection, licensing and monitoring of premises, institutions and personnel
- health policy research and policy development
- specialist palliative care.

Local governments are generally involved in environmental control and a range of community-based and home care services, although the exact nature of their involvement varies across jurisdictions. The non-government sector plays a significant role in the health system, delivering general practice and specialist medical and surgical services, dental services, a range of other allied health services (such as optometry and physiotherapy), private hospitals and high level residential aged care services.

## **Funding**

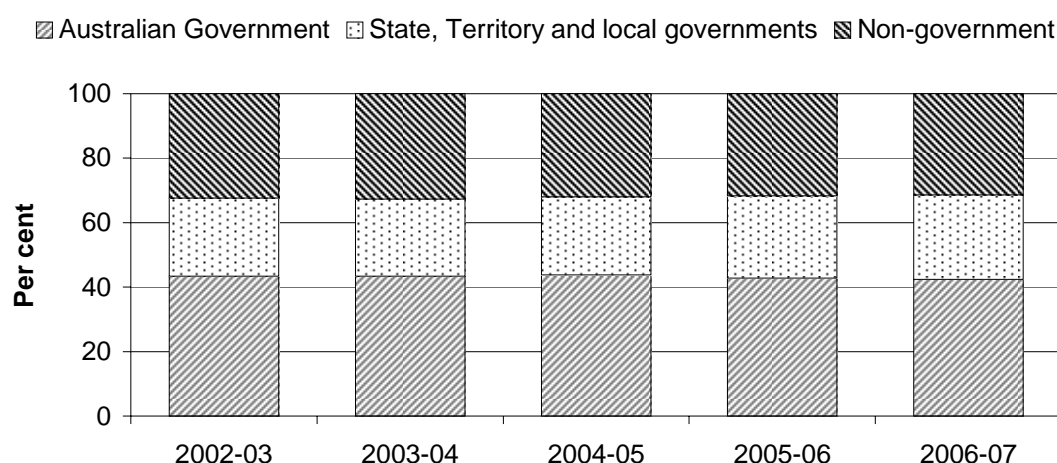
Funding the components of Australia's health care system is a complicated process. The Australian Government subsidises many of the services provided by the non-government sector (mostly through the MBS, the PBS, the private health insurance rebate and the Medicare Safety Net) and contributes funding to a number of nationally coordinated public health programs. It also provides funding under the AHCAs to the states and territories for public hospital services.

State and Territory governments, through income raised by taxes and from both general and specific purpose grants received from the Australian Government, contribute funds to public health, community health services and public hospitals (through casemix and other payments), which in turn fund specialists (through limited fee-for-service or sessional arrangements). Private individuals, health

insurance funds and other non-government institutions also contribute funding to a range of health care providers, both government and non-government.

In 2006-07, the Australian, State, Territory and local governments spent \$64.5 billion on health services, which represents 68.7 per cent of total health expenditure. The Australian Government accounted for the largest proportion of health care expenditure in Australia — \$39.9 billion or 42.4 per cent of the total in 2006-07. State, Territory and local governments contributed \$24.7 billion or 26.2 per cent of total health expenditure in that year [Australian Institute of Health and Welfare (AIHW) 2008d)]. These shares have remained relatively constant over the past 10 years. The remainder was paid by individuals, health insurance funds and workers compensation and compulsory motor vehicle third party insurance providers (figure E.1 and tables EA.1 and EA.7).

**Figure E.1 Total health expenditure, by source of funds (2006-07 dollars)<sup>a, b, c, d</sup>**



<sup>a</sup> Includes recurrent and capital expenditure. <sup>b</sup> Includes expenditure on high level residential aged care (reported in chapter 13) and ambulance services (reported in chapter 9). <sup>c</sup> Expenditure by Australian Government and non-government sources has been adjusted for tax expenditure in relation to private health incentives claimed through the taxation system. <sup>d</sup> 'Non-government' includes expenditure by individuals, health insurance funds, workers compensation and compulsory motor vehicle third party insurers.

Source: AIHW (2008) *Health Expenditure Australia 2006-07*, Cat. no. HWE 42, Health and Welfare Expenditure Series no. 35, AIHW, Canberra; table EA.1.

## Size and scope of sector

Total expenditure (recurrent and capital) on health care services in Australia was estimated to be \$94.0 billion in 2006-07 (table EA.1). This total was estimated to account for 9.0 per cent of gross domestic product in 2006-07, the same percentage as the previous year and an increase of 1.3 per cent from the 7.7 per cent of GDP in

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1996-97 (AIHW 2008d). This indicates that health expenditure grew faster than the economy as a whole over the decade to 2006-07.

The growth of total health expenditure over the past decade was largely the result of an increase in expenditure by the Australian, State, Territory and local governments, which grew proportionally faster than expenditure by non-government sources. Between 1996-97 and 2006-07, the average annual rate of growth in real expenditure was 4.9 per cent for the Australian Government, 5.2 per cent for State, Territory and local governments, and 3.9 per cent for non-government sources (AIHW 2008d).<sup>1</sup>

The introduction of programs supporting private health insurance was a significant factor in the increase in expenditure by the Australian Government in the late 1990s. On 1 January 1999, the Australian Government replaced the Private Health Insurance Incentive Scheme with a 30 per cent rebate on private health insurance premiums. Australian Government expenditure on the rebate has increased each year from \$2.3 billion in 2002-03 to \$3.5 billion in 2006-07 in current prices (that is, not adjusted for inflation) (AIHW 2008d).

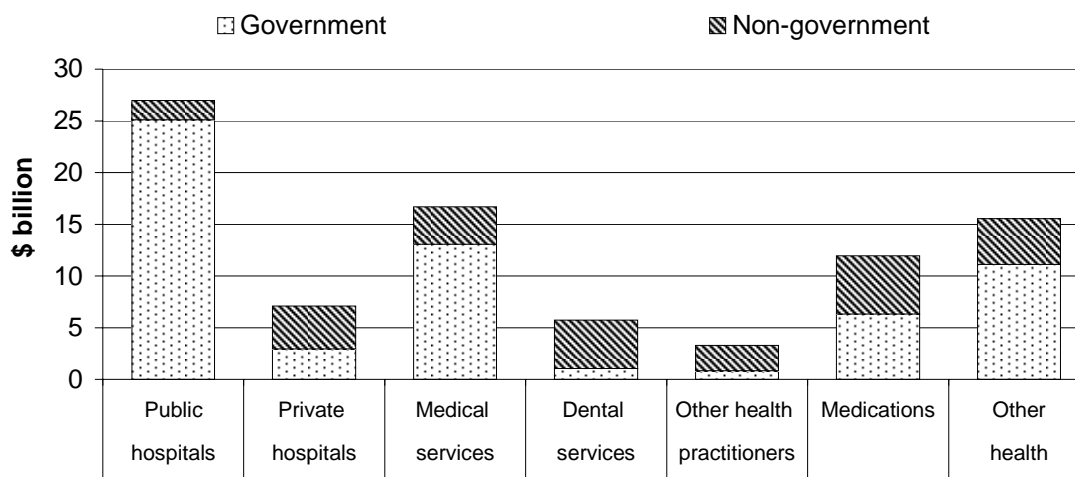
The Medicare Safety Net, introduced in March 2004, has also contributed to increased Australian Government expenditure. Under the Medicare Safety Net, patients are reimbursed for 80 per cent of their out-of-pocket costs for medical treatment received in a non-hospital setting, once a certain threshold is reached in a calendar year. Total Medicare Benefits Schedule Medicare Safety Net expenditure was \$257.8 million in the year ending 31 December 2005 (DoHA 2006a).

Public hospitals were the single largest item of recurrent health care expenditure by government and non-government sources in 2006-07. Total real expenditure on public hospitals (which excludes expenditure on community and public health services, dental and ambulance services and health research undertaken by public hospitals) was \$27.0 billion, of which governments paid \$25.1 billion (figure E.2). Public hospitals accounted for 41.5 per cent of government recurrent expenditure on health care services in 2006-07. Medical services accounted for \$13.1 billion of government expenditure (21.6 per cent of total health expenditure) and medications accounted for \$6.3 billion (10.4 per cent) (table EA.2).

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<sup>1</sup> There was a break in series due to differences in definitions of public hospital and public hospital services between 2002-03 and 2003-04.

Figure E.2 **Recurrent health expenditure, by area of expenditure, 2006-07**<sup>a, b, c, d, e, f</sup>



<sup>a</sup> Government funding of recurrent health expenditure is not adjusted for non-specific tax expenditure. <sup>b</sup> Almost all expenditure on medical services relates to services provided by practitioners on a fee-for-service basis, including those provided to private patients in hospitals. Excluded are the medical component of hospital care provided to public hospital inpatients and the outpatient medical services provided at public hospitals. <sup>c</sup> Medications include (but are not limited to) those provided under the PBS. <sup>d</sup> High level residential aged care services cover services to those residents requiring and receiving a level of care that falls within one of the four highest levels of care. These services are commonly classified as health services expenditure, but are discussed separately in this Report (chapter 13). <sup>e</sup> Government funding on other health practitioners includes DVA funding and DoHA hearing services (audiology component) which was previously included in 'other health'. <sup>f</sup> Other health expenditure includes ambulance, other institutional health nec., dental services, community health, aids and appliances, public health, other non-institutional health nec., administration and research.

Source: AIHW (2008) *Health Expenditure Australia 2006-07*, Cat. no. HWE 42, Health and Welfare Expenditure Series no. 35, AIHW, Canberra; tables EA.2 and EA.3.

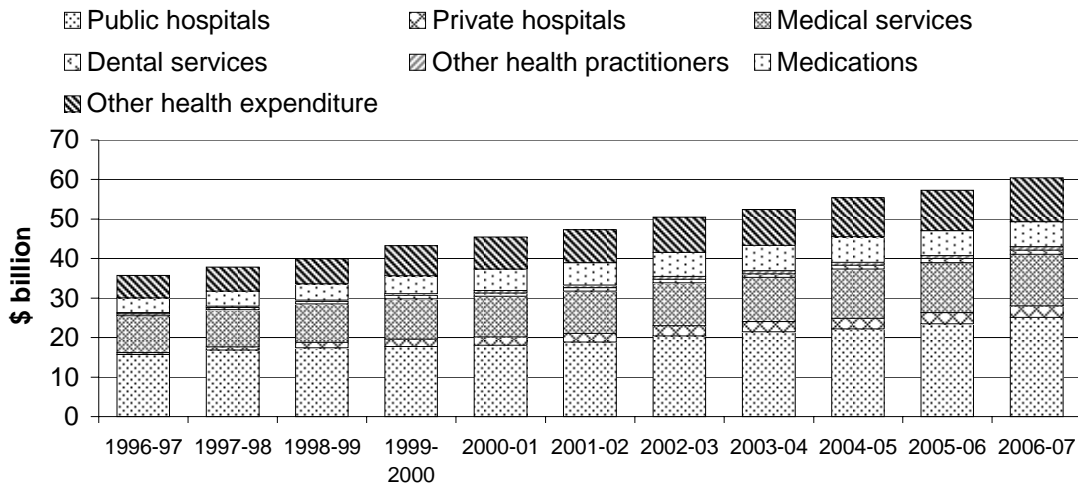
The relative share of government recurrent health expenditure allocated to public hospitals has fallen from 44.1 per cent in 1996-97 to 41.5 per cent in 2006-07. This decline reflects the more rapid growth over the decade of government expenditure on private hospitals and medications (figure E.3 and table EA.2). The average annual growth rate of government real recurrent expenditure on private hospitals was 19.6 per cent between 1996-97 and 2006-07 (albeit from a relatively low base), compared with 5.3 per cent for medications and 4.8 per cent for public hospitals (table EA.2). Policy measures introduced over the decade that were aimed at restraining growth in government health expenditure included the restriction of Medicare provider numbers, initiatives to encourage the use of generic medication brands, and increases in co-payments for medications.

The high annual growth in expenditure on private hospitals meant it also grew as a proportion of government health care expenditure over the period 1996-97 to 2006-07. Government expenditure on private hospitals increased from 1.4 per cent



of government health expenditure in 1996-97 to 4.8 per cent in 2006-07, while the proportion of expenditure on medication slightly decreased from 10.5 per cent to 10.4 per cent over the same period (table EA.2).

**Figure E.3 Government recurrent expenditure, by area of expenditure (2006-07 dollars)<sup>a, b, c, d, e</sup>**



<sup>a</sup> Medications include (but are not limited to) those provided under the PBS. <sup>b</sup> Almost all expenditure on medical services relates to services provided by practitioners on a fee-for-service basis, including those provided to private patients in hospitals. Excluded are the medical component of hospital care provided to public hospital inpatients, and the outpatient medical services provided at public hospitals. <sup>c</sup> High level residential aged care is reported in chapter 13. <sup>d</sup> Other health expenditure includes community and public health services, funding for aids and appliances, administration, private hospitals, ambulance services (reported in chapter 9), research, dental services and public psychiatric hospitals. <sup>e</sup> Real (constant price) estimates have been calculated by applying the AIHW total health price index (table EA.7).

Source: AIHW (2008) *Health Expenditure Australia 2006-07*, Cat. no. HWE 42, Health and Welfare Expenditure Series no. 35, AIHW, Canberra; table EA.2.

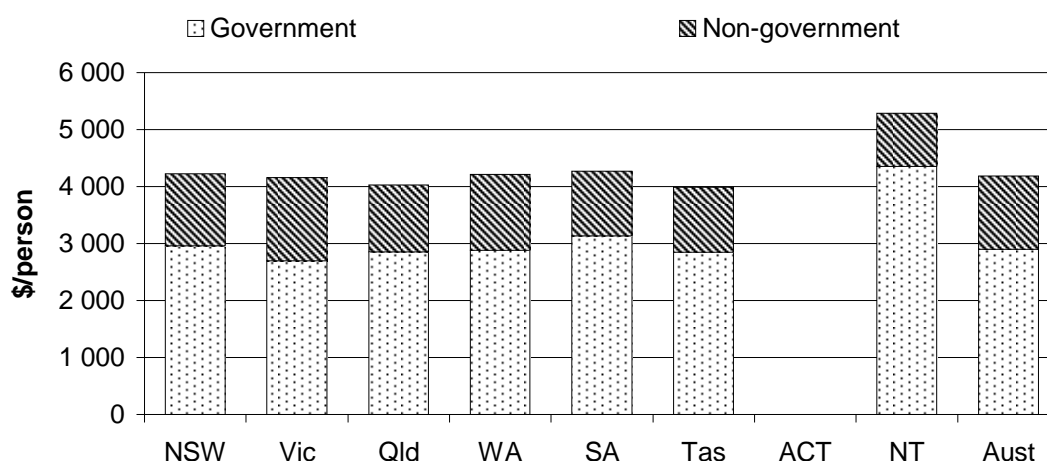
## Health expenditure per person

Health expenditure per person in each jurisdiction is affected by different policy initiatives and socioeconomic and demographic characteristics. Nationally, total health expenditure (recurrent and capital) per person in 2006-07 (expressed in 2006-07 dollars) was \$4508 (table EA.5). Total health expenditure per person in Australia increased from \$4283 in 2002-03 to \$4508 in 2006-07 (expressed in 2006-07 dollars) (table EA.5). The average annual growth rate in average health expenditure per person (expressed in 2006-07 dollars) from 2002-03 to 2006-07 was 1.3 per cent (table EA.5).

Government real recurrent health expenditure per person in Australia increased from \$2774 in 2002-03 to \$2897 in 2006-07 (expressed in 2006-07 dollars). Non-government recurrent expenditure per person in Australia rose from \$1270 in

2002-03 to \$1288 in 2006-07 (expressed in 2006-07 dollars) (figure E.4 and table EA.6).

**Figure E.4 Recurrent health expenditure per person by source of funds, excluding high level residential aged care, 2006-07 (2006-07 dollars)<sup>a, b, c</sup>**



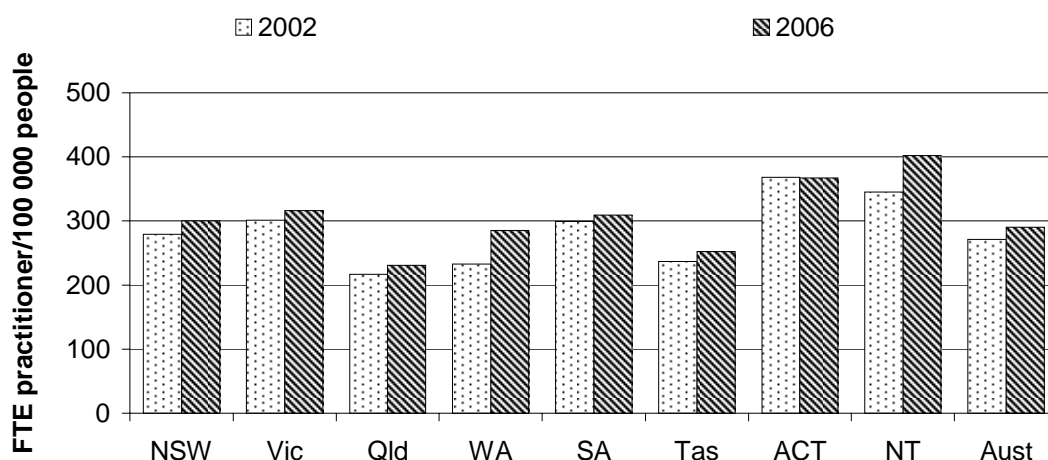
<sup>a</sup> Includes expenditure on high level residential aged care (reported in chapter 13) and ambulance services (reported in chapter 9). <sup>b</sup> Government expenditure includes expenditure by the Australian, State, Territory and local governments. <sup>c</sup> ACT per person figures are not calculated, as the expenditure numbers for the ACT include substantial expenditure for NSW residents, and the ACT population is not the appropriate denominator.

Source: AIHW (2008) *Health Expenditure Australia 2006-07*, Cat. no. HWE 42, Health and Welfare Expenditure Series no. 35, AIHW, Canberra; table EA.6.

