

Aboriginal and Torres Strait Islander

Health Performance Framework 2012 report

Victoria





Authoritative information and statistics to promote better health and wellbeing

Aboriginal and Torres Strait Islander Health Performance Framework

2012 report

Victoria

Australian Institute of Health and Welfare Canberra

Cat. no. IHW 86

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ISBN 978-1-74249-410-4

Suggested citation

Australian Institute of Health and Welfare 2013. Aboriginal and Torres Strait Islander Health Performance Framework 2012 report : Victoria. Cat. no. IHW 86. Canberra: AIHW.

Australian Institute of Health and Welfare

Board Chair

Dr Andrew Refshauge

Director

David Kalisch

Any enquiries about or comments on this publication should be directed to:

Communications, Media and Marketing Unit

Australian Institute of Health and Welfare

GPO Box 570

Canberra ACT 2601 Tel: (02) 6244 1032

Email: info@aihw.gov.au

Published by the Australian Institute of Health and Welfare

Please note that there is the potential for minor revisions of data in this report. Please check the online version at <www.aihw.gov.au> for any amendments.

Contents

Acknowledg	gments	vi
Abbreviation	ns	vii
List of symb	ols used in tables	x
Executive su	mmary	xi
Key findings	S	xii
Introduction		1
Part 1: Healt	h status and outcomes	10
Health co	onditions	11
1.01	Low birthweight	11
1.02	Top reasons for hospitalisation	12
1.03	Injury and poisoning	15
1.04	Respiratory diseases	17
1.05	Circulatory disease	19
1.07	High blood pressure	21
1.08	Cancer	22
1.09	Diabetes	24
1.10	Kidney disease	26
1.11	Oral health	27
1.12	HIV/AIDS, hepatitis and sexually transmissible infections	28
Human f	unction	31
1.13	Community functioning	31
1.14	Disability	32
1.15	Ear health	35
1.16	Eye health	36
Life expe	ectancy and wellbeing	38
1.17	Perceived health status	39
1.18	Social and emotional wellbeing.	39
Part 2 -Deter	rminants of health	43
Environr	nental factors	44
2.01	Housing	44
2.02	Access to functional housing with utilities	46
2.03	Environmental tobacco smoke	46

Socioeco	nomic factors	47
2.04	Literacy and numeracy	48
2.05	Education and outcomes for young people	51
2.06	Educational participation and attainment of adults	52
2.07	Employment	55
2.08	Income	56
2.09	Index of disadvantage	58
Commun	nity capacity	59
2.10	Community safety	59
2.11	Contact with the criminal justice system	61
2.12	Child protection	62
2.13	Transport	64
2.14	Indigenous people with access to their traditional lands	66
Health b	ehaviours	67
2.15	Tobacco use	67
2.16	Risky and high-risk alcohol consumption	68
2.17	Drug and other substance use including inhalants	70
2.18	Physical activity	71
2.19	Dietary behaviour	72
2.20	Breastfeeding practices	75
2.21	Health behaviours during pregnancy	77
Person-re	elated factors	79
2.22	Overweight and obesity	79
Part 3: Healt	h system performance	81
Is the hea	alth system effective/appropriate/efficient?	82
3.02	Immunisation	82
3.03	Health promotion	84
3.04	Early detection and early treatment of disease	85
3.05	Chronic disease management	87
3.06	Access to hospital procedures	89
3.07	Selected potentially preventable hospital admissions	
3.08	Cultural competency	92
Is the hea	alth system responsive to needs of Indigenous people?	94
3.09	Discharge against medical advice	94

3.10	Access to mental health services	96
3.11	Access to alcohol and drug services	98
3.12	Aboriginal and Torres Strait Islander people in the health workforce	98
3.13	Competent governance	99
Is health	care accessible?	101
3.14	Access to services compared with need	101
3.16	Access to after-hours primary care	103
Is there c	ontinuity in health care?	105
3.17	Regular GP or health service	105
3.18	Care planning for clients with chronic diseases	106
Is the hea	lth system capable and sustainable?	108
3.19	Accreditation	108
3.20	Aboriginal and Torres Strait Islander people training for health-related disciplines	110
3.21	Expenditure on Aboriginal and Torres Strait Islander health compared to need	112
3.22 1	Recruitment and retention of staff	113
Appendix 1 l	Data sources and quality	115
References		132
List of tables		137
List of figure	s	140

Acknowledgments

The main authors of this report are Michelle Gourley, Le Anh Pham and Nancy Stace-Winkles. Special contributions by Shampa Barua, Qinghe Yin, Jan Watson and Quan Nguyen are gratefully acknowledged. Thanks are also extended to Fadwa Al-Yaman who provided ongoing comments.

The following organisations are acknowledged for providing data for various sections of the report: Australian Bureau of Statistics, Department of Health and Ageing; Australian Institute of Criminology; Department of Education, Employment and Workplace Relations; Australian Curriculum, Assessment and Reporting Authority, National Centre for Vocational Education and Research; Australian and New Zealand Dialysis and Transplant Registry; Australian Childhood Immunisation Register; Medicare Australia; Australian General Practice Accreditation Limited; and GPA Accreditation Plus.

Special thanks are extended to Kirrily Harrison, Scott Copley and Catherine Gray from the Commonwealth Department of Health and Ageing, and to Mary Sullivan and Shane Nichols from Department of Health Victoria, who provided valuable comments on this report.

Thanks are extended to a number of units within the Australian Institute of Health and Welfare including: Child Welfare and Prisoner Health; Cardiovascular, Diabetes and Kidney; Cancer and Screening; Drug Surveys and Services; Expenditure and Economics; Functioning and Disability; Homelessness Reporting and Data Development; Hospital Data; Indigenous Community and Health Service Reporting; Mental Health and Palliative Care; Workforce and Oral Health; and AIHW's Collaborating units including Dental Statistics and Research, National Injury Surveillance, and National Perinatal Epidemiology and Statistics Units.

This work received financial support from the Commonwealth Department of Health and Ageing Office for Aboriginal and Torres Strait Islander Health and from the Department of Health Victoria.

Abbreviations

ABS Australian Bureau of Statistics

ACIR Australian Childhood Immunisation Register

ACT Australian Capital Territory

AGPAL Australian General Practice Accreditation Limited

AHW Aboriginal Health Worker

AIHW Australian Institute of Health and Welfare

ANZDATA Australian and New Zealand Dialysis and Transplant Registry

AODTS- Alcohol and Other Drug Treatment Services National Minimum Data Set

NMDS

ATSIHS Australian Aboriginal and Torres Strait Islander Health Survey

BMI body mass index

CDEP Community Development Employment Projects scheme

CIs confidence intervals

COAG Council of Australian Governments

COPD chronic obstructive pulmonary disease

DASR Drug and Alcohol Services Reporting

DEEWR (Australian Government) Department of Education, Employment and

Workplace Relations

DoHA (Australian Government) Department of Health and Ageing

DSNMDS Disability Services National Minimum Data Set

ERP estimated resident population

ESRD end stage renal disease

FTE full-time equivalent

GP general practitioner

GPA+ General Practice Accreditation Plus

GPMP General Practice Management Plan

GSS General Social Survey

HfL Healthy for Life

HIV/AIDS human immunodeficiency virus infection / acquired immunodeficiency

syndrome

HPF Aboriginal and Torres Strait Islander Health Performance Framework

ICD-10-AM International statistical classification of disease and related health

problems, 10th revision, Australian modification, 4th edition

IRSAD Index of Relative Socio-Economic Advantage and Disadvantage

KPI Key Performance Indicator

MBS Medicare Benefits Schedule

MCEECDYA Ministerial Council for Education, Early Childhood Development and

Youth Affairs

NAGATSIHID National Advisory Group on Aboriginal and Torres Strait Islander

Health Information and Data

NAHA National Affordable Housing Agreement

NAPEDCD National Non-admitted Patient Emergency Department Care Database

NAPLAN National Assessment Program – Literacy and Numeracy

NATSIHON National Aboriginal and Torres Strait Islander Health Officials Network

NATSIHS National Aboriginal and Torres Strait Islander Health Survey

NATSISS National Aboriginal and Torres Strait Islander Social Survey

NCMHCD National Community Mental Health Care Database

NCVER National Centre for Vocational Education Research

NDA National Disability Agreement

NHMRC National Health and Medical Research Council

NHS National Health Survey

NIRA National Indigenous Reform Agreement

NMDS National Minimum Data Set

NNDSS National Notifiable Diseases Surveillance System

NPAH National Partnership Agreement on Homelessness

NPSU National Perinatal Statistics Unit

NSSC National Schools Statistics Collection

NSW New South Wales

NT Northern Territory

OATSIH Office of Aboriginal and Torres Strait Islander Health

OSR OATSIH Services Reporting

PES Post-Enumeration Survey

PMRT Performance Measurement and Reporting Taskforce

Qld Queensland

SA South Australia

SAAPNDC Supported Accommodation Assistance Program National Data Collection

SAR Service Activity Reporting

SEIFA Socio-Economic Indexes For Areas

SHSC Specialist Homelessness Services Collection

SIDS sudden infant death syndrome

SIH Survey of Income and Housing

STIs sexually transmissible infections

TAFE Technical and Further Education

Tas Tasmania

TCA Team Care Arrangement

VET vocational education and training

Vic Victoria

VII Voluntary Indigenous Identification

WA Western Australia

WHO World Health Organisation

List of symbols used in tables

nil or rounded to zero

0 zero

. not applicable

n.a. not available

n.e.c. not elsewhere classified

n.f.d. not further defined

n.p. not publishable because of small numbers, confidentiality or other concerns

about the quality of the data

Executive summary

The Aboriginal and Torres Strait Islander Health Performance Framework 2012 report for Victoria finds areas of improvement in the health of Aboriginal and Torres Strait Islander people living in Victoria including:

- a significant increase in health assessments recorded through Medicare since the introduction of the National Partnership Agreement on Closing the Gap in Indigenous Health Outcomes in July 2009
- corresponding increases in allied health care services claimed by Indigenous Australians through Medicare since 1 July 2009. Indigenous Australians have higher rates of general practitioner management plans and team care arrangements than non-Indigenous Australians
- immunisation coverage for Indigenous children is higher than for Indigenous children nationally and is similar to non-Indigenous children by age 2
- some improvements in grammar, punctuation and spelling for Indigenous students in Year 7 and 9 between 2008 and 2011. The proportions of Indigenous students achieving literacy and numeracy benchmarks are generally higher in Victoria than the national average.

Areas of concern include:

- low birthweight is more than twice as common among babies of Indigenous mothers as among babies of non-Indigenous mothers and there has been no sign of improvement in recent years
- almost two-thirds (62%) of those aged 18 and over in non-remote areas have a disability or long-term health condition
- incidence of treated end-stage renal disease is currently 4 times the rate for non-Indigenous Australians
- high rates of hospitalisations due to injury (particularly assault, intentional self-harm and transport accidents)
- barriers to accessing appropriate health care, such as cultural competency continue to remain a problem
- lower access to procedures in hospitals
- breast cancer screening rates for Indigenous women aged 50–64 are much lower than for other women of this age (28% compared with 53% in 2008–09)
- unemployment rates continue to remain higher for Indigenous persons than non-Indigenous Australians (17% compared with 3% in 2008).

Key findings

A summary of the key findings from this report for Victoria against the Aboriginal and Torres Strait Islander Health Performance Framework are outlined below. The main areas of improvement and areas of continuing concern are discussed for each tier of the framework (Health status and outcomes; Determinants of health; and Health system performance). A table of key statistics from the report is also presented in Table S1.

Health status and outcomes

Areas of improvement

Ear health

• The proportion of Indigenous children with reported ear/hearing loss in Victoria was lower than for Indigenous children nationally in 2008 (6% compared with 9%).

Areas needing further work

Chronic disease

- Chronic diseases (for example, circulatory disease, cancer, diabetes, respiratory disease, kidney disease) were the cause of a large proportion of Indigenous hospitalisations in Victoria between 2008–09 and 2009–10. Indigenous persons were hospitalised at twice the rate of non-Indigenous Australians from diabetes and almost twice the rate from respiratory diseases.
- Diabetes is 3 times more prevalent among the Indigenous population than the non-Indigenous population in Victoria based on data from the 2004–05 NATSIHS.

Kidney disease

• The incidence rate of treated end-stage renal disease (ESRD) for Indigenous people living in Victoria in 2008–2010 was 4 times the rate for non-Indigenous people.

Injury

• Hospitalisations for assault were nearly 5 times the rate for non-Indigenous Australians during 2008–10. Indigenous Australians were nearly 3 times as likely to be hospitalised for intentional self-harm as non-Indigenous Australians in Victoria.

Disability

• In 2008, 62% of Indigenous Australians aged 18 and over in non-remote areas of Victoria had a disability or long-term health condition. Of these, about 11% had a profound or severe core activity limitation, which was more than twice the rate of non-Indigenous Australians.

Low birthweight

• Low birthweight is more than twice as common among babies of Indigenous mothers as among babies of non-Indigenous mothers resident in Victoria (13% compared with 6%), and there has been no sign of improvement in recent years.

Determinants of health

Areas of improvement

Education

• The proportions of Indigenous students achieving literacy and numeracy benchmarks are generally higher in Victoria than the national average. There has been an increase in the proportion of Indigenous students achieving the Year 7 benchmark for grammar/punctuation and the Year 9 benchmark for spelling between 2008 and 2011 in Victoria.

Areas needing further work

Smoking

• In 2008, 46% of Indigenous persons aged 15 and over in Victoria were current daily smokers, which was almost 3 times the rate for non-Indigenous persons.

Smoking during pregnancy

• In 2009 in Victoria, 44% of Indigenous mothers smoked during pregnancy. Although this was lower than the proportion of Indigenous mothers who smoked nationally (52%), Indigenous mothers were more than 3 times as likely as non-Indigenous mothers to smoke during pregnancy in Victoria.

Risky alcohol consumption

• In 2004–05, an estimated 50% of Indigenous persons aged 18 and over in Victoria reported drinking alcohol at risky/high risk levels in the past 12 months. This was higher than the proportion for non-Indigenous persons in Victoria (38%) and for Indigenous persons nationally (47%).

Physical activity, nutrition and overweight & obesity

- In 2004–05, 42% of Indigenous people aged 15 and over reported their physical activity level as sedentary, compared with 31% of non-Indigenous persons of the same age in Victoria.
- Aboriginal and Torres Strait Islander people aged 12 and over were almost twice as likely to report no usual daily fruit intake as non-Indigenous persons in Victoria.
- About 29% of Indigenous persons aged 18 and over in Victoria were obese in 2004–05 compared with 17% of non-Indigenous persons.

Unemployment

• Unemployment rates continue to remain higher for Indigenous persons in Victoria than corresponding rates for non-Indigenous Australians (17% compared with 3% in 2008).

Education

• Despite some improvements in literacy and numeracy, the proportion of Indigenous students in Victoria achieving the reading, writing and numeracy benchmarks in Years 3, 5, 7 and 9 remain below the corresponding proportions for all students.

Income

• In 2008, 44% of Aboriginal and Torres Strait Islander people living in Victoria were in the bottom 20% of mean equivalised household incomes. This compared with 20% of non-Indigenous persons in Victoria.

Transport

- In 2006, one-quarter (25%) of Indigenous households in Victoria reported that they did not have ready access to motor vehicles.
- In 2008, about 9% of Aboriginal and Torres Strait Islander people aged 15 and over reported that they often had difficulty, or could not get to places when needed.

Community safety

 Aboriginal and Torres Strait Islander people are more likely to experience exposure to violence, child abuse and neglect, and contact with the criminal justice system (including imprisonment) than other Australians in Victoria and across Australia.

Health system performance

Areas of improvement

Chronic disease detection and management

- There has been a significant increase in health assessments provided to Indigenous Australians in Victoria since the introduction of the National Partnership Agreement on Closing the Gap in Indigenous Health Outcomes in July 2009.
- There has been an increase in the total number of allied healthcare services claimed through Medicare by Indigenous Australians in Victoria between 2009–10 and 2010–11 from 14,135 to 17,735 services.
- Rates of general practitioner management plan claims (GPMPs) and team care arrangements (TCAs) were nearly twice as high for Indigenous Australians compared with non-Indigenous Australians in Victoria in 2010–11.

Immunisation

• Immunisation coverage rates for Indigenous children in Victoria are higher than for Indigenous children nationally and are close to those for other children by the age of 2 at about 94%.

Areas needing further work

Access to health care

- In 2008 in Victoria, 16% of Indigenous Australians aged 15 and over reported having problems
 accessing dentists, 8% reported problems accessing doctors, and 5% reported problems
 accessing hospitals.
- Indigenous Australians had lower rates of hospitalisations with a procedure recorded than non-Indigenous Australians in Victoria.

• Indigenous Australians resident in Victoria were discharged from hospital against medical advice at 5 times the rate of non-Indigenous Australians between July 2008 and June 2010.

Screening

• Breast cancer screening rates in Victoria for Indigenous women aged 50–64 are lower than for other women of this age (28% compared with 53% in 2008–09) and are also lower than the rates for Indigenous women nationally (37%).

Health workforce

• Aboriginal and Torres Strait Islander people are under-represented in training for various health professions. In 2010, 0.7% of undergraduate students enrolled in, and 0.5% of undergraduate students who had completed, health-related courses in Victoria were Aboriginal and/or Torres Strait Islander.

Table S1: Key measures of Aboriginal and Torres Strait Islander health, Victoria and national^(a)

		National	Victoria						
		Current period		Current period			Trends		
Topic	Measure—Indigenous population	Indig	Indig	Non-Indig	Gap ^(b)	Indig	Non-Indig	Gap ^(b)	
Health status and o	outcomes								
Low birthweight	Proportion of low-birthweight liveborn babies per 100 live births (2007–2009)	12.3	13.4*	6.2*	7.2	— (c)	↓(c)	_	
Hospitalisations	Age-standardised hospitalisation rate for total hospitalisations (excluding dialysis) per 1,000 population (2008–09 to 2009–10)	408.5	341.7*	339.2*	2.5	↑	↑	\downarrow	
Disease incidence and prevalence	Proportion (age-standardised) of persons reporting circulatory disease as a long-term condition (2004–05)	21.7	24.8*	17.2*	7.6	n.a.	n.a.	n.a.	
	Proportion (age-standardised) of persons reporting diabetes as a long-term condition (2004–05)	12.6	10.5*	3.5*	3.0	n.a.	n.a.	n.a.	
	Age-standardised incidence rate of end-stage renal disease per 100,000 population (2008–2010)	68.3	38.3*	9.4*	28.9	n.a.		n.a.	
Self-assessed health status	Proportion (age-standardised) of persons aged 15 and over reporting very good/excellent health (2007–08)	37.9	43.6*	60.6*	-17.0	n.a.	n.a.	n.a.	
Community	Recognises homeland (2008)	72	68			n.a.			
functioning	Speaks an Indigenous language (2008)	19	6			n.a.			
	Lived in only 1 dwelling in last 12 months (2008)	78	79			n.a.			
	Not a victim of physical or threatened violence in the last 12 months (2008)	75	71			n.a.			
	Adult participated in sport/social/community activities in last 3 months (2008)	89	90			n.a.			
Social & emotional wellbeing	Proportion of persons reporting high/very high levels of psychological distress (2008)	31.7	34.6	n.a.	n.a.	n.a.	n.a.	n.a.	
Disability	Age-standardised proportion of persons aged 18 and over with a profound or severe core activity limitation, non-remote (2008)	9.9	11.0*	4.9*	6.1	n.a	n.a	n.a.	

Table S1 (continued): Key measures of Aboriginal and Torres Strait Islander health, Victoria and national^(a)

		National	Victoria						
		Current period	C	Current period			Trends		
Topic	Measure—Indigenous population	Indig	Indig	Non-Indig	Gap ^(b)	Indig	Non-Indig	Gap ^(b)	
Oral, ear and eye health	Age-standardised hospitalisation rate per 1,000 population for hospitalisations for dental problems (2008–09 to 2009–10)	2.0	2.6*	1.9*	0.7	Tre	n.a.	n.a.	
	Proportion of children aged 0–14 with ear/hearing problems (2008)	8.6	5.6	n.a.	n.a.	n.a.	n.a.	n.a.	
	Prevalence of low vision in eligible Indigenous adults (2008)	9.4	6.9			n.a.	n.a. n.a. n.a. n.a. n.a. n.a. n.a. n.a.		
	Prevalence of blindness in eligible Indigenous adults (2008)	1.9	6.9			n.a.			
Determinants of he	ealth								
Housing	Proportion of people aged 15 and over living in overcrowded households (2008)	25.1	11.4*	4.4*	7.0	n.a.	n.a.	n.a.	
Environmental tobacco smoke	Proportion of children aged 0–14 living in households with daily smokers who smoke at home indoors (2008 and 2007–08)	21.6	21.4*	5.1*	16.3	n.a.	n.a.	n.a.	
Education	Apparent retention rate for year 7/8 to Year 12—males (2011)	46.1	44.8*	76.5*	-31.7	n.a.	n.a.	n.a.	
	Apparent retention rate for year 7/8 to Year 12—females (2011)	51.3	49.9*	88.6*	-38.7	n.a.	n.a.	n.a.	
	Apparent retention rate for year 11 to Year 12—males (2011)	66.4	68.7*	85.0*	-16.3	n.a.	n.a.	n.a.	
	Apparent retention rate for year 11 to Year 12—females (2011)	68.5	70.5*	90.0*	-19.5	n.a.	n.a.	n.a.	
	Proportion of persons aged 25–64 who had a post-school qualification (2008)	40.2	57.4*	61.6*	-4.2	n.a.	n.a. n.a. n.a. n.a. n.a. n.a. n.a. n.a.	n.a.	
Literacy &	Proportion of Year 3 students achieving reading benchmark (2011)	76.3	88.2*	95.6*	-7.4	_	_	_	
numeracy	Proportion of Year 3 students achieving writing benchmark (2011)	79.9	91.3*	96.6*	-5.3	_	_	_	
	Proportion of Year 3 students achieving numeracy benchmark (2011)	83.6	89.6*	96.6*	-7.0	_	_	_	
Employment	Labour force participation rate (2008)	64.5	66.2*	79.4*	-13.2	n.a.	n.a.	n.a.	
	Unemployment rate (2008)	16.6	16.7*	3.1*	13.6	n.a.	n.a.	n.a.	
Income	Proportion of persons aged 18 and over in the bottom 20% of equivalised gross weekly household income (2008)	49	44*	20*	16	n.a	n.a	n.a.	

Table S1 (continued): Key measures of Aboriginal and Torres Strait Islander health, Victoria and national^(a)

		National	Victoria						
		Current period		Current period			Trends		
Topic	Measure—Indigenous population	Indig	Indig	Non-Indig	Gap ^(b)	Indig	Non-Indig n.a n.a.	Gap ^(b)	
Transport	Proportion of households with at least one motor vehicle (2006)	71.9	75.3*	87.4*	-12.1	n.a	n.a	n.a.	
Community safety and	Proportion of persons aged 18 and over who reported they were a victim of physical or threatened violence in last 12 months (2008)	20.5	24.3*	9.7*	14.6	n.a.	n.a.	n.a.	
criminal justice	Age-standardised imprisonment rate per 100,000 adults (2011)	1,867.6	1,155.2*	105.4*	1049.8	↑	↑	↑	
	Rate of children aged 0–16 on child protection substantiations per 1,000 children (2010–11)	34.9	55.3*	5.7*	49.6	n.a.	n.a.	n.a.	
Health behaviours	Proportion (age-standardised) of persons aged 15 and over who are current daily smokers (2008 and 2007–08)	44.6	46.2*	14.6*	29.6	n.a.	n.a.	n.a.	
	Proportion (age-standardised) of persons aged 18 and over who drank at risky/high risk levels in last 12 months (2004–05)	47	50*	38*	12	n.a.	n.a.	n.a.	
	Proportion of persons aged 18 and over who used illicit drugs in last 12 months (2008)	23.3	27.6	n.a	n.a.	n.a.	Non-Indig n.a n.a. n.a.	n.a.	
	Proportion (age-standardised) of persons aged 15 and over reporting sedentary levels of physical activity, non-remote areas (2004–05)	51	42*	31*	11	n.a.	n.a.	n.a.	
	Age- standardised proportion of mothers who smoked during pregnancy, 2009	51.9	38.6*	12.5*	26.1	n.a.	n.a.	n.a.	
	Proportion of infants (0-3 years) currently being breastfed, 2008	20.7	14.4	n.a	n.a.	n.a.	n.a.	n.a.	
Overweight & obesity	Age-standardised proportion of persons aged 18 and over who are obese (2004–05)	33.7	29*	17*	12	n.a.	n.a.	n.a.	
Health System F	Performance								
Early detection	Proportion of 2 year olds fully vaccinated (2011)	92.3	94.2 ^(c)	93.1 ^(c)	1.0	n.a	n.a	n.a.	
and prevention, health promotion	Age-standardised participation rates for women aged 50–69 in BreastScreen Australia programs (2008–09)	36.5	27.8* ^(c)	53.3*(c)	-25.4	n.a.	n.a.	n.a.	
promotion	Rate per 1,000 of child 0–14 health checks (2010–11)	112.5	65.6	n.a.	n.a.	↑	n.a.	n.a.	
	Rate per 1,000 of adult 15–54 health assessments (2010–11)	120.0	78.2	n.a.	n.a.	↑	n.a.	n.a.	
	Rate per 1,000 of adult 55+ health assessments (2010–11)	209.3	114.8	n.a.	n.a.	↑	n.a.	n.a.	

Table S1 (continued): Key measures of Aboriginal and Torres Strait Islander health, Victoria and national^(a)

		National	Victoria						
		Current period	C	Current period			Trends		
Topic	Measure—Indigenous population	Indig	Indig	Non-Indig	Gap ^(b)	Indig	Non-Indig	Gap ^(b)	
Chronic disease management/care	Age-standardised rate per 1,000 of General Practice Management Plans (GPMPs) (2010–11)	102	91*	55*	36	n.a	n.a	n.a.	
planning	Age-standardised rate per 1,000 of Team Care Arrangements (TCAs) (2010–11)	83	77*	46*	31	n.a	dig Non-Indig n.a n.a n.a n.a ↑ n.a. n.a. n.a. n.a. n.a. n.a. n.a. n.a. n.a. n.a. n.a. n.a. n.a. n.a. n.a. n.a. n.a. n.a.	n.a.	
	Age-standardised rate per 1,000 of allied health items claimed (2010–11)	599	686*	592*	94	1	n.a.	n.a.	
	Age standardised proportions of whether person in non-remote areas have a written asthma action plan, 2004–05	17.7	22.9	26.5	- 3.6	n.a.	a. n.a.	n.a.	
Access to hospital procedures	Age-standardised proportions of hospitalisations with a procedure recorded (2008–09 to 2009–10)	60.0	71.3*	81.6*	- 10.4	n.a.	n.a.	n.a.	
Potentially preventable hospital admissions	Age standardised hospitalisations rates for potentially preventable hospital admissions (2008–09 to 2009–10)	137.3	58.4*	29.7*	28.7	n.a.	n.a.	n.a.	
Governance and cultural competency	Age standardised per cent for discharge from hospital against medical advice (excluding mental and behavioural disorders) (2008–09 to 2009–10)	2.0	1.4*	0.3*	1.1	n.a.	n.a.	n.a.	
	Proportion of Aboriginal and Torres Strait Islander primary health care services that have representatives on external boards, 2009–10	38.6	57.7			n.a.			
	Proportion of Indigenous persons experiencing discrimination (2008)	27.3	27.6			n.a.			
	Proportion of Indigenous persons aged 15 and over experiencing problems accessing health services (2008)	29.9	26.9			n.a.	n.a. n.a n.a.		
Access to health services	Age-standardised rate per 1,000 population of MBS non-GP referred services claimed (2010–11)	6,376	7,556*	5,527*	2,029	n.a.	n.a.	n.a.	
	Proportion aged 15 and over who had problems accessing a dentist (2008)	19.5	16.0	n.a.	n.a.	n.a.	n.a.	n.a.	
	Proportion aged 15 and over who had problems accessing a doctor (2008)	9.5	8.3	n.a.	n.a.	n.a.	n.a.	n.a.	
	Proportion aged 15 and over who had problems accessing a hospital (2008)	6.6	4.5	n.a.	n.a.	n.a.	n.a.	n.a.	

Table S1 (continued): Key measures of Aboriginal and Torres Strait Islander health, Victoria and national(a)

		National		Victoria						
		Current period	Current period			Trends				
Topic	Measure—Indigenous population	Indig	Indig	Non-Indig	Gap ^(b)	Indig	Non-Indig	Gap ^(b)		
Access to	Episodes of health care provided by Indigenous primary health care services (2010–11)	2,498,067	200,535			_				
services	Elective surgery waiting times in public hospitals—50 th percentile (days) (2010–11)	39	34	36	-2	n.a.	n.a.	n.a.		
	Emergency department waiting times—proportion meeting national benchmark (2010–11)	66	72	70	2	n.a.	n.a.	n.a.		
	Age-standardised community mental health-care service contacts per 1,000 population (2009–10)	841.8	971.2*	309.4*	661.8	n.a.	n.a.	n.a.		
	Proportion of presentations to emergency departments which were after hours (2008–09 to 2009–10)	57.6	57.9	57.6	0.3	n.a.	n.a.	n.a.		
	Whether usually goes to the same GP/health service (2004–05)	91.0	91.9	n.a.	n.a.	n.a.	n.a.	n.a.		
Accreditation	Per cent of hospital admitted patient care episodes in accredited hospitals (2008–09 to 2009–10)	95.8	100.0	100.0	n.a.	n.a.	n.a.	n.a.		
	Proportion of Indigenous primary health care services accredited (2010–11)	70.9	73.6			n.a.				
Workforce,	Health workforce as a proportion of Indigenous persons aged 15 and over (2006)	2.0	2.4			n.a.				
training and resources	Per cent of undergraduates enrolled in health related courses who were Indigenous (2010)	1.8	0.7			n.a.				
	Per cent of VET students enrolled in health related courses who were Indigenous (2010)	4.7	0.9			n.a.				
	Estimated health expenditure per person (2008–09)	\$4,758	\$4,131*	\$1,767*	\$2,364	n.a.	n.a.	n.a.		

^{*} Represents results with statistically significant differences in the Indigenous/non-Indigenous comparisons at the p < 0.05 level.

Note: Figures reported in the current period column should not be compared as many of the measures are based on different denominators.

⁽a) National data are the total jurisdictions combined for which data are available/reliable for reporting.

⁽b) Gap is the rate difference (Indigenous rate minus non-Indigenous rate).

⁽c) Comparison is Indigenous and Other Australians (where Other includes Indigenous status not stated).

[↑] Statistically significant increase in long-term trends presented (see relevant measure in body of report and Appendix table for time period).

^{\$\}text{\$\text{\$}}\$ Statistically significant decrease in long-term trends presented (see relevant measure in body of report and Appendix table for time period).

[—] No significant change in long-term trends presented (see relevant measure in body of report and Appendix table for time period).

n.a. Time trends data not available or not reported.

^{. .} Not applicable.

Introduction

This report provides information on a range of indicators on health status, determinants of health and the health system performance in relation to Aboriginal and Torres Strait Islander people in Victoria. The report is based on the *Aboriginal and Torres Strait Islander Health Performance Framework 2012 report, detailed analysis*, the fourth in a series of reports against the Aboriginal and Torres Strait Islander Health Performance Framework (HPF). Analysis presented in this report includes both jurisdiction-specific measures and their comparison with national measures.

Detailed tables to support the analysis presented in this report can be found in Appendix 2 in the form of Excel tables.

The HPF comprises three tiers:

Tier 1—Health status and outcomes. This tier covers prevalence of health conditions (for example, circulatory disease, diabetes), human function (for example, disability), life expectancy and well-being and deaths. It aims to provide an overall indication of current health status and recent trends on a range of issues, including child and maternal health, chronic diseases, injury, communicable diseases, and social and emotional wellbeing.

Tier 2—Determinants of health. This covers determinants of health that focus on factors outside the health system that affect the health of Aboriginal and Torres Strait Islander people. This includes socioeconomic status (for example, income and education), environmental factors (for example, overcrowding), community capacity (for example, child protection), health behaviours (for example, risky alcohol consumption and dietary behaviours) and person-related factors (for example, prevalence of overweight and obesity). Such factors have been shown to have a strong association with both disease and ill health.

Tier 3—Health system performance. This covers the performance of the health system, including population health, primary health care and secondary/tertiary care services. Six domains are covered: effectiveness of health services, responsiveness of health services to Aboriginal and Torres Strait Islander communities and individuals, accessibility of services, continuity, capability and sustainability. This tier includes measures that deal with a range of programs and service types including child and maternal health, early detection and chronic disease management, continuous care, assess to secondary/tertiary care, the health workforce and expenditure.

The tiers and domains of the HPF and selected measures are shown in Figure 1. There are currently 68 indicators that can be reported against at national level but not all can be reported for Victoria due to data availability and quality issues. Information on why these indicators were selected is in the Aboriginal and Torres Strait Islander Health Performance Framework 2012 policy report (AHMAC 2012).

Tier 1 - Health status and outcomes									
Health conditions 1.01 Low birthweight infants 1.02 Top reasons for hospitalisation 1.03 Injury and poisoning 1.04 Respiratory disease 1.05 Circulatory disease 1.06 Acute rheumatic fever & rheumatic heart disease * 1.07 High blood pressure 1.08 Cancer 1.09 Diabetes 1.10 Kidney disease 1.11 Oral health 1.12 HIV/AIDS, hepatitis C and sexually	Human function 1.13 Community functioning 1.14 Disability 1.15 Ear health 1.16 Eye health Life expectancy and wellbeing 1.17 Perceived health status 1.18 Social and emotional wellbeing 1.19 Life expectancy at birth *	Deaths 1.20 Infant and child mortality * 1.21 Perinatal mortality * 1.22 All causes age standardised deaths rates * 1.23 Leading causes of mortality * 1.24 Avoidable and preventable deaths *							
transmissible infections	O Determinants of beauti								
Tier	2 - Determinants of health								
Environmental factors 2.01 Housing 2.02 Access to functional housing with utilities 2.03 Environmental tobacco smoke	Community capacity 2.10 Community safety 2.11 Contact with the criminal justice system 2.12 Child protection 2.13 Transport	Health behaviours 2.15 Tobacco use 2.16 Risky alcohol consumption 2.17 Drug and other substance us including inhalants 2.18 Physical activity							
Socioeconomic factors 2.04 Literacy and numeracy 2.05 Education Outcomes for young people 2.06 Educational participation and attainment of adults 2.07 Employment	2.14 Indigenous people with access to their traditional lands	2.19 Dietary behaviours 2.20 Breastfeeding practices 2.25 Health behaviours during pregnancy							
2.07 Employment 2.08 Income 2.09 Index of disparity		Person-related factors 2.22 Overweight and obesity							
Tier 3 -	Health system performance								
Effective/appropriate/efficient 3.01 Antenatal care 3.02 Immunisation 3.03 Health promotion 3.04 Early detection and early treatment 3.05 Chronic disease management	Accessible 3.14 Access to services compared with need 3.15 Access to prescription medicines 3.16 Access to after-hours primary	Capable 3.19 Accreditation 3.20 Aboriginal and Torres Strait Islander people training for health related disciplines							
3.06 Access to hospital procedures3.07 Selected potentially preventable hospital admissions3.08 Cultural competency	health care Continuous	Sustainable 3.21 Expenditure on Aboriginal and Torres Strait Islander health compared to need							
Responsive 3.09 Discharge against medical advice 3.10 Access to mental health services 3.11 Access to alcohol and drug services 3.12 Aboriginal and Torres Strait Islander Australians in the health workforce 3.13 Competent governance	3.17 Regular GP or health service 3.18 Care planning for chronic diseases	3.22 Recruitment and retention of staff							

Figure 1: Aboriginal and Torres Strait Islander Health Performance Framework Measures

* Measures for which Victoria data are unavailable, or data are not of sufficient quality for reporting. Note: The Safe domain of Tier 3 is measured within the National Health Performance Framework.

Demographic information

The preliminary estimated resident Aboriginal and Torres Strait Islander population of Victoria as at 30 June 2011 was about 47,000 people (ABS 2012), accounting for more than 7% of Australia's Indigenous population. Indigenous people represent 0.9% of the Victorian population, which is much lower than the proportion of Indigenous people in the total Australian population (3.0%).

Table 1: Preliminary estimated resident population by Indigenous status, Victoria and Australia, 30 June 2011

	Indig	Indigenous Non-Ir		digenous			al		
	Number	Per cent	Number	Per cent	Number	Per cent	Per cent Indig.	Per cent non-Indig.	
Victoria	47,327	7.1	5,487,199	25.3	5,534,526	24.8	0.9	99.1	
Australia ^(a)	669,736	100.0	21,654,197	100.0	22,323,933	100.0	3.0	97.0	

⁽a) Includes territories other than New South Wales, Victoria, Queensland, South Australia, Western Australia, Tasmania, the Northern Territory and the Australian Capital Territory.

Source: AIHW analysis of ABS preliminary population estimates based on 2011 Census.

The Aboriginal and Torres Strait Islander population has an age structure that is significantly younger than that of other Australians. For example, in Victoria, Aboriginal and Torres Strait Islander people aged under 15 constitute 35.6% of the Indigenous population, whereas this age group represents about 18.2% of the total population in Victoria. Conversely, those aged 65 and over comprise only 3.7% of the Indigenous population in Victoria, compared with 14.0% of the total Victorian population (Figure 2).

In Victoria, more than four-fifths of Aboriginal and Torres Strait Islander people lived in *Major cities* (49.6%) and *Inner regional* (34.9%) areas. Only 15.5% lived in *Outer regional* and *Remote areas*. In comparison, about three-quarters of the total Indigenous population in Australia lived in *Major cities* (32.1%), *Inner regional* (21.4%) and *Outer regional areas* (21.9%), with just under a quarter in *Remote* (9%) and *Very remote areas* (15%).

It should be noted that while the 2011 preliminary estimate resident population is the latest available data that gives an estimate of the number of Aboriginal and Torres Strait Islander people in the population, estimates are not yet available from the 2011 Census by remoteness or for years per or post 2011. Therefore the latest available data by remoteness is for 2006 sourced from the 2006 Census which is reported in Table 2 below. Denominators used to calculate proportions and rates in this report are based on Indigenous population estimates and projections from the 2006 Census.

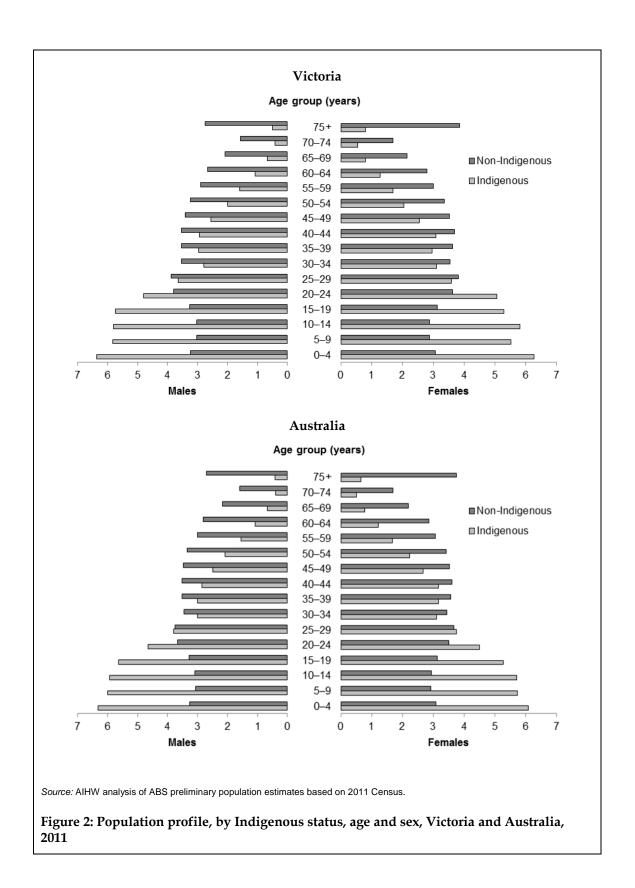


Table 2: Estimated resident population by remoteness area and Indigenous status, Victoria and Australia, 2006

	Indig	enous	Non-Indi	genous	Total				
	No.	Per cent	No.	Per cent	No.	Per cent	Per cent Indig.	Per cent Non- Indig.	
			V	/ictoria					
Major cities	16,629	49.6	3,817,616	75.0	3,834,245	74.8	0.4	99.6	
Inner regional	11,694	34.9	1,025,456	20.1	1,037,150	20.2	1.1	98.9	
Outer regional and remote	5,194	15.5	249,951	4.9	255,145	5.0	2.0	98.0	
Victoria	33,517	100.0	5,093,023	100.0	5,126,540	100.0	0.7	99.3	
			Α	ustralia					
Major cities	165,804	32.1	13,996,454	69.4	14,162,258	68.4	1.2	98.8	
Inner regional	110,643	21.4	3,975,150	19.7	4,085,793	19.7	2.7	97.3	
Outer regional	113,280	21.9	1,854,024	9.2	1,967,304	9.5	5.8	94.2	
Remote	47,852	9.3	267,199	1.3	315,051	1.5	15.2	84.8	
Very remote	79,464	15.4	88,010	0.4	167,474	0.8	47.4	52.6	
Australia	517,043	100.0	20,180,837	100	20,697,880	100	2.5	97.5	

Note: 2011 Census estimates are not yet available by remoteness.

Source: AIHW analysis of ABS population estimates based on 2006 Census.

Structure of this report

Part 1 presents analyses for Tier 1—Health status and outcomes; Part 2 presents analyses for Tier 2—Determinants of health, and Part 3 presents analyses for Tier 3—Health system performance. For each indicator, jurisdiction-specific data are analysed in comparison with national data, or data from a group of jurisdictions with sufficient data quality. Where possible, analyses are presented by age, sex and Indigenous status. Time trends are also presented where data are available.

This report presents the most recent data available at the time of writing, which varies by data source (see Table S1 for the most recent year/period for which key statistics are reported).

Detailed tables for each indicator are presented in Appendix 2 in the form of Excel tables. These include all tables included in this report, the underlying data used in Figures presented in this report, and tables which support statements made in the text of this report for which a table or figure is not presented (these are dot points with a reference to Appendix 2 in brackets at the end).

Data sources and methodology

Data in this report come from 30 data sources (26 administrative data sets and 4 surveys). A description of all sources is in Appendix 1.

Health-related administrative data sets include the Australian Institute of Health and Welfare's (AIHW) National Hospital Morbidity Database, the AIHW National Mortality

Database, the AIHW Community Mental Health Care Database, the AIHW National Perinatal Data Collection, the Australia and New Zealand Dialysis and Transplant Registry, the National Notifiable Diseases Surveillance System, the Service Activity Reporting Database and Medicare databases. Administrative data related to education include the Australian Bureau of Statistics (ABS) National Schools Statistics Collection, Department of Education, Employment and Workplace Relations (DEEWR) Higher Educations Statistics Collection and the National Centre for Vocational Education Research database. Community services related data includes the AIHW National Child Protection Data collections.

Surveys that were used to obtain data include Indigenous specific surveys such as the National Aboriginal and Torres Strait Islander Health Survey, the National Aboriginal and Torres Strait Islander Social Survey, and the Community Housing Infrastructure Needs Survey. Data from the Census of Population and Housing have also been used.

Age-standardised rates, rate differences and rate ratios have been used in many of the indicators to show how the Indigenous population fares relative to other Australians. All age-standardised rates and rate ratios have been calculated using the direct standardisation method and the 2001 Australian population as the standard population.

Time series analyses have used linear regression analysis to determine whether there have been significant increases or decreases in the observed rates. Many of the tables also include an asterisk (*) to indicate that rates for the Indigenous and non-Indigenous populations are statistically different from each other at the p < 0.05 level.

Data limitations

There are a number of limitations of data in this report that should be noted. The main issue in most administrative data collections is the under-identification of Aboriginal and Torres Strait Islander people. Under-identification is a major problem in mortality, hospital morbidity and communicable disease data, particularly in some states and territories. Data analysis has therefore been limited to jurisdictions with adequate identification of Indigenous people. Appendix 1 presents a description of each data source and their main data limitations and data quality issues relating to Indigenous status.

For recent hospitalisations, New South Wales, Victoria, Queensland, Western Australia, South Australia and the Northern Territory are considered as having data of sufficient quality to be included in the analyses. For longer-term hospital morbidity, data from only Queensland, Western Australia, South Australia and the Northern Territory are used. Longer-term mortality trend data are limited to three jurisdictions—Western Australia, South Australia and the Northern Territory, which have more than 10 years of adequate identification of Indigenous deaths in their recording systems. Queensland data from 1998 and NSW data from 2001 onwards are considered to be of adequate quality for mortality analyses.

Data on communicable diseases from the National Notifiable Disease Surveillance System have been assessed and found to have varying levels of completeness across diseases and jurisdictions. Victoria had insufficient Indigenous identification for hepatitis B and hepatitis C, but adequate identification for chlamydia, syphilis and gonorrhoea for the current reporting period.

The incompleteness of Indigenous identification means the number of hospital separations, deaths and disease notifications recorded as Indigenous result in underestimates of the true levels of hospitalisation and mortality.

Surveys are also subject to a number of data limitations due to sampling and non-sampling errors, such as bias in responses. In most tables in this report, estimates with large relative standard errors, which is a measure of the sampling variability, have been footnoted to indicate that they should be used with caution or are considered too unreliable for general use.

Volatility due to small numbers and impact on Interpretation of changes over time

Both small numbers and volatility in the data from year to year make it difficult to detect significant changes over time, and can greatly impact on any conclusions reached from a trend analysis. This is a particular problem when analysing trends for small populations such as the Indigenous population in the smaller jurisdictions.

Statistical methods can be used to model trend data in various ways and to determine whether there is a statistically significant trend. Time series analyses presented throughout this report have used linear regression analysis to determine whether there have been significant increases or decreases in the observed rates over the period. Regression analysis has several advantages over other techniques for assessing trends. In general, regression modelling has the advantage of jointly considering the information contained in the series of rates (i.e. taking into account volatility from year to year), rather than considering each time point separately.

In this report, the average annual change in rates, rate ratios and rate differences are calculated using linear regression which uses the least squares method to calculate a straight line that best fits the data and returns an array that best describes the line. The simple linear regression line, Y = a + bX, or 'slope' estimate is used to determine the average annual change in the data over the period. The 95% confidence intervals (CIs) for the standard error of the slope estimate (average annual change) are used to determine whether the apparent increases or decreases in the data are statistically significant at the p<0.05 level.

The per cent change estimates presented in this report use the slope estimate to derive an end point in the time series, rather than the actual end point. This overcomes the problem of being reliant on the end data point to determine the significance of the trend. However the first data point in the time series is still used in the per cent change calculation and therefore care must be taken in selecting a sensible starting point.

Great care should be taken when assessing apparent changes over time, particularly those involving small numbers and a small number of data points.

Data improvement activities

All jurisdictions are working towards improving the quality of Indigenous status in health data collections.

States and territories have agreed to improve Aboriginal and Torres Strait Islander data collection procedures in key data collections including implementation of the *National best*

practice guidelines for the collection of Indigenous status in health data sets published by the AIHW in 2008.

The AIHW is working with the states and territories in the development of an enhanced Perinatal National Minimum Data Set (NMDS) to include nationally consistent data items on antenatal care, smoking and alcohol use during pregnancy, and Indigenous status of the baby. Nationally consistent data items on smoking during pregnancy, gestational age at first antenatal visit, and Indigenous status of the baby have been added to the Perinatal NMDS (from 1 July 2009, 1 July 2010, and 1 July 2012 respectively). A data item on number of antenatal visits will be included in the Perinatal NMDS from 1 July 2013. Work is underway to progress data elements related to alcohol use in pregnancy.

The ABS and the AIHW work in partnership with jurisdictions to lead analysis of the level of Indigenous identification in key data sets. As part of this work, the AIHW conducted a study in 2011–12 to assess the level of under-identification in public hospitals data, which was a repeat of a study conducted in 2007. All states and territories have participated in the study to assess improvements in data quality. A report on the findings is expected to be published in April 2013, which will include new correction factors for the level of Indigenous underidentification in hospital separations data at the national, state/territory and remoteness levels.

As part of the data development work funded under the National Indigenous Reform Agreement (NIRA), the ABS will link Census records with death registration records to assess the level of identification in relation to the 2011 Census (this was undertaken for data from the 2006 Census and will be repeated).

The AIHW is also undertaking a project to develop an Enhanced Mortality Database by linking death registration records to several additional data sources that contain information on Aboriginal and Torres Strait Islander deaths (hospital, perinatal and residential aged care data). The enhanced data are expected to enable more accurate estimates of Aboriginal and Torres Strait Islander mortality, including life expectancy, to be made. Results from phase 1 of the project, which linked data for 2001 to 2006, produced national estimates of Aboriginal and Torres Strait Islander life expectancy at birth of 66.6 years for males and 72.7 for females, which was similar to the estimates produced by the ABS (AIHW 2012c).

Population data

Indigenous population data are required when computing rates from administrative data collections. While the 2011 preliminary estimated resident population is the latest available data that gives an estimate of the number of Aboriginal and Torres Strait Islander people in the population, estimates are not yet available from the 2011 Census by remoteness or for years pre or post 2011. Denominators used to calculate proportions and rates in this report are therefore based on Indigenous population estimates and projections from the 2006 Census (ABS 2009a). The Census enumerated the Indigenous population from responses to a question on a person's Indigenous status. The Indigenous ERP for 2006 is computed using this enumerated figure, and adjusted for undercount based on results from the Post-Enumeration Survey (PES) as well as for non-response to the Indigenous status question (ABS 2009a). Population numbers for other years are projected based on assumed future levels of fertility, mortality and migration (ABS 2009a).

The use of Indigenous ERP based on the 2006 Census showed vastly different results in mortality time series to those published in previous national reports, which used 2001

census-based ERP. The implications of using 2006 census-based compared with 2001 census-based ERP were discussed in the 2010 state and territory reports on the Aboriginal and Torres Strait Islander Health Performance Framework.

Statistical definitions

A number of statistic terms are used in this report. The definitions are:

Incidence is the number of new cases (of an illness or event, and so on) occurring during a given period.

Prevalence is the number or proportion (of cases, instances, and so forth) in a population at a given time.

Crude rate in this report refers to the number or proportion (of cases, instances, and so forth) in a population at a given time, unadjusted for age differences across the Indigenous and non-Indigenous populations.

Age-standardised rate in this report refers to a directly age-standardised rate in which the age-specific rates are multiplied by a constant population. This effectively removes the influence of the age structure on the summary rate to enable comparisons to be made between populations that have different age structures such as the Indigenous and non-Indigenous populations.

Rate ratio is calculated by dividing the rate for Indigenous Australians with a particular characteristic by the rate for non-Indigenous Australians with the same characteristic.

Rate difference is calculated by subtracting the rate for Indigenous Australians from the rate for non-Indigenous Australians for the characteristic of interest.

Statistically significant difference, for example between Indigenous and non-Indigenous or over time, is denoted as 'significant' in the text and denoted with a * against relevant statistics in tables. The word 'significant' is not used outside its statistical context.

Average annual change is used for rates, rate ratios and rate differences to reflect the average annual change in these statistics over the specified period.

Percentage change is used for rates, rate ratios and rate differences and is the difference between the first year and the last year of the specified period based on the average annual change over the period.

Part 1: Health status and outcomes

Health conditions 1.01 Low birthweight **Human function** 1.02 Top reasons for Health outcomes 1.13 Community functioning hospitalisation 1.20 Infant and child 1.14 Disability 1.03 Injury and poisoning mortality* 1.15 Ear health 1.04 Respiratory disease 1.21 Perinatal mortality* 1.16 Eye health 1.05 Circulatory disease 1.22 All causes age-1.06 Acute rheumatic fever and standardised death rates* rheumatic heart disease* 1.23 Leading causes of 1.07 High blood pressure mortality* Life expectancy and wellbeing 1.08 Cancer 1.24 Avoidable and 1.17 Perceived health status 1.09 Diabetes preventable deaths * 1.18 Social and emotional 1.10 Kidney disease wellbeing 1.11 Oral health 1.19 Life expectancy at birth* 1.12 HIV/AIDS, hepatitis and sexually transmissible infections

The first part of this report, Health status and outcomes, presents Tier 1 measures of the Aboriginal and Torres Strait Islander Health Performance Framework. It provides measures of the health status of Aboriginal and Torres Strait Islander people on a range of health issues. Data are presented on the health conditions which cause the highest morbidity and mortality among the Indigenous population. Comparisons with the non-Indigenous population and changes over time are examined so as to assess whether the gap is narrowing or widening. Tier 1 comprises four sections: Health conditions, Human function, Life expectancy and wellbeing, and Health outcomes.

^{*} Data is not available for Victoria for these indicators.

Health conditions

This section presents data for 12 measures that cover the leading causes of morbidity and mortality in the Indigenous population (such as injury, respiratory diseases, circulatory diseases, cancer, diabetes, kidney disease, oral health and sexually transmitted infections, or STIs), as well as low birthweight.

No data are currently available in Victoria on incidence or prevalence of acute rheumatic fever or rheumatic heart disease, although data on hospitalisations for rheumatic heart disease are included in the measure on circulatory disease.

1.01 Low birthweight

Birthweight is a key indicator of infant health and a principal determinant of a baby's chance of survival and good health. For newborns, low birthweight (defined as less than 2,500 grams) poses a greater risk of lengthy hospitalisation after birth, the need for resuscitation, and death. Low birthweight is a risk factor for neurological and physical disabilities and for ill health in childhood, with the risk of adverse outcomes increasing with decreasing birthweight (Ford et al. 2003).

Data are presented on the proportion of low birthweight among babies born to Aboriginal and Torres Strait Islander mothers using data from the National Perinatal Data Collection.

Key findings

- Over the three year period from 2007 to 2009 in Victoria, liveborn babies born to Indigenous mothers were more than twice as likely to be of low birthweight as live-born babies born to non-Indigenous mothers (13.4% compared with 6.2%) (Figure 1.01.1).
- These figures were slightly lower for Australia; however, babies born to Indigenous mothers were still about twice as likely to be of low birthweight as babies born to non-Indigenous mothers (12.3% compared with 5.9%) (Figure 1.01.1).
- From 2001 to 2009 in Victoria, there was no significant change in the proportion of low birthweight singleton babies born to Indigenous mothers, while there was a significant decrease in the proportion of low birthweight babies born to other Australian mothers (Figure 1.01.2).
- Over the same period in New South Wales, Victoria, Queensland, Western Australia, South Australia and the Northern Territory combined, there was a significant decrease of 0.11% per year in the proportion of low birthweight singleton babies born to Indigenous mothers and no significant change in the proportion of low birthweight babies born to other Australian mothers.

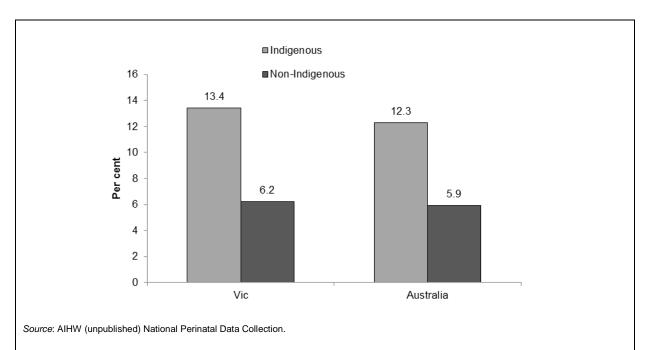
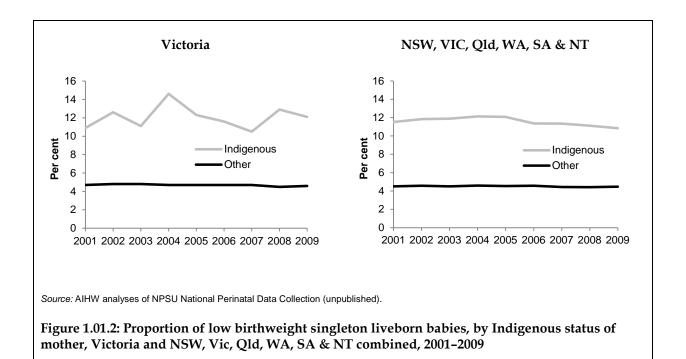


Figure 1.01.1: Proportion of low birthweight liveborn babies, by Indigenous status of mother, Victoria and Australia, 2007–2009



1.02 Top reasons for hospitalisation

Hospitalisation rates can be an indicator of the health of a population, although they only represent the most serious cases of ill health requiring inpatient hospital treatment (SCRGSP 2009). Rates of hospitalisation also indicate access to and use of hospital treatment, which is also affected by the availability of primary care and other services.

Data are presented on the leading causes of hospitalisation (at the International Classification of Diseases and Related Health Problems 10th Revision, Australian Modification (ICD–10 AM) Chapter level of diseases) among the Indigenous population compared with the non-Indigenous population.

Key findings

- Between July 2008 and June 2010 in Victoria, there were 3,840,759 hospitalisations (excluding dialysis), 0.5% of which were of Indigenous people (Table 1.02.2, Appendix 2). Indigenous people in Victoria were hospitalised at the same rate as non-Indigenous people. In the six jurisdictions combined (NSW, Vic, Qld, WA, SA &NT) Indigenous people were hospitalised at 1.3 times the rate of non-Indigenous people.
- In Victoria, when hospitalisations for dialysis are excluded, Indigenous people had higher hospitalisations rates than non-Indigenous people across most age groups except for those aged 5–14, 55–64 and 65 and over. The greatest difference were for those aged 45–54, where Indigenous people were hospitalised at around 1.3 times the rate of non-Indigenous people in the corresponding age group (Figure 1.02.1).
- From July 2008 to June 2010 in Victoria, the most common principal diagnosis for hospitalisations among Indigenous people was diseases of the digestive system (37.5 per 1,000), followed by symptoms, signs and abnormal clinical and laboratory findings (33 per 1,000). Injury and poisoning and certain other consequences of external causes and diseases of the respiratory system were the two most common principal diagnoses for hospitalisations among Indigenous Australians in the six jurisdictions combined.
- The greatest difference in hospitalisation rates between Indigenous and non-Indigenous people in Victoria were for diseases of the respiratory system (rate difference 22.8 per 1,000 population) and mental and behavioural disorders (rate difference 18.9 per 1,000 population) (Table 1.02.1).
- Between 2004–05 and 2009–10 in Victoria, there were significant increases in total hospitalisation rates (excluding dialysis) for both Indigenous and non-Indigenous people of 58% and 4% respectively). Over the same period, in New South Wales, Victoria, Queensland, Western Australia, South Australia and the Northern Territory combined, there were also significant increases in hospitalisation rates among Indigenous and non-Indigenous people over this period (13% and 7% respectively) (Figure 1.02.2).

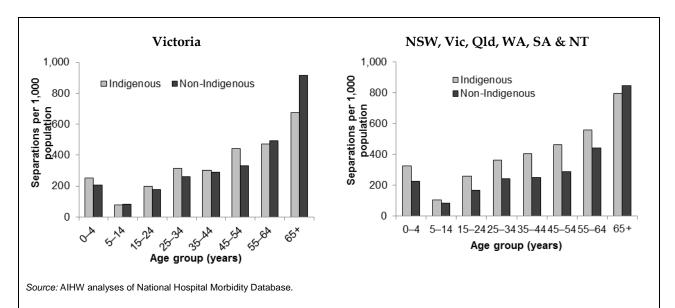


Figure 1.02.1: Age-specific hospitalisation rates (excluding dialysis), by Indigenous status, Victoria and NSW, Vic, Qld, WA, SA & NT combined, July 2008 to June 2010

Table 1.02.1: Hospitalisation rates (per 1,000 population), by principal diagnosis and Indigenous status, Victoria and NSW, Vic, Qld, WA, SA & NT combined, July 2008 to June 2010

		Victoria	3		NSW, Vic, Qld, WA, SA & NT					
Principal diagnosis	Indig.	Non- Indig.	Rate Ratio	Rate Diff.	Indig.	Non- Indig.	Rate Ratio	Rate Diff.		
Injury & poisoning	32.4	23.9	1.4*	8.5*	46.9	23.5	2.0*	23.4*		
Pregnancy and childbirth	26.8	22.2	1.2*	4.6*	33.0	21.8	1.5*	11.1*		
Respiratory diseases	25.6	16.0	1.6*	9.6*	43.2	16.0	2.7*	27.3*		
Digestive diseases	37.5	41.9	0.9*	-4.4*	36.1	37.1	0.97*	-1.0*		
Symptoms, signs and abnormal findings	33.0	29.1	1.1*	3.9*	36.0	24.0	1.5*	12.0*		
Mental and behavioural disorders	25.6	16.4	1.6*	9.2*	25.8	14.2	1.8*	11.6*		
Circulatory diseases	24.8	21.3	1.2*	3.5*	33.9	19.8	1.7*	14.0*		
Genitourinary Diseases	15.4	18.0	0.9*	-2.6*	20.0	16.9	1.2*	3.1*		
Skin diseases	8.7	6.0	1.4*	2.7*	13.2	5.7	2.3*	7.5*		
Infectious and parasitic diseases	7.5	5.8	1.3*	1.7*	11.3	5.3	2.1*	5.9*		
Endocrine, nutritional and metabolic										
diseases	11.4	7.8	1.5*	3.6*	20.0	6.9	2.9*	13.1*		
Other	92.7	129.9	0.7*	-37.2*	89.2	118.8	0.8*	-29.6		
Subtotal	341.5	338.5	1.0	3.0	408.5	310.0	1.3*	98.5*		
Care involving dialysis	192.5	48.0	4.0*	144.5*	446.8	40.9	10.9*	405.9*		
Total	534.3	387.3	1.4*	147.0*	855.3	351.1	2.4*	504.2*		

 $^{^*}$ Represents results with statistically significant differences in the Indigenous/non-Indigenous comparisons at the p < 0.05 level.

Source: AIHW analysis of National Hospital Morbidity Database.

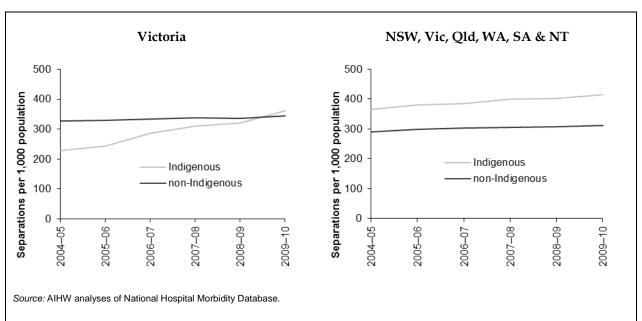


Figure 1.02.2: Trends in hospitalisation rates (excluding dialysis) by Indigenous status, Victoria and NSW, Vic, Qld, WA, SA & NT combined, 2004–05 to 2009–10

1.03 Injury and poisoning

Injury and poisoning are large contributors to Indigenous ill health, especially for younger people, and comprised 15% of the health gap between Indigenous and non-Indigenous Australians in 2003 (Vos et al. 2007). Various factors can affect a person's risk of injury, including age, gender, and socioeconomic status. The incidence of intentional injury is much more common among Indigenous Australians than other Australians, reflecting issues including disadvantage, grief and discrimination (AHMAC 2006).

Injury data can be viewed in terms of the damage sustained to the body (for example, broken bones, head injuries), or by the external cause of the injury (for example, falls, poisoning and drowning), both of which are recorded by hospitals on admission.

Data are presented on hospitalisations with a principal diagnosis of injury and poisoning for Aboriginal and Torres Strait Islander Australians compared with non-Indigenous Australians.

Key findings

- Between July 2008 and June 2010, there were 2,021 hospitalisations of Indigenous people with a principal diagnosis of injury and poisoning in Victoria (Table 1.03.1, Appendix 2).
- After adjusting for differences in age structure, Indigenous people were hospitalised for injury and poisoning at 1.4 times the rate of non-Indigenous people (32.4 compared with 23.9 per 1,000 population) (Table 1.03.1, Appendix 2).
- Indigenous males and females had higher hospitalisation rates for injury and poisoning than non-Indigenous males and females across all age groups except for males aged 5–14 and females aged 65 and over in Victoria (Figure 1.03.1). Indigenous males and females had higher hospitalisation rates for injury and poisoning than non-Indigenous males and females across all age groups for New South Wales, Victoria, South Australia, Queensland, Western Australia, and the Northern Territory combined (Figure 1.03.1).

- Between July 2008 and June 2010 in Victoria, accidental falls was the most common cause of hospitalisation for Indigenous people with a principal diagnosis of injury and poisoning (21.6%), followed by exposure to inanimate mechanical forces (14.3%). For six jurisdictions combined, assault was the most common cause (24.1%) followed by accidental falls (18.1%) (Table 1.03.2, Appendix 2).
- Indigenous people in Victoria were hospitalised for assault at 4.9 times the rate of non-Indigenous people and for intentional self-harm at 2.5 the rate of non-Indigenous people (Figure 1.03.2). In the six jurisdictions combined, ratios were 12.2 and 2.4 for these diagnoses, respectively (Table 1.03.2, Appendix 2).
- Between 2004–05 to 2009–10 in Victoria, there were significant increases in hospitalisation rates for injury and poisoning among Indigenous people of 1.8 per 1,000 population per year and non-Indigenous people (average yearly increase of 0.3 per 1,000) (Figure 1.03.3).
- In New South Wales, Victoria, Queensland, Western Australia, South Australia and the Northern Territory combined, there was significant increase in hospitalisation rates for injury and poisoning among Indigenous people (1.1 per 1,000), and among non-Indigenous people over this period (an average yearly increase of 0.4 per 1,000) (Figure 1.03.3).

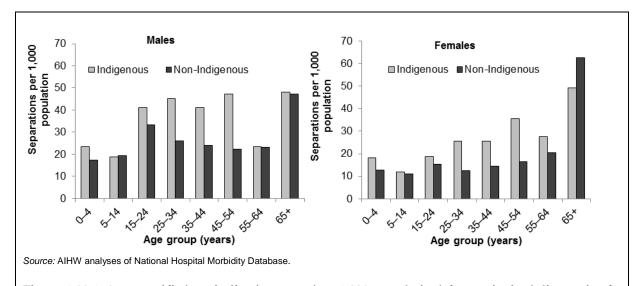


Figure 1.03.1: Age-specific hospitalisation rates (per 1,000 population) for a principal diagnosis of injury and poisoning, by Indigenous status and sex, Victoria, July 2008 to June 2010

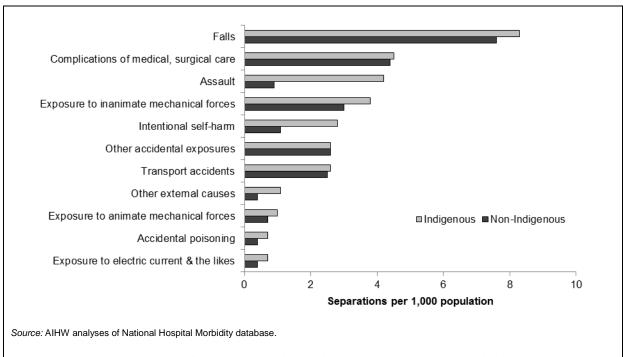
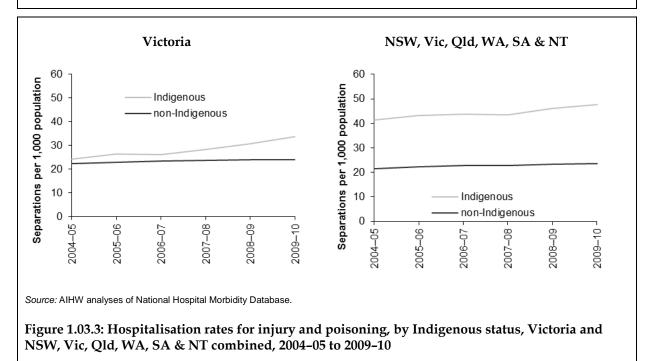


Figure 1.03.2: External causes for hospitalisations with a principal diagnosis of injury and poisoning (age-standardised rates), by Indigenous status, Victoria, July 2008 to June 2010



1.04 Respiratory diseases

Respiratory diseases are leading causes of illness, disability and mortality around the world. Common among them are asthma, chronic obstructive pulmonary disease (comprising chronic bronchitis and emphysema), influenza and pneumonia. While all respiratory diseases result in high use of health services, pneumonia and chronic obstructive pulmonary disease in particular are leading underlying causes of death. Aboriginal and Torres Strait Islander Australians experience considerably greater mortality and morbidity from

respiratory diseases such as chronic obstructive pulmonary disease (COPD), pneumonia and asthma than other Australians.