## Health workforce

In 2006, there were 62 425 registered medical practitioners in Australia working in medicine. A further 1263 were in the medical labour force but on extended leave or looking for work. The majority of employed practitioners working in medicine were clinicians (93.2 per cent), of whom 39.5 per cent were primary care practitioners (mainly general practitioners), 34.8 per cent were specialists, 13.1 per cent were specialists-in-training, 11.3 per cent were hospital non-specialists and 1.3 per cent were other clinicians (AIHW 2008a). The number of full time equivalent (FTE) practitioners per 100 000 people by jurisdiction is illustrated in figure E.5.

Figure E.5 **Employed medical practitioners<sup>a, b</sup>**

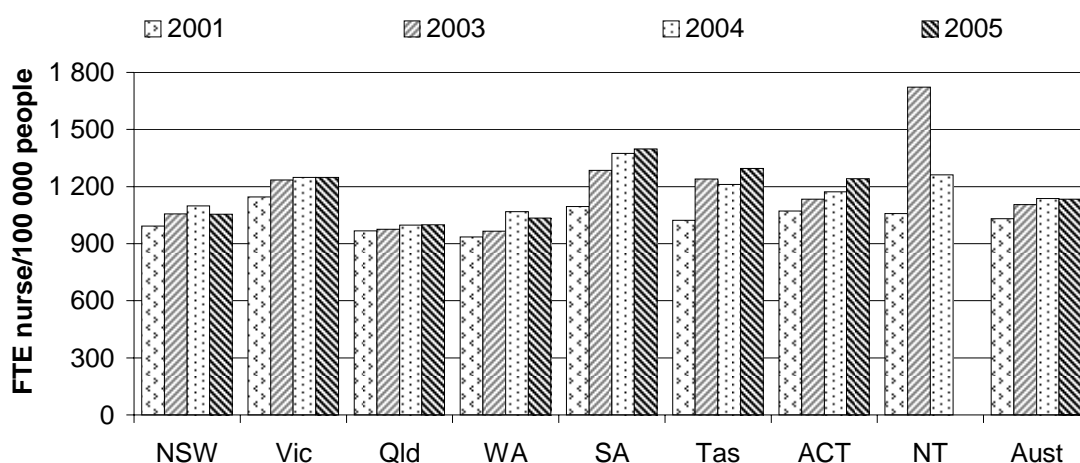


<sup>a</sup> FTE practitioner rate (per 100 000 people) based on a 45-hour week. <sup>b</sup> Number of 'employed medical practitioners' does not include medical practitioners on extended leave.

Source: AIHW (2008) *Medical labour force 2006*, Cat. no. HWL 42, National Health Labour Force Series no. 41, AIHW, Canberra; table EA.8.

The number of FTE nurses per 100 000 people by jurisdiction is illustrated in figure E.6. The national increase in the FTE nurse rate in Australia arose from both an increase in the number of nurses employed and an increase in average hours worked (AIHW 2008b).

Figure E.6 **Employed nurses<sup>a, b, c</sup>**



<sup>a</sup> FTE nurse rate (per 100 000 people) based on a 35-hour week. <sup>b</sup> Number of 'employed nurses' does not include nurses on extended leave. <sup>c</sup> Data for the NT for 2005 are not available.

Source: AIHW (2008) *Nursing and midwifery labour force 2005*, AIHW Cat. no. HWL 40, National Health Labour Force Series no. 39, Canberra; AIHW (2005) *Nursing and midwifery labour force 2003*, AIHW Cat. no. HWL 31, National Health Labour Force Series no. 31, Canberra; table EA.9.

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## Overview of Indigenous health

The Steering Committee has placed a high priority on reporting on government services to Indigenous people. Data on health outcomes and the provision of health services for Indigenous people are included where possible in this Report. This overview is designed to assist interpretation of these data and provide a broader understanding of Indigenous health issues.

Data are reported against several of these indicators for Indigenous Australians as well as for all Australians. 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 Indigenous patient data as acceptable in quality for analytical purposes, from the 2004-05 reference year. NEHIPC has also approved Victorian data as acceptable from 2004-05, but data were not reported for the years prior to 2006-07. Efforts to improve Indigenous identification across states and territories are ongoing.

The reported 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.

Australian Indigenous people are more likely to experience disability and significantly lower quality of life due to poorer health, and to have shorter life expectancies than the rest of the Australian population (SCRGSP 2007). These patterns are reflected in Australian data on: mortality, life expectancy and birthweights (later in this preface); hospital separation rates; hospitalisation rates for diabetes, assault and infectious pneumonia; fetal, neonatal and perinatal death rates (chapter 10); and suicide (chapter 12).

A number of recent publications include more comprehensive data on the health status of Indigenous people and Indigenous health-related factors. These include *The Health and Welfare of Australia's Aboriginal and Torres Strait Islander Peoples* [Australian bureau of Statistics (ABS) and AIHW 2008], *Aboriginal and Torres Strait Islander Health Performance Framework 2006 Report: Detailed Analysis* (AIHW 2007), *Overcoming Indigenous Disadvantage: Key Indicators 2007* (SCRGSP 2007) and *Australia's Health 2008* (AIHW 2008c).

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## Contributing factors

The physical and social environments in which Indigenous people live affect their opportunities to have productive lives that are relatively free of serious illness. Many Indigenous people live today in conditions of clear social and economic disadvantage, which, along with other geographic, environmental and cultural factors, contributes to poor health in many groups of Indigenous people.

There are relatively low education levels among Indigenous people. Indigenous school retention rates remain considerably lower than those for non-Indigenous school students, although the disparity between the two groups is slowly lessening. (ABS and AIHW 2008). In 2007, the apparent retention rate for Indigenous full-time students from years 7 and 8 to year 10 was 91 per cent and to year 12 was 43 per cent. This compares with apparent retention rates for non-Indigenous students of almost 100 per cent to year 10 and 76 per cent to year 12. Indigenous retention to year 10 and beyond has steadily increased over last 10 years from 83 per cent in 1998 to 91 per cent in 2007. This trend is particularly evident at the year 11 level, where the apparent retention from years 7 and 8 rose from 52 per cent to 70 per cent in 2007 (see chapter 4, table 4A.123).

Indigenous people have relatively low employment and income levels that may create financial barriers to accessing health services. Average weekly income for Indigenous people was \$548.97 in 2006, while the weekly income for non-Indigenous people was \$769.07 (see Statistical appendix tables AA.2, AA.7, AA.16 and AA.17). Between 2001 and 2006, the unemployment rate for Indigenous people aged 15–64 years decreased from 20 per cent to 16 per cent. However, the unemployment rate for Indigenous Australians was still three times the rate for non-Indigenous Australians (16 per cent compared with 5 per cent), similar to the rate ratios from the 2001 Census (20 per cent compared with 7 per cent) (ABS 2007d).

There are high imprisonment rates among Indigenous people. Indigenous prisoners represented 25 per cent of the total prisoner population (see chapter 8, table 8A.1). After adjusting for age differences, the Indigenous imprisonment rate was 1630 per 100 000 adult Indigenous population, 13 times the non-Indigenous rate at 30 June 2008 (see chapter 8, table 8A.4). High imprisonment rates may contribute to poorer health status of Indigenous people.

Indigenous people have relatively high rates for health risk factors such as obesity, smoking, substance abuse and violence. In 2004-05, 50 per cent of Indigenous people aged 18 years and over were daily cigarette smokers. In 2004-05, while Indigenous adults were twice as likely to have abstained from alcohol consumption in the last 12 months, as compared with the non-Indigenous population, over half of

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Indigenous adults (55 per cent) reported drinking alcohol at short term risky to high risk levels at least once in the last 12 months.<sup>2</sup> Around 16 per cent (similar to the proportion of non-Indigenous people) reported long term risky to high risk alcohol consumption in the week prior to interview (where long term risky to high risk alcohol consumption equates to average daily consumption of more than 50 millilitres per day for males and more than 25 millilitres per day for females for the previous seven days prior to interview). During 2004-05, Indigenous people were more than four times as likely to be in hospital for alcohol-related mental and behavioural disorders as other people (SCRGSP 2007).<sup>3</sup>

Geographic distance to health services, particularly in remote and very remote areas, contributes to health disadvantage of Indigenous people. In 2006, a total of 417 (35 per cent) discrete Indigenous communities<sup>4</sup> were located 100 kilometres or more from the nearest Aboriginal Primary Health Care Centre and of those, 92 (22 per cent) were larger communities with a population of 50 or more people. A total of 372 discrete Indigenous communities (31 per cent) were located 100 kilometres or more from the nearest community health centre and of these, 90 (24 per cent) were larger communities. A total of 755 (64 per cent) discrete Indigenous communities were located 100 kilometres or more from the nearest hospital. On a population basis, 25 per cent of Aboriginal and Torres Strait Islander people living in communities were 100 kilometres or more from the nearest hospital (ABS 2007b).

Many Indigenous people live in inadequate and overcrowded housing, particularly in remote and very remote areas. There were around 20 700 overcrowded Indigenous households (14 per cent) and 102 400 Indigenous people (27 per cent) living in overcrowded conditions in 2006. There has been some improvement in rates of overcrowding, with the proportion of Indigenous households that were overcrowded decreasing from 16 per cent in 2001 to 14 per cent in 2006 (ABS and AIHW 2008).

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<sup>2</sup> Short term risky to high risk alcohol consumption is mainly associated with 'binge' drinking. The National Health and Medical Research Council (NHMRC) Australian Alcohol Guidelines (2001) on which the definitions of risky and high risk drinking are based, are currently under revision.

<sup>3</sup> Short term risk is the risk of harm in short term associated with given levels of alcohol consumption on any one occasion. Long term risk is associated with regular daily patterns of alcohol consumption and defined by the average daily intake of alcohol over the seven days of the reference week.

<sup>4</sup> A geographic location, bounded by physical or cadastral (legal) boundaries, and inhabited or intended to be inhabited predominantly (i.e. greater than 50 per cent of usual residents) by Aboriginal or Torres Strait Islander peoples, with housing or infrastructure that is managed on a community basis.

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## Government policies and programs

The majority of government expenditure on Indigenous health is made through mainstream health programs (AIHW 2008e). In addition, the Australian, State and Territory governments fund Indigenous-specific health programs and undertake coordination and research activities. Indigenous people are high users of public hospital and community health services, and comparatively low users of medical, pharmaceutical, dental and other health services which are mostly privately provided.

Most Australian Government expenditure on Indigenous-specific health programs is directed to primary health. State and Territory governments fund a range of community and public health programs that specifically target Indigenous people within their jurisdictions (see chapter 11).

At the national level, the National Aboriginal and Torres Strait Islander Health Council provides policy advice to the Australian Government Minister for Health and Ageing on Indigenous health issues. The Council has overseen the development of the National Strategic Framework for Aboriginal and Torres Strait Islander Health, which all health ministers endorsed at the July 2003 Australian Health Ministers Conference. This framework outlines agreed principles and the following nine key result areas for Indigenous-specific primary health:

- community controlled primary health care
- a health system delivery framework to improve the responsiveness of both mainstream and Indigenous-specific health services to Indigenous health needs
- a competent health workforce with appropriate skills and training in both mainstream and Indigenous-specific health services
- emotional and social wellbeing, focusing on mental health, suicide, family violence, substance misuse and male health
- environmental health, including safe housing, water, sewerage and waste disposal
- wider strategies that have an impact on health in portfolios outside the health sector, such as education, employment and transport
- data, research and evidence to improve information on health service effectiveness in meeting the needs of Indigenous Australians
- resources and finances commensurate with Indigenous health needs, the cost of delivering services and community capacity to deliver health outcomes
- accountability of health services to communities and governments.

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The National Strategic Framework is complemented by a National Strategic Framework for Aboriginal and Torres Strait Islander Mental Health and Social and Emotional Wellbeing 2004–2009 (SEWB Framework), which was agreed by the Australian Health Ministers Advisory Council in March 2004. The SEWB Framework sits within the context of the National Strategic Framework for Aboriginal and Torres Strait Islander Health and the Third National Mental Health Plan. (For a discussion of the Third National Mental Health Plan see chapter 12).

Agreements on Aboriginal and Torres Strait Islander Health (framework agreements) have been established in each State and Territory between the Australian, State and Territory governments and the community sector. The agreements promote a partnership approach and commit signatories to work together to:

- increase the level of resources allocated to reflect the level of need
- plan jointly
- improve access to both mainstream and Indigenous-specific health and health related services
- improve Indigenous health data collection and evaluation.

Each State and Territory and the Australian Government is developing an implementation plan under the National Strategic Framework. Taking a whole of government approach, these plans detail information on existing and planned action by each government to improve health outcomes for Indigenous people. They outline programs and policy approaches which are the primary responsibility of each government both within the health department and in other portfolios. Each jurisdiction reports to health ministers on health portfolio progress under the plan every year and on the whole of government contribution every two years.

The Aboriginal and Torres Strait Islander Health Performance Framework has been developed under the auspices of the Australian Health Minister's Advisory Council to support the implementation of the National Strategic Framework for Aboriginal and Torres Strait Islander Health (NSFATSIH). The Health Performance Framework is designed to measure the impact of the NSFATSIH and inform policy analysis, planning and program implementation. The first Aboriginal and Torres Strait Islander Health Performance Framework Report was released in late 2006 and preparation for the 2008 Health Performance Framework Report is currently underway.



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## Expenditure

It is not always possible to make accurate estimates of health expenditure for Indigenous people and their corresponding service use. For example, Indigenous status is not always clearly stated or recorded. Data on Indigenous status are often unavailable for privately funded services (although they are available for many publicly funded health services).

The scope and definition of health expenditure also have some limitations. For the Indigenous health expenditure data presented below, health covers those services that are directed mainly towards improving health and/or reducing the effects of illness or injury. That is a relatively narrow definition which excludes a number of supportive ‘welfare’ services and the impact of living conditions on health, for example, housing, sanitation and nutrition. There are also other (non-health) agency contributions to health expenditure, such as those incurred within education departments and prisons, that are not included.

Indigenous health expenditure can also be difficult to identify, as the majority of health expenditure on Indigenous people is allocated through mainstream health programs — admitted and non-admitted patient services, community health services, medical and medications health services, and public health services. A small proportion of health expenditure is allocated through programs directly targeting Indigenous people, the most significant being the Aboriginal and Torres Strait Islander Health Care Services. In total, approximately one-fifth of the estimated health expenditure for Indigenous people in 2004-05 came from programs that were specifically designed for them. There may also be some inconsistencies across data providers resulting from limitations of financial reporting systems and different reporting mechanisms (AIHW 2008e).

The most recent estimates of health services expenditure for Indigenous people are for 2004-05 (AIHW 2008e). Between 1995-96 and 2004-05 there has been little change in the per person health expenditure ratio for Indigenous people compared to non-Indigenous people. Total recurrent government and non-government expenditure on health services for Indigenous people was estimated at \$2304 million in 2004-05 or 2.8 per cent of national expenditure on health services, the same proportion as for 2001-02. In 2004-05, \$1.17 per person was spent on Indigenous health for every \$1.00 spent on the health of non-Indigenous Australians. Average total health expenditure per Indigenous person was \$4718 compared with \$4019 per person estimated for non-Indigenous Australians (table E.1). The three largest categories of health expenditure were hospitals, medical services and medications. Together they accounted for 66.7 per cent of all

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Australian health expenditure in 2004–05 and 58.8 per cent of the spending that was allocated to Indigenous people (table E.1).

Expenditure per person on public hospitals for Indigenous people was around twice that for non-Indigenous people for both admitted and non-admitted patient services. Conversely, expenditure on medical services, dental and other health practitioners and medications were less than half those for non-Indigenous people. Expenditure on aids and appliances were 29 per cent of the non-Indigenous average. However, spending on community health services was over six and a half times that for other Australians and expenditure for both patient transport and public health were well above the national average (table E.1). Indigenous people tend to rely disproportionately on public hospitals for reasons of access, cost and culture as well as health. In many of the areas where Indigenous people live, hospital admission is the only practical way of delivering anything but the simplest services, and hospital emergency rooms are the most accessible source of affordable medical treatment, including GP-type care. Indigenous people were admitted to public hospitals at nearly two and a half times the rate for non-Indigenous Australians (AIHW 2008e).

**Table E.1 Total expenditure on health services for Indigenous and non-Indigenous people, by type of health good or service, current prices, Australia, 2004-05**

<i>Health good or service type</i>	<i>Total expenditure (\$ million)</i>			<i>Expenditure per person (\$)</i>		
	Indigenous	Non-Indigenous	Indigenous share (%)	Indigenous	Non-Indigenous	Ratio
Hospitals	1 080.7	27 337.6	3.8	2 213	1 386	1.60
Public hospital <sup>a</sup>	1 048.6	21 042.7	4.7	2 147	1 067	2.01
Admitted patient services	799.4	16 226.8	4.7	1 637	823	1.99
Non-admitted patient services	249.2	4 815.8	4.9	510	244	2.09
Private hospital	32.1	6 295.0	0.5	66	319	0.21
High-level residential care	41.7	6 283.4	0.7	85	319	0.27
Patient transport	103.5	1 369.9	7.0	212	69	3.05
Medical services	164.6	14 483.5	1.1	337	734	0.46
Community health services	497.8	3 052.7	14.0	1 019	155	6.59
Dental and other health practitioners	78.0	7 811.8	1.0	160	396	0.40
Medications	109.4	11 056.4	1.0	224	561	0.40
Aids and appliances	18.6	2 591.4	0.7	38	131	0.29
Public health	88.9	1 350.3	6.2	182	68	2.66
Research	46.0	1 669.0	2.7	94	85	1.11
Health administration (nec)	74.6	2 254.5	3.2	153	114	1.34
<b>Total</b>	<b>2 304.0</b>	<b>79 260.4</b>	<b>2.8</b>	<b>4 718</b>	<b>4 019</b>	<b>1.17</b>
<b>Population (2004-05 estimate)</b>	<b>488 335</b>	<b>19 721 423</b>	<b>2.5</b>			

<sup>a</sup> Public hospital services exclude any dental services, community health services, patient transport services, public health and health research undertaken by the hospital.

Source: AIHW (2008) *Expenditure on Health for Aboriginal and Torres Strait Islander Peoples 2004-05*, Cat. no. HWE 40, Health and welfare expenditure series no. 32, AIHW, Canberra.

Ninety-three per cent of spending was through programs managed by governments, and 67 per cent was managed by State and local governments. Indigenous people made proportionally lower use of purely private services. That was an entirely different pattern from that for non-Indigenous Australians, for whom the three sources of supply were almost equally important (table E.2).

**Table E.2 Total expenditure on health for Indigenous people, by program, 2004-05**

<i>Management</i>	<i>Indigenous</i>		<i>Non-Indigenous</i>	
	<i>Total expenditure (\$ million)</i>	<i>Per cent</i>	<i>Total expenditure (\$ million)</i>	<i>Per cent</i>
Through State and local government programs	1 537.1	66.7	26 844.1	33.9
Through Australian Government programs <sup>a</sup>	604.7	26.2	28 163.4	35.5
<i>Total through Government programs</i>	<i>2 141.8</i>	<i>93.0</i>	<i>55 007.4</i>	<i>69.4</i>
Through non-government arrangements	162.2	7.0	24 253.0	30.6
<b>Total</b>	<b>2 304.0</b>	<b>100.0</b>	<b>79 260.4</b>	<b>100.0</b>

<sup>a</sup> Patient co-payments under Medicare and PBS (\$19.2 million Aboriginal and Torres Strait Islander peoples, \$2766.4 million non-Indigenous)

Source: AIHW (2008) *Expenditure on Health for Aboriginal and Torres Strait Islander Peoples 2004-05*, Cat. no. HWE 40, Health and welfare expenditure series no. 32, AIHW, Canberra.

Spending through Australian Government programs was slightly lower per person for Indigenous people than for other Australians, while spending through State and local government programs for Indigenous people was 2.3 times that for non-Indigenous people. This reflects Indigenous people's greater reliance on public hospitals and community health services than on the services of private medical and pharmaceutical providers with which the Australian Government is more involved (table E.3).

**Table E.3 Expenditure per person on health services, by program, 2004-05**

<i>Management</i>	<i>Indigenous</i>	<i>Non-Indigenous</i>	<i>Ratio</i>
Through State and local government programs	3 148	1 361	2.31
Through Australian Government programs <sup>a</sup>	1 238	1 428	0.87
<i>Total through Government programs</i>	<i>4 386</i>	<i>2 789</i>	<i>1.57</i>
Through non-government arrangements	332	1 230	0.27
<b>Total</b>	<b>4 718</b>	<b>4 019</b>	<b>1.17</b>

<sup>a</sup> Patient co-payments under Medicare and PBS (\$39 per Aboriginal and Torres Strait Islander person, \$140 per non-Indigenous person) are included here, but note they are shown elsewhere in this report as expenditure incurred by the non-government sector.

Source: AIHW (2008) *Expenditure on Health for Aboriginal and Torres Strait Islander Peoples 2004-05*, Cat. no. HWE 40, Health and welfare expenditure series no. 32, AIHW, Canberra.

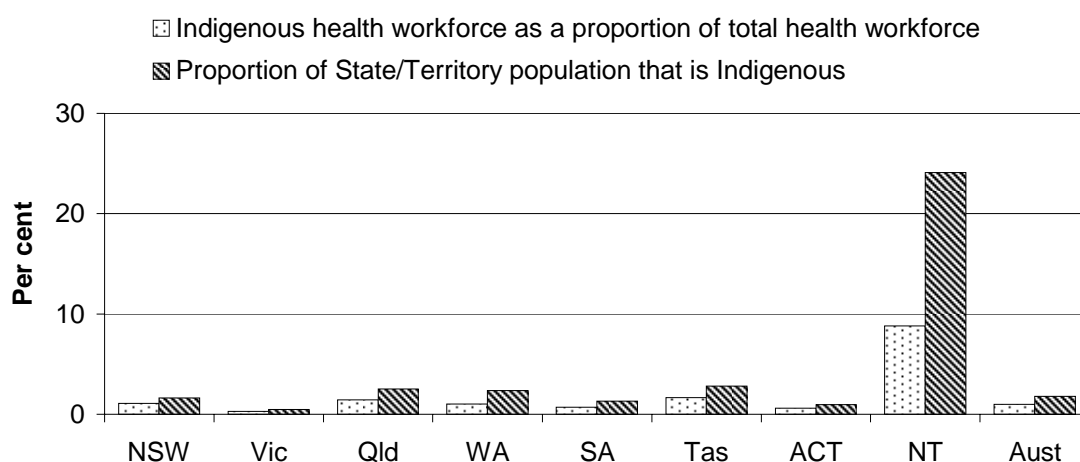
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## Indigenous health workforce

Indigenous people aged 15 years and over were under-represented in almost all health-related occupations, in 2006 (ABS and AIHW 2008). This can potentially contribute to Indigenous peoples' reduced access to health services. One patient satisfaction survey found that the presence of an Indigenous doctor at a community health centre was a main reason for Indigenous people attending the clinic. In addition, the number of Indigenous patients attending the clinic increased markedly following the arrival of the Indigenous doctor and other changes in the service designed to make it more welcoming. Patients reported that an Indigenous doctor was 'more understanding of their needs' (DoHA 2006b).

In 2006, Indigenous people accounted for 1.0 per cent of the health workforce, but were 1.8 per cent of the total population (aged 15 years and over). Indigenous health workers are under-represented in each State and Territory (figure E.7).

Figure E.7 **Indigenous health workforce as a proportion of total health workforce, by jurisdiction, 2006<sup>a, b, c</sup>**

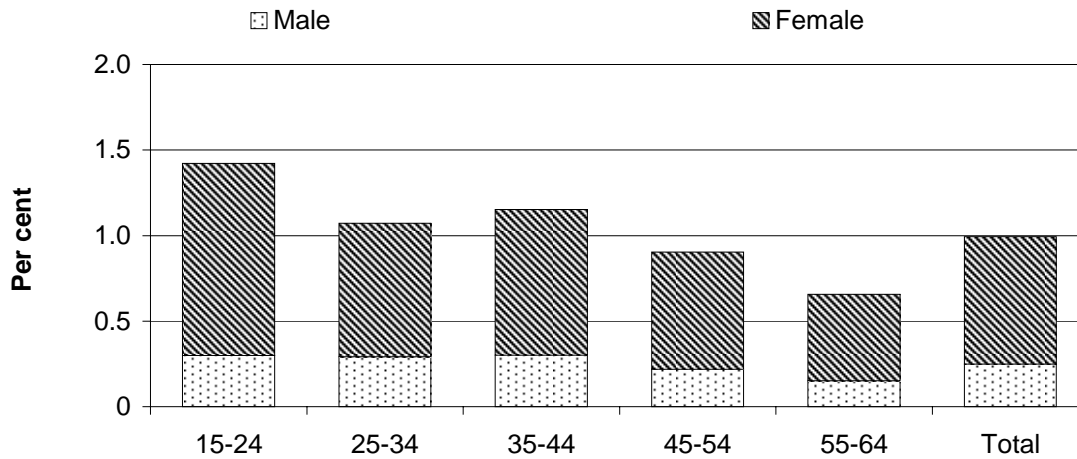


<sup>a</sup> Aged 15 years and over. <sup>b</sup> Cells in this table have been randomly adjusted to avoid the release of confidential data. <sup>c</sup> Australian total data includes other territories.

Source: ABS (unpublished), ABS (2007) *2006 Census of Population and Housing*, Canberra; table EA.10.

For younger age-groups, Indigenous people make up a higher proportion of the health workforce — 1.4 per cent of the workforce aged 15–24 years and 1.1 per cent of the workforce aged 25–34 years. Indigenous females represented a higher proportion of the health workforce than Indigenous males across all age-groups (figure E.8).

**Figure E.8 Indigenous health workforce as a proportion of total health workforce, by age-group and sex, 2006**



Source: ABS (unpublished), 2006 Census of Population and Housing; table EA.11.

#### *Indigenous health workforce by occupation*

In 2006, there were 100 Indigenous people working as medical practitioners and 1223 Indigenous people working as midwifery and nursing professionals (table E.4).

After nursing, Indigenous people in the health workforce were most commonly employed as Aboriginal and Torres Strait Islander health workers (965 people). Aboriginal and Torres Islander health workers may be employed as specialists in areas such as alcohol, mental health, diabetes, eye and ear health, sexual health, or they may work as generalist members of primary care team, or as hospital liaison officers (table EA.12).

Table E.4 **Indigenous persons employed in selected health-related occupations (per cent), 2006<sup>a, b</sup>**

	<i>Indigenous people</i>	<i>All persons</i>	<i>Percent of Indigenous people in selected health-related occupations</i>
Health and Welfare Services Managers	141	10 807	1.3
Psychologists	39	13 437	0.3
Health diagnostic and promotion professionals	648	48 079	1.3
Health therapy professionals	321	64 597	0.5
Medical practitioners	100	55 075	0.2
Midwifery and nursing professionals	1 223	200 400	0.6
Health and welfare support workers	2 413	99 957	2.4
<b>Total aged 15 years and over</b>	<b>4 891</b>	<b>492 342</b>	<b>1.0</b>

<sup>a</sup> Aged 15 years and over. <sup>b</sup> Further information to the data included in this table and/or its interpretation is provided in table EA.12.

Source: ABS (unpublished), *2006 Census of Population and Housing*; table EA.12.

## Self-assessed health

The results from the 2006 General Social Survey indicate that the majority of Australians (84 per cent) aged 18 years or over reported their health as either, good, very good or excellent. The proportion of persons reporting fair or poor health generally increased with age, from 7 per cent of those aged 18 to 24 years to 39 per cent of those aged 75 years or over (ABS 2007c). Taking into account differences in age structure between the Indigenous and non-Indigenous populations, Indigenous people overall were almost twice as likely to report their health as fair or poor (29 per cent), than non-Indigenous Australians (15 per cent) in 2004-05 (ABS 2006b).

## Data quality

Good quality data are needed to assess the effectiveness of programs and to evaluate policies designed to improve health services and outcomes for Indigenous people. Despite recent improvements, the quality of estimates of Indigenous health information is limited by problems with the underlying data. Some of the problems associated with Indigenous health data are outlined in (ABS 2007a), and (ABS and AIHW 2008) including:

- Indigenous people are not always accurately or consistently identified in administrative health data collections (such as hospital records and birth and

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death registrations), given variation in definitions, different data collection methods and inaccurate or incomplete recording of Indigenous status.

- Inconsistent data definitions and differences in the accuracy of identifying Indigenous status have led to problems making comparisons between jurisdictions, and comparisons over time.
- Experimental estimates of the Indigenous population are re-based by the ABS every five years following availability of new Census data. Once new Indigenous population estimates and projections have been produced by ABS, revisions may be required to various rates and rate ratios used in previous editions of the Report where those rates data are to be carried forward in new reports.

As part of the development of the Aboriginal and Torres Strait Islander Health Performance Framework, key priorities for data development will be identified to support an ongoing work program of data improvements.

The ABS has introduced a program of three yearly Indigenous household surveys with sample sizes designed to support the production of reliable State and Territory level data, so every three years, some health status and health risk factors are measured. Every six years, and in parallel with the National Health Survey, more detailed Indigenous health status information is collected, together with health service use, health actions, health related aspects of lifestyle and other health risks. This also enables Indigenous to non-Indigenous comparisons for relevant variables. Other health related surveys, which may include an Indigenous identifier, do not necessarily provide reliable data on Indigenous people, because of small sample size, limited geographic coverage or survey design.

## **Framework for measuring the performance of the health system**

Government involvement in health services is predicated on the desire to improve the health of all Australians and to ensure equity of access (box E.2). Governments provide a variety of services in different settings to fulfil these objectives.

Measuring the effectiveness, equity and efficiency of Australia's health system is a complex task. It must account for the performance of a range of services (such as prevention and medical intervention) and of service providers (such as community health centres, GPs and public hospitals), and account for the overall outcomes generated by the health system. The appropriate mix of services — including the prevention of illness and injury, and medical treatment (prevention versus medical



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intervention) — and the appropriate mix of service delivery mechanisms (community-based versus hospital-based) play an important role in determining outcomes. Other relevant factors are external to the health system, such as the socioeconomic and demographic characteristics of the population, available infrastructure and the environment.

**Box E.2 Overall objectives of the health system**

Government involvement in the health system is aimed at efficiently and effectively protecting and restoring the health of the community by:

- preventing or detecting illness through the provision of services that can achieve improved health outcomes at relatively low cost
- caring for ill people through the use of appropriate health and medical intervention services
- providing appropriate health care services that recognise cultural differences among people
- providing equitable access to these services
- achieving equity in terms of health outcomes.

Primary prevention strategies are implemented before the diagnosis of an illness and generally aim to:

- reduce a person's risk of getting a disease or illness by increasing protective factors
- delay the onset of illness.

Medical intervention strategies are implemented after a diagnosis.

The former National Health Performance Committee developed the National Health Performance Framework to guide the reporting and measurement of health service performance in Australia. A number of groups involved in health performance indicator development have adopted this framework for use within specific project areas and in publications.

In the 2004 Report, the Steering Committee sought to align the general Review framework with the National Health Performance Framework as far as possible, for application to government health services. Complete alignment was not possible, given the different terms of reference of the two committees. The performance framework for health services in this Report thus reflects both the general Review framework and the National Health Performance Framework. It differs from the general Review framework (see chapter 1) in two respects. First, it includes four subdimensions of quality — safety, responsiveness, capability and continuity — and, second, it includes an extra dimension of effectiveness — sustainability (figure E.9). These additions are intended to address the following key performance

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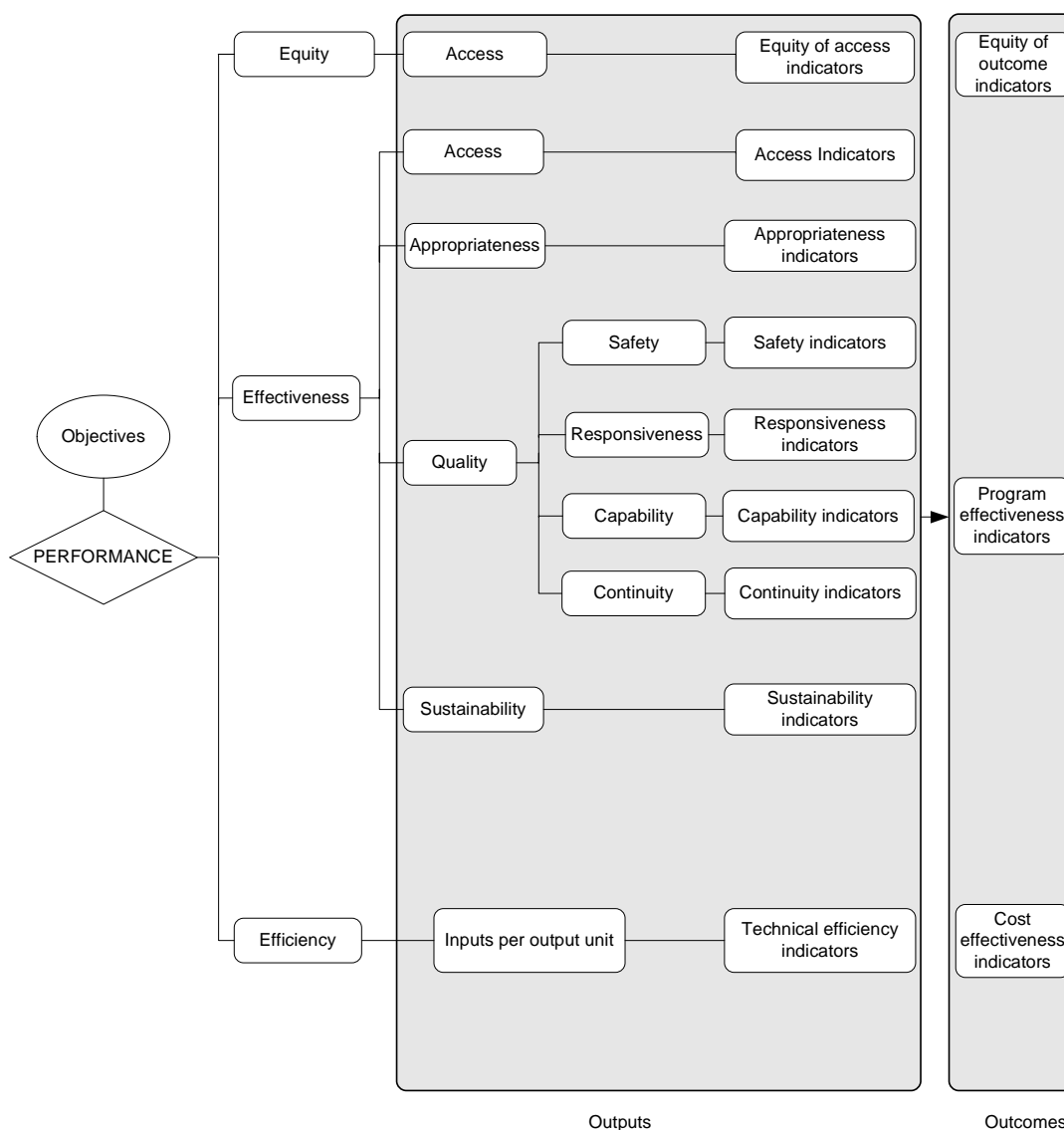
dimensions of the health system in the National Health Performance Framework that were not explicitly covered in the general Review framework:

- *safety*: the avoidance, or reduction to acceptable levels, of actual or potential harm from health care services, management or environments, and the prevention or minimisation of adverse events associated with health care delivery
- *responsiveness*: the provision of services that are client oriented and respectful of clients' dignity, autonomy, confidentiality, amenity, choices, and social and cultural needs
- *capability*: the capacity of an organisation, program or individual to provide health care services based on appropriate skills and knowledge
- *continuity*: the provision of uninterrupted, timely, coordinated healthcare, interventions and actions across programs, practitioners and organisations
- *sustainability*: the capacity to provide infrastructure (such as workforce, facilities and equipment), be innovative and respond to emerging needs (NHPC 2001).