Data are presented on hospitalisations with a principal diagnosis of diseases of the respiratory system for Aboriginal and Torres Strait Islander Australians compared with non-Indigenous Australians.

Key findings

- Between July 2008 and June 2010 in Victoria, there were 1,471 hospitalisations of Indigenous people with a principal diagnosis of respiratory diseases (rate of 25.6 per 1,000 population) (Table 1.04.1).
- After adjusting for differences in age-structure, Indigenous people in Victoria were
 hospitalised for respiratory diseases at 1.6 times the rate of non-Indigenous people
 (Table 1.04.1). In New South Wales, Victoria, Queensland, South Australia, Western
 Australia and the Northern Territory combined, Indigenous people were hospitalised for
 respiratory diseases at almost 3 times the rate of non-Indigenous people.
- Indigenous people in Victoria were hospitalised for respiratory diseases at a higher rate than non-Indigenous people in all age groups, except in age groups 5–14 and 15–24. The biggest differences were in age groups 45–54 and 55–64 where Indigenous hospitalisation rates were 3 times as high as for non-Indigenous people. For the six jurisdictions combined, Indigenous people were hospitalised for respiratory diseases at a higher rate than non-Indigenous people in all age groups (Figure 1.04.1).
- Between July 2008 and June 2010 in Victoria, Indigenous people were hospitalised for respiratory diseases at 25.6 per 1,000 population which was lower than for Indigenous people in New South Wales, Victoria, Queensland, Western Australia, South Australia and the Northern Territory combined (43.2 per 1,000) (Table 1.04.1).
- In Victoria, there was a significant increase of 38% in hospitalisation rates for respiratory diseases among Indigenous people from 2004–05 to 2009–10. There was no significant change in hospitalisation rates for non-Indigenous people over this period, resulting in a significant widening of the gap (Figure 1.04.2). There was no significant change for both Indigenous and non-Indigenous persons in New South Wales, Victoria, Queensland, Western Australia, South Australia and the Northern Territory combined.

Table 1.04.1: Hospitalisations for all respiratory diseases for Aboriginal and Torres Strait Islander people, by sex, Victoria and NSW, Vic, Qld, WA, SA & NT combined, July 2008 to June 2010

		Vict	oria		NS	NSW, Vic, Qld, WA, SA & NT					
	Numbe pe Number 1,000		Rate ratio	Rate difference	Number	Number per 1,000	Rate ratio	Rate difference			
Males	676	23.5	1.3*	5.9*	17,475	43.3	2.5*	25.8*			
Females	795	27.4	1.8*	12.6*	17,868	43.5	3.0*	28.8*			
Persons	1,471	25.6	1.6*	9.6*	35,343	43.2	2.7*	27.3*			

^{*} Represents results with statistically significant differences in the Indigenous/non-Indigenous comparisons at the p < 0.05 level.

Source: AIHW analyses of National Hospital Morbidity Database.

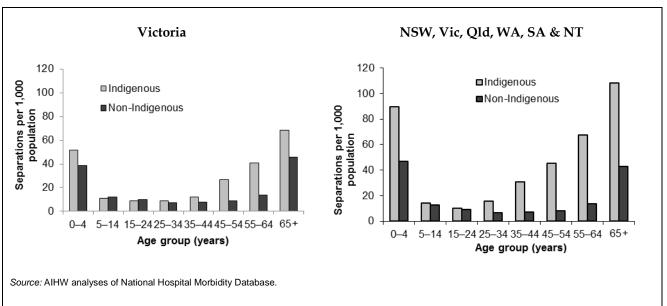


Figure 1.04.1: Age specific hospitalisation rates for all respiratory diseases, by Indigenous status, Victoria and NSW, Vic, Qld, WA, SA & NT combined, July 2008 to June 2010

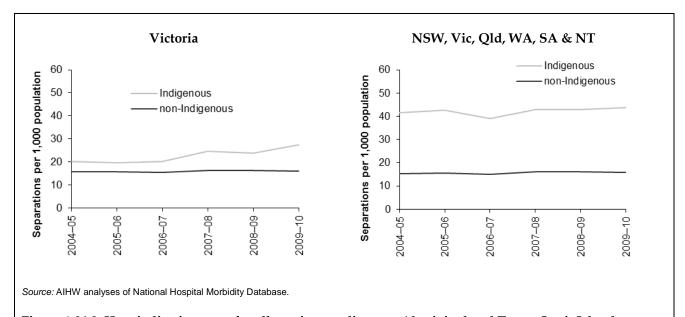


Figure 1.04.2: Hospitalisation rates for all respiratory diseases, Aboriginal and Torres Strait Islander people and non-Indigenous Australians, Victoria and NSW, Vic, Qld, WA, SA & NT combined, 2004–05 to 2009–10

1.05 Circulatory disease

Cardiovascular diseases include coronary heart disease, stroke, peripheral vascular disease, heart failure and rheumatic heart disease. Collectively, these diseases are the largest cause of death in Australia, and account for the largest health-care expenditure of any disease group (AIHW 2011a). Circulatory disease accounts for 17% of the burden of disease in Indigenous Australians in 2003(Vos et al. 2007) and 26% of mortality in 2006–10 (see indicator 1.23).

Data are presented on the prevalence of circulatory conditions using data from the 2004–05 NATSIHS, and hospitalisations with a principal diagnosis of circulatory disease for Aboriginal and Torres Strait Islander people.

- In 2004–05 in Victoria, 11% of Indigenous males and 18% of Indigenous females reported heart or circulatory conditions as a long-term condition. This compared with 10% and 14% of Indigenous males and females in Australia (Table 1.05.1, Appendix 2).
- In Victoria, after adjusting for differences in age structure, Indigenous males and females were more likely than non-Indigenous males and females to report heart and circulatory conditions (Table 1.05.1, Appendix 2).
- Prevalence of heart and circulatory conditions was highest among Indigenous people aged 55 years and over (about 57% in Victoria and 54% in Australia). In Victoria, the greatest disparity in prevalence rates between Indigenous and non-Indigenous people was in the 35–44 age group (difference of 30.2; ratio of 3.8) (Table 1.05.1, Appendix 2).
- Between July 2008 and June 2010, there were 925 hospitalisations of Indigenous people in Victoria with a principal diagnosis of diseases of the circulatory system. Indigenous people in Victoria were hospitalised for circulatory diseases at a rate of 24.8 per 1,000 population. This was lower than the rate for Indigenous people in New South Wales, Victoria, Queensland, Western Australia, South Australia and the Northern Territory combined (33.9 per 1,000) (Table 1.05.2, Appendix 2).
- After adjusting for differences in age structure, Indigenous males and females in Victoria were hospitalised for circulatory diseases at 1.1 and 1.2 times the rate of non-Indigenous males and females in Victoria, respectively (Table 1.05.2, Appendix 2).
- Indigenous people in Victoria had higher hospitalisation rates for circulatory disease than non-Indigenous people across all age groups, except 15–24, 25–34 and 65 and over. The greatest difference in hospitalisation rates occurred in the 45–54 age group where Indigenous people were hospitalised at 2.3 times the rate of non-Indigenous people (Figure 1.05.1).
- Of all hospitalisations with a principal diagnosis of circulatory disease, ischaemic heart disease was the most common reason for hospitalisation among Aboriginal and Torres Strait Islander people (46% in Victoria and 43% in the six jurisdictions combined) (Table 1.05.2, Appendix 2).
- Aboriginal and Torres Strait Islander people in Victoria were hospitalised for ischaemic heart disease at 1.7 times the rate of non-Indigenous people. This compares with 2.3 times the rate of non-Indigenous people in the six jurisdictions combined (Table 1.05.2, Appendix 2).
- Between 2004–05 and 2009–10 in Victoria, there was a significant increase in hospitalisation rates for circulatory disease for Indigenous people (average annual increase 2.2 per 1,000; 72% increase) and a significant decline for non-Indigenous people (average annual decline of 0.2 per 1,000; 4% decline) (Figure 1.05.2). In New South Wales, Victoria, Queensland, Western Australia, South Australia and the Northern Territory combined, there was a significant decline in hospitalisation rates for circulatory disease among non-Indigenous people only (average annual decline of 0.2 per 1,000) (Figure 1.05.2).

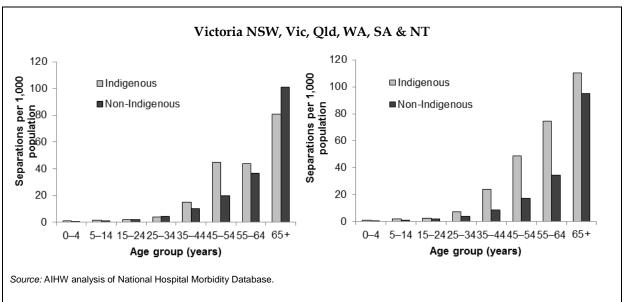
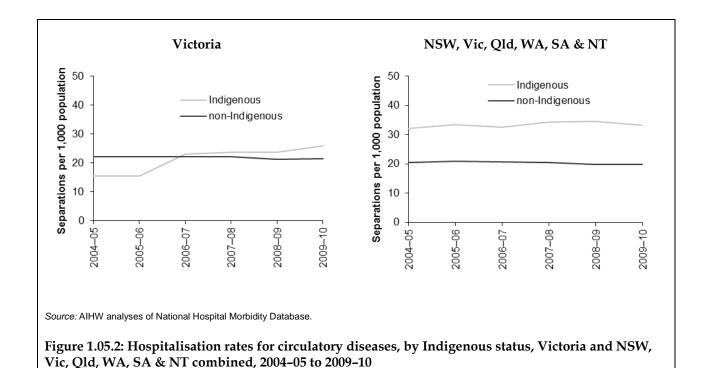


Figure 1.05.1: Age-specific hospitalisation rates per 1,000 population with a principal diagnosis of circulatory diseases, by Indigenous status, Victoria and NSW, Vic, Qld, WA, SA & NT combined, July 2008 to June 2010



1.07 High blood pressure

High blood pressure, also referred to as hypertension, is a major risk factor for a number of diseases, including stroke, coronary heart disease, kidney disease, and peripheral vascular disease. High blood pressure is more common among Aboriginal and Torres Strait Islander people than other Australians and is a major contributor to the increased risk of heart attack, stroke and other circulatory diseases among Indigenous Australians (AIHW 2002).

Data are presented on self-reported prevalence of hypertension among Aboriginal and Torres Strait Islander Australians using data from the 2004–05 NATSIHS, and hospitalisations with a principal diagnosis of hypertension.

Key Findings

- In 2004–05 in Victoria, about 5% of Indigenous males and 10% of Indigenous females reported high blood pressure or hypertension. The proportions for Indigenous people nationally were 7% for males and 8% for females (Table 1.07.1).
- In 2004–05 in Victoria, after adjusting for differences in age structure between the Indigenous and non-Indigenous populations, Indigenous males were 1.3 times as likely, and Indigenous females 1.5 times as likely, to have reported high blood pressure or hypertension as non-Indigenous males and females respectively.
- In both Victoria and nationally, high blood pressure or hypertension was most prevalent among those aged 55 and over for both Indigenous and non-Indigenous Australians (Table 1.07.1).
- Between July 2008 and June 2010 in Victoria, there were 13 hospitalisations of Indigenous people with a principal diagnosis of hypertensive disease (Table 1.07.2, Appendix 2).

Table 1.07.1: People reporting high blood pressure/hypertension, per cent, by Indigenous status, age group and sex, Victoria and Australia, 2004–05

	M	ale	Female					
Age group	Indigenous	Non-Indigenous	Indigenous	Non-Indigenous				
	Victoria							
25–34	_	2	2	2				
35–44	11	5	27	3				
45–54	9	13	21	16				
55+	47	33	44	37				
Crude proportion	5	10	10	12				
Total age-standardised	13	10	18	12				
	Australia							
25–34	4	3	5	2				
35–44	14	6	11	4				
45–54	22	15	24	13				
55+	39	32	46	36				
Crude proportion	7	n.a.	8	n.a.				
Total age-standardised	14	10	16	10				

Source: ABS and AIHW analyses of NATSIHS 2004-05 and NHS 2004-05.

1.08 Cancer

Cancer was identified as a leading cause of morbidity and mortality in Australia in 2010, accounting for 19% of the total burden of disease (AIHW & AACR 2010). Recent research shows that the cancer survival rate is lower for Indigenous people who are diagnosed with cancer than non-Indigenous people (Cramb et al. 2012).

Data are presented on hospital separation and mortality rates for Aboriginal and Torres Strait Islander people compared with non-Indigenous Australians.

- Hospital admissions data for Victoria between July 2008 and June 2010 shows that the Indigenous population has generally lower rates of hospitalisations with a principal diagnosis of cancer (neoplasms) than the non-Indigenous population (14 per 1,000 population compared with 19 per 1,000). There is a similar pattern for New South Wales, Victoria, Queensland, Western Australia, South Australia and Northern Territory combined (Table 1.08.1, Appendix 2).
- Between July 2008 and June 2010, hospitalisation rates for cancer for Indigenous people in Victoria were lower than the rates for non-Indigenous people in all age groups. A similar pattern was recorded for New South Wales, Victoria, Queensland, Western Australia, South Australia and Northern Territory combined (Figure 1.08.1).
- Between 2004–05 and 2009–10 in Victoria, there were significant increases in hospitalisation rates for cancer among both Indigenous people (average yearly increase of 1.4 per 1,000 which was equivalent to a 99% increase over the period) and non-Indigenous people (average yearly increase of 0.3 per 1,000 which was equivalent to a 9% increase over the period). There was a significant (57%) decline in the gap between Indigenous and non-Indigenous hospitalisation rates for cancer over the period (Figure 1.08.2).
- Over the same period in New South Wales, Victoria, Queensland, Western Australia, South Australia and Northern Territory combined, there was a significant increase in hospitalisation rates for cancer among Indigenous people (average yearly increase of 0.5 per 1,000) and non-Indigenous people (average yearly increase of 0.2 per 1,000) (Figure 1.08.2).

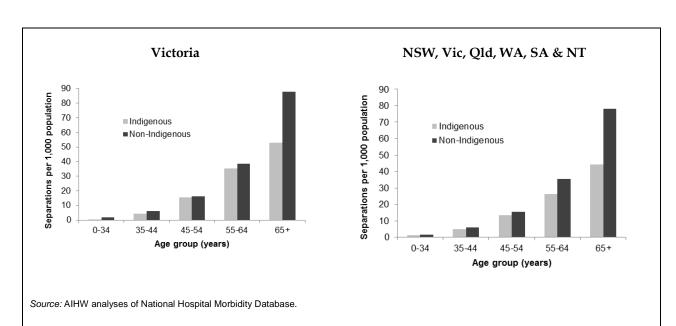
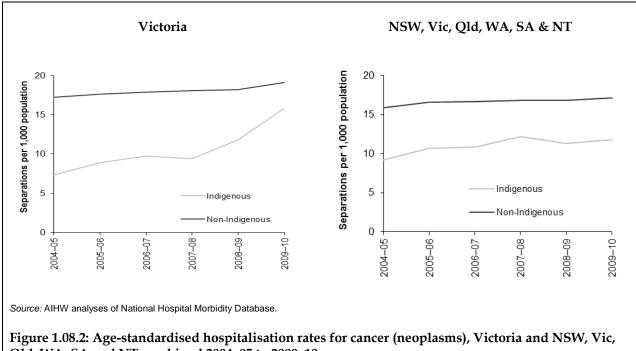


Figure 1.08.1: Age-specific hospitalisation rates for cancer (neoplasms), by Indigenous status, Victoria and NSW, Vic, Qld, WA, SA & NT combined, July 2008 to June 2010



Old, WA, SA and NT combined 2004-05 to 2009-10

1.09 **Diabetes**

Diabetes is a long-term (chronic) condition that can damage various parts of the body due to high glucose levels. Diabetes comprised 12% of the health gap between Indigenous and non-Indigenous Australians in 2003 (Vos et al. 2007). Diabetes prevalence is higher for Indigenous Australians than non-Indigenous Australians. Prevention, early detection and better management of diabetes will be important in closing the gap in life expectancy.

Data are presented on the self-reported prevalence of diabetes for Aboriginal and Torres Strait Islander Australians using data from the 2004-05 NATSIHS, as well as hospitalisation rates for persons diagnosed with diabetes.

- In 2004–05 in Victoria, about 3.5% of Indigenous males and 5.5% of Indigenous females reported diabetes or high sugar levels. This was lower than the proportions nationally (5.5% and 7.1% respectively) (Table 1.09.1).
- After adjusting for differences in age structure, Indigenous people were 3 times as likely to report diabetes or high sugar levels as non-Indigenous people in Victoria. Prevalence of diabetes was highest among Indigenous and non-Indigenous people aged 55 and over (35% and 11% respectively) (Table 1.09.2, Appendix 2).
- Between July 2008 and June 2010, there were 362 hospitalisations of Indigenous people resident in Victoria with a principal diagnosis of diabetes mellitus. Indigenous people were hospitalised with a principal diagnosis of diabetes at a rate of 8.1 per 1,000 population. This was lower than the rate for New South Wales, Victoria, Queensland, Western Australia, South Australia and the Northern Territory combined (14.1 per 1,000 population) (Table 1.09.3, Appendix 2).

Table 1.09.1: Aboriginal and Torres Strait Islander people reporting diabetes/high sugar levels, by sex, Victoria and Australia, 2004–05

	Male	Female	Total
		Per cent	
Victoria	3.5	5.5	4.6
Australia	5.5	7.1	6.3

Source: AIHW analyses of NATSIHS 2004-05.

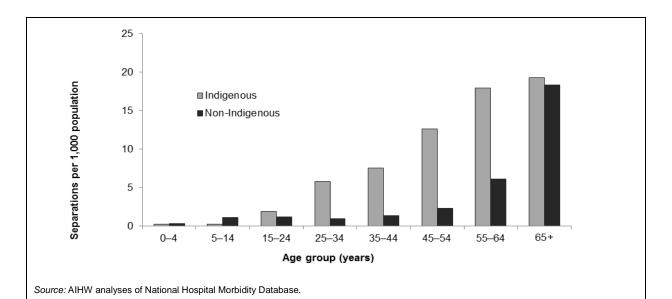
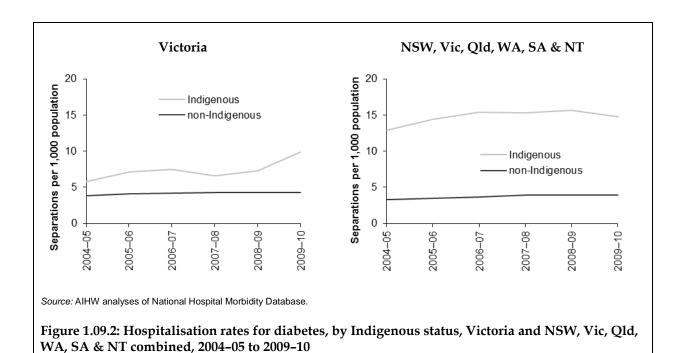


Figure 1.09.1: Age-specific hospitalisation rates for a principal diagnosis of diabetes, by Indigenous status and age groups, Victoria, July 2008 to June 2010



Aboriginal and Torres Strait Islander Health Performance Framework 2012 report: Victoria

1.10 Kidney disease

The kidneys can be damaged by various acute illnesses (for example, severe infections) or by progressive damage from chronic conditions such as elevated blood pressure (untreated hypertension) and long-standing high blood sugar levels (untreated diabetes). If the kidneys cease functioning entirely (known as end-stage renal disease or kidney failure), it is necessary to have renal dialysis several times per week or undergo a kidney transplant (AIHW 2011a).

Kidney disease, in particular end-stage renal disease (ESRD), contributes substantially to the high burden of ill health experienced by Aboriginal and Torres Strait Islander people. Renal failure was estimated to contribute 5% of the burden of disease for Indigenous Australians in 2003 (Vos et al. 2007). Aboriginal and Torres Strait Islander people have very high levels of ESRD due to a range of risk factors.

Data are presented on the incidence of end-stage renal disease among Aboriginal and Torres Strait Islander people using data from the Australia and New Zealand Dialysis and Transplant Registry (ANZDATA), as well as hospitalisation rates with a principal diagnosis of chronic kidney disease.

- Between 2008 and 2010 in Victoria, there were 22 cases of end-stage renal disease registered to ANZDATA for Indigenous Australians. After adjusting for differences in age-structure, the incidence rate of ESRD for Indigenous Australians was more than 4 times that for non-Indigenous Australians (38.3 compared with 9.4 per 100, 000). Incidence rates were lower for Victoria than nationally (Table 1.10.1, Appendix 2).
- Between July 2008 June 2010, the age-standardised hospitalisation rate of dialysis and chronic kidney disease for Indigenous people was lower in Victoria than in New South Wales, Victoria, Queensland, Western Australia, South Australia and the Northern Territory combined (195.3 compared with 453.0 per 1,000 population). Indigenous males were hospitalised for chronic kidney disease at 2.3 times the rate, and Indigenous females at 6.9 times the rate, of non-Indigenous Australians in Victoria (Figure 1.10.1).

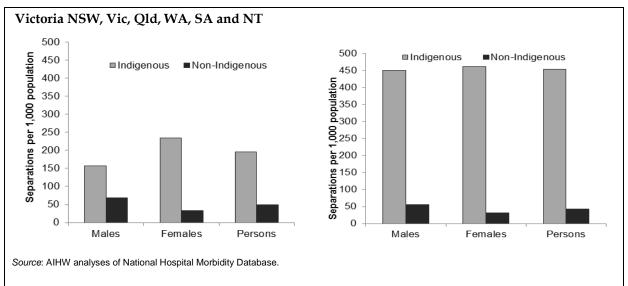


Figure 1.10.1: Hospitalisations rate per 1,000 for dialysis and chronic kidney disease by Indigenous status and sex, Victoria and NSW, Vic, Qld, WA, SA and NT combined, July 2008 to June 2010

1.11 Oral health

Aboriginal and Torres Strait Islander people are more likely than other Australians to have a range of oral health problems, such as having lost all their teeth and gum disease. They are more likely to have untreated teeth and gum disease and less likely to have received preventive dental care (Jamieson et al. 2010). Periodontal disease (that is, of the gums) is associated with poor oral hygiene, infrequent dental visits, smoking, low education and income levels, and certain medical conditions such as diabetes. Research has also found an association between periodontal disease and pre-term, low birthweight babies, rheumatoid arthritis and cardiovascular disease (NATSIHC & SCoATSIH 2003; Thompson et al. 2004) and with inhalant use (Jamieson et al. 2010).

Data are presented on the prevalence of teeth or gum problems for Aboriginal and Torres Strait Islander children using data from the 2008 National Aboriginal and Torres Strait Islander Social Survey (NATSISS), and hospitalisation rates for dental conditions for Indigenous Australians compared with non-Indigenous Australians.

- In 2008 in Victoria, about 38% of Indigenous children aged 0–14 reported teeth or gum problems. This was slightly higher than the proportion nationally (32%) (Figure 1.11.1).
- Between July 2008 and June 2010, Indigenous Australians resident in Victoria were hospitalised for dental problems at a rate of 2.6 per 1,000 population which was higher than the rate for non-Indigenous people (1.9 per 1,000), and higher than the rate for Indigenous people in New South Wales, Victoria, Queensland, Western Australia, South Australia and Northern Territory combined (2.0 per 1,000) (Figure 1.11.3).
- Indigenous people in Victoria were hospitalised for dental problems at a higher rate than non-Indigenous people between the ages of 0–14 and 25–44 age groups. In the six jurisdictions combined, Indigenous people were hospitalised for dental problems at a higher rate than non-Indigenous people between the ages 0–14 (Figure 1.11.2).

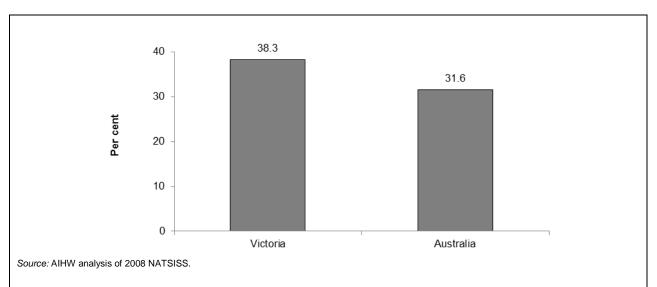


Figure 1.11.1: Number and proportion of Indigenous children aged 0–14 with reported teeth or gum problems, Victoria and Australia, 2008

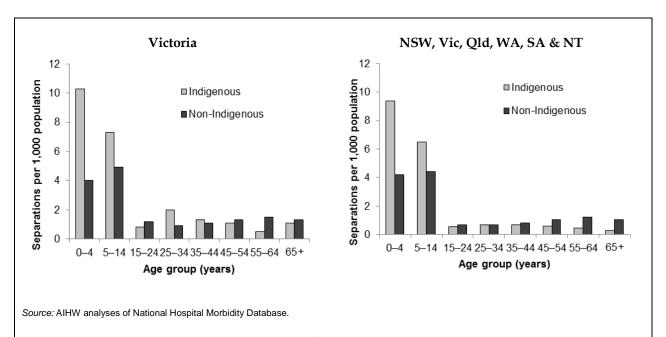


Figure 1.11.2: Age-specific hospitalisation rates (separations per 1,000 population) for dental problems, by Indigenous status and age group, Victoria and NSW, Vic, Qld, WA, SA and NT combined, July 2008 to June 2010

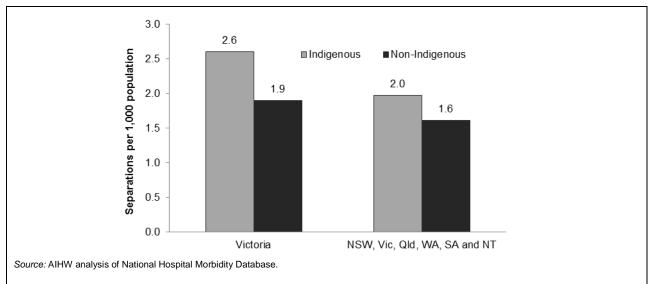


Figure 1.11.3: Age-standardised hospitalisation rates for dental problems, by Indigenous status Victoria and NSW, Vic, Qld, WA, SA and NT combined, July 2008 to June 2010

1.12 HIV/AIDS, hepatitis and sexually transmissible infections

Bacterial STIs (including syphilis, chlamydia and gonorrhoea) can have serious long-term effects if not diagnosed or treated, such as infertility in women after gonorrhoea and chlamydia, and heart and brain damage caused by syphilis (Bowden et al. 2002; Couzos & Murray 2003). Hepatitis and Human immunodeficiency virus/acquired immunodeficiency syndrome (HIV/AIDS) are viral infections that can both be fatal. Several STIs (chlamydia, gonorrhoea, syphilis and donovanosis) are much more common for Aboriginal and Torres Strait Islander people than for other Australians.

Data are presented on the rates of notified sexually transmissible infections for chlamydia, gonorrhoea and syphilis, for Aboriginal and Torres Strait Islander people compared with other Australians using data from the National Notifiable Disease Surveillance System. Data for other STIs that are notifiable (donovanosis, hepatitis B and hepatitis C) are not presented due to poor coverage of Indigenous notifications for these diseases in Victoria.

No data is included for Victoria on HIV/AIDS notification rates due to the small number of cases.

- Between 2009 and 2011, there were 49,516 notifications of chlamydia, 2,542 notifications of syphilis and 5,114 notifications of gonorrhoea in Victoria, of which 0.7%, 0.9% and 0.7% were for Indigenous people, respectively.
- Notification rates for chlamydia and gonorrhoea were highest among Indigenous people aged 15–24 and notification rates for syphilis were highest among those aged 35–44 years (Figures 1.12.1, 1.12.2, 1.12.3).
- Notification rates in Victoria for chlamydia were generally lower among Indigenous people than among other people for all age groups, except in the two younger age groups for gonorrhoea, and in the 0– 14 age group for chlamydia (Figures 1.12.1, 1.12.2, 1.12.3).
- After adjusting for differences in age structure, notification rates for chlamydia and gonorrhoea among Indigenous people in Victoria were lower (0.8 and 0.9 rate ratios respectively); and almost twice as high for syphilis; when compared with those of other people in Victoria (Figure 1.12.4).
- Notification rates for chlamydia, gonorrhoea and syphilis were much lower among Indigenous people in Victoria than in New South Wales, Victoria, Queensland, Western Australia, South Australia and Northern Territory combined (Figure 1.12.4).

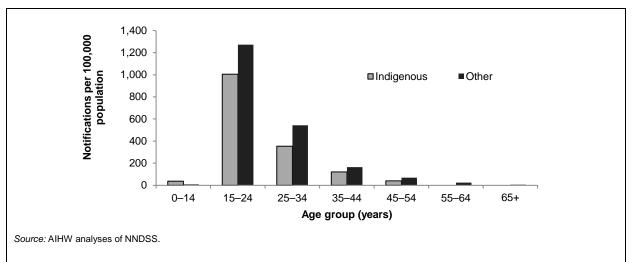
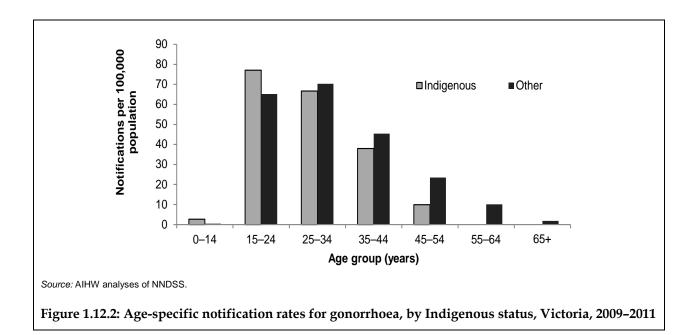
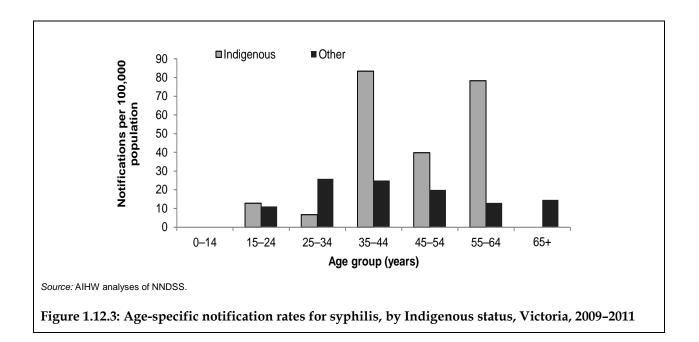


Figure 1.12.1: Age-specific notification rates for chlamydia, by Indigenous status, Victoria, 2009–2011





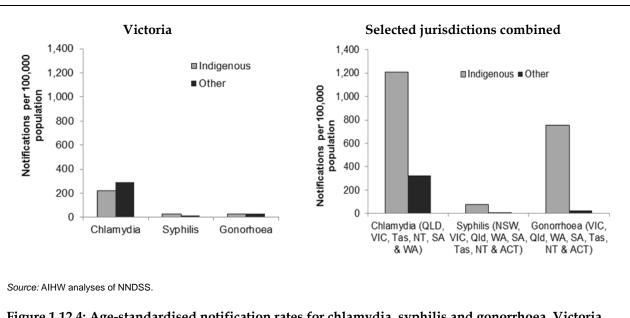


Figure 1.12.4: Age-standardised notification rates for chlamydia, syphilis and gonorrhoea, Victoria and selected jurisdictions combined, 2009–2011

Human function

A basic aspect of health and wellbeing is how well people function from day to day. The Aboriginal and Torres Strait Islander view of health recognises that achieving optimal conditions for health and wellbeing requires a holistic and whole-of-life view that encompasses the social, emotional and cultural wellbeing of the whole community (AIHW 2011a). This section presents information on four measures of human function: community functioning, disability, ear health and eye health.

1.13 Community functioning

Aboriginal and Torres Strait Islander people have long sought health outcomes encompassing the physical, social, cultural and emotional elements of life. This includes the ability to live proudly and freely as Aboriginal and Torres Strait Islander people. Functioning is about the things people achieve or experience, consistent with their account of wellbeing. The conversion of capabilities into functioning is influenced by the values and personal features of individuals, families and communities and by the environment in which they live. Hence it is likely that different cultures will give greater or lesser priority to different aspects of functioning (Office of Aboriginal Health et al. 2004).

Data are presented on selected measures of aspects of community functioning for Aboriginal and Torres Strait Islander people using data from the 2008 NATSISS.

Key findings

Connectedness to country, land and history; culture and identity

Of Indigenous people in Victoria aged 15 and over:

- 68% reported recognition of their homeland, 6% spoke an Aboriginal or Torres Strait Islander language, 53% had attended an Aboriginal and Torres Strait Islander cultural event in the last 12 months and 59% identified with a clan or language group.
- 89% felt able to have a say with family and friends some, most, or all of the time, 93% had contact with family or friends from outside their household at least once a week and 80% had friends to confide in (Table 1.13.1, Appendix 2).

Resilience

Of Indigenous people in Victoria aged 15 and over:

- 67% did not avoid situations due to past discrimination, 80% agreed that their doctor could be trusted and 67% agreed that the local school could be trusted.
- 33% of employed people said work allowed them to fulfil cultural responsibilities, 64% knew someone in an organisation they would feel comfortable contacting and 90% had participated in sport, social or community activities in the three months before the survey (Table 1.13.1, Appendix 2).

Leadership

In Victoria, 36% of children aged 3–14 had spent time with an Indigenous leader or Elder in the last week (Table 1.13.1, Appendix 2).

Having a role, structure and routine

Of Indigenous people in Victoria aged 15 and over, 79% had lived in only one dwelling in the last 12 months (Table 1.13.1, Appendix 2).

Feeling safe

In Victoria, of Indigenous people aged 15 and over, 78% felt safe at home alone after dark and 71% had not experienced physical and/or threatened violence in the last 12 months.

Vitality

Of Indigenous people in Victoria aged 15 and over:

- 44% had no disability or long-term health condition and 64% had experienced low/moderate levels of psychological distress in the 4 weeks before the survey.
- 74% said they could easily get to places as needed (Table 1.13.1, Appendix 2).

1.14 Disability

A disability may be an impairment of body structure or function, a limitation in activities, and/or a restriction in participation of a person in specific activities. Aboriginal and Torres Strait Islander people are at greater risk of disability in part because they may be more frequently subject to factors including low birthweight, chronic disease and infectious diseases (for example, otitis media, especially among young children). In addition, there may be increased risk of acquiring disability through accidents, injury and substance abuse.

Data are presented on the self-reported prevalence of disability among Aboriginal and Torres Strait Islander people using data from the 2008 NATSISS and the 2006 Census; and on the use of disability support services using data from the 2009–10 Disability Services National Minimum Data Set.

- According to the 2008 NATSISS, about 62% of Indigenous Australians aged 18 and over in non-remote areas of Victoria had a disability or long-term health condition. About 11% had a profound or severe core activity limitation, meaning that they always or sometimes needed assistance with at least one activity of everyday living (self-care, mobility or communication). These proportions were slightly higher than those reported for Indigenous Australians nationally (Figure 1.14.1).
- In non-remote areas of Victoria, Indigenous Australians aged 18 and over were 1.5 times as likely as non-Indigenous Australians to report having a disability or a long-term health condition. The differences in rates were more marked for profound/severe core activity limitation, with Indigenous Australians 2.2 times as likely as non-Indigenous Australians to have such a limitation (Figure 1.14.1).
- According to the 2006 Census, the proportion of Indigenous people who needed assistance with one or more core activities in the areas of self-care, mobility and communication, was 5.3% in Victoria and 4.3% in Australia (Figure 1.14.2).
- Indigenous people living in non-remote areas were less likely to report a core activity need for assistance than Indigenous people in remote areas (5.2% compared with 10.5% in Victoria) (Figure 1.14.2).
- After adjusting for differences in age structure, Indigenous people in Victoria were nearly twice as likely to have a core activity need for assistance as non-Indigenous people in 2006 (Figure 1.14.3).
- In 2009–10, Indigenous people in Victoria aged under 65 used disability support services at 5 times the rate of non-Indigenous people (83.5 compared with 16.8 per 1,000 population). The rate of disability service use was higher in Victoria than nationally for both Indigenous and non-Indigenous people (Table 1.14.1).

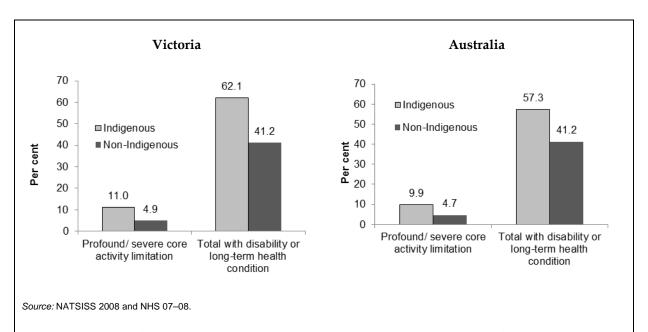


Figure 1.14.1: Disability status, by Indigenous status, persons aged 18 and over in non-remote areas, age-standardised rates, Victoria and Australia, 2008

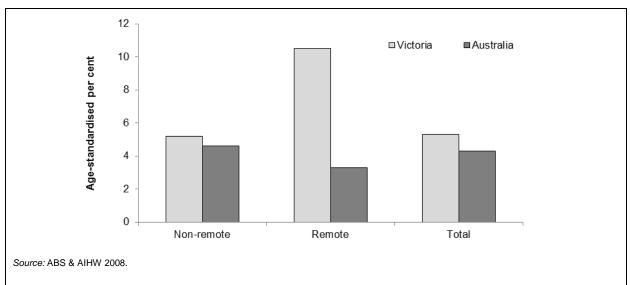


Figure 1.14.2: Proportion of people with a core activity need for assistance, Indigenous Australians, Victoria and Australia, 2006

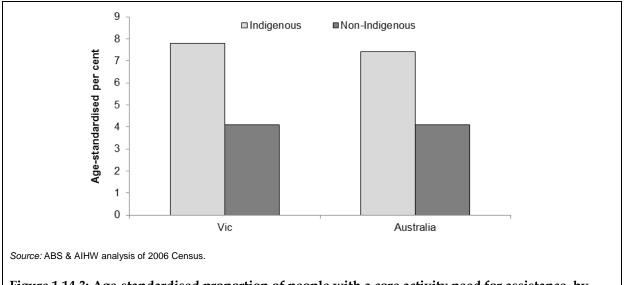


Figure 1.14.3: Age-standardised proportion of people with a core activity need for assistance, by Indigenous status, Victoria and Australia, 2006

Table 1.14.1: Users of disability support services, by Indigenous status and sex, persons aged under 65, Victoria and Australia, 2009–10

	Indigenous			No	n-Indigenoเ			
	Number	Crude no. per 1,000	Age std. no. per 1,000	Number	Crude no. per 1,000	Age std. no. per 1,000	Rate ratio	Rate difference
Vic								
Males	1,536	88.2	99.7	46,907	19.8	19.8	5.0	79.9
Females	1,020	58.3	67.6	32,594	13.9	13.7	4.9	53.8
Persons	2,557	73.3	83.5	79,551	16.9	16.8	5.0	66.7
Australia								
Males	8,472	31.4	33.2	150,896	16.0	16.1	2.1	17.1
Females	5,398	20.1	22.0	98,614	10.7	10.6	2.1	11.4
Persons	13,873	25.8	27.6	249,594	13.4	13.4	2.1	14.2

Source: Unpublished data from the 2009-10 Disability Services National Minimum Data Set.

1.15 Ear health

Hearing loss, especially in childhood, can lead to social and learning difficulties and behavioural problems in school, which may have a negative effect on educational outcomes. Hearing loss among Aboriginal and Torres Strait Islander people is widespread and much more common than in the broader Australian population.

Data are presented on children's ear health using self-reported prevalence data from the 2008 NATSISS and hospitalisation rates for diseases of the ear and mastoid process.

- According to the 2008 NATSISS, about 6% of Indigenous children aged 0–14 in Victoria had ear or hearing problems. This compared with almost 9% of Indigenous children nationally (Table 1.15.1, Appendix 2).
- Between July 2008 and June 2010, Indigenous people in Victoria were hospitalised with a
 principal diagnosis of diseases of the ear and mastoid process at 2.0 per 1,000 which was
 lower than for non-Indigenous people in Victoria (2.6 per 1,000), and lower than for
 Indigenous people in New South Wales, Victoria, Queensland, South Australia, Western
 Australia and the Northern Territory combined (3.3 per 1,000) (Table 1.15.2, Appendix 2).
- From 2004–05 to 2009–10 in Victoria, there were no significant changes in hospitalisation rates for diseases of the ear and mastoid process among Indigenous and non-Indigenous people (Figure 1.15.1).
- Over the same period in New South Wales, Victoria, Queensland, Western Australia, South Australia and the Northern Territory combined, there was a significant increase in hospitalisation rates for diseases of the ear and mastoid process among Indigenous people (average yearly increase of 0.2 hospitalisations per 1,000) and no significant change among non-Indigenous people (Figure 1.15.1).

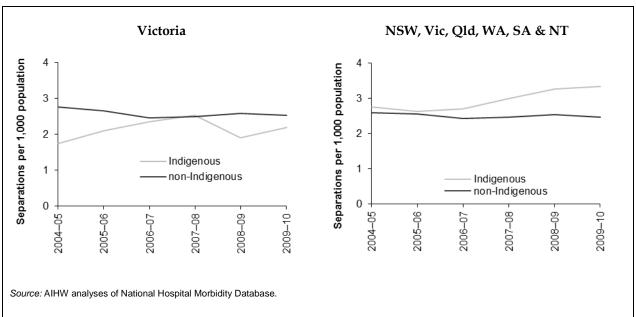


Figure 1.15.1: Age standardised hospitalisation rates for diseases of the ear and mastoid, by Indigenous status, Victoria and NSW, Vic, Qld, WA, SA & NT combined, 2004-05 to 2009-10

1.16 Eye health

The World Health Organization (WHO) and the Australian Government have identified eye health as an important health area. Although often being unnoticed, eye illnesses affect a large proportion of Australians of all ages. Indigenous Australian are reported to be at higher risk of vision loss than the general population with blindness rates among Indigenous population 6 times those among non-Indigenous/other Australians (Taylor et al 2011).

Data are presented on self-reported eye and sight problems among Aboriginal and Torres Strait Islander Australians using data from the 2008 National Indigenous Eye Health Survey; the 2008 NATSISS and hospitalisation rates for diseases of the eye and adnexa.

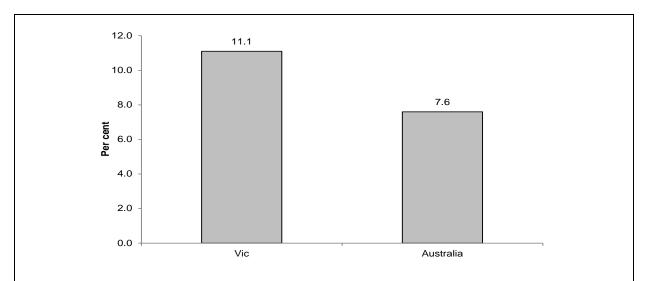
- The National Indigenous Eye Health Survey conducted in 2008 found, in Victoria, about 7% of Indigenous adults who participated in the survey had low vision and 7% were blind. Of those Indigenous adults with vision loss, the most common causes were refractive error (25%) and diabetic eye disease (25%) (Table 1.16.1). These data should be interpreted with caution due to small numbers.
- According to the 2008 NATSISS, about 11% of Indigenous children aged 1–14 in Victoria were reported to experience eye or sight problems. This proportion is lower than for Indigenous children in Australia (7.6%) (Figure 1.16.1).
- Between July 2008 and June 2010, Indigenous Australians in Victoria were hospitalised with a principal diagnosis of diseases of the eye and adnexa at a rate of 4.7 per 1,000 population, which was lower than the rate for non-Indigenous Australians (9.2 per 1,000) and lower than the rate for Indigenous Australians in New South Wales, Victoria, Queensland, Western Australia, South Australia and the Northern Territory combined (6.6 per 1,000) (Figure 1.16.2).

- From 2004–05 to 2009–10 in Victoria, there were no significant changes in hospitalisation rates for diseases of the eye and adnexa for both Indigenous and non-Indigenous Australians (Figure 1.16.3).
- Over the same period in New South Wales, Victoria, Queensland, Western Australia, South Australia and the Northern Territory combined, there was a significant increase in hospitalisation rates for diseases of the eye and adnexa for Indigenous (16%), and non-Indigenous Australians (15%) (Figure 1.16.3).

Table 1.16.1: Prevalence of vision loss in Indigenous adults surveyed, Victoria, 2008

			Cause of vision loss						
	Low vision	Blindness	Refractive error	Cataract	Diabetic eye disease	Other	Total		
Per cent	6.9	6.9	25.0	0.0	25.0	50.0	100.0		
Number	2	2	1	0	1	2	4		

Source: AIHW analysis of National Indigenous Eye Health Survey, 2008



Note: Includes not known responses.

Source: ABS 2008 NATSISS.

Figure 1.16.1: Proportion of Indigenous children aged 1–14 reporting eye or sight problems, Victoria and Australia, 2008

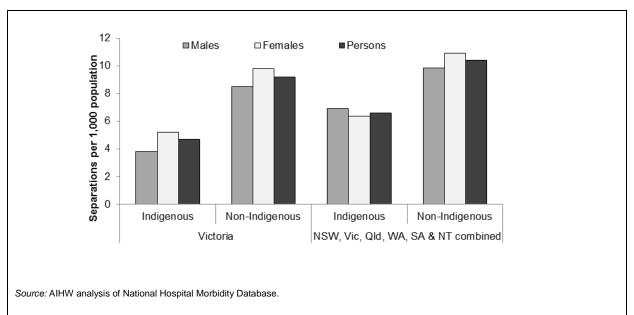


Figure 1.16.2: Age-standardised hospitalisations rate per 1,000 for principal diagnosis of diseases of the eye and adnexa, by Indigenous status and sex, Victoria and NSW, Vic, Qld, WA, SA and NT combined, 2008–09 to 2009–10

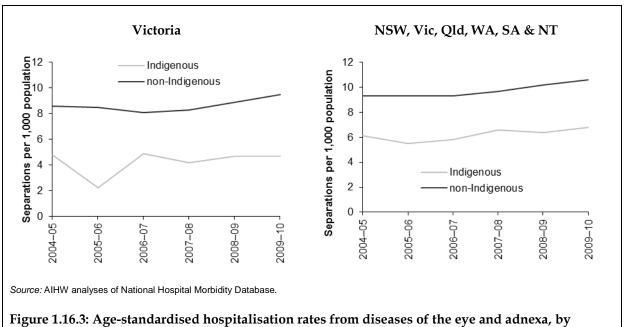


Figure 1.16.3: Age-standardised hospitalisation rates from diseases of the eye and adnexa, by Indigenous status, Victoria and NSW, Vic, Qld, WA, SA and NT combined, 2004–05 to 2009–10

Life expectancy and wellbeing

Research shows that persons in better health in general have a longer life expectancy than those in poorer health (Lubitz et al. 2003).

In the previous section, measures on specific health conditions have been analysed. In this section, data on perceived health status, social emotional wellbeing and life expectancy is presented.

1.17 Perceived health status

Self-assessed health status provides a measure of the overall level of a population's health based on individuals' personal perceptions of their own health.

Data are presented on the self-assessed health status of Aboriginal and Torres Strait Islander Australians compared with non-Indigenous Australians using data from the 2008 NATSISS and 2007–08 National Health Survey (NHS).

Key findings

- In 2008 after adjusting for differences in age structure between the Indigenous and non-Indigenous populations, Indigenous people in Victoria were more likely than non-Indigenous people to report their health as fair or poor, and less likely to report their health as excellent or very good. A similar pattern is evident for Australia (Figure 1.17.1).
- The proportion of Indigenous people reporting fair or poor health was slightly higher in Victoria than for Australia (30% compared with 28%) (Figure 1.17.1).
- In Victoria, the proportion of Indigenous people reporting excellent or very good health decreased with age being highest among those aged 15–24 (60%) and lowest among those aged 55 and over (31%) (Table 1.17.1, Appendix 2).

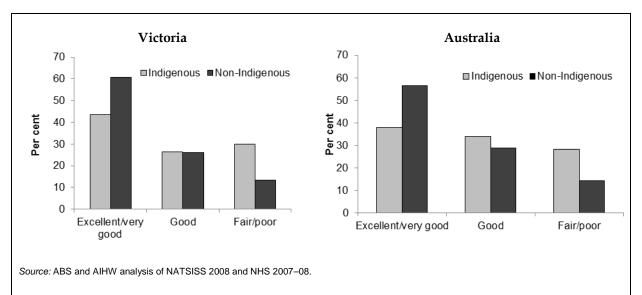


Figure 1.17.1: Self-assessed health status (age-adjusted), people aged 15 and over, by Indigenous status, Victoria and Australia, 2008

1.18 Social and emotional wellbeing

Social and emotional wellbeing is a holistic concept related to individual, family and community experience. For Aboriginal and Torres Strait Islander people, health is not just the physical wellbeing of the individual but the 'social, emotional and cultural wellbeing of the whole community' (Social Health Reference Group 2004).

Data are presented on levels of psychological distress among Indigenous adults; and selected positive life events experienced by Indigenous children using data from the 2008 NATSISS. Hospitalisation rates for mental health-related conditions are also presented.

- According to the 2008 NATSISS, 35% of Indigenous people aged 18 and over in Victoria reported high/very high levels of psychological distress. This was slightly higher than the proportion reported for Indigenous people nationally (32%) (Figure 1.18.1).
- After adjusting for differences in age structure, Indigenous adults in Victoria were 2.7 times as likely to report high/very high levels of psychological distress as non-Indigenous adults in 2008.
- In 2008, about 77% of Indigenous people aged 18 and over in Victoria reported feeling calm and peaceful all/most/some of the time; about 87% reported feeling happy all/most/some of the time; 74% reported full of life all/most/some of the time and 70% reported having lots of energy all/most/some of the time (Table 1.18.1. Appendix 2).
- In 2008, 71% of Indigenous children in Victoria aged 4 to 14 reported experiencing selected positive life events in the last 12 months, which was higher than the proportion nationally (62%) (Table 1.18.2, Appendix 2). A positive life event was defined as whether the child received an award, prize or other recognition; whether the child had a positive experience with the police; or whether the child went on a holiday or trip away.
- Between July 2008 and June 2010 in Victoria, Indigenous males and females had higher hospitalisation rates for mental health-related conditions than non-Indigenous males and females across all age groups with the exception of the 0–4, 55–64 and 65 and over age groups (Figure 1.18.2).
- Hospitalisation rates for mental health-related conditions were highest among those aged 35–44 for Indigenous males (46 per 1,000) in Victoria and highest among those aged 55–64 for Indigenous females (61 per 1,000) in Victoria (Figure 1.18.2).
- Hospitalisation rates for mental health-related conditions for Indigenous people in Victoria were similar to Indigenous people in New South Wales, Victoria, Queensland, Western Australia, South Australia and the Northern Territory combined (26.8 and 26.7 per 1,000 population) (Table 1.18.3, Appendix 2).
- After adjusting for differences in age structure in Victoria, Indigenous males were 1.7 times as likely as non-Indigenous males, and Indigenous females were 1.4 times as likely as non-Indigenous females, to be hospitalised for mental health-related conditions (Table 1.18.3, Appendix 2).
- The majority of Indigenous hospitalisations in Victoria due to mental health-related conditions were for mood disorders (29%) and mental and behavioural disorders due to psychoactive substance use (26%). Indigenous people were hospitalised at 1.3 and 2.6 times the rate of non-Indigenous people for these conditions, respectively (Table 1.18.4, Appendix 2).
- In the short term, between 2004–05 and 2009–10, there were no significant changes in hospitalisation rates for mental health-related conditions among Indigenous and non-Indigenous people in Victoria. Over the same period in New South Wales, Victoria, Queensland, Western Australia, South Australia and the Northern Territory combined, there was a significant increase in hospitalisation rates for mental health-related among Indigenous people (9.4%) and non-Indigenous people (4.1%) (Figure 1.18.3).

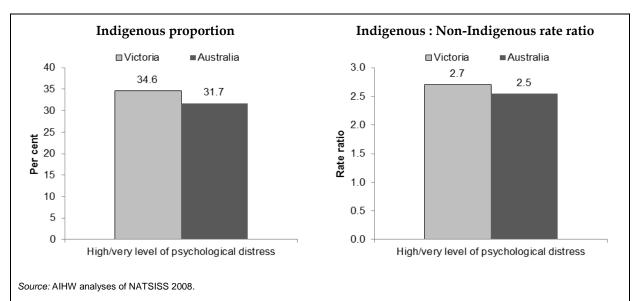


Figure 1.18.1 Proportion of Indigenous persons aged 18 and over who reported high/very high levels of psychological distress, Victoria and Australia, 2008

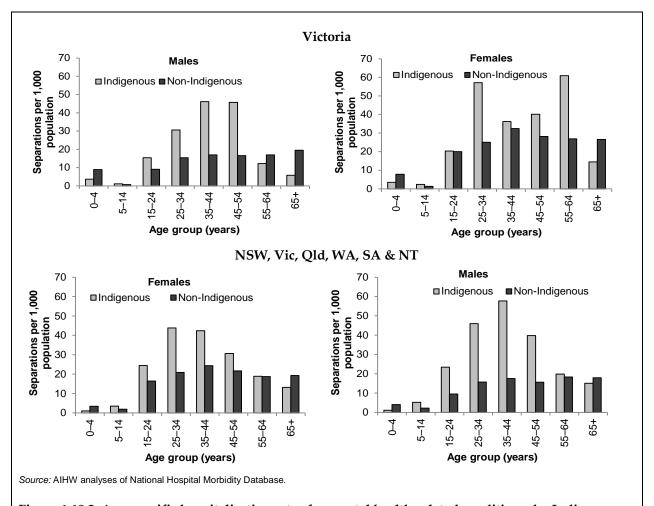
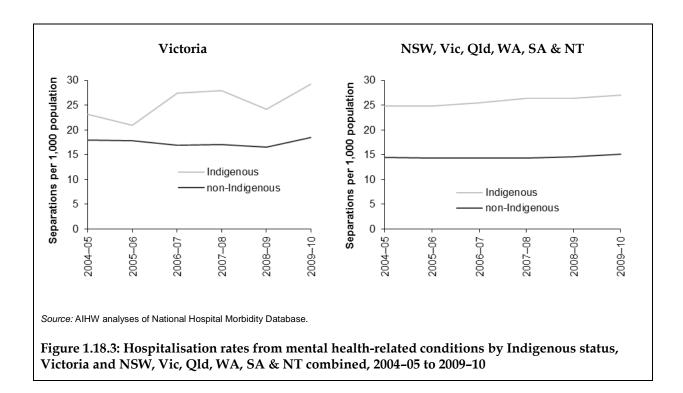


Figure 1.18.2: Age-specific hospitalisation rates for mental health-related conditions, by Indigenous status and sex, Victoria and NSW, Vic, Qld, WA, SA & NT combined, July 2008 to June 2010



Part 2 – Determinants of health

Environmental factors

- 2.01 Housing
- 2.02 Access to functional housing with utilities
- 2.03 Environmental tobacco smoke

Socioeconomic factors

- 2.04 Literacy and numeracy
- 2.05 Education outcomes for young people
- 2.06 Educational participation and attainment of adults
- 2.07 Employment
- 2.08 Income
- 2.09 Index of disadvantage

Community capacity

- 2.10 Community safety
- 2.11 Contact with the criminal justice system
- 2.12 Child protection
- 2.13 Transport
- 2.14 Indigenous people with access to their traditional lands

Health behaviours

- 2.15 Tobacco use
- 2.16 Risky alcohol consumption
- 2.17 Drug and other substance use including inhalants
- 2.18 Physical activity
- 2.19 Dietary behaviour
- 2.20 Breastfeeding practice
- 2.21 Health behaviours during pregnancy including antenatal care
- 2.22 Overweight and obesity

The second part of this report, Determinants of health, presents Tier 2 measures of the Aboriginal and Torres Strait Islander Health Performance Framework. It covers measures that impact on health outcomes such as housing, education, employment and health risk factors including smoking and alcohol use. Data are presented on the key determinants of health in the Aboriginal and Torres Strait Islander population, with comparisons to the non-Indigenous population where data are available. Tier 2 comprises four sections: Environmental factors, Socioeconomic factors, Community capacity and Health behaviours.

Environmental factors

This section focuses on environmental factors that affect health outcomes, such as conditions of housing, access to functional housing with utilities and environmental tobacco smoke.

2.01 Housing

Factors related to housing, such as overcrowding in housing and housing tenure type, have potentially significant impacts on health. Living in overcrowded households may increase the risk of infectious diseases, such as meningitis, acute rheumatic fever, tuberculosis, and skin and respiratory infections (AIHW 2005). Overcrowding has also been associated with poorer self-reported physical and mental health, and higher rates of smoking and hazardous drinking (Shaw 2004). People who own their own home typically experience better health than those who rent (Hulse et al 2010). Indigenous home ownership rates are relatively low compared with non-Indigenous households. This partly reflects the lower socioeconomic status of many Indigenous households, as well as cultural differences in regarding the value of home ownership (AIHW 2011a).

Data are presented on rates of overcrowding and housing tenure for Indigenous and non-Indigenous people and households using data from the 2006 Census and 2008 NATSISS. Data on clients of specialist homelessness services from the Supported Accommodation Assistance Program data collection is also presented.

Canadian National Occupancy Standard for overcrowding

Data presented on overcrowding are based on the Canadian National Occupancy Standard of housing overcrowding, the measure most widely used in Australia. This standard specifies the number of bedrooms required in a dwelling based on the numbers, age, sex and relationships of household members. Households that require one more bedroom to meet the standard are considered to experience overcrowding (AIHW 2005).

- According to the 2008 NATSISS, an estimated 1,170 Indigenous households were overcrowded in Victoria in 2008. About 11% of Indigenous people aged 15 and over were living in overcrowded households, compared with 4% of non-Indigenous people. The proportion of Indigenous people living in overcrowded households in Victoria was much lower than that reported nationally (11% and 25% respectively) (Figure 2.01.1; Table 2.01.1 Appendix 2).
- Overcrowding varied by tenure type, with 16% of Indigenous households in housing cooperative, community or church group housing overcrowded. This compared with 12% of Indigenous households in state or territory housing authority housing overcrowded based on data from the 2006 Census. This compared with 10% of private and other renters and 6% of home owners or buyers (Table 2.01.1, Appendix 2).
- In 2008 in Victoria, about 43% of Indigenous households owned or were buying their own home, 30% were private and other renters, and 26% were renters of some form of social housing (state or territory housing authority/housing cooperative or church group/Indigenous housing organisation or community housing). This compared with 69% of non-Indigenous households who owned or were buying their home, 23% private

- and other renters, and 3% renters of some form of social housing (Table 2.01.2, Appendix 2).
- A higher proportion of Indigenous people aged 18 and over in Victoria were home owners or buyers than Indigenous people nationally (44% compared with 29%) and a lower proportion were renters (55% in Victoria compared with 69% nationally) (Figure 2.01.2).
- In 2009–10, there were 72,768 support periods for clients of specialist homeless services in Victoria who identified as Aboriginal or Torres Strait Islander. This represented 6% of all support periods of clients of these services in Victoria (Table 2.01.3, Appendix 2).

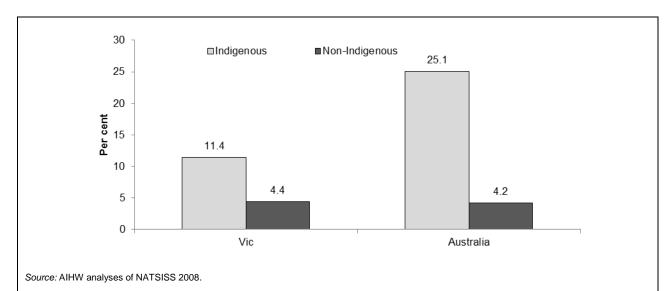


Figure 2.01.1: Proportion of people aged 15 and over living in overcrowded households, by Indigenous status, Victoria and Australia, 2008

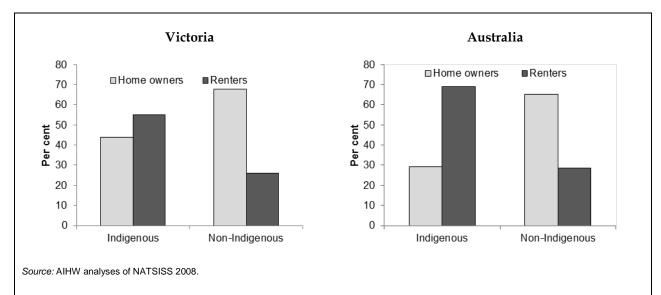


Figure 2.01.2: Proportion of people aged 18 and over, by tenure type and Indigenous status, Victoria and Australia, 2008

2.02 Access to functional housing with utilities

Research on housing and health shows a relationship between inadequate housing and related infrastructure and poor health outcomes (Atkinson et al. 2007). Lack of access to clean water, adequate sanitation and reliable electricity services are associated with higher rates of infectious diseases (ABS & AIHW 2008). Having access to basic household amenities—such as washing people and clothes/bedding, safe storage and preparation of food, and safe waste removal—is important to ensuring a healthy living environment. These facilities are more likely to be of poor quality or unavailable in Indigenous households.

Data are presented on the functionality of Indigenous housing facilities which are required to support healthy living practices using data from the 2008 NATSISS. Note that this data is self-reported and should be interpreted with caution.

Key findings

- In 2008 in Victoria, 1.7% of Indigenous households reported that they did not have working facilities for washing people, 6.1% did not have facilities for washing clothes/bedding, 4.3% did not have facilities for storing/preparing food, and 2.1% did not have working sewerage systems (Figure 2.02.1).
- In 2008 in Australia, 1.5% of Indigenous households reported that they did not have working facilities for washing people, 6% did not have facilities for washing clothes/bedding, 6.2% did not have facilities for storing/preparing food, and 1.6% did not have working sewerage systems (Figure 2.02.1).

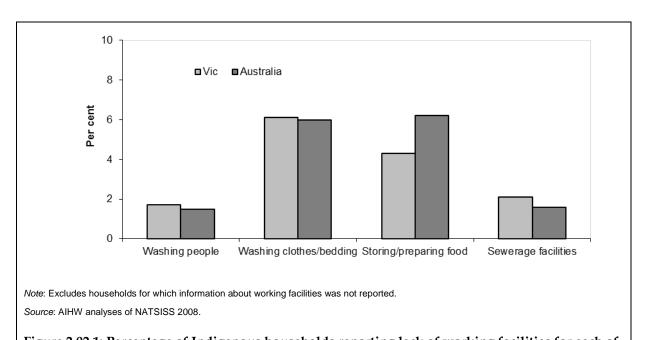


Figure 2.02.1: Percentage of Indigenous households reporting lack of working facilities for each of the first four healthy living practices, Victoria and Australia, 2008

2.03 Environmental tobacco smoke

Environmental tobacco smoke, or passive smoking, is a significant cause of morbidity and mortality. There is strong and consistent evidence that passive smoking increases a non-smoker's risk of lung cancer and ischaemic heart disease. Passive smoking is also associated

with increased risk of respiratory conditions and otitis media in children (Thomson et al. 2012; Jacoby et al. 2008) and of respiratory disease in adults (NHMRC 1997).

Data are presented on the proportion of Aboriginal and Torres Strait Islander children aged 0–14 years who live in households with regular smokers using data from the 2008 NATSISS.

Key findings

- In 2008 in Victoria, about 65% of Indigenous children aged 0–14 lived in households with a daily smoker, compared with 30% of non-Indigenous children the same age (Table 2.03.1). In the same period nationally, about 65% of Indigenous children aged 0–14 lived in households with a daily smoker, compared with 32% of non-Indigenous children.
- About 21% of Indigenous children aged 0–14 in Victoria were living in households with a daily smoker who smoked at home indoors, compared with 5% of non-Indigenous children of the same age. The proportions nationally were 22% for Indigenous children and 7% for non-Indigenous children of the same age.

Table 2.03.1: Children aged 0-14 living in households with smokers, by Indigenous status of children, Victoria and Australia, 2008 and 2007-08

			Victoria	Australia
Proportion of children living with daily smoker(s) ^(a)	Indigenous	%	65.0	65.1
	Non-Indigenous	%	29.6	32.2
	Rate ratio		2.2*	2.0*
Proportion of children with daily smoker who smokes at home				
indoors in household ^(a)	Indigenous	%	21.4	21.6
	Non-Indigenous	%	5.1	6.6
	Rate ratio		4.2*	3.3*
Total number of children aged 0–14 ^(b)	Indigenous	No.	12,430	193,249
	Non-Indigenous	No.	970,599	3,907,621

⁽a) Proportions exclude not stated responses.

Source: ABS and AIHW analysis of NATSISS 2008 and NHS 2007-08.

Socioeconomic factors

Socioeconomic factors of a population refer to characteristics such as education, employment and income. Their influence on health is both complex and profound. Socioeconomically disadvantaged people (such as those with low income or poor education) tend to live shorter and less healthy lives. Having a low income and/or lower levels of education limits choices and opportunities for improving health outcomes, and may influence other health-related factors, such as diet and access to health care.

This section focuses on socioeconomic factors that affect the health of Aboriginal and Torres Strait Islander people, such as literacy and numeracy, education outcomes for young people, educational participation and attainment of adults, employment, income and transport.

⁽b) Includes households in which the smoking status of members was not stated.

2.04 Literacy and numeracy

Poor literacy and numeracy skills can severely compromise children's ability to engage in school learning, to undertake future learning, to be successfully employed and to positively participate in society (Cope & Kalantzis 2000). Students who do not attain minimum standards for literacy and numeracy in the early years of schooling may have difficulty progressing further, and are less likely to enter higher education.

One of the six COAG targets is to halve the gap in reading, writing and numeracy achievements for Indigenous children within a decade (by 2018).

Data are presented on the proportion of Year 3, 5, 7 and 9 students achieving national benchmarks for literacy and numeracy using data from the National Assessment Program — Literacy and Numeracy (NAPLAN).

Key findings

Reading

• In Victoria in 2011, 88% of Year 3 Indigenous students achieved the reading benchmark, compared with 96% of non-Indigenous students; 83% of Year 5 Indigenous students achieved the reading benchmark, compared with 95% of non-Indigenous students; 88% of Year 7 Indigenous students achieved the reading benchmark, compared with 96% of non-Indigenous students; and 83% of Year 9 Indigenous students achieved the reading benchmark, compared with 94% of non-Indigenous students. The proportions of Indigenous students having achieved reading benchmarks were higher in Victoria than nationally for all of the four year levels (Table 2.04.1).

Writing

• In Victoria in 2011, 91% of Year 3 Indigenous students achieved the writing benchmark, compared with 97% of non-Indigenous students; 83% of Year 5 Indigenous students achieved the writing benchmark, compared with 95% of non-Indigenous students; 74% of Year 7 Indigenous students achieved the writing benchmark, compared with 92% of non-Indigenous students; and 67% of Year 9 Indigenous students achieved the writing benchmark, compared with 88% of non-Indigenous students. The proportions of Indigenous students having achieved writing benchmarks were higher in Victoria than nationally for all of the four year levels (Table 2.04.1).

Spelling

• In Victoria in 2011, 87% of Year 3 Indigenous students achieved the spelling benchmark, compared with 95% of non-Indigenous students; 80% of Year 5 Indigenous students achieved the spelling benchmark, compared with 94% of non-Indigenous Students; 84% of Indigenous Year 7 students achieved the spelling benchmark, compared with 94% of non-Indigenous students; and 78% of Year 9 Indigenous students achieved the spelling benchmark, compared with 92% of non-Indigenous students. The proportions of Indigenous students having achieved spelling benchmarks were higher in Victoria than nationally for all of the four year levels (Table 2.04.1).

Grammar and punctuation

• In Victoria in 2011, 87% of Year 3 Indigenous students achieved the grammar and punctuation benchmark, compared with 96% of non-Indigenous students; 82% of Year 5 Indigenous students achieved the grammar and punctuation benchmark, compared with 95% of non-Indigenous students; 81% of Year 7 Indigenous students achieved the

grammar and punctuation benchmark, compared with 95% of non-Indigenous students; and 72% of Year 9 Indigenous students achieved the grammar and punctuation benchmark, compared with 92% of non-Indigenous students. The proportions of Indigenous students having achieved grammar and punctuation benchmarks were higher in Victoria than nationally for all of the four year levels (Table 2.04.1).

Numeracy

• In Victoria in 2011, 90% of Year 3 Indigenous students achieved the numeracy benchmark, compared with 97% of non-Indigenous students; 86% of Year 5 Indigenous students achieved the numeracy benchmark, compared with 96% of non-Indigenous students; 86% of Year 7 Indigenous students achieved the numeracy benchmark, compared with 96% of non-Indigenous students; and 80% of Year 9 Indigenous students achieved the numeracy benchmark, compared with 95% of non-Indigenous students. The proportions of Indigenous students having achieved numeracy benchmarks were higher in Victoria than nationally for all of the four year levels (Table 2.04.1).