Other aspects of the Steering Committee's framework of performance indicators are defined in chapter 1. The Steering Committee has applied this performance framework to health services in two ways.

- It has developed detailed performance indicator frameworks for public hospitals (chapter 10) and primary and community health services (chapter 11).
- It has developed specific frameworks to examine the appropriate mix of services and service delivery mechanisms for two health management issues: breast cancer and mental health (chapter 12).

Figure E.9 Performance indicator framework for health services



## Selected indicators of health outcomes

It is difficult to isolate the effect of health care services on the general health of the population. Socioeconomic factors (such as residential location, income levels and employment rates) and the provision of non-health care government services (such as clean water, sewerage, nutrition, education and public housing) each contribute to overall health outcomes. The outcomes and effectiveness of health services are also influenced by population factors external to governments' control, including geographic dispersion, age and ethnicity profiles, and socioeconomic status.

Appendix A summarises some of the demographic and socioeconomic factors that can influence health outcomes and government expenditure.

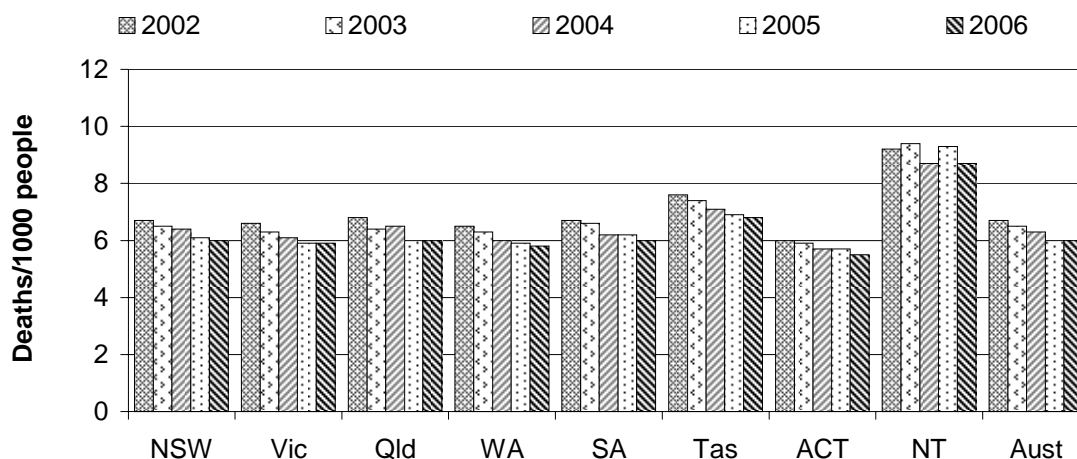
Data on health outcomes presented in this preface include self-assessed health status, mortality rates (for infants and all people), causes of death, life expectancy at birth, median age at death and birthweight. Where possible, data are presented for Indigenous people as well as the Australian population as a whole.

## Mortality rates

Most components of the health system can influence mortality rates, although there may be a delay of decades between the action and the effect. A public health campaign to reduce smoking by young people, for example, may reduce premature deaths due to smoking-related conditions some years in the future. Factors external to the health system also have a strong influence on mortality rates.

There were 133 700 deaths in Australia in 2006 (ABS 2007a), which translated into an age standardised mortality rate of 6.0 per 1000 people (figure E.10). Death rates over the last 20 years have declined for all states and territories (ABS 2007a).

Figure E.10 **Mortality rates, age standardised<sup>a</sup>**



<sup>a</sup> Deaths per 1000 standard population. Standardised death rates use total persons in the 2001 Australian population as the standard population.

Source: ABS (2007) *Deaths 2006, Australia*, Cat. no. 3302.0, ABS, Canberra; table EA.13.

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### *Indigenous mortality rates*

Data on Indigenous mortality are collected through State and Territory death registrations. The completeness of the identification of Indigenous Australians in these collections varies significantly across states and territories. Because of this variation, care is required in making comparisons on the data.

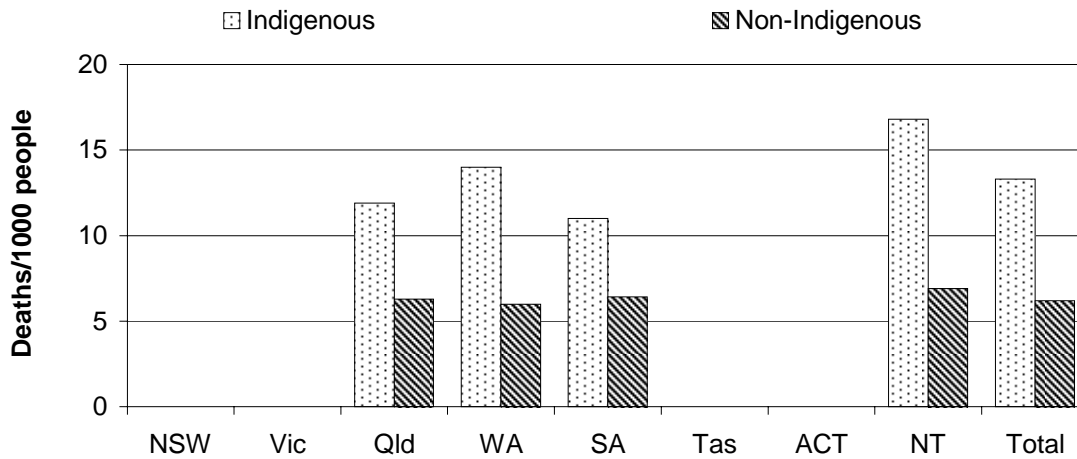
Due to the relatively small number of Indigenous deaths and the consequent volatility in annual mortality rates, the data are presented for the five year period 2002–2006. To improve the comparability of age-related mortality rates, indirect age standardisation methods have been used for both the Indigenous and total population rates.

The NT, WA, SA and Queensland in that order are generally considered to have the best coverage of death registrations for Indigenous people.<sup>5</sup> For these four jurisdictions combined, the overall rates of mortality for Indigenous people were just over twice as high as mortality rates for non-Indigenous people in 2002–2006 (figure E.11 and table EA.13). The exact magnitude of this difference cannot be established at this time due to variable identification of Indigenous Australians in death records. Reported mortality rates under-estimate the true mortality of Indigenous Australians (ABS and AIHW 2008).

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<sup>5</sup> The term ‘coverage’ refers to the number of Indigenous deaths registered as a percentage of the number of expected deaths based on the 2001 Census based experimental Indigenous population estimates and projections.

Figure E.11 **Mortality rates, age standardised, by Indigenous status, five year average, 2002–2006<sup>a, b, c, d</sup>**



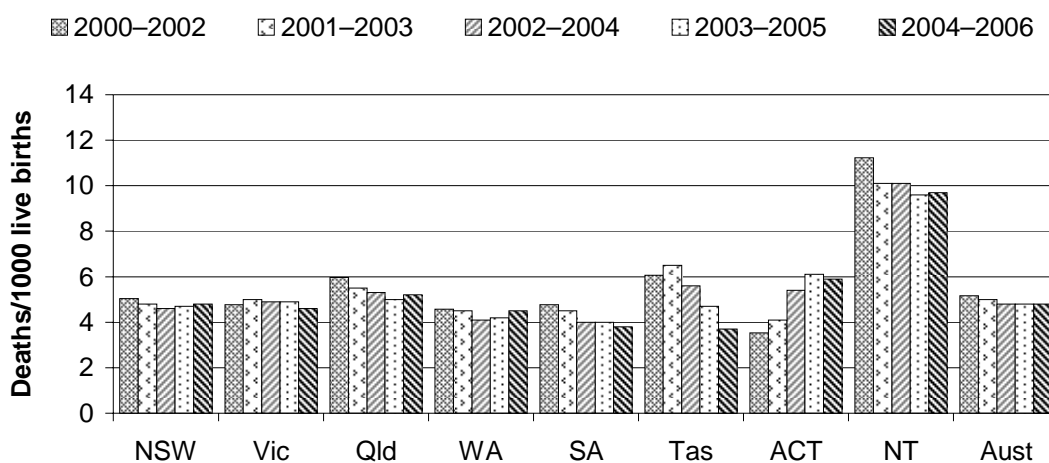
<sup>a</sup> Deaths per 1000 standard population. Standardised death rates use total persons in the 2001 Australian population as the standard population. <sup>b</sup> Total, Indigenous and non-Indigenous mortality rates are for Queensland, WA, SA and NT combined. <sup>c</sup> Calculations of rates for the Indigenous population are based on ABS Experimental Projections, Aboriginal and Torres Strait Islander Australians 1991 to 2009 (ABS cat. no. 3238.0, low series, 2001 base). There are no comparable population data for the non-Indigenous population. Calculations of rates for comparison with the Indigenous population are derived by subtracting Indigenous population projections from total Estimated Resident Population and should be used with care, as these data include deaths and population units for which Indigenous status were not stated. ERP used in calculations are final ERP based on 2006 Census. <sup>d</sup> Includes non-Indigenous and not stated Indigenous status.

Source: ABS (unpublished) *Deaths Australia*; table EA.13.

### *Infant mortality rates*

The infant mortality rate is defined as the number of deaths of children under 1 year of age in a calendar year per 1000 live births in the same year. Infant mortality rates are presented in this Report as an average over three years to reduce the volatility inherent in the annual rates due to small numbers and annual fluctuations. The infant mortality rate in Australia declined from 5.2 deaths per 1000 live births over the period 2000–2002 to an average of 4.8 deaths per 1000 live births over the period 2004–2006 (figure E.12).

Figure E.12 Infant mortality rate, three year average<sup>a, b</sup>



<sup>a</sup> Figures for Australia include 'other territories'. <sup>b</sup> Four infant deaths were coded to an incorrect state of usual residence in 2005, which led to the revision of the rate of the ACT.

Source: ABS (2007) *Deaths 2006, Australia*, Cat. no. 3302.0, ABS, Canberra.; table EA.14.

### Indigenous infant mortality rates

For the period 2004–2006, the average infant mortality rate for Indigenous children is publishable for NSW, Queensland, WA, SA and the NT. Although the small numbers involved affect the ability to detect significant changes in Indigenous infant mortality, it is clear that Indigenous infant mortality rates are markedly higher than the average for all Australians (tables EA.14 and EA.15).

### Principal causes of death

The most common causes of death among Australians in 2006 were: diseases of the circulatory system (including heart disease, heart attack and stroke), cancers, and diseases of the respiratory system (including influenza, pneumonia and chronic lower respiratory diseases) (tables E.5 and EA.16). In 2006, malignant neoplasms (cancers) were the main underlying cause of death of 30 per cent of all registered deaths and ischemic heart disease was the primary cause of a further 17 per cent of deaths (ABS 2008a).

**Table E.5 Cause of death, age standardised death rates, 2006<sup>a</sup>**

	<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>WA</i>	<i>SA</i>	<i>Tas</i>	<i>ACT</i>	<i>NT</i>
Cancers <sup>b</sup>	176	177	173	176	178	193	159	216
Lung cancer <sup>c</sup>	32	34	35	36	33	41	28	47
Diabetes mellitus	13	19	16	18	17	28	16	47
Mental and behavioural disorders	23	24	20	19	23	28	21	40
Diseases of the nervous system	21	23	20	24	23	28	19	17
Diseases of the circulatory system	210	188	210	190	199	221	181	242
Heart disease <sup>d</sup>	103	95	112	95	98	117	76	131
Heart attack <sup>e</sup>	53	46	59	50	47	50	30	55
Stroke <sup>f</sup>	55	44	55	45	50	43	53	47
Diseases of arteries, arterioles and capillaries	10	10	10	10	10	12	11	9
Diseases of the respiratory system	51	45	47	43	52	47	48	97
Influenza and pneumonia	12	12	12	10	15	7	11	5
Chronic lower respiratory diseases	24	25	25	21	23	32	22	78
Diseases of the digestive system	20	20	20	19	20	23	21	41
Accidents	24	24	26	27	23	31	21	53
Transport accidents	6	8	9	10	9	12	4	24
Suicide <sup>g</sup>	7	9	8	10	11	15	9	13
<b>All causes</b>	<b>605</b>	<b>586</b>	<b>599</b>	<b>583</b>	<b>602</b>	<b>679</b>	<b>552</b>	<b>869</b>

<sup>a</sup> Standardised death rate per 100 000 of the mid-year 2006 population. Rounded to whole numbers.

<sup>b</sup> Malignant neoplasms. <sup>c</sup> Cancer of the trachea, bronchus and lung. <sup>d</sup> Ischaemic heart disease and heart attacks. <sup>e</sup> Acute myocardial infarction. <sup>f</sup> Cerebrovascular diseases. <sup>g</sup> Intentional self-harm. Care should be taken in interpreting numbers of suicide deaths due to limitations in the data.

Source: ABS (2008) *Causes of Death 2006, Australia*, Cat. no. 3303.0, ABS, Canberra; table EA.16.

### *Causes of death for Indigenous people*

In the jurisdictions for which age standardised death rates are available by Indigenous status (Queensland, WA, SA and the NT), death rates were far higher for Indigenous people than for non-Indigenous people during the period 2002–2006. In particular, Indigenous people died from diabetes at a rate that was up to 11.2 times that for non-Indigenous people; from cirrhosis and other diseases of liver at a rate that was up to 8.6 times that for non-Indigenous people; and from diseases of the urinary system at a rate that was 5.8 times that for non-Indigenous people.



The standardised death rate per 100 000 for all causes was 2.9 times higher for Indigenous people than for non-Indigenous people (tables E.6 and EA.17).

**Table E.6 Leading causes of death, indirect age-standardised death rate ratio, 2002–2006 (per 100 000 standard population)<sup>a, b, c</sup>**

	<i>Qld</i>	<i>WA</i>	<i>SA</i>	<i>NT</i>	<i>Total</i>
<i>Underlying causes of death</i>					
Trachea and lung cancers	1.9	1.7	1.5	2.2	1.9
Diabetes	10.8	11.8	8.5	9.9	11.2
Ischaemic heart diseases <sup>d</sup>	2.8	2.9	3.2	3.7	3.0
Strokes	1.8	2.6	1.8	3.1	2.1
Influenza and pneumonia	2.6	6.8	3.8	6.3	3.9
Chronic lower respiratory diseases <sup>e</sup>	3.1	4.1	2.9	4.1	4.1
Cirrhosis and other diseases of liver	5.7	9.7	7.1	10.7	8.6
Diseases of the urinary system	3.5	6.2	4.0	12.8	5.8
Certain conditions originating in the perinatal period	2.1	3.2	1.7	3.3	2.7
Symptoms, signs and ill-defined conditions	2.7	6.3	5.0	2.6	4.5
Land transport accidents	1.8	3.5	2.7	2.6	2.9
Intentional self-harm [suicide]	2.3	2.0	3.5	3.1	2.7
<b>All causes</b>	<b>2.4</b>	<b>3.0</b>	<b>2.5</b>	<b>3.6</b>	<b>2.9</b>

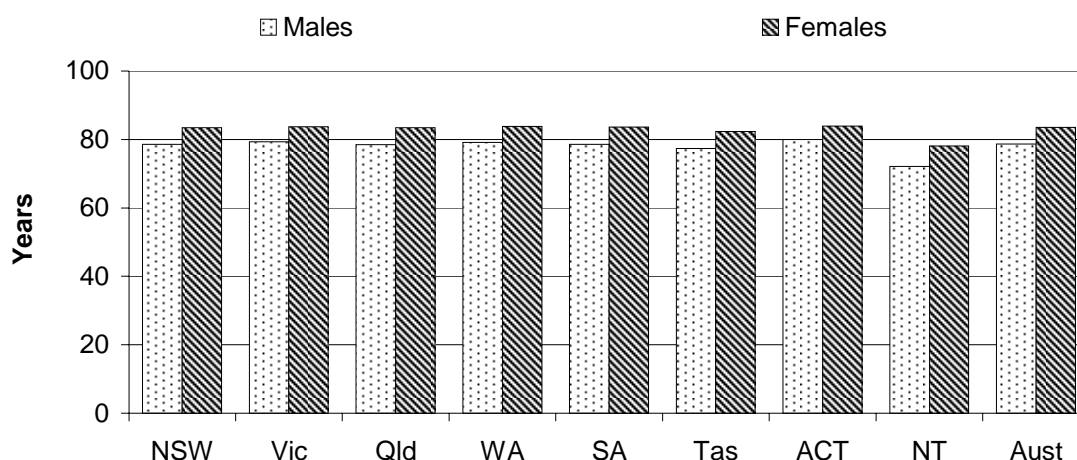
<sup>a</sup> Calculations of rates for the Indigenous population are based on ABS *Experimental Projections, Aboriginal and Torres Strait Islander Australians* (ABS cat. no. 3238.0, low series, 2001 base). There are no comparable population data for the non-Indigenous population. Calculations of rates for comparison with the Indigenous population are derived by subtracting Indigenous population projections from Total Estimated Resident Population and should be used with care, as these data include deaths and population units for which Indigenous status were not stated. Population estimates have not been re based using 2006 Census data as re-based data are not yet available for the Indigenous population. <sup>b</sup> Coded according to the International Classification of Diseases and Related Health Problems Revision 10 (ICD-10). <sup>c</sup> Indigenous rate divided by non-Indigenous rate. <sup>d</sup> Ischaemic heart diseases include angina, heart attacks, blocked arteries of the heart. <sup>e</sup> Chronic lower respiratory disease include diseases such as asthma, bronchitis and emphysema.

Source: ABS (unpublished) *Causes of Death 2006*; table EA.17.

## Life expectancy

The life expectancy of Australians improved dramatically during the twentieth century and so far during twenty first century. The average life expectancy at birth in the period 1901–1910 was 55.2 years for males and 58.8 years for females (ABS 2008b). It has risen steadily in each decade since, reaching 78.7 years for males and 83.5 years for females in 2004–2006 (figure E.13).

Figure E.13 Average life expectancy at birth, 2004–2006<sup>a, b</sup>



<sup>a</sup> Figures for Australia include 'other territories'. <sup>b</sup> Three year average.