Trends over time

• Between 2008 and 2011 in Victoria, there was little change in the proportion of Indigenous students achieving the Year 3 and 5 literacy and numeracy benchmarks. There was however a notable increase in the proportion of Indigenous Year 7 students achieving the grammar and punctuation benchmark (from 76% in 2008 to 81% in 2011), and the proportion of Year 9 students achieving the spelling benchmark (from 71.6% to 77.9%) (Table 2.04.1, Appendix 2).

Table 2.04.1: Proportion of Year 3, 5, 7 and 9 students at or above the national minimum standard for reading, writing, spelling, grammar & punctuation, and numeracy, by Indigenous status, Victoria and Australia, 2011

		s	Non-Indigenous							
	Reading	Writing	Spelling	Grammar & punctuation	Numeracy	Reading	Writing	Spelling	Grammar & punctuation	Numeracy
					Victoria					
Year 3	88.2	91.3	86.5	86.5	89.6	95.7	96.6	95.3	95.6	96.6
Year 5	83.1	83.3	80.3	82.3	86.1	94.7	94.7	93.6	95.1	95.9
Year 7	87.8	74.0	83.8	81.1	86.3	96.1	92.1	93.9	94.9	96.1
Year 9	83.2	66.7	77.9	72.1	80.3	94.2	88.0	91.8	92.4	94.8
					Australia					
Year 3	76.3	79.9	71.7	70.9	83.6	94.9	96.2	94.1	94.4	96.4
Year 5	66.4	68.9	68.8	64.8	75.2	92.9	93.9	92.6	93.6	95.5
Year 7	77.1	66.9	73.8	67.0	76.5	95.7	92.6	93.5	94.3	95.5
Year 9	71.9	55.0	72.2	61.2	72.0	93.5	86.4	91.6	91.5	94.1

Source: Ministerial Council for Education, Early Childhood Development and Youth Affairs (MCEECDYA) 2008; MCEECDYA 2009-2011.

2.05 Education and outcomes for young people

Access to education by young people is an important determinant of health and wellbeing. Successful completion of Year 12 is critical to improving socioeconomic status. Higher levels of education improve employment prospects, future income, standard of housing and access to health care (ABS 2002; SCRGSP 2007; ABS & AIHW 2008). Higher levels of education have also been associated with reduced propensity to engage in risky health behaviours. COAG has committed to halve the gap in Indigenous Year 12 or equivalent attainment by 2020.

Data are presented on Year 10 and 12 retention rates and Year 12 attainment rates for Aboriginal and Torres Strait Islander people using data from the National Schools Statistics Collection.

Apparent retention and attainment rates

Apparent retention rates are the percentage of full-time students of a given cohort group who continue from the beginning of secondary schooling to a specified year level. The term apparent is used as the retention rate does not account for students repeating a year of school or migrating in or out of the Australian school student population or between states/territories.

Attainment rates are the proportion of Year 11 students who went on to achieve a Year 12 certificate.

- In 2011 in Victoria, the apparent retention rate of full-time Indigenous students from Year 7–8 to Year 10 was 91% for males and 99% for females compared with 100% for non-Indigenous males and 102% for non-Indigenous females.
- The apparent retention rate from Year 7–8 to Year 11 was 70% for Indigenous males and 83% for Indigenous females, compared with 91% and 98% for non-Indigenous males and females, respectively.
- The apparent retention rate from Year 7–8 to Year 12 for Indigenous students was much lower than for non-Indigenous students 45% for Indigenous males and 50% for Indigenous females compared with 77% for non-Indigenous males and 89% for non-Indigenous females.
- The apparent retention rate from Year 10 to Year 12 was also much lower for Indigenous students (87% for males and 96% for females, compared with 101% for both non-Indigenous males and females).
- In 2011, 69% of Indigenous male Year 11 students and 71% of Indigenous female Year 11 students went on to achieve a Year 12 certificate in Victoria. This compared with 85% and 90% of non-Indigenous male and female Year 11 students.
- Apparent retention and attainment rates for Indigenous students in Victoria were similar to the national rates for Indigenous students with the exception of Year 7–8 to Year 10 retention for males for which rates for Indigenous students in Victoria were lower; Year 7–8 to Year 12 females, for which rates for Indigenous students in Victoria were higher; and Year 10 to Year 12 males and females, for which rates for Indigenous students in Victoria were much higher than for Indigenous students nationally (Table 2.05.1).

Table 2.05.1: Apparent retention and attainment rates, by Indigenous status and sex, Victoria and Australia, 2011(a)(b)(c)

	Victoria	1	Au	stralia
	Indigenous	Non-Indigenous	Indigenous	Non-Indigenous
	Per cen	t	Pe	r cent
Year 7-8 to Year 10 ^(a)				
Males	91.3	100.0	98.4	100.7
Females	98.6	101.6	99.0	101.8
Year 7-8 to Year 11 ^(a)				
Males	69.9	91.1	71.4	91.1
Females	82.8	98.4	75.2	96.5
Year 7-8 to Year 12 ^(a)				
Males	44.8	76.5	46.1	75.9
Females	49.9	88.6	51.3	85.8
Year 10 to Year 12 ^(b)				
Males	86.8	100.8	51.5	76.4
Females	95.7	101.0	55.6	84.9
Year 11 to Year 12 ^(c)				
Males	68.7	85.0	66.4	84.2
Females	70.5	90.0	68.5	89.1

⁽a) Retention rate = Year 10, 11 or 12 students as a proportion of the corresponding cohort from the first year of secondary schooling (Year 7–8).

Source: ABS 2010; ABS and AIHW analysis of National Schools Statistics Collection (NSSC).

2.06 Educational participation and attainment of adults

People who go on to higher education (universities and other tertiary institutions) and graduate with a degree or diploma are more likely to obtain full-time work and earn higher incomes than those who do not. Likewise people who complete a vocational education and training (VET) course are more likely to be employed after the completion of their course than they were before (SCRGSP 2007).

Data are presented on educational participation (people undertaking formal education or training) and educational attainment (people who have completed a particular level of school education or post-school qualification) of Aboriginal and Torres Strait Islander adults compared with non-Indigenous adults using data from the 2008 NATSISS.

- In 2008 in Victoria, the proportion of Indigenous people aged 15 and over who were studying was higher than that for non-Indigenous people (25% compared with 16%). Nationally, 19% of Indigenous people and 16% of non-Indigenous people aged 15 and over were studying (Table 2.06.1).
- A higher proportion of Indigenous people from Victoria attended secondary school or a technical institution in 2008 than non-Indigenous people, while a lower proportion of

⁽b) Retention rate = Year 12 students as a proportion of the corresponding cohort from Year 10.

⁽c) Retention rate = Year 12 students as a proportion of the corresponding cohort from Year 11.

- Indigenous people attended a university or other higher education than non-Indigenous people (Table 2.06.1).
- Non-Indigenous people aged 18 and over were more likely than Indigenous people to have completed Year 12 (55% compared with 29%) in Victoria in 2008. A higher proportion of Indigenous adults than non-Indigenous adults in Victoria reported that the highest year of school completed was Year 9 or below (29% compared with 17%). The proportion of Indigenous people who completed Year 12 was higher in Victoria than nationally (29% compared with 23%) (Figure 2.06.1).
- In Victoria in 2008, about 57% of Indigenous people aged 25–64 had a post-school qualification compared with 62% of non-Indigenous people. The most commonly held qualification for Indigenous people was a certificate course and for non-Indigenous people a bachelor degree (Table 2.06.2).

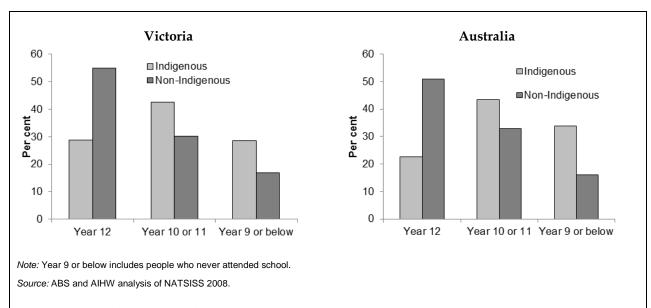


Figure 2.06.1: Highest level of school completed, by Indigenous status, people aged 18 and over, Victoria and Australia, 2008

Table 2.06.1: Educational institution currently attended, by Indigenous status, people aged 15 and over, Victoria and Australia, 2008

	Educational participation		Secondary school	TAFE/technical college/ business college/industry skills centre	University/other higher education	Total currently studying ^(a)	Not studying	Total ^(a)	Total number
Victoria	Indigenous	%	9.3*	8.1*	5.2	25.0*	75.0*	100	21,938
	Non-Indigenous	%	4.4*	4.6*	6.1	16.1*	83.9*	100	4,157,596
	Rate ratio		2.1	1.8	0.9	1.6	0.9		
Australia	Indigenous	%	8.4*	6.0*	2.7*	19.0*	81.0*	100	327,101
	Non-Indigenous	%	4.2*	4.6*	5.6*	15.6*	84.4*	100	16,374,202
	Rate ratio		2	1.3	0.5	1.2	1		

^{*} Represents results with statistically significant differences in the Indigenous/non-Indigenous comparisons.

Source: ABS and AIHW analysis of NATSISS 2008.

Table 2.06.2: Whether has a post-school qualification, by Indigenous status, people aged 25-64, Victoria and Australia, 2008

	Highest pos scho qualification	ol	Bachelor degree or above ^(b)	Advanced diploma/ diploma	Certificate	Total with post-school qualification ^(c)	Does not have a post-school qualification	Total	Total number of people
Victoria	Indigenous	%	10.8*	9.3	32.3*	57.4*	42.6	100	13,668
	Non-Indigenous	%	26.4*	11.4	22.3*	61.6*	38.4	100	2,769,652
	Rate ratio		0.4	0.8	1.4	0.9	1.1	1	
Australia	Indigenous	%	6.5*	5.6*	24.7	40.2*	59.9*	100	207,342
	Non-Indigenous	%	24.9*	9.8*	24.9	61.4*	38.6*	100	10,997,331
	Rate ratio		0.3	0.6	1	0.7	1.6		

^{*} Represents results with statistically significant differences in the Indigenous/non-Indigenous comparisons.

Source: NATSISS 2008 and NHS 2007-08.

⁽a) Includes other educational institution, not further defined.

⁽a) As classified to the ABS Classification of Qualifications.

⁽b) Includes bachelor degree, doctorate, masters, graduate diploma and graduate certificate.

⁽c) Includes people with a post-school qualification undetermined.

2.07 Employment

Participation in employment has important consequences for living standards and social and emotional wellbeing, including self-esteem, opportunities for self-development and participation in the community. Long periods out of the workforce can have negative effects on an individual's health (both physical and psychological) (McLure, 2000).

Aboriginal and Torres Strait Islander people have relatively low levels of employment, due to several factors. For those living in remote locations, there are few employment opportunities because of a lack of viable industries and enterprises. Lower educational levels can also restrict employment opportunities in remote and non-remote areas (AIHW 2011a).

Data are presented on the employment status of Aboriginal and Torres Strait Islander people aged 15–64 compared with non-Indigenous Australians using data from the 2008 NATSISS and 2007–08 NHS.

- In 2008 in Victoria, the labour force participation rate for Indigenous people aged 15–64 was estimated to be 66%, with 17% of those in the labour force unemployed and looking for full-time or part-time work. In comparison, the labour force participation rate for non-Indigenous people was 79%, with 3% of non-Indigenous participants unemployed (Figure 2.07.1).
- The labour force participation rate for Indigenous people aged 15–64 was slightly higher in Victoria than nationally (66% compared with 65%, while the unemployment rates was similar (17% in Victoria and nationally).
- An estimated 55% of Indigenous people aged 15–64 were employed in Victoria in 2008 (0.5% in Community Development Employment Projects, or CDEP, and 55% in non-CDEP) and 11% were unemployed. Of the non-Indigenous population, 77% were employed and 2% were unemployed (Table 2.07.1).

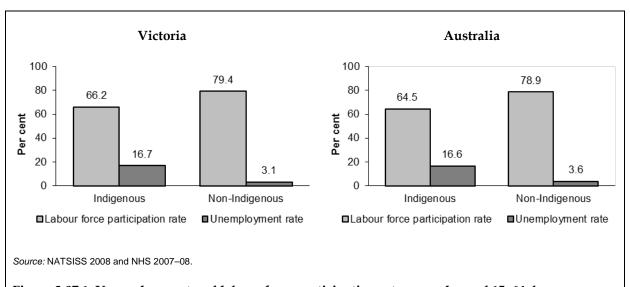


Figure 2.07.1: Unemployment and labour force participation rates, people aged 15-64, by Indigenous status, Victoria and Australia, 2008

Table 2.07.1: Labour force status of people aged 15–64, by Indigenous status, Victoria and Australia, 2008

	,	/ictoria		Australia
	Indigenous	Non-Indigenous	Indigenous	Non-Indigenous
	F	Per cent		Per cent
In the labour force				
Employed CDEP	*0.5		5.6	
Employed non-CDEP	54.6		48.2	
Total employed	55.1	77.0	53.8	76.0
Unemployed	11.1	2.4	10.7	2.9
Not in the labour force	33.8	20.6	35.5	21.1
Total	100.0	100.0	100.0	100.0

^{*} Estimate has a relative standard error between 25% and 50% and should be used with caution.

Source: NATSISS 2008 and NHS 2007-08.

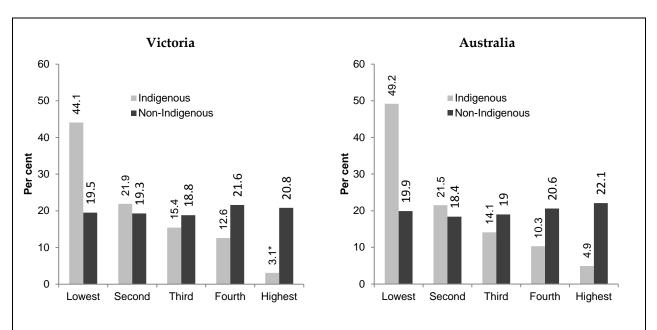
2.08 Income

Low income is associated with a wide range of disadvantages, including shorter life expectancy, low levels of education, substance abuse, reduced social participation, and contact with the criminal justice system. People with lower socioeconomic status, including many Aboriginal and Torres Strait Islander people, also have poorer health status and a significantly higher burden of disease (Begg et al. 2007).

Data are presented on equivalised gross household and individual income of Aboriginal and Torres Strait Islander people using data from the 2008 NATSISS and 2007–08 Survey of Income and Housing.

Equivalised gross household income refers to the amount of income per household after adjusting for household size.

- According to the NATSISS, in 2008, 44% of Indigenous people aged 18 and over in Victoria were in the lowest quintile (most disadvantaged) of equivalised gross weekly household income and 3% were in the highest (least disadvantaged). The proportion of non-Indigenous people was similar across all five quintiles, with 20% in the lowest quintile and 21% in the highest (Figure 2.08.1). This same pattern was evident nationally, with 50% of Indigenous people aged 18 years and over in the lowest quintile and 5% in the highest.
- In 2008 in Victoria, the mean equivalised gross weekly household income for Indigenous people aged 18 and over was \$635 per week, compared with \$957 per week for non-Indigenous people. Nationally, the mean equivalised gross weekly household income for Indigenous people aged 18 and over was \$580, compared with \$983 for non-Indigenous people (Figure 2.08.2).



 $^{^{\}star}$ Estimate has a relative standard error between 25% and 50% and should be used with caution.

- (a) Equivalised gross household income quintile boundaries for Indigenous Australians are: first (0 to \$435); second (\$436 to \$686); third (\$687 to \$952); fourth (\$953 to \$1,380); and fifth (\$1,381 or more).
- (b) Equivalised gross household income quintile boundaries for non-Indigenous Australians are: first (0 to \$423); second (\$424 to \$666); third (\$667 to \$925); fourth (\$926 to \$1,341); and fifth (\$1,342 or more).
- (c) Proportions excluding people whose gross household income is not stated.

Source: NATSISS 2008 and SIH 2007-08.

Figure 2.08.1: Proportion of people aged 18 and over in each equivalised gross weekly household income quintile^{(a)(b)(c)}, by Indigenous status, Victoria and Australia, 2008

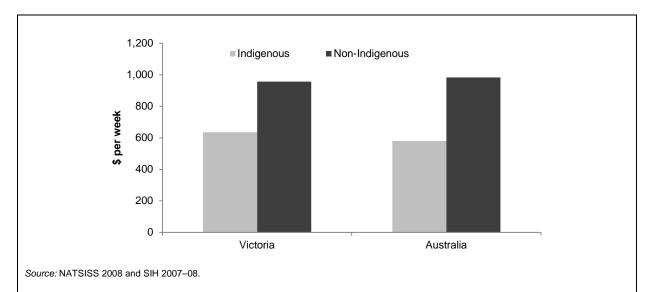


Figure 2.08.2: Mean equivalised gross household income (\$ per week), by Indigenous status, people aged 18 and over, Victoria and Australia, 2008

2.09 Index of disadvantage

The links between different forms of disadvantage, such as poverty, unemployment, low levels of education, racism and consequent social dysfunction, stress, social exclusion and poor health, are well documented (Wilkinson and Marmot 2003; Marmot 2005; Paradies 2006; Saunders and Davidson 2007; Sassi 2009).

Data are presented on the relative disadvantage within the Aboriginal and Torres Strait Islander population compared with the non-Indigenous population using an index developed by the ABS to allow measurement of relative socioeconomic status at a small area level known as Socio-Economic Indexes for Areas (SEIFA). SEIFA analysis presented below uses the Index of Relative Socio-Economic Advantage and Disadvantage and is based on data from the 2006 Census at the geographical level.

- In 2006 in Victoria, a greater proportion of the Indigenous population was in the most disadvantaged quintile of socioeconomic status than the non-Indigenous population (40% compared with 20%) (Figure 2.09.1). About 7% of the Indigenous population was in the least disadvantaged quintile, compared with 21% of the non-Indigenous population.
- Compared with the Indigenous population nationally, Victoria had a lower proportion of Indigenous people in the most disadvantaged quintile of socioeconomic status (40% compared with 46%) and a higher proportion of Indigenous people in the least disadvantaged quintile (7% compared with 4%).

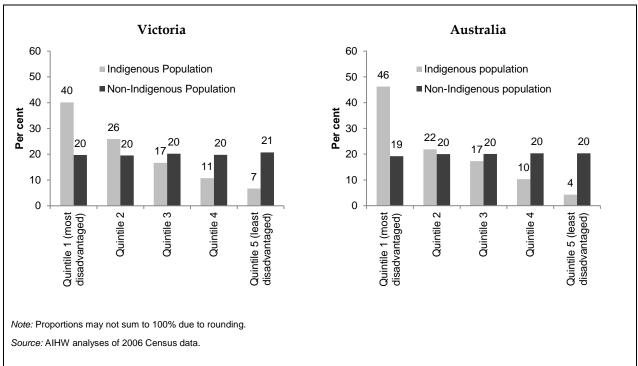


Figure 2.09.1: Population distribution by SEIFA advantage/disadvantage quintiles, by Indigenous status, Victoria and Australia, 2006

Community capacity

Community capacity refers to the capacity of a population to deliver a sustainable environment for health and wellbeing to its members. It includes providing resources (human or other), leadership and a feeling of community cohesion. Strong communities support stable family structures, inter-generational care and social networks, which in turn lead to improved health outcomes (AIHW 2011a).

A variety of indicators can be used to profile the capacity of a community in relation to health and wellbeing. This section presents data on child protection, community safety and contact with the criminal justice system.

2.10 Community safety

Community safety refers to the notion of being and feeling protected from harm. It is an important aspect of physical and mental wellbeing. Stressors experienced by individuals, as well as their family members and/or close friends, also influence the sense of community safety.

Community safety here includes three parameters, namely experience of personal injury or death as a result of violence; experience of threatened violence or a social setting in which violence is common; and experience of a social setting where there is a lack of security and a perception of danger, for example, where crimes against property or disorderly behaviour are common.

Data are presented on experience of physical or threatened violence, stressors experienced in the last 12 months, and reported community/neighbourhood problems using data from the 2008 NATSISS. Hospitalisations from assault are also reported.

- According to the 2008 NATSISS, about 28% of Indigenous people aged 15 and over in Victoria reported being a victim of physical or threatened violence in the last 12 months. This was higher than the proportion nationally (25%) (Table 2.10.2, Appendix 2).
- Indigenous females were more likely to report being a victim of physical or threatened violence in the last 12 months than Indigenous males in Victoria (29% and 27% respectively) (Table 2.10.2, Appendix 2).
- After adjusting for differences in age structure, Indigenous people aged 18 and over in Victoria were more than twice as likely as non-Indigenous people to report being a victim of physical or threatened violence in the last 12 months in Victoria (Table 2.10.1).
- In 2008 in Victoria, about 83% of Indigenous people aged 18 and over or their family members and close friends experienced at least one stressor in the previous 12 months compared with 48% of non-Indigenous people. The most common stressors for Indigenous people were death of a family member or close friend (38%) and alcohol or drug-related problems (28%) (Table 2.10.1).

- Of Indigenous people aged 15 and over in Victoria, 75% reported neighbourhood/community problems present, compared with 74% nationally. Dangerous/noisy driving and alcohol were most commonly reported as a neighbourhood/community problem in Victoria (52% for dangerous/noisy driving and 38% for alcohol) (Figure 2.10.1).
- Between July 2008 and June 2010, there were 282 hospitalisations of Indigenous people in Victoria with a principal diagnosis of assault. Indigenous people in Victoria were hospitalised for assault at 5 times the rate of non-Indigenous Australians. In New South Wales, Victoria, Queensland, Western Australia, South Australia and the Northern Territory combined, Indigenous people were hospitalised at 12 times the rate of non-Indigenous people (Table 2.10.3, Appendix 2).

Table 2.10.1: Issues of community safety, people aged 18 and over, by Indigenous status, Victoria and Australia, 2008

	٧	ictoria	Aus	stralia
	Indigenous	Non-Indigenous	Indigenous	Non-Indigenous
	Р	er cent	Pe	r cent
Victim of physical or threatened violence in last 12 months ^(a)	24.3*	9.7*	20.5*	10.8*
Stressors experienced by individual, family members and/or close friends in last 12 months ^(b)				
Mental illness	26.3*	8.4*	17.1*	8.8*
Death of family member or close friend	38.1*	18.6*	40.4*	19.4*
Alcohol or drug-related problems	27.5*	5.1*	24.2*	5.7*
Abuse or violent crime	10.9*	2.1*	7.6*	2.4*
Witness to violence	11.5*	2.0*	9.0*	2.2*
Trouble with the police	18.7*	2.5*	14.7*	2.6*
One or more of the above stressors	62.4*	28.7*	59.1*	30.2*
You, a family member or friend spent time in gaol	13.4		12.8	
Overcrowding at home	12.7		12.7	
Treated badly / discrimination	13.7		10.2	
Total experienced stressors ^{(c)(d)}	83.4*	48.4*	79.0*	49.1*
No stressors reported	16.6*	51.6*	21.0*	50.9*
Total	100.0	100.0	100.0	100.0

^{*} Represents statistically significant differences in the Indigenous/non-Indigenous comparisons.

Note: Excludes stressors not stated.

Source: NATSISS 2008 and NHS 2007-08.

^{. .} Data not collected for non-Indigenous Australians.

⁽a) For this variable only, non-Indigenous comparison has been sourced from General Social Survey (GSS) 2006.

⁽b) Sum of components may exceed total, as people may have reported more than one type of stressor.

⁽c) Includes all other types of stressors not listed here.

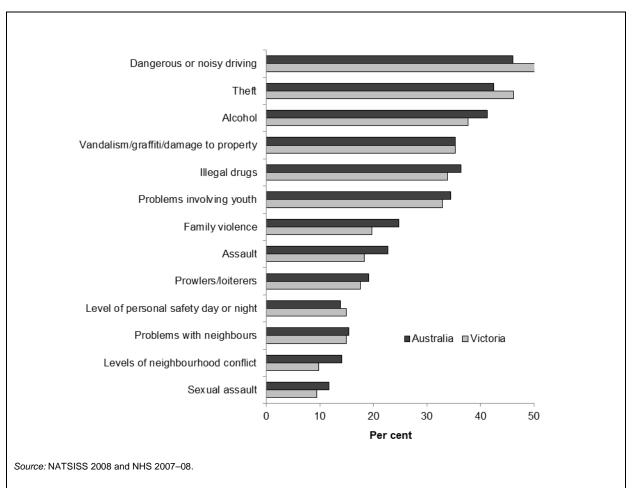


Figure 2.10.1: Proportion of Indigenous Australians aged 15 and over reporting neighbourhood/community problems, Victoria and Australia, 2008

2.11 Contact with the criminal justice system

The rate of incarceration is relatively high among Aboriginal and Torres Strait Islander people compared with non-Indigenous Australians. This not only affects the health and wellbeing of those imprisoned, but also of their families and children (Levy 2005).

Data are presented on Aboriginal and Torres Strait Islander people in prison custody, as well as deaths in custody.

- As at 30 June 2011, there were 295 Indigenous and 4,442 non-Indigenous people in prison custody in Victoria. Nationally, there were 7,656 Indigenous and 21,426 non-Indigenous people in prison custody (Table 2.11.1). The age standardised rate of imprisonment for Indigenous people in Victoria was around 1,155 per 100,000, which was about 11 times the rate for non-Indigenous people (105 per 100,000). Imprisonment rates were lower in Victoria than the national rates for both Indigenous and non-Indigenous Australians.
- From 2001 to 2011 in Victoria, the age-standardised imprisonment rate of Indigenous people increased by 72%, with an average yearly increase of 48 per 100,000. The rate for

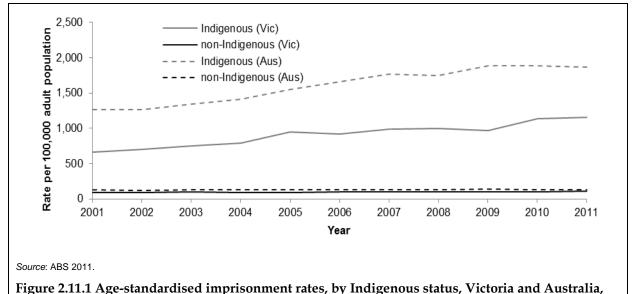
- Indigenous people nationally increased by 58%, with an average yearly increase of around 73 per 100,000 (Figure 2.11.1).
- There was 1 death of Indigenous people in custody (police and prison) in Victoria in 2010–11. This represented 8% of all deaths in custody in Victoria. Nationally, Indigenous people represented one-quarter (25%) of deaths in custody (Table 2.11.2, Appendix 2).
- In Victoria, over the period 1998–99 to 2010–11 there were between 0 and 0.81 Indigenous deaths in custody per 100 Indigenous prisoners. Over the same period there were between 0.08 and 0.35 non-Indigenous deaths per 100 non-Indigenous prisoners (Table 2.11.3, Appendix 2).

Table 2.11.1: People in prison custody, by Indigenous status, Victoria and Australia, 30 June 2011

		Indigenou	s	Non-Indigenous			
·	Number	Crude rate ^(a)	Age standardised rate ^(b)	Number	Crude rate ^(a)	Age standardised rate ^(b)	Age standardised rate ratio ^(c)
Vic	295	1,320.70	1,155.20	4,442	102.2	105.4	11
Australia	7,656	2,247.5	1,867.6	21,426	125.0	130.2	14.3

- (a) Number per 100,000 adult population.
- (b) Number per 100,000 adult population directly age standardised to 2001 Australian standard population.
- (c) The ratio of Indigenous to non-Indigenous imprisonment is calculated by dividing the Indigenous age-standardised rate by the non-Indigenous age-standardised rate.

Source: ABS 2011.



2001–2010

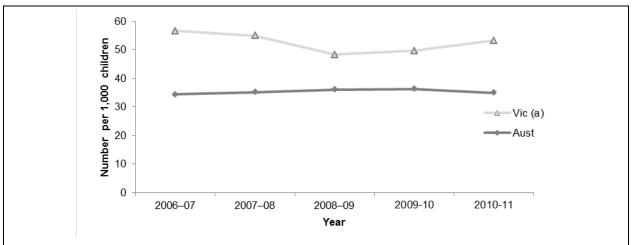
2.12 Child protection

Child protection services 'receive and assess allegations of child abuse and neglect, and/or harm to children and young people; provide and refer clients to family support and other relevant services; and intervene to protect children' (AIHW 2012a; SCRGSP 2005). Aboriginal and Torres Strait Islander children are over-represented in the child protection system. The reasons for this are complex, and include the intergenerational effects of separation from

family and culture, perceptions arising from cultural differences in child-rearing practices, and the relative socioeconomic disadvantage of Indigenous Australians (HREOC 1997; Stanley et al. 2003).

Data are presented on Aboriginal and Torres Strait Islander children who were the subject of a substantiation, on care and protection orders and in out-of-home care. Substantiations refer to child protection notifications made to relevant authorities which were investigated and it was concluded that there was reasonable cause to believe that the child had been, was being, or was likely to be abused or neglected or otherwise harmed.

- In 2010–11, there were 767 Indigenous children aged 0–16 who were the subject of a substantiation in Victoria. Indigenous children aged 0–16 were more likely to be the subject of substantiation than other children aged 0–16 (53 per 1,000 compared with 6 per 1,000). Substantiation rates for both Indigenous children and non-Indigenous children were higher in Victoria than across Australia (Table 2.12.2, Appendix 2).
- Between 2006–07 and 2010–11, the rate of Aboriginal and Torres Strait Islander children in Victoria who were the subject of substantiations fluctuated somewhat, ranging from 48 per 1,000 in 2008–09 to 57 per 1,000 in 2006–07. Substantiation rates for Indigenous children nationally remained relatively stable over the period (Figure 2.12.1).
- As at 30 June 2011, there were 1.060 Indigenous children aged 0–17 who were on care and protection orders in Victoria. Indigenous children were 15 times more likely to be on care and protection orders than other children (69 per 1,000 compared with 5 per 1,000). The rate of Indigenous children on care and protection orders was higher in Victoria than nationally (69 compared with 51 per 1,000) (Table 2.12.3, Appendix 2).
- As at 30 June 2011, there were 877 Indigenous children aged 0–17 who were in out-of-home care in Victoria. Indigenous children were 15 times more likely to be in out-of-home care than other children (57 per 1,000 compared with 4 per 1,000). The rate of Indigenous children in out-of-home care was higher in Victoria than nationally (57 compared with 52 per 1,000) (Table 2.12.4, Appendix 2).
- About 58% of Aboriginal and Torres Strait Islander children in out-of-home care in Victoria were placed with relative/kin, other Indigenous caregivers or Indigenous residential care. This compared with 69% nationally (Table 2.12.1).



⁽a) Due to new service and data reporting arrangements, the Victorian child protection data for 2006–07 onwards may not be fully comparable with previous years' data.

Source: AIHW analysis of National Child Protection Data Collection 2011.

Figure 2.12.1: Rates (No. per 1,000) of Aboriginal and Torres Strait Islander and other children aged 0–16 years who were the subject of substantiation, Victoria and Australia, 2006–07 to 2010–11

Table 2.12.1: Aboriginal and Torres Strait Islander children in out-of-home care: Indigenous status and relationship of carer, Victoria and Australia, 30 June 2011

Relationship	Victoria	Australia
	Per cen	t
Indigenous relative/kin	24.6	39.0
Other Indigenous caregiver	6.5	16.7
Other relative/kin	26.3	13.5
Total placed with relatives/kin, other Indigenous caregivers or in Indigenous residential care	57.5	69.2
Other caregiver	42.5	30.8
Total not placed with relatives/kin, other Indigenous caregivers or in Indigenous residential care	42.5	30.8
Total	100.0	100.0

Notes

- 1. This table does not include Indigenous children who were living independently or whose living arrangements were unknown.
- Percentages in tables may not add to 100 due to rounding.
- 3. Family group homes and residential care are reported under other caregiver.

Source: AIHW analysis of National Child Protection Data Collection 2011.

2.13 Transport

Transport can be an important resource, providing communities with greater opportunity to pursue employment, educational, social and health outcomes. With limited or no public transport options, remote Indigenous communities face various challenges, which not only have a significant impact on their ability to receive goods and services, but also to access timely health care.

Data are presented on the use of transport by Aboriginal and Torres Strait Islander people, including access to motor vehicles and perceived difficulty with transport, using data from the 2006 Census and the 2008 NATSISS.

Key findings

- According to the 2006 Census, three-quarters (75%) of Indigenous households and 89% of other households in Victoria had at least one vehicle, compared with 72% of Indigenous households and 87% of other households nationally (Table 2.13.1).
- The ratio of people to vehicles was higher for Indigenous households with at least one registered vehicle in 2006, with 1.35 people per vehicle in Victoria, compared with 1.18 people per vehicle for other households. Nationally the ratio was 1.59 for Indigenous households and 1.19 for others.
- According to the 2008 NATSISS, Indigenous people in Victoria and nationally were more
 likely than non-Indigenous people to have difficulty getting to the places they needed to.
 In 2008, 25% of Indigenous people living in Victoria reported that they sometimes or
 often had difficulty, or could not get to places, compared with 20% of non-Indigenous
 people. A similar pattern was observed nationally (26% for Indigenous and 16% for nonIndigenous) (Figure 2.13.1).

Table 2.13.1: Households with at least one registered vehicle, by Indigenous status, Victoria and Australia, 2006

	Ratio of people aged 17 and over in occupied private dwellings to vehicle ^(a)			Proportion of ho	useholds ^(b) with e vehicle	at least
	Indigenous ^(c)	Other ^(d)	Total	Indigenous ^(c)	Other ^(d)	Total
State/territory						
Vic	1.35	1.18	1.18	75.3	87.4	87.3
Australia ^(e)	1.59	1.19	1.19	71.9	87.2	86.9

⁽a) Excludes motorbikes.

Source: ABS and AIHW analysis of 2006 Census data.

⁽b) Defined as all households (excluding visitor households), in an occupied private dwelling, being Australian usual residents.

⁽c) An Indigenous household is defined where a family within the household contains one or more people of Aboriginal or Torres Strait Islander origin or where a lone person is of Aboriginal or Torres Strait Islander origin.

⁽d) Includes households where Indigenous status was 'not stated'.