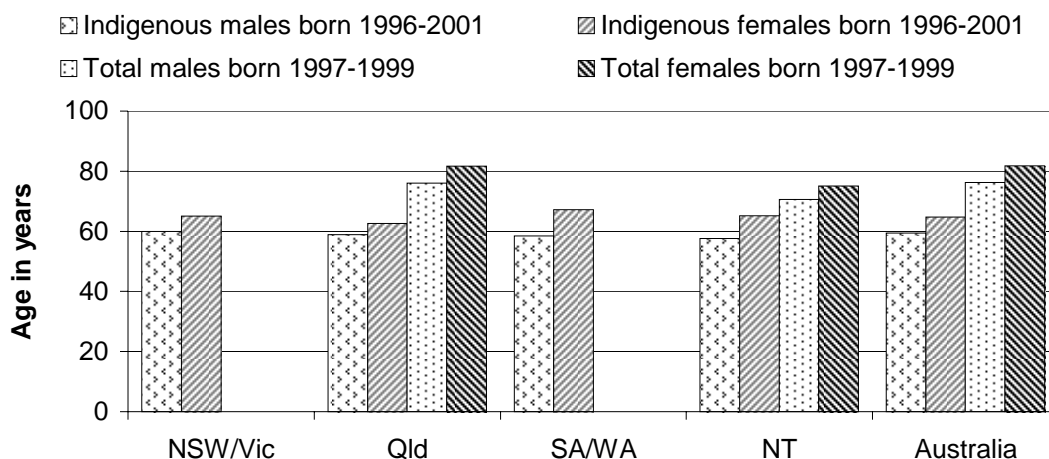
Source: ABS (2007) *Deaths 2006, Australia*, Cat. no. 3302.0, ABS, Canberra; table EA.18.

### *Indigenous life expectancy*

The ABS advise that, due to incomplete identification of Indigenous deaths in the underlying source data, changes over time in mortality rates for Indigenous people cannot be determined. ABS Indigenous population estimates and projections assume, for each jurisdiction, constant age specific mortality rates across the period 1991–2009. These data are not comparable to — and replace — life expectancy estimates for Indigenous people previously published by the ABS. They should not be subjected to ‘over-precise analysis ... as measures of Indigenous health outcomes’ (ABS 2004).

The life expectancies of Indigenous Australians are considerably lower than those of non-Indigenous Australians. ABS experimental population estimates indicate a life expectancy at birth of 59.4 years for Indigenous males and 64.8 years for Indigenous females born from 1996 to 2001 (figure E.14 and table EA.19). In a similar, but not directly comparable time period (1997–1999) the rates for all Australians were 76.2 years for all males and 81.8 years for females. Variations in life expectancy between Indigenous males and females and for Indigenous Australians in different states and territories should be interpreted with care as they are sensitive to the demographic assumptions and differences in data quality across jurisdictions. The ABS has produced a discussion paper regarding this issue (ABS 2008c).

Figure E.14 **Life expectancy at birth, Indigenous 1996–2001, total population 1997–1999<sup>a, b, c</sup>**



<sup>a</sup> Indigenous data are for the Australian Aboriginal and Torres Strait Islander population, and include an adjustment for undercoverage of Indigenous deaths. <sup>b</sup> Life expectancy data for Indigenous males and Indigenous females are for the period 1996–2001. Data for total males and females cover the period 1997–1999, the approximate mid-point of the Indigenous data. <sup>c</sup> For Tasmania and the ACT, use life tables for NSW and Victoria.

Source: ABS (2007) *Deaths 2006, Australia*, Cat. no. 3302.0, ABS, Canberra; table EA.19.

## Median age at death

The median age at death represents the age at which exactly half the deaths registered (or occurring) in a given time period were deaths of people above that age and half were deaths below that age. Comparisons of the median age at death for Indigenous and non-Indigenous people are affected by different age structures in the populations and by differences in the extent of identification of Indigenous deaths across jurisdictions and across age groups. Identification of Indigenous status for infant deaths is high, but it falls significantly in older age groups. The median age of death for Indigenous people is therefore likely to be an underestimate.

For all Australian males and females in 2006, the median age at death was 77.3 years and 83.3 years respectively (figure E.15 and table EA.20). In the jurisdictions for which the data were available for Indigenous people, in 2006 the median age at death for male Indigenous Australians varied between 45.4 and 59.3 years. The median age at death for female Indigenous Australians varied between 55.3 and 64.8 years (figure E.15 and table EA.20).

Figure E.15 Median age at death, by sex and Indigenous status, 2006<sup>a</sup>



<sup>a</sup> Median age at death by Indigenous status is available in NSW, Queensland, WA, SA and the NT only. The accuracy of Indigenous mortality data are variable as a result of varying rates of coverage across jurisdictions and age groups, and of changes in the estimated Indigenous population caused by changing rates of identification in the Census and births data.

Source: ABS (2007) *Deaths 2006, Australia*, Cat. no. 3302.0, ABS, Canberra; table EA.20.

## Birthweight of babies

The birthweight of a baby is an important indicator of its health status and future wellbeing. In 2006, 91.8 per cent of liveborn babies in Australia weighed between 2500 and 4499 grams (Laws and Hilder 2008). The average birthweight for all live births was 3370 grams. In 2006, the average birthweight of liveborn babies of Indigenous mothers was 3169 grams (tables EA.21 and EA.22). This was 209 grams lighter than the average of 3378 grams for liveborn babies of non-Indigenous mothers (Laws and Hilder 2008).<sup>6</sup>

Babies are defined as low birthweight if they weigh less than 2500 grams, very low birthweight if they weigh less than 1500 grams and extremely low birthweight if they weigh less than 1000 grams (Laws and Hilder 2008). In 2006, 6.4 per cent of all liveborn babies in Australia weighed less than 2500 grams (figure E.16). This included 1.1 per cent of babies who weighed less than 1500 grams (table EA.21).

Among live babies born to Indigenous mothers in 2006, the proportions with low and very low birthweights were around twice the proportions born to all Australian mothers, with 12.4 per cent weighing less than 2500 grams and 2.3 per cent weighing less than 1500 grams (figure E.16 and table EA.22).

<sup>6</sup> Figures for births to Indigenous mothers exclude Tasmania.

Figure E.16 **Low birthweight babies (under 2500 grams), by Indigenous status, 2006<sup>a, b</sup>**



<sup>a</sup> Proportion of live births with birthweights under 2500 grams. <sup>b</sup> In the ACT, 16.3 per cent of women who gave birth were non-ACT residents. Care must be taken when interpreting percentages. For example, the proportion of liveborn low birthweight babies born in the ACT to ACT resident Aboriginal or Torres Strait Islander women in 2006 where the birthweight was less than 2500 grams was 10.8 per cent.

Source: Laws, P. and Hilder, L. (2008) *Australia's Mothers and Babies 2006*, AIHW Cat. no. PER 46, National Perinatal Statistics Unit (Perinatal Statistics Series no. 22), AIHW, Sydney; tables EA.21 and EA.22.

## Future directions

New features and developments in this Report are listed in chapter 2. In addition, each of the health chapters has a section that covers the future directions for reporting.

Improving reporting on Indigenous health is a priority across all of the health chapters. Performance indicators for health services used by Indigenous Australians were first published in the 2000 Report. A strategy to improve reporting on Indigenous health was developed in 2003, and improvements have since been made where possible. This work is being informed by the new Aboriginal and Torres Strait Islander Health Performance Framework.

## Reform of Specific Purpose Payments

In December 2007, COAG agreed to reform Specific Purpose Payments (SPPs). SPPs are financial agreements between the Australian Government and State and Territory governments involving a contribution by the Australian Government to the funding of services which are considered a joint Australian and State and

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Territory government responsibility. The Australian Health Care Agreement was such an SPP.

At its 29 November 2008 meeting, COAG agreed to six new National Agreements, five of which are associated with a National SPP. In the area of health and ageing, there is a Australian Health Care Agreement associated with the National Health Care SPP (COAG November 2008). Under the reforms, the Australian Health Care Agreement contains the objectives, outcomes, outputs and performance indicators for health and ageing. The performance of governments in achieving these mutually agreed outcomes will be assessed by the COAG Reform Council (CRC). The Steering Committee has been requested by COAG to provide the SPP performance information to the CRC (COAG July 2008).

The National Agreements/SPPs will be supplemented by a range of National Partnerships (NPs): project, facilitation and reward agreements. Funding for NPs may be conditional on states and territories meeting agreed milestones and performance benchmarks.

The Steering Committee and the Health Working Group will ensure that reporting in this chapter reflects the COAG priorities identified in the Australian Health Care Agreement, National Health Care SPP and relevant NPs.

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## Attachment tables

Attachment tables are identified in references throughout this preface by an 'EA' suffix (for example, table EA.3). Attachment tables are provided on the CD-ROM enclosed with the Report and on the Review website ([www.pc.gov.au/gsp](http://www.pc.gov.au/gsp)). Users without access to the CD-ROM or the website can contact the Secretariat to obtain the attachment tables (see contact details on the inside front cover of the Report).

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# EA Health preface — attachment

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](http://www.pc.gov.au/gsp)). Users without Internet access can contact the Secretariat to obtain these tables (see details on the inside front cover of the Report).

Data reported in the attachment tables are the most accurate available at the time of data collection. Historical data may have been updated since the last report.

## Attachment contents

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Table EA.1

Table EA.1 **Total health expenditure, by source of funds (2006-07 dollars) (a), (b)**

	<i>Unit</i>	<i>Australian Government (c)</i>	<i>State, Territory and local governments</i>	<i>Total government</i>	<i>Non-government (c)</i>	<i>Total</i>
<b>Expenditure</b>						
1996-97	\$m	24 048	13 987	38 034	20 050	<b>58 084</b>
1997-98	\$m	25 708	15 006	40 714	19 796	<b>60 510</b>
1998-99	\$m	27 850	14 932	42 782	21 070	<b>63 852</b>
1999-2000	\$m	30 092	16 530	46 623	20 956	<b>67 579</b>
2000-01	\$m	32 280	16 803	49 083	23 269	<b>72 353</b>
2001-02	\$m	33 303	17 578	50 881	25 326	<b>76 207</b>
2002-03	\$m	34 755	19 393	54 149	25 961	<b>80 109</b>
2003-04	\$m	35 767	19 706	55 473	26 908	<b>82 381</b>
2004-05	\$m	38 097	20 994	59 091	27 834	<b>86 924</b>
2005-06	\$m	38 412	22 838	61 250	28 418	<b>89 668</b>
2006-07	\$m	39 882	24 658	64 540	29 463	<b>94 003</b>
<b>Shares (d)</b>						
1996-97	%	41.4	24.1	65.5	34.5	<b>100.0</b>
1997-98	%	42.5	24.8	67.3	32.7	<b>100.0</b>
1998-99	%	43.6	23.4	67.0	33.0	<b>100.0</b>
1999-2000	%	44.5	24.5	69.0	31.0	<b>100.0</b>
2000-01	%	44.6	23.2	67.8	32.2	<b>100.0</b>
2001-02	%	43.7	23.1	66.8	33.2	<b>100.0</b>
2002-03	%	43.4	24.2	67.6	32.4	<b>100.0</b>
2003-04	%	43.4	23.9	67.3	32.7	<b>100.0</b>
2004-05	%	43.8	24.2	68.0	32.0	<b>100.0</b>
2005-06	%	42.8	25.5	68.3	31.7	<b>100.0</b>
2006-07	%	42.4	26.2	68.7	31.3	<b>100.0</b>

(a) Constant price health expenditure for 1996-97 to 2006-07 is expressed in terms of 2006-07 prices.

(b) Components may not add to totals due to rounding.

(c) Funding of expenditure has been adjusted for non-specific tax expenditure.

(d) Data are derived.

Source: Australian Institute of Health and Welfare (AIHW) (2008) *Health Expenditure Australia 2006-07*, Cat. no. HWE 42, Canberra.

Table EA.2

## Table EA.2 Government recurrent health expenditure, by area of expenditure (2006-07 dollars) (a), (b), (c), (d)

Expenditure	Unit	Public hospitals (e)	Private hospitals	Medical services	Dental services (e)	Other health practitioners (f)	Medications	Other health (e), (g)	Total government recurrent expenditure
1996-97	\$m	15 739	488	9 258	543	280	3 764	5 630	35 701
1997-98	\$m	16 814	851	9 423	573	307	3 784	6 075	37 827
1998-99	\$m	17 459	1 322	9 743	645	359	4 077	6 327	39 930
1999-2000	\$m	17 783	1 806	10 256	823	414	4 549	7 667	43 296
2000-01	\$m	18 079	2 061	10 305	829	650	5 446	8 062	45 432
2001-02	\$m	18 889	2 138	10 740	890	675	5 668	8 318	47 316
2002-03	\$m	20 378	2 598	10 876	908	716	6 052	8 976	50 503
2003-04	\$m	21 439	2 637	11 149	933	776	6 416	9 081	52 409
2004-05	\$m	22 159	2 740	12 453	992	689	6 502	9 879	55 413
2005-06	\$m	23 513	2 844	12 650	1 028	735	6 322	10 198	57 290
2006-07	\$m	25 097	2 930	13 070	1 047	849	6 307	11 119	60 418
Shares (h)									
1996-97	%	44.1	1.4	25.9	1.5	0.8	10.5	15.8	100.0
1997-98	%	44.4	2.2	24.9	1.5	0.8	10.0	16.1	100.0
1998-99	%	43.7	3.3	24.4	1.6	0.9	10.2	15.8	100.0
1999-2000	%	41.1	4.2	23.7	1.9	1.0	10.5	17.7	100.0
2000-01	%	39.8	4.5	22.7	1.8	1.4	12.0	17.7	100.0
2001-02	%	39.9	4.5	22.7	1.9	1.4	12.0	17.6	100.0
2002-03	%	40.3	5.1	21.5	1.8	1.4	12.0	17.8	100.0
2003-04	%	40.9	5.0	21.3	1.8	1.5	12.2	17.3	100.0

Table EA.2

Table EA.2 **Government recurrent health expenditure, by area of expenditure (2006-07 dollars) (a), (b), (c), (d)**

	Unit	Public hospitals (e)	Private hospitals	Medical services	Dental services (e)	Other health practitioners (f)	Medications	Other health (e), (g)	Total government recurrent expenditure
2004-05	%	40.0	4.9	22.5	1.8	1.2	11.7	17.8	100.0
2005-06	%	41.0	5.0	22.1	1.8	1.3	11.0	17.8	100.0
2006-07	%	41.5	4.8	21.6	1.7	1.4	10.4	18.4	100.0

(a) Funding of expenditure has been adjusted for non-specific tax expenditure.

(b) Constant price health expenditure for 1996-97 to 2006-07 is expressed in terms of 2006-07 prices using the Implicit Price Deflator, constructed by AIHW, presented in table EA.7.

(c) Tables show funding provided by the Australian Government, State and Territory governments and local government authorities and by the major non-government sources of funding for health care. It does not show gross outlays on health goods and services by the different service provider sectors.

(d) Components may not add to totals due to rounding.

(e) Public hospitals (1996-97 to 2002-03) includes any dental services, community health services, patient transport services, public health and health research undertaken by the hospital. Can include services provided off the hospital site such as hospital in the home, dialysis or other services. Public hospital services (2003-04 to 2006-07) excludes any dental services, community health services, patient transport services, public health and health research undertaken by the hospital. Can include services provided off the hospital site such as hospital in the home, dialysis or other services.

(f) Due to changes in methods, care must be taken comparing 2002-03 and 2003-04.

(g) Other health comprises patient transport services, community health, public health, aids and appliances, other non-institutional health nec., administration and research.

(h) Data are derived.

Source: AIHW (2008) *Health Expenditure Australia 2006-07*, Cat. no. HWE 42, Canberra.

Table EA.3

Table EA.3		Non-government recurrent health expenditure by area of expenditure (2006-07 dollars) (a), (b), (c), (d)							Total non-
Expenditure	Unit	Public hospitals (e)	Private hospitals	Medical services	Dental services (e)	Other health practitioners (f)	Medications	Other health (e), (g)	government recurrent expenditure
1996-97	\$m	1 473	4 329	2 048	2 975	1 911	3 313	2 631	18 682
1997-98	\$m	1 356	4 090	2 107	2 927	1 721	3 751	2 623	18 574
1998-99	\$m	1 441	3 896	2 179	2 888	1 702	3 959	3 175	19 239
1999-2000	\$m	1 414	3 601	2 230	2 889	1 624	4 266	3 095	19 119
2000-01	\$m	1 547	3 539	2 333	3 446	1 707	4 633	4 009	21 213
2001-02	\$m	1 688	3 892	2 689	3 923	1 951	5 180	3 846	23 170
2002-03	\$m	1 583	3 778	3 025	4 080	2 133	4 889	4 068	23 555
2003-04	\$m	1 426	4 029	3 286	4 264	2 209	5 092	4 127	24 434
2004-05	\$m	1 580	4 059	3 285	4 467	2 320	5 496	4 217	25 426
2005-06	\$m	1 750	4 063	3 362	4 515	2 405	5 596	4 298	25 989
2006-07	\$m	1 867	4 171	3 632	4 690	2 427	5 650	4 428	26 865
Shares (h)									
1996-97	%	7.9	23.2	11.0	15.9	10.2	17.7	14.1	100.0
1997-98	%	7.3	22.0	11.3	15.8	9.3	20.2	14.1	100.0
1998-99	%	7.5	20.3	11.3	15.0	8.8	20.6	16.5	100.0
1999-2000	%	7.4	18.8	11.7	15.1	8.5	22.3	16.2	100.0
2000-01	%	7.3	16.7	11.0	16.2	8.0	21.8	18.9	100.0
2001-02	%	7.3	16.8	11.6	16.9	8.4	22.4	16.6	100.0
2002-03	%	6.7	16.0	12.8	17.3	9.1	20.8	17.3	100.0
2003-04	%	5.8	16.5	13.4	17.5	9.0	20.8	16.9	100.0



Table EA.3

Table EA.3 **Non-government recurrent health expenditure by area of expenditure (2006-07 dollars) (a), (b), (c), (d)**

Unit	Public hospitals (e)	Private hospitals	Medical services	Dental services (e)	Other health practitioners (f)	Medications	Other health (e), (g)	Total non-government recurrent expenditure
2004-05	%	6.2	16.0	12.9	17.6	9.1	21.6	100.0
2005-06	%	6.7	15.6	12.9	17.4	9.3	21.5	100.0
2006-07	%	6.9	15.5	13.5	17.5	9.0	21.0	100.0

(a) Funding of expenditure has been adjusted for non-specific tax expenditure.