⁽e) Includes Territories of Christmas Island and Cocos Islands.

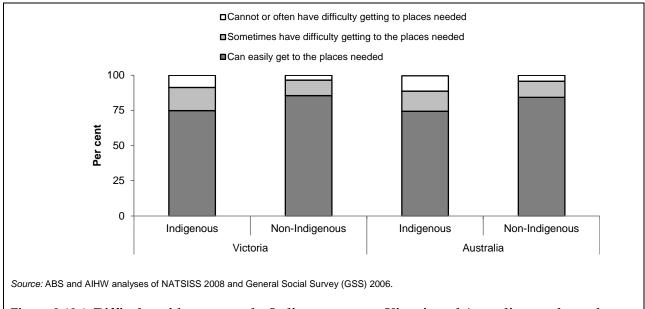


Figure 2.13.1: Difficulty with transport, by Indigenous status, Victoria and Australia, people aged 18 and over, 2008

2.14 Indigenous people with access to their traditional lands

Loss of traditional lands has been associated with trauma, illness and poor social outcomes experienced by Aboriginal and Torres Strait people today (Northern Land Council & Central Land Council 1994; Royal Commission into Aboriginal Deaths in Custody 1991). Ongoing access to traditional lands has been found to have a positive association with health among Aboriginal and Torres Strait Islander people (McDermott et al. 1998).

Data are presented on the proportion of Aboriginal and Torres Strait Islander people living on or visiting traditional areas of land with which they have ancestral and/or cultural links using data from the 2008 NATSISS.

- According to the NATSISS, in 2008 in Victoria, 50% of Indigenous people aged 15 and over recognised and were allowed to visit their homelands/traditional country.
 Nationally, 45% of Indigenous people recognised their homelands and were allowed to visit (Figure 2.14.1).
- About 17% of Indigenous people in Victoria and 26% of Indigenous people nationally lived on their homelands.
- About 33% of Indigenous people in Victoria reported they did not recognise their homelands and 0.6% reported they were not allowed to visit their homelands. This compared with 29% and 0.6% for Indigenous people nationally.
- In 2008 in Victoria, Indigenous people aged 15 and over who did not recognise their homelands/traditional country were more likely to report excellent/very good/good health (80%) than those who did recognise their homelands/traditional country (73%). The data for Australia showed similar patterns, though the difference was smaller (81% compared with 77%) (Figure 2.14.2).

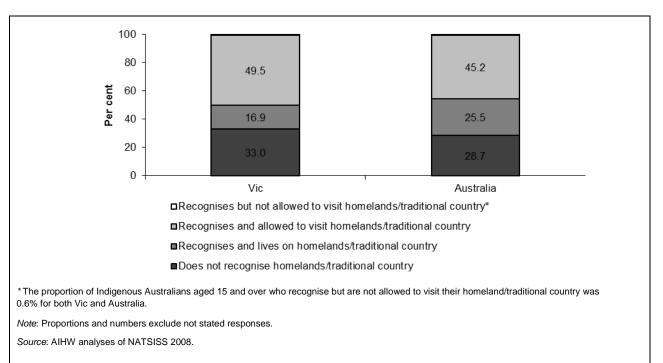


Figure 2.14.1: Access to homelands/traditional country, Indigenous Australians aged 15 and over, Victoria and Australia, 2008

Health behaviours

In addition to various socioeconomic and community factors, individual behaviours play a key role in health and wellbeing outcomes. These include adverse health behaviours, such as tobacco smoking, physical inactivity, poor nutrition, alcohol consumption and illicit drug use. Many of these behaviours are more prevalent in populations with lower socioeconomic status, but this relationship is complex.

This section presents data on tobacco use, alcohol consumption, substance use, breastfeeding practices, physical activity level and dietary behaviour using data from the 2008 NATSISS and 2004–05 NATSIHS.

2.15 Tobacco use

Tobacco is one of the most widely used legal drugs in Australia, but its use is more prevalent in the Indigenous population than in the non-Indigenous population. Tobacco use plays a significant role in the gaps between Indigenous and non-Indigenous Australians in life expectancy and health (Catto & Thomson 2008). Under the COAG Closing the Gap National Health Partnership, the Australian and state/territory governments are making significant investments in programs to tackle the high rates of smoking among Indigenous Australians.

Data are presented on the smoking status of Indigenous Australians using data from the 2008 NATSISS, with non-Indigenous comparisons from the 2007–08 NHS.

Key findings

 According to the NATSISS, in Victoria in 2008, about 46% of Indigenous people aged 15 and over were current daily smokers, 2% were smokers who smoked weekly or less than weekly; 22% were ex-smokers and 31% had never smoked (Table 2.15.1).

- A similar proportion of Indigenous people aged 15 and over in Victoria and nationally were current daily smokers (46% and 45%, respectively).
- Indigenous people in Victoria were nearly 3 times as likely to be daily smokers as non-Indigenous people.
- In Victoria, Indigenous adults aged 25–34 were most likely to report being current smokers (55%), followed by those aged 18–24 and 45–54 (54% for both). Nationally, Indigenous adults aged 25–34 were still most likely to report being current smokers (56%), followed by those aged 18–24 and 35–44 (both 53%) (Table 2.15.2, Appendix 2).

Table 2.15.1 Smoking status by Indigenous status, persons aged 15 and over, Victoria and Australia, 2008

		Victoria		Australia		
Smoker status (%)	Indigenous	Non- Indigenous	Rate ratio	Indigenous	Non- Indigenous	Rate ratio
Current daily smoker	46.2	16.6	2.8	44.6	18.0	2.5
Current smoker other ^(a)	1.5	2.1	0.7	2.2	1.8	1.2
Ex-smoker	21.8	28.2	0.8	19.7	28.6	0.7
Never smoked	30.6	53.2	0.6	33.5	51.6	0.6
All persons	100.0	100.0		100.0	100.0	
Total number of persons	21,938	4,157,596		327,101	16,374,202	

⁽a) Includes current smoker weekly and current smoker less than weekly.

Source: ABS and AIHW analyses of NATSISS 2008 and 2007-08 NHS.

2.16 Risky and high-risk alcohol consumption

Excessive consumption of alcohol is a major risk factor for conditions such as liver disease, pancreatitis, diabetes and some types of cancer. Alcohol is also a frequent contributor to motor vehicle accidents, injuries and suicide. It can also lead to anti-social behaviour, domestic violence and family breakdown. Current levels of risky alcohol consumption (both chronic and binge) are a concern for Indigenous and non-Indigenous Australians alike, and are major risk factors for morbidity and mortality in both populations (AIHW 2006).

Data are presented on self-reported alcohol consumption at risky/high-risk levels by Aboriginal and Torres Strait Islander people compared with the non-Indigenous population using data from the 2004–05 NATSIHS.

Risky/high-risk alcohol consumption

The consumption of alcohol at risky and high-risk levels was defined as alcohol consumption that exceeded the National Health and Medical Research Council (NHMRC) guidelines for low risk drinking in the short or long term. These guidelines are outlined below:

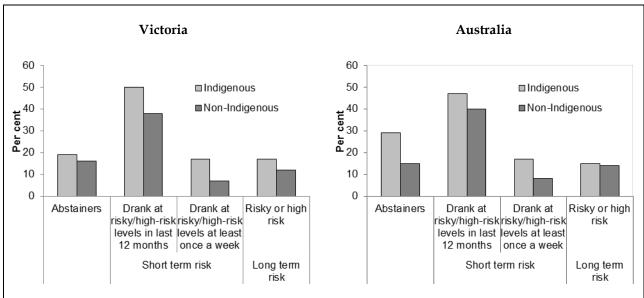
Short-term risky drinking is consumption of more than 6 but fewer than 11 standard drinks on any one day for males, and more than 4 but fewer than 7 standard drinks for females.

Short-term high-risk drinking is consumption of 11 or more standard drinks on any one day for males, and more than 7 standard drinks for females.

Long-term risky drinking is average consumption of more than 4 but fewer than 6 standard drinks per day (amounting to 29 but fewer than 42 per week) for males, and more than 2 but fewer than 5 standard drinks per day (amounting to 15 but fewer than 28 per week) for females.

Long-term high-risk drinking is average consumption of more than 6 standard drinks per day (amounting to 43 or more per week) for males, and more than 4 standard drinks per day (amounting to 29 or more per week) for females.

- In 2004–05 in Victoria, Indigenous adults were more likely than non-Indigenous adults to report having abstained from alcohol consumption in the last 12 months (19% compared with 16%) (Figure 2.16.1).
- In Victoria, about 50% of Indigenous adults drank at short-term risky/high-risk levels in the last 12 months, and 17% drank at risky/high-risk levels at least once a week. This is compared with 38% of non-Indigenous adults who reported drinking at risky/high-risk levels in the last 12 months and 7% who drank at this level at least once a week. These proportions are similar for Indigenous Australians nationally.
- About 17% of Indigenous adults in Victoria drank at long-term risky/high-risk levels in the last 12 months compared with 12% of non-Indigenous adults. The proportions nationally were 15% and 14% for Indigenous and non-Indigenous adults, respectively.



Notes

- 1. Risk level based on Australian Alcohol Guidelines 2000.
- Based on responses to questions in 2004–05 National Health Survey/NATSIHS about frequency of consumption of specified number of drinks in
 previous year. The number of drinks was based on the NHMRC guidelines for risky and high-risk short-term alcohol consumption for males and
 females
- 3. Long-term risk level based on consumption in week prior to interview.

Source: ABS and AIHW analyses of NATSIHS 2004-05 and NHS 2004-05.

Figure 2.16.1: Alcohol risk levels by Indigenous status, people aged 18 and over, age-standardised, Victoria and Australia, 2004–05

2.17 Drug and other substance use including inhalants

Illicit substance use includes the use of drugs whose production, sale or possession is prohibited; and the misuse of substances that are legally available (for example, the use of solvent and petrol as inhalants, and the non-medical use of prescribed drugs such as pain-killers). As well as being a large contributing factor for illness, accidents and injury, illicit drug use may also have severe social and economic impacts on communities, including domestic violence, crime and assaults (AIHW 2011a).

Data are presented on the self-reported use of illicit drugs and other substances (for example, inhalants and pain killers) among Aboriginal and Torres Strait Islander people using data from the 2008 NATSISS. Comparable data are not available for the non-Indigenous population.

- In 2008, in Victoria, about 61% of Indigenous males and 51% of Indigenous females aged 18 and over reported that they had ever used substances. These proportions were higher than those reported for Indigenous males and females nationally (54% and 38% respectively).
- In Victoria, about 34% of Indigenous males and 22% of Indigenous females aged 18 and over reported illicit substance use in the last 12 months. This was higher than the proportions nationally (30% of Indigenous males and 18% of Indigenous females).

 Marijuana/hashish/cannabis resin was the most commonly reported type of substance used by Indigenous adults in the last 12 months. In 2008, 20% of Indigenous adults in Victoria used marijuana, hashish or cannabis resin, slightly higher than the rate nationally (18%) (Table 2.17.1)

Table 2.17.1: Substance use, Indigenous Australians aged 18 and over, by sex, Victoria and Australia, 2008

	Victoria				Australia	_
	Males	Females	People	Males	Females	People
		Per cent			Per cent	
Used substances in last 12 months						
Marijuana, hashish or cannabis resin	25.9	14.4	19.9	24.3	11.6	17.6
Amphetamines or speed	9.0	5.7	7.3	6.1	2.8	4.3
Ecstasy or designer drugs	8.5	4.4	6.4	4.8	2.1	3.4
LSD or synthetic hallucinogens	3.4	0.9	2.1	1.5	0.5	0.9
Pain killers or analgesics for non-medical purposes	9.5	6.2	7.8	5.3	4.5	4.8
Naturally occurring hallucinogens	1.7	0.8	1.2	1.1	0.2	0.6
Cocaine	3.0	0.9	1.9	1.2	0.5	0.8
Other analgesics	1.3	0.5	0.9	0.6	0.2	0.4
Volatile solvents	2.7	0.4	1.5	0.6	0.2	0.4
Tranquillisers or sleeping pills for non-medical purposes	6.0	3.1	4.5	1.8	1.2	1.5
Kava	1.9	0.8	1.3	1.8	0.7	1.2
Total used substance in last 12 months	34.1	21.7	27.6	29.8	17.6	23.3
Used substance but not in last 12 months	26.5	29.2	27.9	24.4	19.8	22.0
Total used substance ^(a)	60.8	50.9	55.7	54.3	37.5	45.3
Never used substance	37.5	48.6	43.2	45.4	61.7	54.1
Not stated ^(b)	1.7	0.5	1.1	0.3	0.8	0.6
Total ^(c)	100.0	100.0	100.0	100.0	100.0	100.0

⁽a) Includes 'whether used in last 12 months' not known.

Source: AIHW analyses of NATSISS 2008.

2.18 Physical activity

Physical inactivity is associated with several preventable chronic diseases, including cardiovascular disease, hypertension and diabetes, all of which are highly prevalent in the Indigenous population. It is also related to overweight and obesity, important risk factors for multiple diseases.

Data are presented on self-reported physical activity levels of Aboriginal and Torres Strait Islander and non-Indigenous adults using data from the 2004–05 NATSIHS. Data are reported for non-remote areas only as information on physical activity were not collected for remote areas of Australia in the NATSIHS.

Key findings

• In 2004–05, around 42% of Indigenous people aged 15 and over in non-remote areas of Victoria reported their exercise level as sedentary in the 2 weeks before the survey, 32%

- reported it as low, 22% as moderate and 4% as high. This same pattern was evident nationally, with 51% of Indigenous Australians reporting their exercise level as sedentary, 27% as low, 16% as moderate and 5% as high.
- After adjusting for differences in age structure, a higher proportion of Indigenous than non-Indigenous people reported their exercise level as sedentary (42% compared to 32%); and a lower proportion of Indigenous than non-Indigenous people reported their exercise level as high (4% compared to 5%). (Figure 2.18.1).

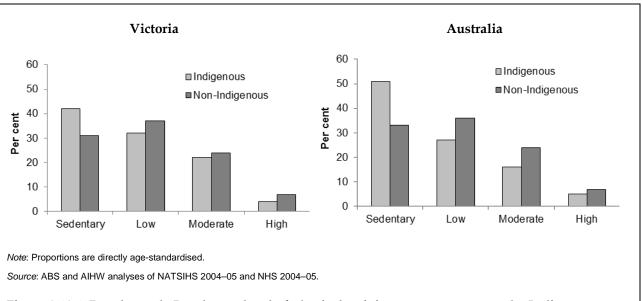


Figure 2.18.1: People aged 15 and over, level of physical activity, non-remote areas, by Indigenous status, Victoria and Australia, 2004–05

2.19 Dietary behaviour

Over a long period, the traditional fibre-rich, high-protein, low saturated fat diet of many Indigenous communities has changed to one that is high in refined carbohydrates and saturated fats. Additionally, for Aboriginal and Torres Strait Islander people living in remote areas, access to a variety of foods, including fruit and vegetables, is limited. This is due to the higher costs for handling and transporting goods to remote communities, the lack of appropriate storage facilities in communities and the lack of suitable local produce to buy (NHMRC 2000).

Data are presented on fruit and vegetable consumption, type of milk consumed and salt intake using data from the 2004–05 NATSIHS and 2008 NATSISS.

Recommended guidelines for intake of fruit and vegetables

The National Health and Medical Research Council guidelines recommend a minimum of 5 serves of vegetables per day and 2 serves of fruit per day for adults aged 19 and over. The guidelines also recommend the minimum daily intake of vegetables and fruit for children and adolescents according to age. For those aged 4–7, the recommended daily intake is 2 serves of vegetables and 1 serve of fruit; for those aged 8–11 it is 3 serves of vegetables and 1 serve of fruit; for those aged 12–18, it is 4 serves of vegetables and 3 of fruit.

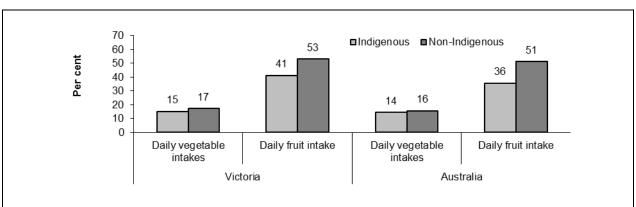
- In 2004–05, in Victoria, of persons aged 12 and over, 97% of Indigenous and all non-Indigenous people reported eating vegetables daily; 89% of Indigenous and 94% of non-Indigenous people reported eating fruit daily; and 25% of Indigenous and 48% of non-Indigenous people usually consumed skim or low/reduced fat milk (Table 2.19.1).
- In 2004–05 in Victoria, 15% of Indigenous people aged 12 and over living in non-remote areas reported having the recommended daily intake of vegetables and 41% reported having the recommended daily intake of fruit. This compared with 17% and 53% for vegetable and fruit intake, respectively, for the non-Indigenous population (Figure 2.19.1).
- According to the 2008 NATSISS, 47% of Indigenous children aged 4 to 14 living in non-remote areas of Victoria reported having the recommended daily intake of vegetables and 77% the recommended daily intake of fruit. These percentages were slightly higher than those reported for non-remote areas of Australia (43% and 74%, respectively) (Figure 2.19.2).

Table 2.19.1: Selected dietary habits, by remoteness and Indigenous status, people aged 12 and over, Victoria and Australia, 2004–05

	Victo	oria	Au	ıstralia
Dietary behaviours	Indigenous	Non-Indigenous	Indigenous	Non-Indigenous
	Per o	ent	Pe	er cent
Vegetable intake				
Eats vegetables daily	97	100	95	99
Does not eat vegetables daily	3	0	5	1
Total ^(a)	100	100	100	100
Fruit intake				
Eats fruit daily	89	94	86	93
Does not eat fruit daily	11	6	14	7
Total ^(a)	100	100	100	100
Usual type of milk consumed				
Whole	65	41	79	45
Low/reduced fat	20	35	11	31
Skim	5	13	5	13
Total drinks milk ^(b)	96	95	96	95
Does not drink milk	4	5	4	5
Total	100	100	100	100
Salt added after cooking				
Never/rarely	35		30	
Sometimes	31		25	
Usually	34		46	
Total	100		100	

⁽a) Includes 'whether eats fruit/vegetables' not known.

 $\it Source: ABS \ and \ AIHW \ analyses of NATSIHS 2004–05 \ and NHS 2004–05.$



Source: AIHW analyses of NATSIHS 2004-05 and NHS 2004-05.

Figure 2.19.1: Percentage of Australians aged 12 and over who had the recommended daily intake of vegetables and fruit, by Indigenous status, non-remote areas, Victoria and Australia, 2004–05

⁽b) Includes 'soy milk' and other types of milk.

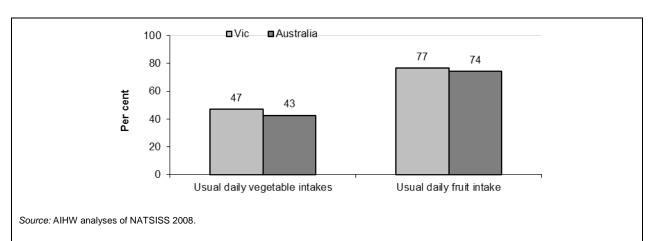


Figure 2.19.2: Percentage of Indigenous children aged 4–14 who had the recommended daily intake of vegetables and fruit, non-remote areas, Victoria and Australia, 2008

2.20 Breastfeeding practices

Breastfeeding provides many benefits to young children including to reduce children's risk for sudden infant death syndrome (SIDS) and many types of infections and allergies. Breast milk may also help protect young children from some health problems, such as eczema, obesity, asthma, and diabetes (Lawrence & Lawrence 2009; Public Health Agency of Canada, et al. 2011).

Data are presented on the breastfeeding practices of Aboriginal and Torres Strait Islander mothers, including the breastfeeding status of Aboriginal and Torres Strait Islander infants, breastfeeding duration, and age at which infants are first given solid food using data from the 2008 NATSISS.

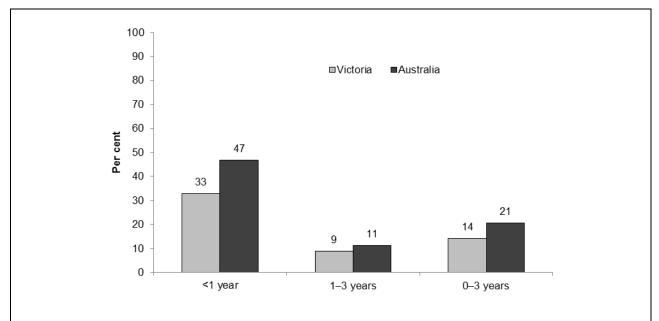
- In 2008 in Victoria, about 80% of Indigenous infants aged 0–3 years had ever been breastfed, compared with 77% of Indigenous infants of the same age nationally; about 14% of Indigenous infants aged 0–3 in Victoria were currently being breastfed compared with 21% of Indigenous infants of the same age nationally (Table 2.20.1).
- The median age at which Indigenous children stopped being completely breastfed was 17 weeks in both Victoria and across Australia.
- In 2008, 33% of Indigenous infants under 1 year of age in Victoria were currently breastfed, lower than the rate reported nationally (47%) (Figure 2.20.1).
- Among Indigenous infants aged 0–3 years in Victoria, 45% were first regularly given solid food when they were between 3 and 6 months old, and 30% when they were between 6 and 9 months old. Nationally, 43% were first regularly given solid food when they were between 3 and 6 months old, and 30% when they were between 6 and 9 months old (Table 2.20.2, Appendix 2).
- Similar proportions of Indigenous infants aged 0–3 in Victoria and nationally were regularly given solid food (93% and 91%, respectively) (Table 2.20.2, Appendix 2).

Table 2.20.1: Breastfeeding status, Indigenous infants aged 0-3 years, Victoria and Australia, 2008

Breastfeeding measure	Victoria	Australia
	Per ce	nt
Child breastfed		
Currently breastfeeding	14.4	20.7
Not currently breastfeeding		
Age child stopped being completely breastfed		
Less than 6 months	39.4	33.7
Between 6 and 12 months	11.0	10.4
12 months or older	13.4	11.6
Total ^(a)	65.9	56.6
Ever breastfed ^(b)	80.3	77.3
Never breastfed	19.7	22.7
Total ^(b)	100.0	100.0
Total People	3,322	52,648
Median age at which child stopped being completely breastfed (weeks)	17	17
Mean age at which child stopped being completely breastfed (weeks)	25	27

⁽a) Includes age at which child stopped breastfeeding not stated.

Source: NATSISS 2008.



Note: Excludes children for whom breastfeeding status was not known.

Source: AIHW analysis of NATSISS 2008.

Figure 2.20.1: Aboriginal and Torres Strait Islander children aged 0-3 currently breastfeeding, by age, Victoria and Australia, 2008

⁽b) Excludes children for whom breastfeeding status was not known.

2.21 Health behaviours during pregnancy

Health behaviours during pregnancy can have major impacts on the health outcomes of mothers and their children. Smoking during pregnancy can result in health problems for the newborn, including low birthweight, intrauterine growth restriction, prematurity, placental complications, birth defects, lung function abnormalities and respiratory symptoms and perinatal mortality (Jauniaux & Burton 2007; Julvez et al. 2007). Drinking alcohol while pregnant may result in a range of impairments in cognitive, social and emotional functioning over the child's lifetime (France et al. 2010). Nutrition before and during pregnancy is also critical to fetal development (McDermott et al. 2009).

Data are presented on smoking during pregnancy from the National Perinatal Data Collection, health issues of mothers from the NATSISS, and risk factors of mothers reported during antenatal care from the Healthy for Life (HfL) data collection.

- In Victoria in 2009, about 44% of Aboriginal and Torres Strait Islander mothers smoked during pregnancy. This was lower than the proportion nationally (52%) (Table 2.21.1, Appendix 2).
- After adjusting for differences in age structure, Aboriginal and Torres Strait Islander mothers in Victoria were 3 times as likely as non-Indigenous mothers to report smoking during pregnancy (Figure 2.21.1).
- According to the 2008 NATSISS, in Victoria, about 48% of Indigenous mothers of children aged 0–3 reported that they smoked/chewed tobacco during pregnancy, 61% reported that they sought advice about pregnancy and child birth, 37% took medications or supplements during pregnancy, 61% took folate before/or during pregnancy and 15% had high blood pressure (Figure 2.21.2).
- A higher proportion of Indigenous mothers in Victoria reported taking folate before, or during, pregnancy and sought advice about pregnancy or child birth than Indigenous mothers nationally.
- Of mothers in Victoria/Tasmania combined who were regular clients of a Healthy for Life Indigenous primary health-care service and attended antenatal care in the first trimester, 57% reported smoking, 35% reported low/high risk alcohol consumption and 15% reported using illicit drugs in 2009–10 (Table 2.21.2, Appendix 2).

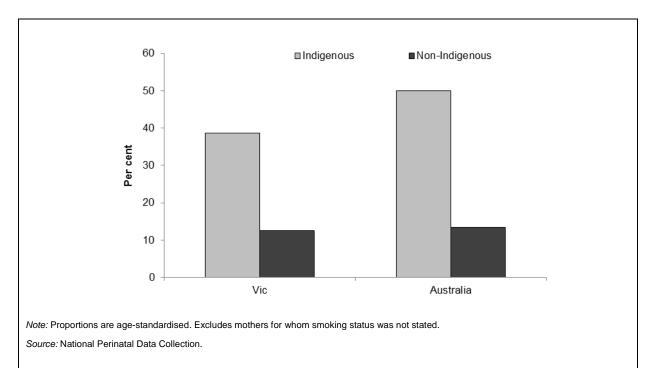
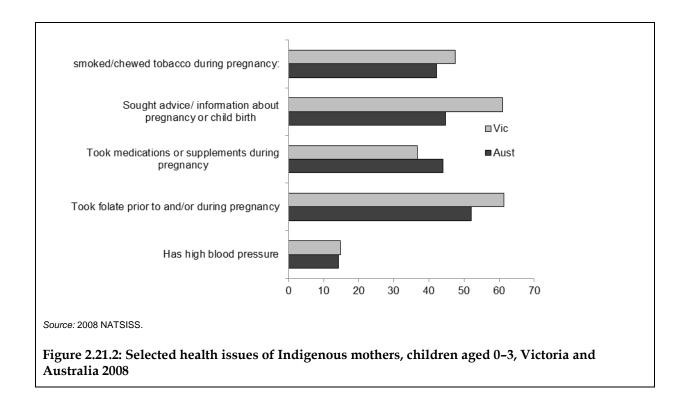


Figure 2.21.1: Proportion of mothers who smoked during pregnancy, by Indigenous status, Victoria and Australia, 2009



Person-related factors

This section is on one measure—overweight and obesity.

2.22 Overweight and obesity

Overweight and obesity is a major current health problem for Australia with more than 60% of Australian adults overweight or obese in 2007–08 (AIHW 2011b). The consequences of being overweight or obese are many and varied, including the risk of suffering coronary heart disease, Type 2 diabetes, some cancers, knee and hip problems, and sleep apnoea. Obesity is closely associated with risk factors for some of the major causes of morbidity and mortality among Aboriginal and Torres Strait Islander people, such as diabetes (NHMRC 2000). Obesity was estimated to contribute 16% of the health gap between Aboriginal and Torres Strait Islander people and the total Australian population in 2003 (Vos et al. 2007).

Data are presented on the prevalence of overweight and obesity among Aboriginal and Torres Strait Islander adults based on Body Mass Index using data from the 2004–05 NATSIHS.

Body mass index

Body mass index (BMI), is calculated by dividing weight in kilograms by height in metres squared. The normal range of BMI is between 18.5 and 25. A person is underweight if his/her BMI is less than 18.5, or overweight if the BMI is equal to or more than 25. A person is obese if the BMI is equal to or more than 30.

- In 2004–05, after adjusting for differences in age structure, about 4% of Indigenous adults in Victoria whose BMI was known were underweight, 40% were of acceptable weight, 27% were overweight but not obese, and 29% were obese. This compared with 3%, 44%, 36% and 17% for non-Indigenous adults in Victoria in these BMI categories, respectively (Figure 2.22.1).
- The proportions of Indigenous adults who were overweight and obese were lower in Victoria than nationally.
- In Victoria, a higher proportion of Indigenous than non-Indigenous adults were overweight or obese in the 18–24 and 55 years and over age groups. Indigenous adults in Victoria aged 55 and over were most likely to be overweight or obese (81%) while non-Indigenous adults aged 45–54 were most likely to be overweight or obese (62%). Nationally, a higher proportion of Indigenous adults were overweight or obese than non-Indigenous adults across all age groups (Figure 2.22.2).

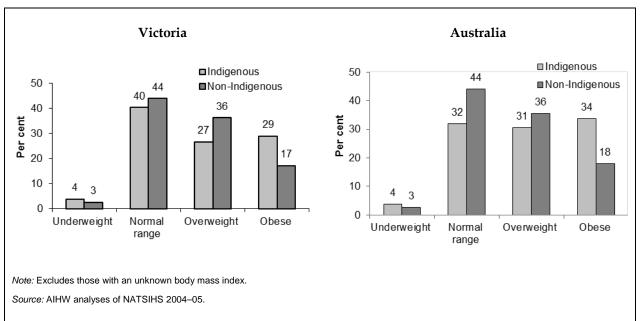
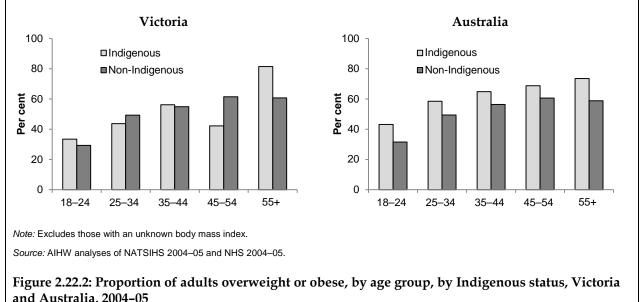


Figure 2.22.1: Proportion of Indigenous adults who are underweight, normal weight, overweight and obese, age-standardised, by Indigenous status, Victoria and Australia, 2004-05



and Australia, 2004-05

Part 3: Health system performance

Effective/appropriate/efficient

- 3.01 Antenatal care*
- 3.02 Immunisation
- 3.03 Health promotion
- 3.04 Early detection and early treatment
- 3.05 Chronic disease management
- 3.06 Access to hospital procedure
- 3.07 Selected potentially preventable hospital admissions
- 3.08 Cultural competency

Responsive

- 3.09 Discharge against medical advice
- 3.10 Access to mental health services
- 3.11 Access to alcohol and drug services
- 3.12 Aboriginal and Torres Strait Islander Australian in the health workforce
- 3.13 Competent governance

Accessible

- 3.14 Access to services by types of services compared to need
- 3.15 Access to prescription medicines*
- 3.16 Access to after-hours primary health

Continuous

- 3.17 Regular GP or health service
- 3.18 Care planning for chronic disease

Capable

- 3.19 Accreditation
- 3.20 Aboriginal and Torres Strait Islander peoples training for health related disciplines

Sustainable

- 3.21 Expenditure on Aboriginal and Torres Strait Islander health compared to need
- 3.22 Recruitment and retention of staff

The third part of this report, Health system performance, presents Tier 3 measures of the Aboriginal and Torres Strait Islander Health Performance Framework. Tier 3 aims to cover the entire health system including Indigenous specific services and programs, and mainstream services. The measures examine a number of different factors including child and maternal health, health promotion, access to care, early detection and chronic disease management, the health workforce and adequacy of resources.

Tier 3 is structured around addressing five key questions:

- Is the health system effective/appropriate/efficient?
- Is the health system responsive to needs of Indigenous people?

^{*} Data is not available for Victoria for these indicators.

- Is health care accessible?
- Is there continuity in quality health care?
- Is the health system capable and sustainable?

Is the health system effective/appropriate/efficient?

This section includes measures on effectiveness, appropriateness and efficiency of the health system in the following areas: immunisation, health promotion, early detection and early treatment, chronic disease management, access to hospital procedures, potentially preventable hospital admissions and cultural competency.

3.02 Immunisation

Immunisation is an effective way of protecting people against harmful diseases before they come into contact with them in the community. Immunisation therefore not only protects individuals, but also others in the community, by reducing the spread of disease. The Immunise Australia Program aims to reduce morbidity and mortality associated with several vaccine-preventable diseases by funding a series of age-specific vaccinations as outlined in the National Immunisation Program Schedule (DoHA 2010). Increasing the proportion of Indigenous children who are fully vaccinated is one of the agreed outcomes of the Indigenous Early Childhood Development National Partnership (COAG 2009).

Data are presented on vaccination coverage rates among Indigenous Australian children using data from the Australian Childhood Immunisation Register, and immunisation of influenza and pneumonia by Indigenous adults using data from the 2004–05 NATSIHS.

- As at December 2011 in Victoria, the proportion of Aboriginal and Torres Strait Islander children who were fully immunised was lower than for other children at 1 year of age (84% compared with 93%) and 5 years of age (90% compared with 92%), whilst at 2 years of age the proportion of Aboriginal and Torres Strait Islander children fully immunised was slightly higher than for other children (94% compared with 93%) (Table 3.02.1).
- Vaccination coverage rates for Indigenous children in Victoria were similar to those for Indigenous children nationally for one year olds, and were slightly higher than for Indigenous children nationally for two and five year olds.
- Vaccination coverage rates for Indigenous children in Victoria were similar for all types of vaccines in the national schedule (Table 3.01, Appendix 2).
- According to the 2004–05 NATSIHS, about 60% of Indigenous people aged 50 and over had been vaccinated against influenza in the last 12 months, similar to the proportion nationally. About 24% of Indigenous people aged 50 and over had been vaccinated against pneumonia in the last 5 years, lower than the proportion nationally (34%) (Figure 3.02.1).
- In Victoria, a higher proportion of Indigenous people aged 65 and over and had been vaccinated against influenza in the last 12 months (86%), and vaccinated against pneumonia in the last 5 years (52%) than non-Indigenous people of the same age groups (75% and 48% respectively). A similar pattern was observed nationally.

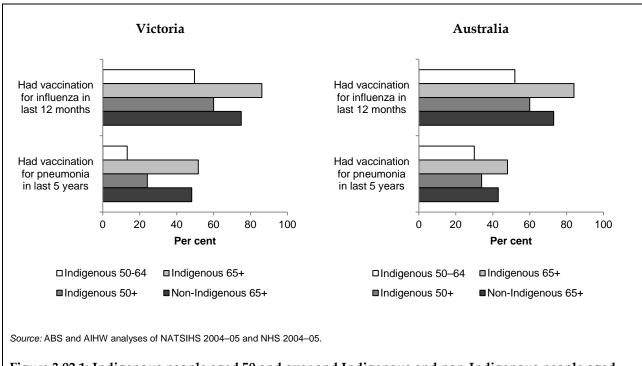


Figure 3.02.1: Indigenous people aged 50 and over and Indigenous and non-Indigenous people aged 65 and over: immunisation status, Victoria and Australia, 2004–05

Table 3.02.1: Vaccination coverage estimates for selected diseases for children 'fully vaccinated' at 1, 2 and 5 years of age, by Indigenous status, Victoria and Australia, as at 31 December 2011

	Victoria	Australia		
	Per cent	Per cent		
1 year				
Indigenous	84.2	85.2		
Other	93.0	93.5		
Ratio	0.9	0.9		
Rate difference	-8.8	-8.3*		
2 years				
Indigenous	94.2	92.3		
Other	93.1	92.6		
Ratio	1.0	1.0		
Rate difference	1.0	-0.3		
5 years				
Indigenous	89.5	86.5		
Other	91.6	90.1		
Ratio	1.0	1.0		
Rate difference	-2.1	-3.6*		

 $^{^{*}\ \}text{Represents results with statistically significant differences in the Indigenous/other comparisons}.$

Source: AIHW analysis of ACIR Medicare Australia data.

3.03 Health promotion

Health promotion includes interventions designed to enable people to increase control over, and to improve or protect their health. Health promotion can help strengthen community capacity and focus on determinants of health. It includes public policy interventions, social marketing, information to support healthy lifestyles, mass media campaigns and promoting social responsibility for health (AHMAC 2012). Currently there are limited methods for measuring the nature and level of health promotion programs and activities and their reach for Aboriginal and Torres Strait Islander people.

Data are presented on health promotion programs conducted in Indigenous primary health care services using data from the Office for Aboriginal and Torres Strait Islander Health (OATSIH) Services Reporting data collection.

Key findings

• In 2010–11, of the 25 Aboriginal and Torres Strait Islander primary health-care services in Victoria reporting to the OATSIH Services Reporting (OSR), 84% conducted sport/recreation/physical education groups, and mothers and babies groups, 20% conducted alcohol use treatment/prevention groups and 32% conducted tobacco use treatment/prevention groups (Table 3.03.1).

Table 3.03.1: Proportion of Aboriginal and Torres Strait Islander primary health-care services that ran health promotion/prevention group activities during 2010-11, Victoria and Australia

Health promotion/prevention group activities	Victoria	Australia
	Per cent	
Men's groups	88.0	56.9
Sport/recreation/physical education groups	84.0	64.5
Mothers' and babies' groups	84.0	58.3
Women's groups	84.0	60.2
Living skills groups (e.g. cooking, nutrition groups)	80.0	64.5
Support groups	76.0	49.3
Community-based education and prevention groups	68.0	70.6
Youth groups	68.0	40.8
Cultural groups	64.0	50.2
Antenatal groups	48.0	43.6
Chronic disease management groups	44.0	42.7
Tobacco use treatment/prevention groups	32.0	33.6
Counselling groups	28.0	29.9
Alcohol use treatment/prevention groups	20.0	26.1
Other substance use treatment/prevention groups	20.0	17.1
Other groups activities	12.0	12.8
Total number of services that ran selected group	25	211

Source: AIHW analysis of OSR data collection.

3.04 Early detection and early treatment of disease

Early detection is the discovery of a disease or condition at an early stage of its onset or development. Disease screening and regular health checks help prevent or delay the onset of a variety of conditions. Population-based screening activities, such as breast, bowel and cervical cancer screening programs, focus on detecting diseases in their early or pre-disease stages or to prevent occurrence of disease in the first place (cervical screening) to reduce morbidity and mortality. National programs for breast and cervical cancer screening were implemented in Australia in the early 1990s, and the national program for bowel cancer screening was implemented in 2006. Several item numbers are available under the Medicare Benefits Schedule (MBS) to encourage primary care providers to carry out regular health assessments, including some specific items for Aboriginal and Torres Strait Islander patients.

Data are presented on the health assessment and disease screening of Aboriginal and Torres Strait Islander people using MBS data, data from BreastScreen Australia and data from the OSR data collection.

- In Victoria from July 2010 to June 2011:
 - 66 per 1,000 Indigenous children aged 0–14 had an annual child health check
 - 78 per 1,000 Indigenous people aged 15–54 had a 2-yearly health check
 - 115 per 1,000 Indigenous people aged 55 and over had an annual health assessment (Figure 3.04.1).
- The rate of Indigenous people in Victoria undertaking health checks and health assessments at age 0–14, 15–54, and 55 and over was lower than for Indigenous people nationally (Figure 3.04.1).
- There has been a significant increase in health assessments provided to Indigenous Australians in Victoria since the introduction of the National Partnership Agreement on Closing the Gap in Indigenous Health Outcomes in July 2009. Rates of child health checks and adult health assessments almost doubled between 2008–09 and 2010–11 (Figure 3.04.1).
- The BreastScreen Australia program focuses on women aged 50–69, although women aged 40 and over may also receive free screening. In 2008–09 in Victoria, the proportion of Indigenous women aged 50–69 participating in the BreastScreen Australia program was markedly lower than the rate for other women in that age group (27.8% compared with 53.3%).
- For women aged 40 and over, about 17% of Indigenous women in Victoria participated in the BreastScreen Australia program compared with 29% of other women (Table 3.04.1).
- BreastScreen participation rates were lower for Indigenous women in Victoria than for Indigenous women nationally for all age groups (Table 3.04.1).
- In 2010–11, of the 25 Aboriginal and Torres Strait Islander primary health-care services in Victoria reporting to the OSR data collection, 84% routinely organised pneumococcal immunisations, 92% routinely organised influenza immunisation, 88% organised child immunisation, and 56% conducted sexually transmissible infection contact tracing (Table 3.04.2, Appendix 2).

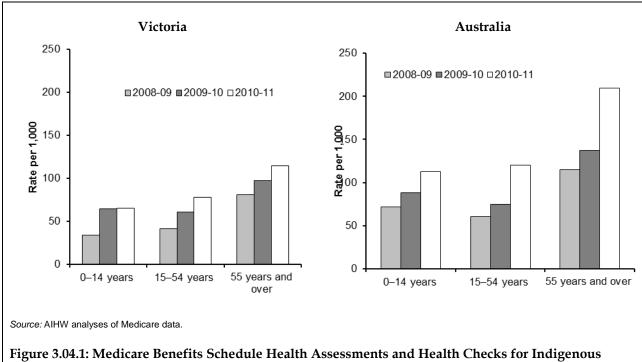


Figure 3.04.1: Medicare Benefits Schedule Health Assessments and Health Checks for Indigenous people, Victoria and Australia, 2008–09, 2009–10 and 2010–11

Table 3.04.1: Age-specific participation rates^(a) in BreastScreen Australia programs of Indigenous and other women, Victoria and Australia, 2008–2009

Age group (years)	Victoria	Victoria		Australia	
	Indigenous	Other	Indigenous	Other	
	Per cent				
40–49	3.9	7.4	12.4	14.8	
50–59	24.5	50.8	34.4	53.4	
60–64	32.7	58.2	39.2	59.7	
65+	19.1	22.6	24.3	24.5	
40+ (age-standardised rate) ^(b)	16.8	28.6	24.5	32.5	
50-69 (age-standardised rate) ^(b)	27.8	53.3	36.5	55.5	
		Rate rat	io ^(c)		
40+	0.6*		0.8*		
50–69	0.5*		0.7*		
	Rate difference ^(d)				
40+	-11.8 *		-7.9 *		
50–69	-25.4 *		-19.0*		

 $^{^{*}\ \}text{Represents results with statistically significant differences in the Indigenous/other women comparisons}.$

Source: AIHW analysis of BreastScreen Australia data.

⁽a) Rates are the number of women screened as a percentage of the eligible female population calculated as the average of the 2008 and 2009 ABS estimated resident population.

⁽b) Rates are directly age-standardised to the Australian 2001 standard population.

⁽c) Rate ratio Indigenous: other women.

⁽d) Rate difference Indigenous: other women.

3.05 Chronic disease management

Chronic diseases are accountable for a large part of the disease burden in Australia, and many of these diseases are avoidable if the known risk factors are managed (AIHW 2012b). Better management of these conditions is an important factor in meeting the target of closing the life expectancy gap between Indigenous and non-Indigenous Australians within a generation. Effective management of chronic disease can delay the progression of disease, improve quality of life, increase life expectancy, and decrease the need for high-cost interventions.

Data are presented on the management of chronic disease by Indigenous primary health-care services using Medicare data, data from the OSR collection and the HfL data collection.

- Medicare claims data show that in 2010–11, there were 2,042 general practitioner management plan claims (GPMPs) and 1,678 team care arrangements (TCAs) for Indigenous Australians in Victoria. Rates were nearly twice as high for these services for Indigenous Australians compared with non-Indigenous Australians (Figure 3.05.1).
- Indigenous Australians in Victoria also had higher rates of nurse/Aboriginal Health Worker consultations and dental consultations claimed than non-Indigenous Australians.
- Rates of MBS services claimed were similar for Indigenous Australians in Victoria and nationally, except for nurse/Aboriginal Health Worker consultations and other allied health in which rates were lower in Victoria than nationally (346 compared with 522 and 173 compared with 130, respectively, per 1,000 population). Specialist services were higher for Indigenous Australians in Victoria than nationally (844 compared with 580 per 1,000 population) (Figure 3.05.1).
- There has been an increase in the total number of allied health-care services claimed through Medicare by Indigenous Australians in Victoria between 2009–10 and 2010–11 from 14,135 to 17,735 services. The rate of allied health services claimed has also increased for Indigenous people in Victoria from 523 to 686 per 1,000 population, which was a smaller increase than that observed nationally (Figure 3.05.2).
- Data on GPMPs and TCAs is not available by state/territory for 2009–10; however, national data suggests there has also been an increase in these services claimed by Indigenous Australians through Medicare since 1 July 2009.
- According to the OSR collection, in 2010–11 in Victoria, 96% of Indigenous primary health-care services provided management of chronic illness; 68% reported keeping track of clients needing follow-up (for example, through monitoring sheets/follow-up files), 92% reported they maintained health registers (for example, chronic disease register) and 80% used clinical practice guidelines. These achievements are all higher in Victoria than reported nationally except for keeping track of clients needing follow-up for which proportions were similar to the proportion reported nationally (Table 3.05.1).
- About 92% of Indigenous primary health-care services in Victoria reported that they used Patient Information and Recall Systems, which automatically provide reminders for follow-up and routine health checks, compared with 72% nationally (Table 3.05.1).
- Between January and June 2010, of the Indigenous regular clients of services in Victoria/Tasmania that were part of the Healthy for Life program that had Type 2 diabetes, 41% had a blood pressure test in the last 6 months and 41% had a HbA1C test

- in the last 6 months. These proportions were lower than those reported nationally (62% and 52% respectively) (Table 3.05.2).
- Over the same period, of the Indigenous regular clients with coronary heart disease, 68% had a blood pressure test in the last 6 months, which was similar to the proportion nationally (69%).

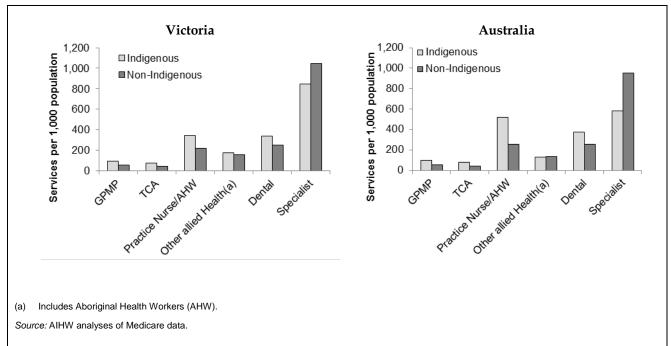


Figure 3.05.1: Age-standardised-rate of selected MBS services claimed per 1,000 population, Indigenous and non-Indigenous Australians, Victoria and Australia, 2010–11

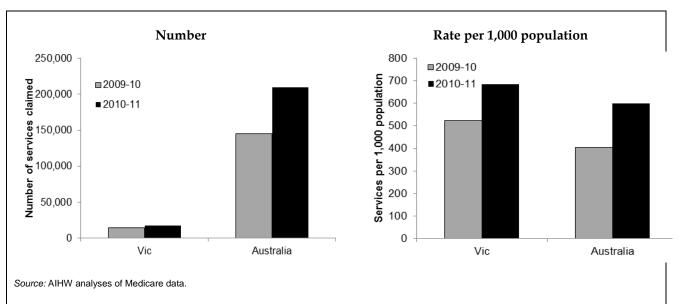


Figure 3.05.2: Number and age-standardised rate per 1,000 population of MBS total allied health services claimed, Indigenous Australians, Victoria and Australia, 2009–10 & 2010–11

Table 3.05.1: Percentage of respondent Indigenous primary health-care services that provide management of chronic disease, Victoria and Australia, 2010–11

	Victoria	Australia
	Per cent	_
Management of chronic illness	96.0	85.0
Keep track of clients needing follow-up	68.0	69.7
Service maintains health registers	92.0	74.4
Clinical practice guidelines utilised	80.0	75.2
Patient information and recall system	92.0	71.9

Source: AIHW OSR data collection.

Table 3.05.2: Proportion and number of Indigenous regular clients^(a) with Type 2 diabetes or coronary heart disease who had a blood pressure test in last 6 months, and HbA1 test in the last 6 months (diabetes only), Victoria/Tasmania and Australia, 1 January-30 June 2010

	Vic/Tas		Australia	
	Per cent	No.	Per cent	No.
Clients with Type 2 diabetes who had blood pressure test in last 6 months	41.4	458	62.2	8,253
Clients with coronary heart disease who had blood pressure test in last 6 months	68.2	324	69.4	2,748
Clients with Type 2 diabetes who had HbA1C test in last 6 months	40.6	449	40.6	6,874

⁽a) Indigenous regular clients aged 15 years and over.

Source: AIHW HfL data collection.

3.06 Access to hospital procedures

Studies have shown that while Aboriginal and Torres Strait Islander people are more likely to be hospitalised than other people, they are less likely to receive a medical or surgical procedure while in hospital (ABS & AIHW 2008).

Data are presented on the key hospital procedure differentials between Aboriginal and Torres Strait Islander people and non-Indigenous Australians using data from the National Hospital Morbidity Database.

- Between July 2008 and June 2010 in Victoria, 71% of hospitalisations of Indigenous people had a procedure reported, compared with 82% of hospitalisations of non-Indigenous people. Nationally, these proportions were 60% and 81% respectively (Table 3.06.1).
- Indigenous Australians hospitalised with a principal diagnosis of diseases of the eye and adnexa (96%) were most likely to have a procedure reported followed by neoplasms (cancer) (94%). These diagnoses were also the most common to have a procedure reported for non-Indigenous Australians.
- The proportion of hospitalisations with a procedure reported in Victoria was lower for Indigenous patients than for non-Indigenous patients for all of the diagnosis chapters. The largest differences were for persons hospitalised for symptoms, signs and abnormal findings and diseases of the nervous system (Figure 3.06.1).

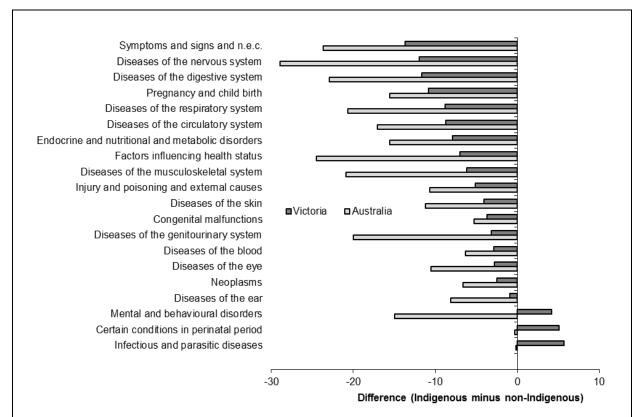
Table 3.06.1: Number and proportion of hospitalisations with a procedure recorded^(a), by Indigenous status, Victoria and Australia, July 2008 to June 2010

	Indigen	Indigenous		genous		
	No.	Per cent	No.	Per cent	Ratio ^(b)	Difference ^(c)
Vic	12,577	71.3	3,120,047	81.6	0.87*	-10.4*
Australia	191,222	60.0	11,065,696	81.4	*0.74	-21.4*

^{*} Represents results with statistically significant differences in the Indigenous/non-Indigenous comparisons at the p < 0.05 level.

Note: Proportions are age-standardised using the age-specific rates of non-Indigenous Australians.

Source: AIHW analysis of National Hospital Morbidity Database.



n.e.c. Not elsewhere classified.

Source: AIHW analysis of National Hospital Morbidity Database.

Figure 3.06.1: Percentage (age-standardised) differences between Indigenous and non-Indigenous hospital episodes with a procedure reported, selected principal diagnoses, Victoria and Australia, 2008–09 to 2009–10

3.07 Selected potentially preventable hospital admissions

An indirect measure of access to primary care is the rate of potentially preventable hospitalisations. These are hospitalisations that could potentially have been prevented through the timely and appropriate provision of primary care or other non-hospital services.

⁽a) Hospitalisations with a principal diagnosis of care involving dialysis (Z49) have been excluded.

⁽b) Ratio—Indigenous divided by non-Indigenous.

⁽c) Difference—Indigenous minus non-Indigenous.

A high rate may indicate an inadequacy in non-hospital care; however, it may also reflect hospitals responding appropriately to a high prevalence of certain conditions which could have been prevented in other ways.

Data are presented on rates of potentially preventable hospital admissions for Aboriginal and Torres Strait Islander people compared with non-Indigenous Australians.

Potentially preventable conditions

Potentially preventable conditions can be divided into three categories:

- vaccine-preventable conditions, including influenza, pneumonia, tetanus, measles, mumps, rubella, diphtheria, pertussis and polio
- acute conditions, including dehydration, gastroenteritis, kidney infection, perforated ulcer, cellulitis, pelvic inflammatory disease, ear, nose and throat infections, and dental conditions
- chronic conditions, including diabetes, asthma, angina, hypertension, congestive heart failure and chronic obstructive pulmonary disease (COPD).

- Between July 2008 and June 2010 in Victoria, Indigenous people were hospitalised for potentially preventable conditions at a rate of 58 per 1,000 population, which was twice the rate of non-Indigenous people in Victoria. This was much lower than the rate and rate ratio for New South Wales, Victoria, Queensland, Western Australia, South Australia and the Northern Territory combined (137 per 1,000; rate ratio of 4.8) (Table 3.07.1, Appendix 2).
- Indigenous people had higher hospitalisation rates than non-Indigenous people for potentially preventable conditions across all age groups. Differences were particularly marked in the 45–54 age group, where Indigenous people were hospitalised at 3.4 times of the rate of non-Indigenous people (Figure 3.07.1).
- In Victoria, Indigenous people were hospitalised for chronic conditions at 2.5 times the rate of non-Indigenous Australians, for acute conditions at 1.4 times the rate, and for vaccine preventable conditions at almost 2 times the rate of non-Indigenous Australians (Figure 3.07.2).
- Hospitalisation rates for Indigenous Australians for chronic conditions, acute conditions and vaccine preventable conditions were lower in Victoria than in the six jurisdictions combined.
- Diabetes complications were the most common type of potentially preventable condition for which Indigenous people in Victoria were hospitalised (19 per 1,000 population); followed by ear, nose and throat infections (8 per 1,000) and dental conditions (4.2 per 1,000). Indigenous people were hospitalised at 3.3 times the rate of non-Indigenous people for diabetes complications and for ear, nose and throat infections and 3.1 times the rate for dental conditions (Table 3.07.1, Appendix 2).

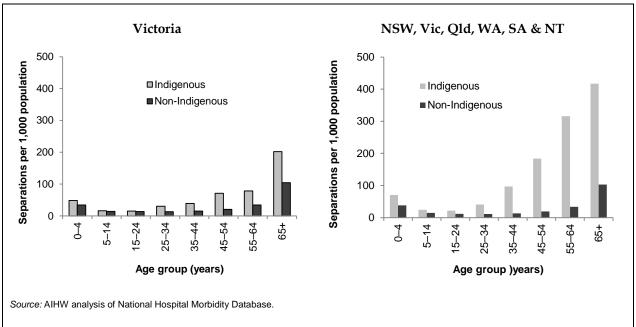


Figure 3.07.1: Age-specific hospitalisation rates for potentially preventable hospital admissions, by Indigenous status, Victoria and NSW, Vic, Qld, WA, SA & NT combined, July 2008 to June 2010

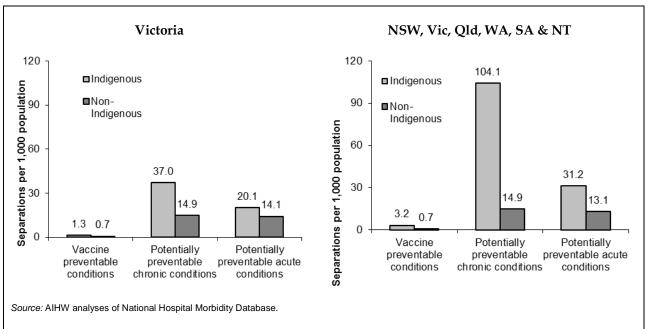


Figure 3.07.2: Age-standardised hospitalisation rates for potentially preventable hospital admissions, by Indigenous status, Victoria and NSW, Vic, Qld, WA, SA & NT combined, July 2008 to June 2010

3.08 Cultural competency

Ensuring that the cultural diversity, rights, views, values and expectations of Aboriginal and Torres Strait Islander people are respected has been identified as an important principle in the delivery of culturally appropriate health services (AHMAC 2003). The National Aboriginal Health Strategy describes a broad Aboriginal view of health as 'not just the physical well-being of the individual but the social, emotional, and cultural well-being of the

whole community'. A set of core measures of cultural competency in health and wellbeing service delivery is being developed by the National Advisory Group on Aboriginal and Torres Strait Islander Health Information and Data (NAGATSIHID) and the National Aboriginal and Torres Strait Islander Health Officials Network (NATSIHON).

Data are presented below on aspects of cultural competency that can be analysed from data available in the Health Performance Framework report, including data on cultural barriers to accessing services, discharge from hospital against medical advice and Indigenous people studying for and employed in health-related occupations.

- In the NATSIHS 2004–05, 1 in 5 Indigenous people in Victoria did not go to a dentist, and about 18% did not visit a doctor, when they needed to. About 26% did not visit a dentist because they disliked the service/professional, felt embarrassed or afraid and 3% did not visit doctor because they felt the service would be inadequate (Table 3.08.1).
- Between July 2008 and June 2010, there were 396 hospitalisations where Indigenous people in Victoria left hospital against medical advice or were discharged at their own risk. This represented about 1.6% of all hospitalisations for Indigenous people, which was 5 times the rate for non-Indigenous people (Table 3.09.1, Appendix 2). See section '3.09 Discharge against medical advice' for more information.
- According to the 2006 Census, there were 460 Indigenous people employed in health-related occupations in Victoria. This represented 0.5% of the state's total Indigenous population aged 15 and over and 0.3% of the state's total health workforce (Table 3.12.1, Appendix 2). See section '3.12 Aboriginal and Torres Strait Islander people in the health workforce' for more information.
- In 2010, it was estimated that there were 127 enrolments of Indigenous undergraduate students in health-related courses, making up 0.7% of the total students in these courses in Victoria (Table 3.20.1, Appendix 2). See section '3.20 Aboriginal and Torres Strait Islander people training for health related disciplines' for more information.

Table 3.08.1: Whether needed to go to a doctor, hospital, dentist or other health professional, by reason didn't go, Aboriginal and Torres Strait Islander people, Victoria and Australia, 2004–05

_	Doctor Hospi		ital	Dentist		Other health professional		
_	Vic	Aust	Vic	Aust	Vic	Aust	Vic	Aust
				Per o	ent			
Needed to go to service in the last 12 months but didn't	18	15	8	7	22	21	13	8
Reasons didn't visit								
Cost	7	12	3	4	28	29	28	28
Transport/distance	12	14	17	19	5	11	5	8
Waiting time too long or not available at time required	19	14	20	16	27	22	4	9
Not available in area	0	4	3	3	4	8	5	7
Too busy (including work, personal or family responsibilities)	18	24	16	16	14	14	17	25
Dislikes (service/professional/afraid /embarrassed)	14	10	24	16	26	21	21	12
Felt it would be inadequate	10	5	3	6	3	2	4	5
Decided not to seek care	27	26	28	25	9	13	17	17
Other	9	11	17	15	6	9	16	12

Source: ABS and AIHW analyses of NATSIHS 2004-05.

Is the health system responsive to needs of Indigenous people?

This section includes measures on the responsiveness of the health system in the following areas: discharge against medical advice, access to mental health services, access to alcohol and other drug treatment services, Aboriginal and Torres Strait Islander people in the health workforce, and competent governance.

3.09 Discharge against medical advice

Discharge against medical advice provides indirect evidence of the extent to which hospital services are responsive to Indigenous Australian patients' needs, and the level of patient satisfaction with hospital services. Feedback on patient experiences, and community views of health-care services and providers are important for shaping health services and policy (AHMAC 2012).

Data are presented on rates at which Aboriginal and Torres Strait Islander people leave hospital against medical advice or are discharged at their own risk. Data for this measure come from the AIHW's National Hospital Morbidity Database. Hospitalisations for mental and behavioural disorders are excluded.

- Between July 2008 and June 2010, about 1.6% of hospitalisations of Indigenous people in Victoria ended with discharge against medical advice. This proportion was lower than that for Indigenous people nationally (2.4%).
- After adjusting for differences in age structure, Indigenous people in Victoria were almost 5 times as likely as non-Indigenous people to discharge against medical advice. Nationally, the rate ratio was 5.1 (Table 3.09.1, Appendix 2).
- Indigenous people in Victoria were much more likely to discharge from hospital against medical advice than non-Indigenous people across all age-groups. Indigenous people aged 25–34 were most likely to discharge from hospital against medical advice in Victoria (2.8%) and nationally (4.9%) (Figure 3.09.1).
- The most common principal diagnoses for hospitalisations for which Indigenous people in Victoria discharged against medical advice were endocrine, nutritional and metabolic disorders (3.2%) followed by diseases of the digestive system and diseases of the skin (3.0%). Indigenous people discharged from hospital against medical advice at 6.4 times the rate of non-Indigenous people for endocrine, nutritional and metabolic disorders, and at 6 and 10 times the rate of non-Indigenous people for diseases of the digestive system and diseases of the skin respectively (Figure 3.09.2).
- Rates for Indigenous people who discharged from hospital against medical advice were lower in Victoria than in Australia for all principal diagnosis categories (Figure 3.09.2, Appendix 2).

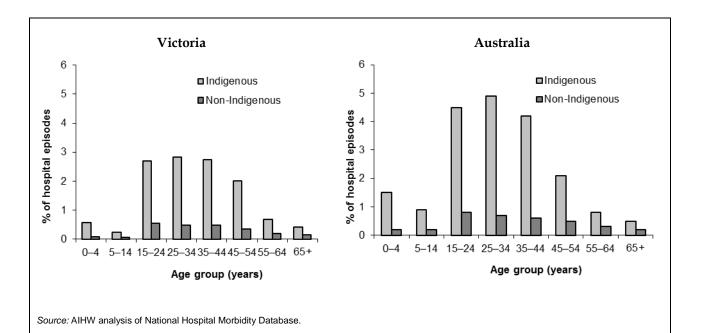
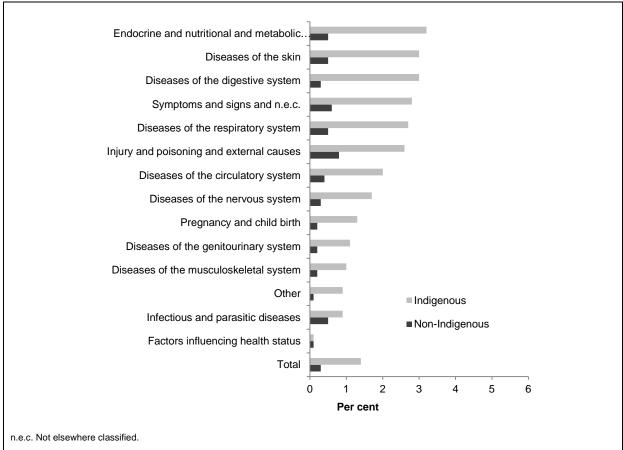


Figure 3.09.1: Percentage of hospital episodes in which patients were discharged against medical advice, by Indigenous status and age group (excluding mental and behavioural disorders), Victoria and Australia, July 2008 to June 2010



Source: AIHW analysis of National Hospital Morbidity Database.

Figure 3.09.2: Percentage (age-standardised) of hospital episodes in which patients were discharged against medical advice, by Indigenous status and principal diagnosis (excluding mental and behavioural disorders), Victoria, July 2008 to June 2010

3.10 Access to mental health services

Most mental health services address mental health conditions once they have emerged rather than the underlying causes of that distress. Nevertheless, early access to effective services can help reduce the consequences of mental health problems and help restore a person's sense of emotional and social wellbeing. Therefore, the accessibility of mental health services for Aboriginal and Torres Strait Islander people is important (AHMAC 2012).

Mental health services

Mental health services include non-specialist services such as community-based health services, Aboriginal and Torres Strait Islander primary health-care services and general practitioner (GP) visits; and specialist services, such as private psychiatrists, state mental health teams, and designated psychiatric services both in general hospitals and in specialist facilities.

Data are presented on access to mental health services as measured by hospitalisations for mental health-related conditions using data from the National Hospital Morbidity Database, and rates of contact with community mental health services using data from the National Community Mental Health Care Database.

- Between July 2008 and June 2010 in Victoria, there were 1,570 hospitalisations of Indigenous people with a principal diagnosis of mental health-related conditions (Figure 3.10.1, Appendix 2).
- Indigenous males were hospitalised at 1.7 times the rate of non-Indigenous males, and Indigenous females were hospitalised at 1.4 times the rate of non-Indigenous females in Victoria.
- Indigenous males in Victoria were hospitalised for mental health-related conditions at a lower rate than Indigenous males in New South Wales, Victoria, Queensland, Western Australia, South Australia and the Northern Territory combined (23 compared with 29 per 1,000), while for Indigenous females, the rate was higher in Victoria than in the six jurisdictions combined (31 compared with 25 per 1,000).
- In 2009–10 in Victoria, there were 32,202 client contacts with community mental health-care services for people who identified as Aboriginal or Torres Strait Islander (1.9% of total service contacts in Victoria).
- Indigenous people in Victoria were 3.1 times as likely as non-Indigenous people to be clients of a community mental health service (971.2 compared with 309.4 per 1,000 population) (Table 3.10.1).
- The rate of contact with community mental health services was higher in Victoria than nationally for both Indigenous (971 compared with 842 per 1,000 population) and non-Indigenous people (309 compared with 262 per 1,000 population).

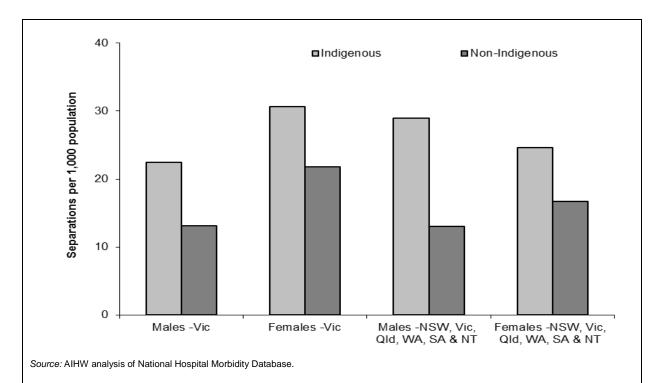


Figure 3.10.1: Age-standardised hospitalisation rates for principal diagnosis of mental health-related conditions by Indigenous status and sex, Victoria and NSW, Vic, Qld, WA, SA & NT combined, July 2008 to June 2010

Table 3.10.1: Community mental health care service contacts per 1,000 population, by Indigenous status, Victoria and Australia, 2009–10

	Victoria	Australia			
		Number			
Indigenous	32,202	430,894			
Non-Indigenous	1,681,351	5,583,400			
Not stated	22,457	579,770			
Total	1,736,010	6,594,064			
	Number p	er 1,000 population ^(a)			
Indigenous	971.2	841.8			
Non-Indigenous	309.4	262.2			
Total	317.7	302.5			
	Rate ratio & Rate difference				
Ratio ^(b)	3.1	3.2			
Rate Difference ^(c)	661.8	579.8			

- (a) Rates were directly age-standardised using the Australian 2001 Standard population.
- (b) Rate ratio Indigenous: non-Indigenous.

Note: Shading indicates that the Indigenous identification in the National Community Mental Health Care Database (NCMHCD) in these jurisdictions is in need of improvement. This is based on information provided by state and territory health authorities on the quality of their data in the NCMHCD. Data from these states and territories should be interpreted with caution due to likely under identification of Indigenous Australians.

Source: AIHW National Community Mental Health Care Database.

3.11 Access to alcohol and drug services

Alcohol and other drug services cover a variety of treatment interventions for alcohol and other drug use. Treatment services which reduce harm from alcohol and other drugs can significantly reduce the occurrence of injuries such as from motor vehicles accidents and assaults, reduce the level of diseases such as liver disease, and reduce the number of social disruptions (AIHW 2006). Reducing drug and alcohol related harm can improve health, social and economic outcomes at both individual and community levels (Steering Committee for the Review of Government Service Provision 2011).

Data are presented on treatment episodes provided to clients accessing alcohol and other drug treatment services using data from the Alcohol and Other Drug Treatment NMDS.

Key findings

• In 2009–10, there were 3,118 treatment episodes of clients of alcohol and other drug treatment services who identified as Aboriginal or Torres Strait Islander in Victoria. This represented 6% of the total treatments episodes in Victoria, much lower than that nationally (13%) (Table 3.11.1, Appendix 2).

3.12 Aboriginal and Torres Strait Islander people in the health workforce

Aboriginal and Torres Strait Islander people are significantly under-represented in the health workforce, which may potentially contribute to reduced access to health services. An Indigenous health workforce is critical to ensuring that the health system has the capacity to

⁽c) Rate ratio difference is equal to Indigenous rate minus non-Indigenous.

address the needs of Aboriginal and Torres Strait Islander people. Indigenous health professionals may be able to better ensure culturally appropriate care in the services they deliver and improve the patient care of Indigenous Australians (Anderson et al 2009).