(b) Constant price health expenditure for 1996-97 to 2006-07 is expressed in terms of 2006-07 prices using the Implicit Price Deflator, constructed by AIHW, presented in table EA.7.

(c) Tables show funding provided by the Australian Government, State and Territory governments and local government authorities and by the major non-government sources of funding for health care. It does not show gross outlays on health goods and services by the different service provider sectors.

(d) Components may not add to totals due to rounding.

(e) Public hospitals (1996-97 to 2002-03) includes any dental services, community health services, patient transport services, public health and health research undertaken by the hospital. Can include services provided off the hospital site such as hospital in the home, dialysis or other services. Public hospital services (2003-04 to 2006-07) excludes any dental services, community health services, patient transport services, public health and health research undertaken by the hospital. Can include services provided off the hospital site such as hospital in the home, dialysis or other services.

(f) Due to changes in methods, care must be taken comparing 2002-03 and 2003-04.

(g) Other health comprises patient transport services, community health, public health, aids and appliances, other non-institutional health nec., administration and research.

(h) Data are derived.

Source: AIHW (2008) *Health Expenditure Australia 2006-07*, Cat. no. HWE 42, Canberra, Australian Bureau of Statistics (ABS) (2007) *Australian Demographic Statistics*, Cat. no. 3101.0.

Table EA.4

Table EA.4 Recurrent health expenditure, by source of funds and area of expenditure, 2006-07 (a)

Area of expenditure	Unit	Government					Non-government			Total	
		Australian Government		State, Territory and local government	Private health insurance funds	Total non- government	Individuals	Other (c)	government		
		Direct expenditure	Health insurance premium rebates (b)								Total
<b>Expenditure</b>											
<i>Institutional</i>											
Hospitals	\$m	11 539	1 904	13 443	14 583	28 027	3 770	471	1 797	6 038	34 065
Public hospital services (d)	\$m	10 530	233	10 763	14 334	25 097	461	145	1 261	1 867	26 964
Private hospitals	\$m	1 009	1 671	2 680	250	2 930	3 309	326	537	4 171	7 101
Patient transport services	\$m	143	51	194	1 172	1 366	101	233	75	410	1 776
<b>Total institutional</b>	<b>\$m</b>	<b>11 682</b>	<b>1 955</b>	<b>13 638</b>	<b>15 755</b>	<b>29 393</b>	<b>3 871</b>	<b>704</b>	<b>1 873</b>	<b>6 448</b>	<b>35 841</b>
<i>Non-institutional</i>											
Medical services	\$m	12 718	351	13 070	–	13 070	696	2 006	930	3 632	16 701
Dental services	\$m	114	414	528	519	1 047	820	3 860	10	4 690	5 737
State/territory provider	\$m	..	..	..	519	519	..	29	..	29	548
Private provider	\$m	114	414	528	..	528	820	3 831	10	4 660	5 188
Other health practitioners	\$m	642	206	849	–	849	409	1 725	293	2 427	3 276
Community health and other (e)	\$m	468	–	468	3 637	4 105	–	221	54	276	4 381
Public health	\$m	1 001	–	1 001	685	1 687	–	28	–	28	1 714
Medications	\$m	6 285	22	6 307	–	6 307	44	5 539	67	5 650	11 957
Benefit-paid medications	\$m	6 227	–	6 227	–	6 227	–	1 277	–	1 277	7 504
All other medications	\$m	57	22	80	–	80	44	4 262	67	4 373	4 453
Aids and appliances	\$m	298	145	442	–	442	286	2 252	45	2 583	3 026
Administration	\$m	989	358	1 348	310	1 658	709	–	–	709	2 367
Research	\$m	1 623	–	1 623	237	1 861	–	–	422	422	2 283

Table EA.4

Table EA.4 Recurrent health expenditure, by source of funds and area of expenditure, 2006-07 (a)

Area of expenditure	Unit	Government						Non-government			Total
		Australian Government			Private health insurance funds			Individuals	Other (c)	government	
		Direct expenditure	Health insurance premium rebates (b)	Total	State, Territory and local government	Total government	Total non-government				
<b>Total non-institutional</b>	<b>\$m</b>	<b>24 139</b>	<b>1 498</b>	<b>25 636</b>	<b>5 389</b>	<b>31 025</b>	<b>2 965</b>	<b>15 631</b>	<b>1 821</b>	<b>20 417</b>	<b>51 442</b>
<b>Total recurrent</b>	<b>\$m</b>	<b>35 821</b>	<b>3 453</b>	<b>39 274</b>	<b>21 144</b>	<b>60 418</b>	<b>6 836</b>	<b>16 335</b>	<b>3 694</b>	<b>26 865</b>	<b>87 283</b>
Shares (f)											
<i>Institutional</i>											
Hospitals	%	33.9	5.6	39.5	42.8	82.3	11.1	1.4	5.3	17.7	100.0
Public hospital services	%	39.1	0.9	39.9	53.2	93.1	1.7	0.5	4.7	6.9	100.0
Private hospitals	%	14.2	23.5	37.7	3.5	41.3	46.6	4.6	7.6	58.7	100.0
Patient transport services	%	8.1	2.9	10.9	66.0	76.9	5.7	13.1	4.2	23.1	100.0
<b>Total institutional</b>	<b>%</b>	<b>32.6</b>	<b>5.5</b>	<b>38.1</b>	<b>44.0</b>	<b>82.0</b>	<b>10.8</b>	<b>2.0</b>	<b>5.2</b>	<b>18.0</b>	<b>100.0</b>
<i>Non-institutional</i>											
Medical services	%	76.2	2.1	78.3	–	78.3	4.2	12.0	5.6	21.7	100.0
Dental services	%	2.0	7.2	9.2	9.0	18.2	14.3	67.3	0.2	81.8	100.0
State/territory provider	%	..	..	..	94.7	94.7	..	5.3	..	5.3	100.0
Private provider	%	2.2	8.0	10.2	..	10.2	15.8	73.8	0.2	89.8	100.0
Other health practitioners	%	19.6	6.3	25.9	–	25.9	12.5	52.7	8.9	74.1	100.0
Community health and other	%	10.7	–	10.7	83.0	93.7	–	5.0	1.2	6.3	100.0
Public health	%	58.4	–	58.4	40.0	98.4	–	1.6	–	1.6	100.0
Medications	%	52.6	0.2	52.7	–	52.7	0.4	46.3	0.6	47.3	100.0
Benefit-paid medications	%	83.0	–	83.0	–	83.0	–	17.0	–	17.0	100.0
All other medications	%	1.3	0.5	1.8	–	1.8	1.0	95.7	1.5	98.2	100.0
Aids and appliances	%	9.8	4.8	14.6	–	14.6	9.5	74.4	1.5	85.4	100.0

Table EA.4

Table EA.4 Recurrent health expenditure, by source of funds and area of expenditure, 2006-07 (a)

Area of expenditure	Unit	Government					Non-government			Total
		Australian Government		State, Territory and local government	Private health insurance funds	Total government	Individuals	Other (c)	Total non- government	
		Direct expenditure	Health insurance premium rebates (b)							
Administration	%	41.8	15.1	56.9	13.1	70.0	30.0	–	30.0	100.0
Research	%	71.1	–	71.1	10.4	81.5	–	–	18.5	100.0
<b>Total non-institutional</b>	<b>%</b>	<b>46.9</b>	<b>2.9</b>	<b>49.8</b>	<b>10.5</b>	<b>60.3</b>	<b>5.8</b>	<b>30.4</b>	<b>3.5</b>	<b>100.0</b>
<b>Total recurrent</b>	<b>%</b>	<b>41.0</b>	<b>4.0</b>	<b>45.0</b>	<b>24.2</b>	<b>69.2</b>	<b>7.8</b>	<b>18.7</b>	<b>4.2</b>	<b>100.0</b>

(a) Tables show funding provided by the Australian Government, State and Territory governments and local government authorities and by the major non-government sources of funding for health care. They do not show gross outlays on health goods and services by the different service provider sectors.

(b) Includes the 30 per cent rebate on health insurance premiums that can be claimed either directly from the Australian Government through the taxation system or Medicare or it may involve a reduced premium being charged by the private health insurance fund (with a subsequent reimbursement to the fund by the Australian Government).

(c) 'Other' includes expenditure on health goods and services by workers' compensation and compulsory third-party motor vehicle insurers as well as other sources of income (for example, interest earned) for service providers.

(d) Public hospital services excludes any dental services, community health services, patient transport services, public health and health research undertaken by the hospital. Can include services provided off the hospital site such as hospital in the home dialysis or other services.

(e) 'Other' denotes 'other non-institutional nec.'

(f) Data are derived.

– Nil or rounded to zero. ... Not applicable.

Source: AIHW (2008) *Health Expenditure Australia 2006-07*, Cat. no. HWE 42, Canberra.

Table EA.5

Table EA.5 **Total health expenditure per person (2006-07 dollars) (a), (b)**

	<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>WA</i>	<i>SA</i>	<i>Tas</i>	<i>ACT (c)</i>	<i>NT</i>	<i>Aust</i>
2002-03	4 266	4 485	4 044	4 101	4 442	4 117	np	4 969	4 283
2003-04	4 472	4 488	4 246	4 299	4 611	4 117	np	4 484	4 423
2004-05	4 297	4 321	4 037	4 405	4 521	4 015	np	5 183	4 292
2005-06	4 367	4 396	4 158	4 431	4 422	4 306	np	5 505	4 365
2006-07	4 490	4 475	4 466	4 574	4 533	4 261	np	5 603	4 508

(a) Constant price health expenditure for 1996-97 to 2006-07 is expressed in terms of 2006-07 prices.

(b) Data are derived.

(c) ACT per person figures are not calculated, as the expenditure numbers for the ACT include substantial expenditures for NSW residents. Thus the ACT population is not the appropriate denominator.

**np** Not published.

Source: AIHW (2008) *Health Expenditure Australia 2006-07*, Cat. no. HWE 42, Canberra, ABS (2007) *Australian Demographic Statistics*, Cat. no. 3101.0.

Table EA.6

**Table EA.6 Recurrent health expenditure per person by source of funds, excluding high level residential aged care (2006-07 dollars) (a), (b), (c)**

	<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>WA</i>	<i>SA</i>	<i>Tas</i>	<i>ACT (d)</i>	<i>NT</i>	<i>Aust</i>
Government recurrent health expenditure									
2002-03	2 737	2 830	2 610	2 735	3 021	2 751	np	3 760	2 774
2003-04	2 677	2 510	2 475	2 653	2 824	2 506	np	3 882	2 619
2004-05	2 810	2 625	2 547	2 764	2 995	2 616	np	4 013	2 736
2005-06	2 877	2 644	2 664	2 728	3 026	2 713	np	4 126	2 789
2006-07	2 959	2 698	2 853	2 881	3 133	2 849	np	4 352	2 897
Non-government recurrent health expenditure									
2002-03	1 297	1 396	1 152	1 185	1 214	1 210	np	965	1 270
2003-04	1 219	1 360	1 080	1 227	1 183	1 098	np	870	1 221
2004-05	1 252	1 413	1 114	1 282	1 160	1 084	np	865	1 255
2005-06	1 233	1 434	1 143	1 304	1 183	1 117	np	957	1 265
2006-07	1 266	1 458	1 174	1 333	1 135	1 137	np	936	1 288
Total recurrent health expenditure									
2002-03	4 033	4 225	3 762	3 921	4 235	3 961	np	4 725	4 044
2003-04	3 896	3 870	3 556	3 880	4 008	3 605	np	4 752	3 840
2004-05	4 062	4 038	3 661	4 046	4 156	3 701	np	4 878	3 992
2005-06	4 110	4 078	3 806	4 032	4 209	3 830	np	5 083	4 054
2006-07	4 225	4 156	4 028	4 214	4 269	3 986	np	5 288	4 186

- (a) Tables show funding provided by the Australian Government, state and territory governments and local government authorities and by the major non-government sources of funding for health goods and services. They do not show gross outlays on health services by the different service provider sectors.
- (b) Constant price health expenditure for 2002-03 to 2006-07 is expressed in terms of 2006-07 prices using the Implicit Price Deflator, constructed by AIHW, presented in table EA.7.
- (c) Data are derived.
- (d) ACT per person figures are not calculated, as the expenditure numbers for the ACT include substantial expenditure for NSW residents. Thus the ACT population is not the appropriate denominator.

**np** Not published.

Source: AIHW (2008) *Health Expenditure Australia 2006-07*, Cat. no. HWE 42, Canberra, ABS (2007) *Australian Demographic Statistics*, Cat. no. 3101.0.

Table EA.7 **Total health price index (a)**

	<i>Index</i>
1996-97	72.5
1997-98	74.0
1998-99	75.9
1999-2000	77.8
2000-01	80.7
2001-02	83.4
2002-03	86.3
2003-04	89.4
2004-05	93.1
2005-06	96.8
2006-07	100.0

(a) Implicit Price Deflator, constructed by AIHW.

Source: AIHW (2008) *Health Expenditure Australia 2006-07*, Cat. no. HWE 42, Canberra.

Table EA.8 **Employed medical practitioners (a), (b)**

	<i>NSW</i>	<i>Vic</i>	<i>Qld (c)</i>	<i>WA</i>	<i>SA</i>	<i>Tas (c)</i>	<i>ACT</i>	<i>NT (d)</i>	<i>Aust</i>
Practitioner rate (per 100 000 people)									
2002	281	303	220	241	310	257	378	343	275
2006	311	322	239	307	326	276	401	411	302
FTE practitioner rate (per 100 000 people) based on total weekly hours									
2002	279	301	217	233	299	237	368	345	271
2006	300	316	231	285	309	252	367	402	290

FTE = Full time equivalent.

(a) FTE practitioner rate (per 100 000 people) based on a 45-hour week.

(b) Number of 'employed medical practitioners' does not include medical practitioners on extended leave.

(c) The number of medical practitioners in Queensland and Tasmania are underestimates as the benchmark figures did not include all registered medical practitioners.

(d) Northern Territory data for 2006 are based on responses to the 2007 Medical Labour Force Survey weighted to 2006 benchmark figures, equivalent to a response rate of 28.6 per cent. Care should be taken when interpreting these figures.

Source: AIHW (2008) *Medical labour force 2006*, AIHW Cat. no. HWL 42, National Health Labour Force Series no. 41, AIHW, Canberra.



Table EA.9 **Employed nurses (a)**

	<i>NSW</i>	<i>Vic (b)</i>	<i>Qld</i>	<i>WA (c)</i>	<i>SA</i>	<i>Tas</i>	<i>ACT</i>	<i>NT (d)</i>	<i>Aust (e)</i>
FTE nurses rate (per 100 000 people) based on a 35-hour week									
2001	992	1 146	968	935	1 095	1 022	1 071	1 058	1 031
2003	1 057	1 235	976	965	1 286	1 240	1 134	1 723	1 106
2004	1 099	1 249	998	1 069	1 374	1 212	1 173	1 262	1 138
2005	1 055	1 249	999	1 035	1 398	1 295	1 242	np	1 133

FTE = Full time equivalent.

- (a) Number of 'employed nurses' does not include nurses on extended leave.
- (b) Estimates for Victoria for 2005 are derived from responses to the 2006 AIHW Nursing and Midwifery Labour Force Census, weighted to 2005 registration and enrolment benchmark figures.
- (c) Estimates for 2005 should be treated with caution due to low response rate (26.9 per cent) in the 2005 census. The WA estimates for 2004 have been revised and therefore the national figures shown here may differ from these previously published.
- (d) Estimates for the NT for 2005 are not separately published due to the very low response rate to the census in that jurisdiction (13.7 per cent).
- (e) The total for Australia includes estimates for the NT and WA. Due to relative size of the nursing and midwifery workforces in these jurisdictions, any biases in their estimates are unlikely to have a significant effect on the accuracy of the national figures.

**np** Not published.

*Source:* AIHW (2008) *Nursing and midwifery labour force 2005*, AIHW Cat. no. HWL 40, National Health Labour Force Series no. 39, Canberra; AIHW (2005) *Nursing and midwifery labour force 2003*, AIHW Cat. no. HWL 31, National Health Labour Force Series no. 31, Canberra.

Table EA.10

Table EA.10 Indigenous health workforce, by State/Territory, 2006 (a), (b), (c)

	NSW	Vic	Qld	WA	SA	Tas	ACT	NT	Aust (c)
<b>Number of Indigenous health workers</b>									
Number of total health workforce	1 743	381	1 343	486	302	196	47	390	4 891
Indigenous health workforce as a proportion of total health workforce	159 158	125 749	93 404	47 749	42 386	11 820	7 613	4 428	492 342
	1.1	0.3	1.4	1.0	0.7	1.7	0.6	8.8	1.0
Indigenous population	85 320	19 017	77 958	37 017	16 268	10 687	2 471	35 014	283 911
Total population	5 250 262	3 982 037	3 097 997	1 562 653	1 233 516	382 453	262 107	145 290	15 918 080
<b>Indigenous health workers as a proportion of the Indigenous population (per cent)</b>									
	2.0	2.0	1.7	1.3	1.9	1.8	1.9	1.1	1.7
<b>Proportion of State/Territory population that is Indigenous</b>									
	1.6	0.5	2.5	2.4	1.3	2.8	0.9	24.1	1.8

(a) Aged 15 years and over.

(b) Cells in this table have been randomly adjusted to avoid the release of confidential data.

(c) See table EA.12 for information about the scope of the Indigenous Health Workforce.

(d) Includes Other Territories.

Source: ABS (unpublished); ABS (2007) 2006 Census of Population and Housing, Canberra.

**Table EA.11 Indigenous people in health workforce as a proportion of total health workforce, by age group and sex, 2006 (a)**

<i>Age group</i>	<i>15-24</i>	<i>25-34</i>	<i>35-44</i>	<i>45-54</i>	<i>55-64</i>	<i>Total (b)</i>
<b>Indigenous persons in health workforce, by age by sex</b>						
Males	108	301	388	314	104	1 223
Females	406	803	1 100	984	347	3 666
<b>Total</b>	<b>518</b>	<b>1 098</b>	<b>1 486</b>	<b>1 290</b>	<b>453</b>	<b>4 891</b>
<b>All persons in health workforce, by age by sex</b>						
Males	5 604	24 496	31 374	32 748	19 048	119 386
Females	30 549	78 498	97 751	110 928	49 611	372 961
<b>Total</b>	<b>36 150</b>	<b>102 996</b>	<b>129 125</b>	<b>143 676</b>	<b>68 658</b>	<b>492 342</b>
<b>Proportion of total health workforce (per cent)</b>						
Males	0.3	0.3	0.3	0.2	0.2	0.2
Females	1.1	0.8	0.9	0.7	0.5	0.7
<b>Total</b>	<b>1.4</b>	<b>1.1</b>	<b>1.2</b>	<b>0.9</b>	<b>0.7</b>	<b>1.0</b>

(a) Cells in this table have been randomly adjusted to avoid the release of confidential data.

(b) Includes persons aged 65 years and over.

Source: ABS (unpublished); ABS (2007) *2006 Census of Population and Housing*, Canberra.

**Table EA.12 Indigenous persons employed in selected health-related occupations, 2006 (a)**

	<i>Indigenous people</i>	<i>All persons</i>	<i>Percent of Indigenous people in selected health-related occupations</i>
Health and Welfare Services Managers (b)	141	10 807	1.3
Psychologists (c)	39	13 437	0.3
<i>Health diagnostic and promotion professionals</i>			
Medical Imaging Professionals (d)	18	10 147	0.2
Environmental Health Officer	98	3 907	2.5
Occupational Health and Safety Adviser	50	6 840	0.7
Health Promotion Officer	437	3 898	11.2
Other health diagnostic and promotion professionals (e)	45	23 287	0.2
<b>Total</b>	<b>648</b>	<b>48 079</b>	<b>1.3</b>
<i>Health therapy professionals</i>			
Dental Practitioners (f)	16	9 065	0.2
Dental Hygienists, Technicians and Therapists (g)	22	5 169	0.4
Dental Assistant	171	15 378	1.1
Physiotherapist	54	12 286	0.4
Other health therapy professionals (h)	58	22 699	0.3
<b>Total</b>	<b>321</b>	<b>64 597</b>	<b>0.5</b>
<i>Medical practitioners</i>			
General Medical Practitioner	60	29 920	0.2
Other medical practitioners, Internal Medicine (i) specialists, Psychiatrists & Surgeons	40	25 155	0.2
<b>Total</b>	<b>100</b>	<b>55 075</b>	<b>0.2</b>
<i>Midwifery and nursing professionals</i>			
Midwives (j)	53	13 164	0.4
Nurse Educators and Researchers (k)	17	3 762	0.5
Nurse Manager	46	10 899	0.4
Registered Nurse (Aged Care)	239	25 070	1.0
Registered Nurse (Community Health)	51	8 771	0.6

**Table EA.12 Indigenous persons employed in selected health-related occupations, 2006 (a)**

	<i>Indigenous people</i>	<i>All persons</i>	<i>Percent of Indigenous people in selected health-related occupations</i>
Registered Nurse (Critical Care and Emergency)	44	9 917	0.4
Registered Nurse (Mental Health)	48	7 712	0.6
Registered Nurse (Perioperative)	46	10 009	0.5
Other Registered Nurses (l)	679	111 096	0.6
<b>Total</b>	<b>1 223</b>	<b>200 400</b>	<b>0.6</b>
<i>Health and welfare support workers</i>			
Ambulance Officers and Paramedics	153	9 098	1.7
Diversional Therapist	41	4 078	1.0
Enrolled and Mothercraft Nurses	215	19 397	1.1
Aboriginal and Torres Strait Islander Health Worker	965	1 010	95.5
Massage Therapist	54	8 200	0.7
Hospital Orderly	165	9 939	1.7
Nursing Support Worker	442	22 380	2.0
Personal Care Assistant	339	21 956	1.5
Other Nursing Support and Personal Care Workers (m)	39	3 899	1.0
<b>Total</b>	<b>2 413</b>	<b>99 957</b>	<b>2.4</b>
<b>Total aged 15 years and over (n)</b>	<b>4 891</b>	<b>492 342</b>	<b>1.0</b>

(a) Aged 15 years and over.

(b) Comprises Health and Welfare Services Managers, nfd, Medical Administrator, Nursing Clinical Director, Primary Health Organisation Manager, Health and Welfare Services Managers, nec.

(c) Comprises Psychologists, nfd, Clinical Psychologist, Educational Psychologist, Organisational Psychologist, Psychotherapist, Psychologists, nec.

(d) Comprises Medical Imaging Professionals, nfd, Medical Diagnostic Radiographer, Medical Radiation Therapist, Nuclear Medicine Technologist, Sonographer.

(e) Comprises Health Professionals, nfd, Health Diagnostic and Promotion Professionals, nfd, Dietician, Occupational and Environmental Health Professionals, nfd, Optometrists and Orthoptists, nfd, Optometrist, Orthoptist, Pharmacists, nfd, Hospital Pharmacist, Industrial Pharmacist, Retail Pharmacist, Other Health Diagnostic and Promotion Professionals, nfd, Orthotist or Prosthetist, Health Diagnostic and Promotion Professionals, nec.

(f) Comprises Dental Practitioners, nfd, Dental Specialist, Dentist.

(g) Comprises Dental Hygienists, Technicians and Therapists, nfd, Dental Hygienist, Dental Prosthetist, Dental Technician, Dental Therapist.

(h) Comprises Health Therapy Professionals, nfd, Chiropractors and Osteopaths, nfd, Chiropractor, Osteopath, Complementary Health Therapists, nfd, Acupuncturist, Homeopath, Naturopath, Traditional Chinese Medicine Practitioner, Complementary Health Therapists, nec., Occupational Therapist, Podiatrist, Speech Professionals and Audiologists, nfd, Audiologist, Speech Pathologist.

**Table EA.12 Indigenous persons employed in selected health-related occupations, 2006 (a)**

	<i>Indigenous people</i>	<i>All persons</i>	<i>Percent of Indigenous people in selected health-related occupations</i>
(i) Comprises Medical Practitioners, nfd, Generalist Medical Practitioners, nfd, Resident Medical Officer, Anaesthetist, Internal Medicine Specialists, nfd, Specialist Physician (General Medicine), Cardiologist, Clinical Haematologist, Clinical Oncologist, Endocrinologist, Gastroenterologist, Intensive Care Specialist, Neurologist, Paediatrician, Renal Medicine Specialist, Rheumatologist, Thoracic Medicine Specialist, Internal Medicine Specialists, nec, Psychiatrist, Surgeons, nfd, Surgeon (General), Cardiothoracic Surgeon, Neurosurgeon, Orthopaedic Surgeon, Otorhinolaryngologist, Paediatric Surgeon, Plastic and Reconstructive Surgeon, Urologist, Vascular Surgeon, Other Medical Practitioners, nfd, Dermatologist, Emergency Medicine Specialist, Obstetrician and Gynaecologist, Ophthalmologist, Pathologist, Radiologist, Medical Practitioners, nec.			
(j) Comprises Midwifery and Nursing Professionals, nfd, Midwife.			
(k) Comprises Nurse Educators and Researchers, nfd, Nurse Educator, Nurse Researcher.			
(l) Comprises Registered Nurses, nfd, Nurse Practitioner, Registered Nurse (Child and Family Health), Registered Nurse (Developmental Disability), Registered Nurse (Disability and Rehabilitation), Registered Nurse (Medical), Registered Nurse (Medical Practice), Registered Nurse (Surgical), Registered Nurses, nec.			
(m) Comprises Nursing Support and Personal Care Workers, nfd, Therapy Aide.			
(n) Components may not add to total due to perturbation of component data.			
<i>Source:</i> ABS (2007) <i>2006 Census of Population and Housing</i> , Canberra.			

Table EA.13 **Mortality rates, age standardised for all causes (per 1000 people) (a)**

	<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 (b)</i>
All Australians, annual									
2001	6.6	6.5	6.7	6.3	6.8	7.6	6.3	9.4	6.6
2002	6.7	6.6	6.8	6.5	6.7	7.6	6.0	9.2	6.7
2003	6.5	6.3	6.4	6.3	6.6	7.4	5.9	9.4	6.5
2004	6.4	6.1	6.5	6.0	6.2	7.1	5.7	8.7	6.3
2005	6.1	5.9	6.0	5.9	6.2	6.9	5.7	9.3	6.0
2006	6.0	5.9	6.0	5.8	6.0	6.8	5.5	8.7	6.0
Indigenous (c)									
1999–2003	na	na	12.0	12.7	11.6	na	na	17.2	13.2
2000–2004	na	na	12.0	13.2	11.7	na	na	17.1	13.4
2001–2005	na	na	11.7	13.3	11.2	na	na	16.7	13.1
2002–2006	na	na	11.9	14.0	11.0	na	na	16.8	13.3
Non-Indigenous (d)									
1999–2003	na	na	6.7	6.4	6.7	na	na	7.3	6.6
2000–2004	na	na	6.6	6.2	6.6	na	na	7.0	6.5
2001–2005	na	na	6.4	6.1	6.5	na	na	7.0	6.4
2002–2006	na	na	6.3	6.0	6.4	na	na	6.9	6.2

(a) Deaths per 1000 standard population. Standardised death rates use total persons in the 2001 Australian population as the standard population.

(b) Total, Indigenous and non-Indigenous mortality rates are for Queensland, WA, SA and NT combined.

(c) Calculations of rates for the Indigenous population are based on *ABS Experimental Projections, Aboriginal and Torres Strait Islander Australians 1991 to 2009* (ABS cat. no. 3238.0, low series, 2001 base). There are no comparable population data for the non-Indigenous population. Calculations of rates for comparison with the Indigenous population are derived by subtracting Indigenous population projections from total Estimated Resident Population and should be used with care, as these data include deaths and population units for which Indigenous status were not stated. ERP used in calculations are final ERP based on 2006 Census.

(d) Includes non-Indigenous and not stated Indigenous status.

**na** Not available.

Source: ABS (unpublished) *Deaths Australia*; ABS (2007) *Deaths 2006*, Australia, Cat. no. 3302.0, AusInfo, Canberra.

Table EA.14

Table EA.14 **Infant mortality rate, three year average (per 1000 live births) (a), (b)**

	<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>WA</i>	<i>SA</i>	<i>Tas</i>	<i>ACT (c)</i>	<i>NT</i>	<i>Aust (d)</i>
All Australians									
1995–1997	5.5	5.0	6.2	5.6	5.2	5.6	4.8	12.5	5.6
1996–1998	5.1	4.9	6.2	5.6	4.6	5.5	5.2	12.1	5.4
1997–1999	5.1	5.1	6.0	5.0	4.4	6.6	5.1	12.2	5.3
1998–2000	5.1	4.9	6.1	4.7	4.3	6.4	5.3	11.9	5.3
1999–2001	5.4	5.0	5.9	4.7	4.5	6.6	4.3	11.4	5.4
2000–2002	5.0	4.8	6.0	4.6	4.8	6.1	3.5	11.2	5.2
2001–2003	4.8	5.0	5.5	4.5	4.5	6.5	4.1	10.1	5.0
2002–2004	4.6	4.9	5.3	4.1	4.0	5.6	5.4	10.1	4.8
2003–2005	4.7	4.9	5.0	4.2	4.0	4.7	6.1	9.6	4.8
2004–2006	4.8	4.6	5.2	4.5	3.8	3.7	5.9	9.7	4.8
Indigenous									
2003–2005	8.4	na	10.9	12.8	7.7	na	na	15.6	na
2004–2006	7.5	na	11.1	11.9	6.7	na	na	16.7	na
Non-Indigenous									
2003–2005	4.4	na	4.5	3.6	3.7	na	na	5.0	na
2004–2006	4.6	na	4.7	3.9	3.6	na	na	4.7	na

(a) Infant deaths per 1000 live births.

(b) Deaths and births for which Indigenous status was not stated are excluded. As a result, infant mortality rates may be underestimated.

(c) Four infant deaths were coded to an incorrect state of usual residence in 2005, which led to the revision of the rate of the ACT.

(d) Figures for Australia include 'Other territories'.

na Not available.

Source: ABS (various years) *Deaths 2006*, Australia, Cat. no. 3302.0, AusInfo, Canberra.



Table EA.15 **Indigenous infant mortality rates, three year average (a), (b), (c)**

	<i>NSW</i>	<i>Qld</i>	<i>WA</i>	<i>SA</i>	<i>NT (d)</i>
2000–2002	9.5	11.5	16.5	10.4	18.1
2001–2003	8.6	11.2	15.9	9.1	14.8
2002–2004	8.5	10.9	14.1	9.4	15.4
2003–2005	8.4	10.9	12.8	7.7	15.6
2004–2006	7.5	11.1	11.9	6.7	16.7

(a) Per 1000 live births.

(b) Victoria, Tasmania and the ACT are excluded due to poor coverage rates or small numbers.

(c) Deaths for which Indigenous status was not stated are excluded. As a result, Indigenous infant mortality rates may be underestimated.

(d) The contribution of Indigenous deaths to total deaths is much larger in the NT than in the other states presented.

Source: ABS (2007) *Deaths 2006*, Australia, Cat. no. 3302.0, AusInfo, Canberra.

Table EA.16

Table EA.16 All Australians causes of death, standardised death rates 2006 (a)

Cause of death and ICD code	NSW	Vic	Qld	WA	SA	Tas	ACT	NT
Malignant neoplasms (C00-C97)	175.9	177.5	172.5	175.7	178.0	193.1	158.6	215.7
Trachea, bronchus, lung (C33, C34)	32.0	33.5	35.4	35.8	32.5	41.0	28.1	46.6
Diabetes mellitus (E10-E14)	12.5	19.2	16.2	18.4	17.0	27.7	16.5	46.8
Mental and behavioural disorders (F00-F99)	22.8	23.9	20.0	19.3	23.0	27.7	21.5	40.2
Diseases of the nervous system (G00-G99)	21.2	22.7	20.0	24.1	22.9	28.1	19.0	16.8
Diseases of the circulatory system (I00-I99)	210.3	187.7	209.8	190.0	198.7	221.3	181.0	242.2
Ischaemic heart diseases (I20-I25)	103.2	95.2	111.9	95.1	97.8	117.0	76.4	130.7
Acute myocardial infarction (I21)	52.7	45.5	59.0	49.9	46.6	49.6	29.8	55.0
Cerebrovascular diseases (I60-I69)	54.7	44.4	54.9	44.7	50.3	42.9	53.1	46.8
Diseases of arteries, arterioles & capillaries (I70-I79)	10.1	9.6	10.3	9.7	10.2	11.5	11.2	9.1
Diseases of the respiratory system (J00-J99)	50.9	45.3	47.5	43.1	52.3	47.5	47.6	96.9
Influenza & pneumonia (J10-J18)	12.1	11.5	11.6	9.9	15.4	7.0	11.3	4.7
Chronic lower respiratory diseases (J40-J47)	24.1	24.8	24.9	21.2	23.3	31.7	21.8	78.1
Diseases of the digestive system (K00-K93)	20.1	20.4	19.6	18.8	20.3	22.8	20.6	41.2
Accidents (V01-V99)	23.8	24.2	25.6	27.5	22.9	30.6	20.5	53.2
Transport accidents (V01-V99)	5.9	7.6	9.3	10.4	8.7	12.0	4.1	24.2
Intentional self-harm (X60-X84) (b)	7.3	8.5	8.3	10.0	10.7	14.7	9.5	13.0
<b>All Causes</b>	<b>605.2</b>	<b>586.1</b>	<b>599.3</b>	<b>583.4</b>	<b>601.9</b>	<b>679.5</b>	<b>551.6</b>	<b>869.3</b>

ICD code = International Classification of Diseases and Related Health Problems (ICD-10) as realised by the World Health Organisation.

(a) Standardised death rate per 100 000 of the mid-year 2006 population.

(b) Care should be taken in interpreting numbers of suicide deaths due to limitations in the data.

Source: ABS (2008) *Causes of Death 2006*, Australia, Cat. no. 3303.0, AusInfo, Canberra.

Table EA.17

Table EA.17 **Leading causes of death, indirect age standardised death rate ratio, 2002–2006 (per 100 000 standard population) (a), (b)**

	QLD	WA	SA	NT	Total
<b>Indigenous</b>					
<i>Underlying causes of death</i>					
Trachea and lung cancers (C33, C34)	67.4	60.5	51.2	85.4	67.8
Diabetes (E10-E14)	159.8	190.4	134.8	196.3	395.1
Ischaemic heart diseases (I20-I25) include angina, heart attacks, blocked arteries of the heart	350.2	305.4	383.1	443.8	96.9
Strokes (I60-I69)	108.7	126.5	99.7	135.4	68.4
Influenza and pneumonia (J10-J18)	38.3	85.9	89.2	82.7	168.1
Chronic lower respiratory diseases (J40-J47) which include diseases such as asthma, bronchitis and emphysema	88.5	97.9	73.7	187.5	131.0
Cirrhosis and other diseases of liver (K70-K76)	34.1	52.1	47.3	92.8	305.6
Diseases of the urinary system (N00-N39)	44.8	76.6	59.7	153.8	198.4
Certain conditions originating in the perinatal period (P00-P96)	6.9	8.3	3.7	11.3	80.7
Symptoms, signs and ill-defined conditions (R00-R99)	16.0	47.1	19.3	30.0	350.3
Land transport accidents (V01-V89)	15.0	31.1	25.8	45.7	98.2
Intentional self-harm (X60-X84) [suicide]	26.2	21.2	40.7	45.4	87.1
<b>All causes</b>	<b>1 490.9</b>	<b>1 825.2</b>	<b>1 596.8</b>	<b>2 537.0</b>	<b>1 802.5</b>
<b>Non-Indigenous (c)</b>					
<i>Underlying causes of death</i>					
Trachea and lung cancers (C33, C34)	36.0	36.6	33.3	39.0	35.5
Diabetes (E10-E14)	14.8	16.1	15.9	19.8	35.3
Ischaemic heart diseases (I20-I25) include angina, heart attacks, blocked arteries of the heart	126.2	105.6	118.2	120.0	32.0
Strokes (I60-I69)	60.1	48.6	55.9	44.3	32.5

Table EA.17

Table EA.17 **Leading causes of death, indirect age standardised death rate ratio, 2002–2006 (per 100 000 standard population) (a), (b)**

	QLD	WA	SA	NT	Total
Influenza and pneumonia (J10-J18)	14.7	12.6	23.5	13.2	42.9
Chronic lower respiratory diseases (J40-J47) which include diseases such as asthma, bronchitis and emphysema	28.2	24.1	25.1	45.3	31.6
Cirrhosis and other diseases of liver (K70-K76)	6.0	5.4	6.7	8.7	35.6
Diseases of the urinary system (N00-N39)	12.7	12.4	15.1	12.0	34.0
Certain conditions originating in the perinatal period (P00-P96)	3.2	2.6	2.2	3.4	29.7
Symptoms, signs and ill-defined conditions (R00-R99)	6.0	7.5	3.9	11.4	78.3
Land transport accidents (V01-V89)	8.6	8.8	9.6	17.9	33.5
Intentional self-harm (X60-X84) [suicide]	11.2	10.5	11.8	14.8	32.1
<b>All causes</b>	<b>628.5</b>	<b>599.6</b>	<b>640.8</b>	<b>700.5</b>	<b>625.1</b>
<b>Ratio (d)</b>					
<i>Underlying causes of death</i>					
Trachea and lung cancers (C33, C34)	1.9	1.7	1.5	2.2	1.9
Diabetes (E10-E14)	10.8	11.8	8.5	9.9	11.2
Ischaemic heart diseases (I20-I25) include angina, heart attacks, blocked arteries of the heart	2.8	2.9	3.2	3.7	3.0
Strokes (I60-I69)	1.8	2.6	1.8	3.1	2.1
Influenza and pneumonia (J10-J18)	2.6	6.8	3.8	6.3	3.9
Chronic lower respiratory diseases (J40-J47) which include diseases such as asthma, bronchitis and emphysema	3.1	4.1	2.9	4.1	4.1
Cirrhosis and other diseases of liver (K70-K76)	5.7	9.7	7.1	10.7	8.6
Diseases of the urinary system (N00-N39)	3.5	6.2	4.0	12.8	5.8
Certain conditions originating in the perinatal period (P00-P96)	2.1	3.2	1.7	3.3	2.7
Symptoms, signs and ill-defined conditions (R00-R99)	2.7	6.3	5.0	2.6	4.5

**Table EA.17 Leading causes of death, indirect age standardised death rate ratio, 2002–2006 (per 100 000 standard population) (a), (b)**

	QLD	WA	SA	NT	Total
Land transport accidents (V01-V89)	1.8	3.5	2.7	2.6	2.9
Intentional self-harm (X60-X84) [suicide]	2.3	2.0	3.5	3.1	2.7
<b>All causes</b>	<b>2.4</b>	<b>3.0</b>	<b>2.5</b>	<b>3.6</b>	<b>2.9</b>

(a) Calculations of rates for the Indigenous population are based on ABS *Experimental Projections, Aboriginal and Torres Strait Islander Australians* (ABS cat. no. 3238.0, low series, 2001 base). There are no comparable population data for the non-Indigenous population. Calculations of rates for comparison with the Indigenous population are derived by subtracting Indigenous population projections from Total Estimated Resident Population and should be used with care, as these data include deaths and population units for which Indigenous status were not stated. Population estimates have not been re-based using 2006 Census data as re-based data is not yet available for the Indigenous population.

(b) Coded according to the International Classification of Diseases and Related Health Problems Revision 10 (ICD-10).

(c) Includes non-Indigenous and not stated Indigenous status.

(d) Indigenous rate divided by non-Indigenous rate.

Source: ABS (2007) *Deaths 2006, Australia*, Cat. no. 3302.0, AusInfo, Canberra.

Table EA.18

**Table EA.18 All Australians average life expectancy at birth (years)**

	<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 (a)</i>
<b>Males</b>									
1999–2001	76.9	77.5	76.9	77.3	77.0	76.0	78.5	70.8	77.0
2000–2002	77.3	77.8	77.2	77.9	77.3	76.5	79.2	71.3	77.4
2001–2003	77.7	78.2	77.6	78.1	77.7	76.6	79.2	72.0	77.8
2002–2004	78.0	78.5	77.8	78.6	78.0	76.7	79.7	72.3	78.1
2003–2005	78.5	79.0	78.3	78.8	78.1	77.2	79.9	72.5	78.5
2004–2006	78.6	79.3	78.5	79.1	78.6	77.4	80.0	72.1	78.7
<b>Females</b>									
1999–2001	82.4	82.7	82.3	82.8	82.5	81.2	82.9	76.5	82.4
2000–2002	82.6	82.8	82.4	82.9	82.6	81.3	83.3	76.7	82.6
2001–2003	82.9	83.1	82.8	83.0	82.7	81.4	83.8	77.3	82.8
2002–2004	83.3	83.3	82.9	83.3	83.1	81.8	83.9	78.0	83.0
2003–2005	83.3	83.6	83.2	83.8	83.4	82.1	84.0	78.2	83.3
2004–2006	83.4	83.7	83.4	83.8	83.6	82.3	83.9	78.1	83.5

(a) Figures for Australia include 'Other territories'.

Source: ABS (2007) *Deaths 2006, Australia*, Cat. no. 3302.0, AusInfo, Canberra.

Table EA.19 **Indigenous life expectancy at birth (years) (a), (b), (c)**

	<i>Indigenous males born 1996–2001</i>	<i>Indigenous females born 1996–2001</i>	<i>Total males born 1997–1999</i>	<i>Total females born 1997–1999</i>
NSW/Vic	60.0	65.1	na	na
Qld	58.9	62.6	76.0	81.7
SA/WA	58.5	67.2	na	na
NT	57.6	65.2	70.6	75.1
Australia	59.4	64.8	76.2	81.8

(a) Indigenous data are for the Australian Aboriginal and Torres Strait Islander population, and include an adjustment for undercoverage of Indigenous deaths.

(b) Life expectancy data for Indigenous males and Indigenous females are for the period 1996–2001. Data for total males and females cover the period 1997–1999, the approximate mid-point of the Indigenous data.

(c) For Tasmania and the ACT, use life tables for NSW and Victoria.

**na** Not available

*Source:* ABS (various years), *Deaths 2006*, Australia, Cat. no. 3302.0, ABS, Canberra; ABS (2004), *Calculating Experimental Life Tables for Use in Population Estimates and Projections of Aboriginal and Torres Strait Islander Australians*, Demography Working Paper 2004-3, Cat. no. 3106.0.55.003, ABS Canberra.

Table EA.20

Table EA.20 Median age at death (years) (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>
All Australians									
Males									
2001	75.6	76.1	74.7	74.8	76.7	76.0	72.1	55.6	75.5
2002	76.2	76.8	75.6	75.4	77.2	76.2	76.4	55.9	76.2
2003	76.3	76.8	75.6	75.5	77.5	75.9	73.9	56.7	76.2
2004	76.9	77.3	75.9	75.6	77.5	76.5	75.2	55.0	76.6
2005	77.0	77.5	76.0	76.0	77.5	76.2	75.3	56.6	76.8
2006 (d)	77.6	77.9	76.3	76.4	78.1	77.0	76.0	57.2	77.3
Females									
2001	81.8	82.1	81.4	81.5	82.4	81.2	81.3	61.4	81.8
2002	82.2	82.5	81.9	81.8	82.7	81.9	81.5	55.8	82.2
2003	82.6	82.6	81.9	82.1	83.1	82.1	81.5	63.8	82.4
2004	82.7	83.0	82.2	81.9	83.2	82.5	80.8	61.2	82.6
2005	83.1	83.2	82.3	82.8	83.6	82.7	82.0	56.9	82.9
2006 (d)	83.4	83.6	82.9	82.6	84.0	83.3	82.6	64.5	83.3
Indigenous (e), (f)									
Males									
2001	56.3	np	52.5	51.0	51.0	np	np	45.1	np
2002	56.3	np	51.8	51.2	48.9	np	np	47.1	np
2003	56.8	np	51.2	50.2	48.8	np	np	46.3	np
2004	55.8	np	53.7	50.0	49.5	np	np	43.8	np
2005	54.3	np	51.1	52.8	42.4	np	np	45.8	np
2006	59.3	np	55.6	47.9	50.4	np	np	45.4	np
Females									
2001	62.9	np	54.1	53.5	55.5	np	np	52.8	np
2002	61.9	np	58.8	53.0	55.0	np	np	50.0	np
2003	58.9	np	62.1	55.0	50.0	np	np	52.8	np
2004	62.7	np	57.9	63.6	53.5	np	np	54.0	np
2005	65.8	np	59.5	57.8	47.5	np	np	50.4	np
2006	64.8	np	57.0	57.0	59.3	np	np	55.3	np
Non-Indigenous (e), (f)									
Males									
2001	75.7	np	75.1	75.4	76.9	np	np	63.2	np
2002	76.5	np	75.9	75.9	77.3	np	np	63.0	np
2003	76.5	np	75.9	76.1	77.7	np	np	65.9	np
2004	77.0	np	76.2	76.3	77.6	np	np	63.0	np
2005	77.2	np	76.4	76.6	77.9	np	np	63.7	np
2006	77.8	np	76.7	76.9	78.3	np	np	64.7	np



Table EA.20

Table EA.20 **Median age at death (years) (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>
Females									
2001	81.9	np	81.7	81.9	82.4	np	np	71.5	np
2002	82.3	np	82.1	82.2	82.8	np	np	70.5	np
2003	82.7	np	82.2	82.4	83.2	np	np	74.5	np
2004	82.8	np	82.5	82.3	83.3	np	np	71.3	np
2005	83.1	np	82.6	83.2	83.7	np	np	70.5	np
2006	83.5	np	83.1	83.1	84.1	np	np	75.0	np

- (a) Median age at death does not adjust for the age structure of the populations involved.
- (b) Based on deaths registered to 31 December 2006.
- (c) Figures for Australia include 'Other Territories'.
- (d) Data for 2006 are incomplete due to the delay between the occurrence and registration of a death.
- (e) Deaths for whom the Indigenous status was not specified have not been prorated over Indigenous and non-Indigenous deaths. As a result, Indigenous and non-Indigenous deaths may be underestimated.
- (f) Care should be exercised when comparing median age at death of Indigenous Australians and non-Indigenous Australians. For example, higher coverage of Indigenous infant deaths compared with older age groups may result in the median age at death being underestimated.

**np** Not published.

Source: ABS (2007) *Deaths 2006*, Australia, Cat. no. 3302.0, AusInfo, Canberra.

Table EA.21

Table EA.21 Birthweights, live births, all mothers, 2006 (a)

<i>Unit</i>	NSW	Vic	Qld	WA	SA	Tas	ACT (b)	NT	Aust
Mean birthweight	grams	3 371	3 372	3 351	3 361	3 407	3 357	3 262	3 370
Number of babies by birthweight									
Less than 1000g	no.	324	311	147	94	17	31	16	1 305
1000–1499g	no.	436	383	162	109	27	47	48	1 721
1500–1999g	no.	904	797	368	227	86	84	76	3 659
2000–2499g	no.	2 781	2 350	1 149	762	250	238	222	11 269
2500–2999g	no.	10 472	8 230	4 503	2 874	897	793	706	42 340
3000–3499g	no.	24 695	19 665	10 421	6 751	2 039	1 885	1 287	99 784
3500–3999g	no.	21 151	17 601	8 620	5 673	1 946	1 739	983	86 392
4000–4499g	no.	7 121	5 969	2 635	1 869	688	517	306	28 487
4500g and over	no.	1 341	1 002	450	303	151	101	58	5 049
Not stated	no.	5	9	–	–	–	–	–	72
<b>All births</b>	<b>no.</b>	<b>69 230</b>	<b>56 317</b>	<b>28 455</b>	<b>18 662</b>	<b>6 101</b>	<b>5 435</b>	<b>3 702</b>	<b>280 078</b>
Less than 1500g	no.	760	694	309	203	44	78	64	3 026
Less than 2500g	no.	4 445	3 841	1 826	1 192	380	400	362	17 954
Proportion of babies by birthweight									
Less than 1000g	%	0.5	0.6	0.5	0.5	0.3	0.6	0.4	0.5
1000–1499g	%	0.6	0.7	0.6	0.6	0.4	0.9	1.3	0.6
1500–1999g	%	1.3	1.4	1.3	1.2	1.4	1.5	2.1	1.3
2000–2499g	%	4.0	4.2	4.0	4.1	4.1	4.4	6.0	4.0
2500–2999g	%	15.1	14.6	15.8	15.4	14.7	14.6	19.1	15.1
3000–3499g	%	35.7	34.9	36.6	36.2	33.4	34.7	34.8	35.6
3500–3999g	%	30.6	31.3	30.3	30.4	31.9	32.0	26.6	30.8
4000–4499g	%	10.3	10.6	9.3	10.0	11.3	9.5	8.3	10.2
4500g and over	%	1.9	1.8	1.6	1.6	2.5	1.9	1.6	1.8

Table EA.21

Table EA.21 Birthweights, live births, all mothers, 2006 (a)

	Unit	NSW	Vic	Qld	WA	SA	Tas	ACT (b)	NT	Aust
Not stated	%	0.1	—	—	—	—	—	—	—	—
<b>All births</b>	%	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<i>Less than 1500g</i>	%	0.9	1.1	1.2	1.1	1.1	0.7	1.4	1.7	1.1
<i>Less than 2500g</i>	%	6.0	6.4	6.8	6.4	6.4	6.2	7.4	9.8	6.4

(a) This table cannot be compared with birthweight for all births in previous reports.

(b) In the ACT, 16.3 per cent of women who gave birth were non-ACT residents. Care must be taken when interpreting percentages. For example, the percentage of live births of ACT residents who gave birth in the ACT where the birthweight was less than 1500 grams was 0.8 per cent and where the birthweight was less than 2500 grams the percentage was 4.9 per cent.

— Nil or rounded to zero.

Source: Laws P. & Hilder L. (2008) *Australia's Mothers and Babies 2006*, AIHW Cat. No. PER 46, AIHW National Perinatal Statistics Unit (Perinatal Statistics Series No. 22), Sydney.

Table EA.22

Table EA.22 Birthweights of babies of Indigenous mothers, live births, by State and Territory 2006 (a)

	Unit	NSW	Vic	Qld	WA	SA	Tas	ACT (b)	NT	Aust
Mean birthweight	grams	3 201	3 179	3 211	3 113	3 140	3 325	2 975	3 092	3 169
Number of babies by birthweight										
Less than 1500g	no.	46	11	60	53	15	—	6	45	236
1500–2499g	no.	268	63	252	194	59	17	14	162	1 029
2500–2999g	no.	562	131	645	425	129	47	24	377	2 340
3000–3499g	no.	905	178	993	577	189	65	35	509	3 451
3500–3999g	no.	617	136	711	359	123	63	20	267	2 296
4000–4499g	no.	200	np	223	97	26	np	7	72	688
4500g and over	no.	33	<5	43	31	12	np	—	22	150
Not stated	no.	1	—	—	—	—	—	—	—	1
<b>All births</b>	<b>no.</b>	<b>2 632</b>	<b>567</b>	<b>2 927</b>	<b>1 736</b>	<b>553</b>	<b>216</b>	<b>106</b>	<b>1 454</b>	<b>10 191</b>
Less than 2500g	no.	314	74	312	247	74	17	20	207	1 265
Proportion of babies by birthweight										
Less than 1500g	%	1.7	1.9	2.0	3.1	2.7	—	5.7	3.1	2.3
1500–2499g	%	10.2	11.1	8.6	11.2	10.7	7.9	13.2	11.1	10.1
2500–2999g	%	21.4	23.1	22.0	24.5	23.3	21.8	22.6	25.9	23.0
3000–3499g	%	34.4	31.4	33.9	33.2	34.2	30.1	33.0	35.0	33.9
3500–3999g	%	23.4	24.0	24.3	20.7	22.2	29.2	18.9	18.4	22.5
4000–4499g	%	7.6	np	7.6	5.6	4.7	np	6.6	5.0	6.8
4500g and over	%	1.3	np	1.5	1.8	2.2	np	—	1.5	1.5
Not stated	%	—	—	—	—	—	—	—	—	—
<b>All births</b>	<b>%</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Less than 2500g	%	11.9	13.1	10.7	14.2	13.4	7.9	18.9	14.2	12.4

(a) This table cannot be compared with birthweight for all births to Aboriginal or Torres Strait Islander mothers in previous reports.

Table EA.22 Birthweights of babies of Indigenous mothers, live births, by State and Territory 2006 (a)

Unit	NSW	Vic	Qld	WA	SA	Tas	ACT (b)	NT	Aust
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(b) In the ACT, 16.3 per cent of women who gave birth were non-ACT residents. Care must be taken when interpreting percentages. For example, the percentage of live births of ACT residents who gave birth in the ACT where the birthweight was less than 1500 grams was 0.8 per cent and where the birthweight was less than 2500 grams the percentage was 4.9 per cent.

– Nil or rounded to zero. **np** Not published.

Source: Laws P. & Hilder L. (2008) *Australia's Mothers and Babies 2006*, AIHW Cat. No. PER 46, AIHW National Perinatal Statistics Unit (Perinatal Statistics Series No. 22), Sydney.