Data are presented on the number and proportion of Aboriginal and Torres Strait Islander Australians in the health workforce using data from the 2006 Census.

Key findings

- In 2006, there were 381 people aged 15 and over in Victoria who identified as Aboriginal or Torres Strait Islander who were employed in the health workforce (2.4% of Indigenous people aged 15 and over) (Figure 3.12.1). They accounted for 0.3% of the total health workforce, which was lower than the proportion of the Victoria population aged 15 and over that is Indigenous (0.5%) (Table 3.12.1, Appendix 2).
- Nationally, 2.0% of Aboriginal and Torres Strait Islander people aged 15 and over were employed in the health workforce. This accounted for 1.0% of the total health workforce, which is lower than the proportion of the total Australian population aged 15 and over that is Indigenous (1.8%).

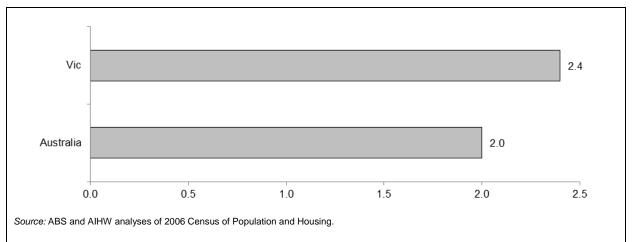


Figure 3.12.1: Aboriginal and Torres Strait Islander people aged 15 and over in the health workforce as a proportion of the total health workforce, Victoria and Australia, 2006

3.13 Competent governance

Governance involves having the processes and institutional capacity to be able to exercise control through sound decision-making. 'Competent governance' requires the means to establish good governance arrangements with the ultimate aim of achieving the social, cultural, and economic developments sought by citizens (Dodson & Smith 2003).

Competent governance in the context of Indigenous health includes the involvement of Aboriginal Community Controlled Health Services which can offer comprehensive primary health care appropriate to Aboriginal and Torres Strait Islander people (AHMAC 2012; Larkins et al. 2006). It must also address the cultural responsiveness of mainstream service delivery for Indigenous clients and effective participation of Indigenous people on management committees, decision-making boards, and other relevant bodies (AHMAC 2012).

Data are presented on a number of measures of competent governance in mainstream and Indigenous-specific health services, including Aboriginal and Torres Strait Islander services participating in mainstream processes using data from the OSR data collection; and barriers to accessing health services using data from the 2008 NATSISS.

Key findings

- In 2009–10 in Victoria, 58% of Indigenous primary health-care services that reported in the OSR data collection had representatives on external boards (for example, hospitals), 85% participated in regional planning forums and 100% were involved in committees on health (for example, steering groups). These proportions were higher than those reported nationally (Table 3.13.1).
- According to the 2008 NATSISS, 27% of Indigenous people aged 15 and over in Victoria reporting problems accessing services. This was slightly lower than the proportion nationally (30%). About 7% of Indigenous people aged 15 and over in Victoria reported problems accessing services due to the service not being culturally appropriate (Figure 3.13.1).
- About 28% of Indigenous people aged 15 and over in Victoria reported that they felt discriminated against in the last 12 months. This was similar to the proportion nationally (27%) (Table 3.13.2, Appendix 2).

Table 3.13.1: Number and proportion of Aboriginal and Torres Strait Islander primary health-care services participating in mainstream processes, Victoria and Australia, 2009–10

	Victoria		Australia	
-	Number	Per cent	Number	Per cent
Representation on external boards (e.g. hospitals)	15	57.7	86	38.6
Participation in regional planning forums (e.g. under the framework agreements)	22	84.6	129	57.8
Involvement in committees on health (e.g. steering groups)	26	100.0	181	81.2
Total	26	100.0	223	100.0

Source: AIHW OSR data collection.

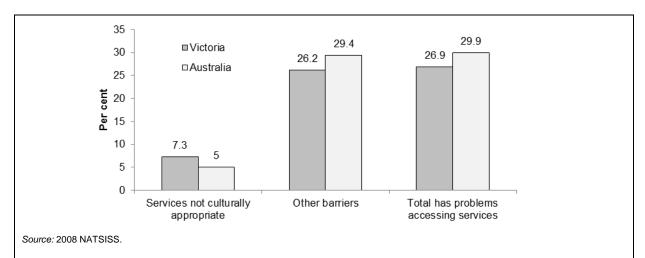


Figure 3.13.1: Barriers to access health service providers, Indigenous persons aged 15 and over who had problems accessing services, Victoria and Australia, 2008

Is health care accessible?

This section includes measures on accessibility of the health system, such as access to services compared with need, and access to after-hours primary health care.

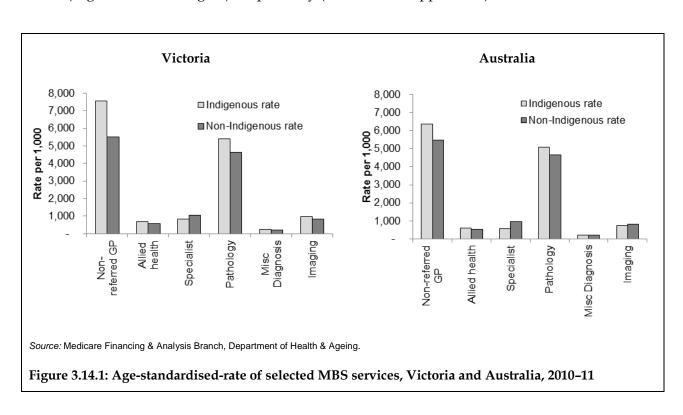
Access to services compared with need

Improving access to health-care services is an important component of ameliorating the demonstrated health inequalities between Indigenous and non-Indigenous Australians (Griew 2008; NACCHO 2009). Monitoring the extent to which health service availability and accessibility meets need is a critical component of policy development. Access to health care when needed is essential to closing the gap in life expectancy.

Data are presented on MBS services claimed and provided, self-reported access to health services and barriers to access using data from the 2008 NATSISS and 2004-05 NATSIHS, hospitalisation rates and waiting times, and episodes of health care provided by Indigenous primary health-care services using data from the OSR data collection.

- In 2010-11 in Victoria, Indigenous Australians had 456,000 Medicare claims of which 228,000 were for non-referred GP consultations. Indigenous Australians were more likely than non-Indigenous Australians to have received services for non-referred GP consultations, allied health, pathology, miscellaneous diagnosis and imaging. Service claims for other MBS services were lower for Indigenous Australians (Figure 3.14.1).
- According to the 2004-05 NATSIHS, after adjusting for differences in age structure a higher proportion of Indigenous people aged 15 and over in Victoria reported that they were admitted to hospital in the last 12 months (22%) than non-Indigenous people aged 15 and over (16%) (Figure 3.14.2).
- In the 2 weeks before the NATSIHS, a higher proportion of Indigenous people than non-Indigenous people in Victoria reported that they consulted a GP and/or specialist doctor (30% and 25% respectively) and other health professionals (20% compared with 16%), while a similar proportion of Indigenous and non-Indigenous people reported they accessed a dentist in the 2 weeks prior to survey (5% and 6% respectively). The above trends were also observed in the proportions of Indigenous and non-Indigenous people accessing the types of health services across Australia.
- In 2008 in Victoria, 16% of Indigenous people aged 15 and over reported problems accessing a dentist, and about 8% reported problems accessing a doctor, 6% problems accessing Aboriginal and Torres Strait Islander Health Workers, 5% problems accessing hospitals and 3% accessing other health workers. The proportion of Indigenous people in Victoria reporting problems accessing these health services was about the same as Indigenous people nationally (Figure 3.14.3).
- Between July 2008 and June 2010, Indigenous people in Victoria were hospitalised at a rate of 341.7 per 1,000 population (excluding dialysis), which was similar to the rate for non-Indigenous Australians (339.2 per 1,000 population). Hospitalisation rates for Indigenous people were lower in Victoria than rates in New South Wales, Victoria, Queensland, Western Australia, South Australia and the Northern Territory combined (Table 3.14.1, Appendix 2). Hospitalisation data for Indigenous Australians in Victoria should be interpreted with caution due to under-identification of Indigenous persons in

- hospital separations data, which is likely to result in an under-estimate of hospitalisation rates for Indigenous persons in Victoria.
- In 2010–11, there were 161,725 episodes of health care provided to Aboriginal and Torres Strait Islander people by Indigenous primary health-care services reporting under the OSR in Victoria (Table 3.14.2, Appendix 2). In 2010–11, the total number of episodes of care provided by these services in Victoria was 200,535, which was lower than the number of episodes of care provided in 2009–10 and about the same as in 2008–09 (Table 3.14.2, Appendix 2).
- In 2010–11, waiting times for elective surgery in public hospitals in Victoria at the 50th percentile (representing number of days within which 50% of people were admitted) was 34 days for Indigenous Australians compared with 36 days for non-Indigenous Australians. Nationally, waiting times at the 50th percentile were 39 days for Indigenous Australians compared with 36 days for non-Indigenous Australians (Table 3.14. 3, Appendix 2).
- About 72% of Indigenous Australians in Victoria were treated within national benchmarks for emergency department waiting times in 2010–11 compared with 70% of other Australians in Victoria. Nationally, these proportions were 66% and 69% respectively. In terms of performance across triage categories, 100% of Indigenous Australians in Victoria were treated within national benchmarks for triage category 1 (need for resuscitation), compared with 72% and 68% for triage categories 3 and 4 (urgent and semi-urgent), respectively (Table 3.14.4, Appendix 2).



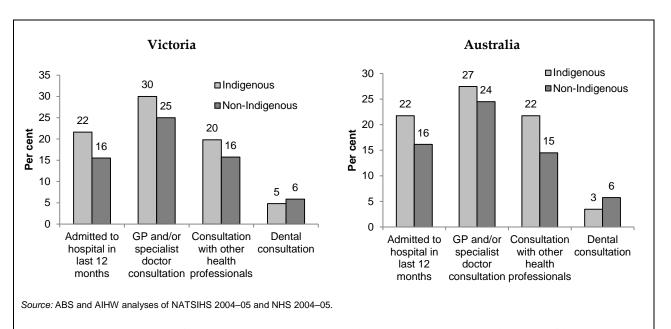


Figure 3.14.2: Percentage of people aged 15 and over who accessed health care, by type of health care, within the last 12 months (hospital) or the last 2 weeks (other health care), by Indigenous status, agestandardised, Victoria and Australia, 2004–05

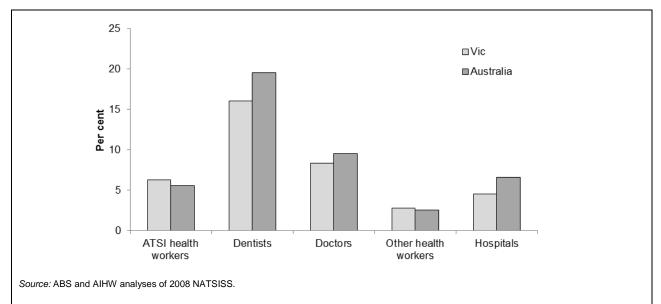


Figure 3.14.3: Problems accessing health services, Indigenous persons aged 15 and over, Victoria and Australia, 2008

3.16 Access to after-hours primary care

An important component of comprehensive primary care services is the capacity for patients to access services after hours. In the absence of after-hours primary health care, patients with more urgent needs may delay seeking care.

After-hours care

After hours medical care is usually medical care provided at any time outside 8am to 6pm on weekdays (that are not public holidays) or 8am to 12pm on a Saturday (AHMAC 2012)

Data are presented on presentations to emergency departments after hours using data from the National Non-admitted Patient Emergency Department Care Database. There are many reasons why people present at after-hours emergency departments, including difficulties accessing primary care during school and work hours.

Key findings

- From July 2008 to June 2010 in Victoria, there were 1,559,966 episodes of care provided after hours in emergency departments, 21,513 (1.4%) of which were for patients identified as Aboriginal or Torres Strait Islander. More than half of all presentations to emergency departments were for after hours care (58% for Indigenous and 56% for non-Indigenous patients) (Table 3.16.1).
- There were 919,467 episodes of after hours care provided by emergency departments for triage categories 4 (semi-urgent) and 5 (non-urgent) in Victoria, 13,628 (1.5%) of which were for patients identified as Aboriginal and Torres Strait Islander. For Indigenous people, 56% of episodes to emergency departments for triage categories semi-urgent and non-urgent were after hours, which was slightly higher than the proportion for non-Indigenous people (54%).

Table 3.16.1: Presentations to emergency departments after hours by Indigenous status of the patient, Victoria and Australia, July 2008 to Jun 2010

	Semi-urgent and non-urgent		Total prese	ntations
_	Victoria	Australia	Victoria	Australia
After hours presentations				
Indigenous	13,628	185,864	21,513	307,001
Non-Indigenous	902,592	3,324,238	1,531,071	5,899,612
Not stated	3,247	189,794	7,382	337,933
Total	919,467	3,699,896	1,559,966	6,544,546
Total emergency department presentations				
Indigenous	24,258	335,796	37,124	533,170
Non-Indigenous	1,673,374	6,150,031	2,735,693	10,573,478
Not stated	5,929	332,699	12,967,434	581,074
Total	1,703,561	6,818,526	2,785,784	11,687,722
Proportion of after-hours presentations out of all presentations to emergency department				
Indigenous	56.2	55.4	57.9	57.6
Non-Indigenous	53.9	54.1	56.0	55.8
Not stated	54.8	57.0	56.9	58.2
Total	54.0	54.3	56.0	56.0

Source: AIHW analysis of National Non-admitted Patient Emergency Department Care Database.

Is there continuity in health care?

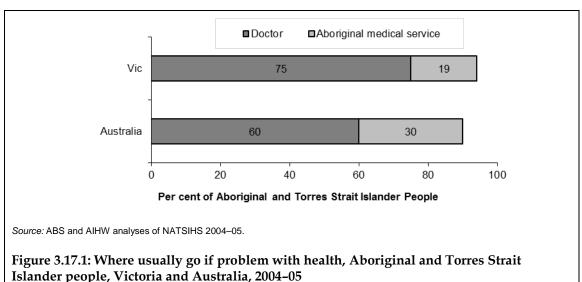
This section includes measures on continuity of health care, such as having a regular GP or health service, and care planning for chronic disease.

3.17 Regular GP or health service

Having a usual primary care provider is associated with good communication between the patient and provider, greater trust in the provider, improved preventive care and better health outcomes (Mainous et al. 2001; Starfield 1998; Starfield & Shi 2004). Effective communication between the patient and provider is particularly relevant to the health of Indigenous Australians where communication issues can lead to health-care problems such as misdiagnosis or incorrect treatment, and lack of trust in the provider (AHMAC 2012).

Data are presented on the proportion of Aboriginal and Torres Strait Islander people who have a regular GP or Aboriginal medical service, using data from the 2004-05 NATSIHS.

- According to the 2004–05 NATSIHS, 92% of Indigenous people in Victoria reported they usually went to the same doctor or medical service. This was similar to the proportion nationally (91%).
- In both Victoria and nationally, Indigenous people aged 55 and over were most likely to report that they usually went to the same doctor or health service (97% and 94% respectively) (Table 3.17.1, Appendix 2).
- In 2004–05 in Victoria, 75% of Indigenous people reported that they usually went to a doctor if they had a problem with their health, and 19% reported they went to an Aboriginal medical service (Figure 3.17.1).
- Nationally, 60% of Indigenous people went to a doctor if they had a problem with their health, and 30% went to an Aboriginal medical service.



3.18 Care planning for clients with chronic diseases

Effective management of chronic disease can delay the progression of disease, decrease the need for high-cost interventions, improve quality of life, and increase life expectancy (AHMAC 2012). The development of care plans is one way in which the client and primary health-care provider can ensure appropriate care is arranged and coordinated. A care plan is a written action plan containing strategies for delivering care that address an individual's specific needs, particularly patients with chronic conditions and/or complex care needs. It can be used to encourage collaboration with other service providers to achieve management goals for the patient, as well as to help encourage the patient to take informed responsibility for their care.

Data are presented on chronic disease management plans using MBS claims data and data from services funded under the Healthy for Life program. Data on written asthma plans are also presented using self-reported data from the 2004–05 NATSIHS.

- Medicare claims data show that there was 2,042 general practitioner management plan services and 1,678 team care arrangements claimed by Indigenous Australians in Victoria in 2010–11. Rates of GPMP and TCAs claimed were slightly lower for Indigenous people in Victoria than for Indigenous people nationally (Figure 3.18.1).
- After adjusting for differences in age structures of the two populations, Indigenous
 Australians in Victoria received more claimed GPMPs than non-Indigenous Australians
 (91 per 1,000 compared with 55 per 1,000) and also had a higher rate of TCAs claimed (77
 per 1,000 compared with 46 per 1,000) (Figure 3.18.1).
- In the 6 months from January to June 2010 in Victoria/Tasmania, of the Indigenous regular clients of HfL services with Type 2 diabetes, 15% had a current GPMP and 13% had a TCA. This was lower than the proportions nationally (26 and 23% respectively) (Table 3.18.1).
- Over the same period, of the Indigenous regular clients of HfL services with coronary heart disease, 20% had a current GPMP and 16% had a TCA. This was lower than the proportions nationally (28 and 23% respectively).
- According to the 2004–05 NATSIHS, of the 5% of Indigenous people in non-remote areas of Victoria who reported having asthma as a long-term health condition, 23% had a written asthma plan, compared with 27% of the non-Indigenous people in non-remote Victoria with asthma. Nationally 25% of Indigenous people and 22% of non-Indigenous people with asthma had a written asthma plan (Table 3.18.1).

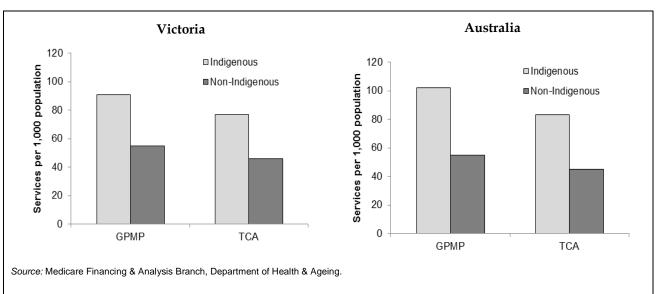


Figure 3.18.1; Rate of GPMPs and TCAs claimed through Medicare, Indigenous and non-Indigenous Australians, Victoria and Australia, 2010-11

Table 3.18.1: Proportion and number of Indigenous regular clients(a) with Type 2 diabetes or coronary heart disease with current chronic disease management plans (GPMP or TCA), Victoria/Tasmania and Australia, 1 January-30 June 2010

	Vic/Tas		Australia	
	Per cent	No.	Per cent	No.
Clients with Type 2 diabetes who had a current GPMP	14.9	162	26.1	3,112
Clients with Coronary heart disease who had a current GPMP	19.9	91	28.1	1,030
Clients with Type 2 diabetes who had a current TCA	12.5	136	22.8	2,566
Clients with Coronary heart disease who had a current TCA	16.4	75	22.6	792

⁽a) Indigenous regular clients aged 15 and over.

Source: AIHW HfL data collection.

Table 3.18.1: Whether person(s) in non-remote areas have a written asthma action plan by Indigenous status, Victoria and Australia, 2004–05

Jurisdiction	Does have a written asthma action plan	Does not have a written asthma action plan	Never heard of a written asthma action plan	Total ^(a)	Total with asthma	Total people with asthma
		Р	er cent			No.
Victoria						
Indigenous	22.9	70.1	6.3	100.0	4.7	5,904
Non-Indigenous	26.5	65.8	7.5	100.0	7.7	496,570
Rate ratio	0.9	1.1	0.8		0.6	
Australia						
Indigenous	24.7	66.9	6.9	100.0	17.7	59,777
Non-Indigenous	22.4	71.9	5.2	100.0	10.2	1,939,245
Rate ratio	1.1	0.9	1.3		1.7	

⁽a) Includes 'not known if has a written asthma action plan', which represents 1.5% of Indigenous people and 0.5% of non-Indigenous people with asthma in non-remote areas.

Note: Data have been directly age standardised using the 2001 Australian Standard population.

Source: AIHW analyses of NATSIHS 2004-05 and NHS 2004-05.

Is the health system capable and sustainable?

This section includes measures on the capability and sustainability of the health system, such as accreditation, Aboriginal and Torres Strait Islander people training for health-related disciplines, health expenditure, and recruitment and retention of staff.

3.19 Accreditation

Accreditation is a process, usually voluntary, through which a recognised external body assesses the extent to which a health-care organisation meets applicable quality standards. Accreditation status provides one measure of the capability of services, based on their skills and knowledge, to provide quality health services to Aboriginal and Torres Strait Islander people (AHMAC 2012).

Accreditation for hospitals and general practice in Australia

In Australia, there are accreditation systems for hospitals and general practice. Most hospitals are accredited by the Australian Council of Healthcare Standards Evaluation and Quality Improvement Program. Accreditation in general practice involves assessment against standards set by the Royal Australian College of General Practitioners and is undertaken through two registered providers of general practice accreditation in Australia; Australian General Practice Accreditation Limited (AGPAL) and General Practices Australia (GPA+).

Data are presented on the proportion of Aboriginal and Torres Strait Islander hospital separations that occurred in accredited hospitals using data from the National Public Hospitals Establishments Database. Data are also presented on the accreditation of general practices using data from AGPAL and GPA+.

- Between July 2008 and June 2010 in Victoria, all of hospital admitted episodes for both Indigenous and non-Indigenous people occurred in accredited hospitals (Figure 3.19.1). In Australia, 96% of hospital admitted episodes for Indigenous people occurred in accredited hospitals compared with 97% of episodes for non-Indigenous people.
- In 2010-11 in Victoria, 493 general practices were accredited and 193 practices were registered but not yet accredited. The proportion of general practices that were accredited was 74%, which was higher than the proportion nationally (71%).
- In Victoria, the proportion of accredited general practices ranged from 68% in areas where 2-3% of the population was Indigenous to 79% in areas where 3-4% of the population was Indigenous (Figure 3.19.2). Note that there were no areas in Victoria where 4–10% or more than 10% of the population were Indigenous.

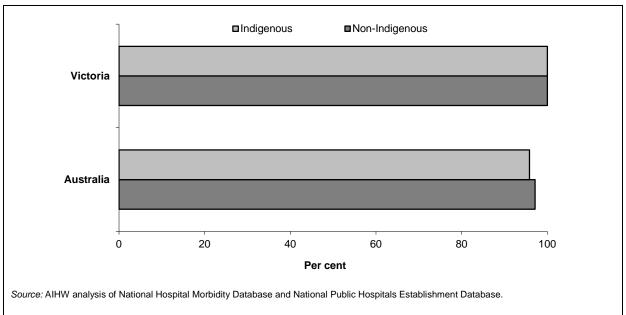
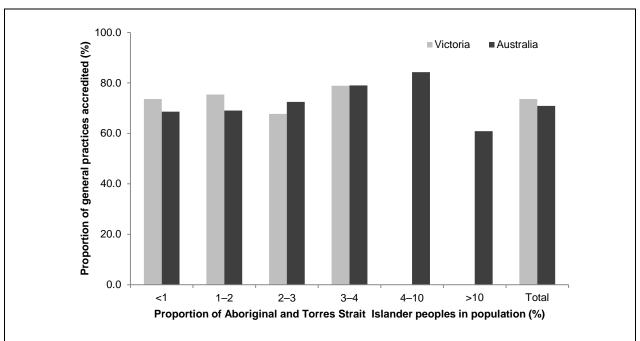


Figure 3.19.1: Percentage of hospital admitted patent episodes in accredited hospitals, by Indigenous status, Victoria and Australia, July 2008 to June 2010



Source: AIHW analyses of Australian General Practice Accreditation Limited (AGPAL) and General Practice Accreditation Plus (GPA+) data.

Figure 3.19.2: Proportion of general practices accredited, by proportion of Aboriginal and Torres Strait Islander people in population for Divisions of General Practice, Victoria and Australia, 2010–11

3.20 Aboriginal and Torres Strait Islander people training for health-related disciplines

Aboriginal and Torres Strait Islander people are significantly under-represented in the health workforce. Improving the participation of Aboriginal and Torres Strait Islander people in tertiary education for health-related disciplines is critical to increasing Aboriginal and Torres Strait Islander participation in the health workforce, and creating a workforce better capable of working with Indigenous Australians to improve health.

Data are presented on the proportion of Aboriginal and Torres Strait Islander Australians in tertiary education for health-related disciplines using data from the DEEWR Higher Education Statistics Collection and the National Centre for Vocational Education Research (NCVER) National VET Provider Collection.

- In 2010 in Victoria there were 127 enrolments in health-related courses by Indigenous undergraduate domestic students, which was 0.7% of total undergraduate enrolments. In the same year there were 20 completions in health-related courses by Indigenous undergraduate students, which was 0.5% of total undergraduate completions in health-related courses (Table 3.20.1).
- In Victoria, the most common type of health-related courses in which Indigenous students were enrolled or had completed in 2010 was nursing (88 enrolled and 13 completed).
- In 2010 in Victoria, there were 377 Indigenous students enrolled in health-related courses in the VET sector and 8 Indigenous students who completed a health-related course in the VET sector. This was 0.9% and 0.2% of total VET enrolments and completions in

- health-related courses, respectively (Table 3.20.2). This was lower than the proportions nationally (4.7% of enrolments and 3.5% of completions) (Table 3.20.2, Appendix 2).
- In Victoria, the most common type of health-related courses in which Indigenous VET students were enrolled was public health (219 enrolled and 3 completed).

Table 3.20.1: Number of undergraduate domestic students^(a) enrolled and completed^(a) healthrelated courses in the tertiary education sector, by qualification type, Victoria, 2010

	Enrolled			Completed			
	Aboriginal & Torres Strait Islander	Total	Per cent Aboriginal & Torres Strait Islander	Aboriginal & Torres Strait Islander	Total	Per cent Aboriginal & Torres Strait Islander	
Medical studies	21	3,003	0.7	< 10	495		
Nursing	88	7,205	1.2	13	1,684	0.8	
Pharmacy	< 10	1,010		< 10	258		
Dental studies	< 10	440		0	82	0.0	
Optical science	< 10	173		0	33	0.0	
Public health	< 10	2,977		0	293	0.0	
Radiography	0	197	0.0	0	44	0.0	
Rehabilitation therapies	< 10	3,483		< 10	778		
Total	127	17,226	0.7	20	3,652	0.5	

The data takes into account the coding of Combined Courses to two fields of education. As a consequence, counting both fields of education for Combined Courses means that the totals may be less than the sum of all fields of education.

Source: AIHW analyses of Department of Education, Employment and Workplace Relations (DEEWR) Higher Education Statistics Collection.

Table 3.20.2: Vocational education and training sector students enrolled and completed(a) healthrelated courses, Victoria, 2010

	Enrolled			(Completed ^(b)	
	Aboriginal & Torres Strait Islander	Total	Per cent Aboriginal & Torres Strait Islander	Aboriginal & Torres Strait Islander	Total	Per cent Aboriginal & Torres Strait Islander
Medical studies	0	100	0.0	0	0	n.a.
Nursing	40	7,524	0.5	2	1,338	0.1
Pharmacy	0	74	0.0	0	2	0.0
Dental studies	4	1,182	0.3	0	458	0.0
Optical science	4	651	0.6	0	177	0.0
Public health	219	15,404	1.4	3	664	0.5
Rehabilitation therapies	0	34	0.0	1	25	4.0
Complementary therapies	8	1,992	0.4	0	399	0.0
Other health	102	13,734	0.7	2	992	0.2
Total	377	40,695	0.9	8	4,055	0.2

⁽a) Represents number of enrolments and completions, students may be enrolled and complete more than one course.

Source: AIHW analyses of National Centre for Vocational Education Research (NCVER), National VET Provider Collection 2010.

The number of qualifications completed in 2010 is based on preliminary data and will be revised upwards in the next collection.

3.21 Expenditure on Aboriginal and Torres Strait Islander health compared to need

Regular reporting of health expenditure is central to understanding the needs of the Indigenous population and how they are being met. The information is important for policy makers, program managers, community members, and all others interested in Indigenous health issues. The universal health-care system of Australia is intended to provide equal opportunities to all segments of the population, including Aboriginal and Torres Strait Islander people, to access health care facilities. However, in addition to mainstream services, several programs aimed at Indigenous Australians have been funded by the Australian Government and state/territory governments to improve the health of this population.

Data is reported on government expenditure on health for Aboriginal and Torres Strait Islander people compared with other Australians using data from the AIHW Health Expenditure database.

- In 2008–09 in Victoria, the Victorian Government was estimated to have spent, on average, \$4,131 per Indigenous people compared with \$1,767 per non-Indigenous people. This represents an Indigenous/non-Indigenous expenditure ratio of 2.3 (Table 3.21.1).
- Throughout Australia, state/territory governments were estimated to have spent, on average, \$4,758 per Indigenous people, compared with \$1,915 per non-Indigenous people, equating to an Indigenous/non-Indigenous expenditure ratio of 2.5.
- The Victorian Government spent more per person for Aboriginal and Torres Strait Islander people than for non-Indigenous people for almost all types of health goods and services, except for private hospital services and patient transport.
- The ratio of Indigenous to non-Indigenous expenditure was higher in Victoria than nationally for community health services (6.5 compared with 4.5), public health services (4.7 compared with 2.9) and research (3.0 compared with 1.3). Conversely, the ratio of Indigenous to non-Indigenous expenditure was lower in Victoria than nationally for patient transport (1.0 compared with 2.3), dental services (1.5 compared with 2.5) and public hospital services (1.9 compared with 2.3) (Table 3.21.1).

Table 3.21.1: Estimated state and territory health expenditure per person for Indigenous and non-Indigenous people, by area of expenditure, Victoria and Total, 2008-09

		Victoria			Total	
	Expenditure	e per person (\$)		Expenditu	e per person (\$)	
	Indigenous	Non-Indigenous	Ratio	Indigenous	Non-Indigenous	Ratio
Public hospital services	2,674	1,402	1.9	3,283	1,458	2.3
Admitted patient services ^(a)	2,013	1,096	1.8	2,554	1,122	2.3
Non-admitted patients	661	306	2.2	729	336	2.2
Private hospital services	6	13	0.5	11	16	0.7
Patient transport	92	92	1	209	92	2.3
Dental services	37	25	1.5	72	29	2.5
Community health services (b)	935	144	6.5	910	204	4.5
Public health services (b)	313	67	4.7	214	73	2.9
Research	74	25	3	30	23	1.3
Health administration ^(c)				29	20	1.5
Total health expenditure	4,131	1,767	2.3	4,758	1,915	2.5

⁽a) Admitted patient expenditure adjusted for Aboriginal and Torres Strait Islander under-identification.

Source: AIHW 2011.

3.22 Recruitment and retention of staff

The capacity to recruit and retain appropriate staff is extremely important to the quality, continuity and sustainability of health-care services, including Aboriginal and Torres Strait Islander primary health-care services, particularly in rural and remote areas.

Data are presented on the number of positions that are currently vacant in Indigenous primary health-care services using data from the OSR collection. Data for Victoria has been combined with Tasmania due to small numbers.

Key findings

For 2010-11 in Victoria/Tasmania combined, 2.3% of full-time equivalent (FTE) health staff positions and 0.7% of administrative and support staff positions in Aboriginal and Torres Strait Islander primary health-care organisations were vacant (Figure 3.22.1). This was lower than the proportions of staff vacancies nationally (5.7% of the FTE health staff positions and 1.0% of administrative and support staff positions).

⁽b) Includes other recurrent expenditure on health, not elsewhere classified, such as family planning previously reported under 'Other health services (n.e.c.)'.

Health administration costs for New South Wales, Victoria, Tasmania and the Northern Territory are zero, as these jurisdictions have allocated administrative expenses into the functional expenditure categories in the table.

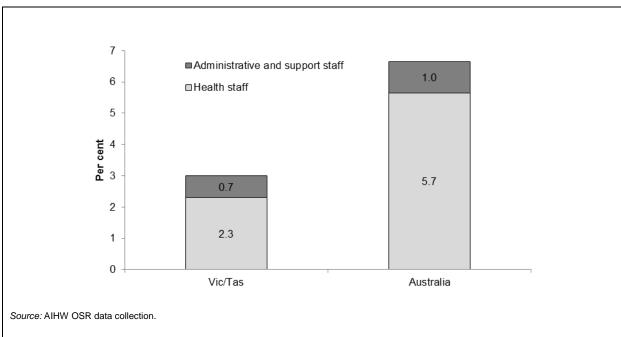


Figure 3.22.1: Vacancies as a percentage of total positions (FTE) in Aboriginal and Torres Strait Islander primary health care organisations, Victoria/Tasmania and Australia, 2010–11

Appendix 1 Data sources and quality

Alcohol and Other Drug Treatment Services National Minimum Data Set

The Alcohol and Other Drug Treatment Services National Minimum Data Set (AODTS-NMDS) is a collection of data from all publicly funded (at state, territory and/or Australian Government level) government and non-government agencies that provide one or more specialist alcohol and/or other drug treatment services. The NMDS counts treatment episodes completed during the collection period.

There is a diverse range of alcohol and other drug treatment services in Australia and not all of these are in the scope of the AODTS-NMDS. Clients receiving services that are funded solely by the Office for Aboriginal and Torres Strait Islander Health as Indigenous substance use services, Aboriginal primary health-care services, Aboriginal medical services and community controlled health services are not currently included in the scope of the AODTS-NMDS.

In indicator:

3.11 Access to alcohol and drug services

Quality statement: http://meteor.aihw.gov.au/content/index.phtml/itemId/498552>.

Australia and New Zealand Dialysis and Transplant Registry

In Australia, persons who develop end-stage renal disease (ESRD) and undertake dialysis or kidney transplantation are registered with the Australia and New Zealand Dialysis and Transplant Registry (ANZDATA). The registry is the most comprehensive and reliable source of information on persons treated for ESRD. It compiles data on incidence and prevalence, renal complications, comorbidities and patient deaths. The current registry began in 1977 and is coordinated by the Queen Elizabeth Hospital in Adelaide. All relevant hospitals and related satellite units in Australia and New Zealand participate.

Indigenous identification is based on self-identification and discussion with the treating nurse or physician, and is often based on identification in hospital records. However, because of the heightened awareness of the extent of renal disease in Indigenous Australians and the prolonged and repeated contact with renal units in hospitals, it is believed that Indigenous identification in the registry is more complete than in general hospital data (Cass et al. 2001).

In indicator:

1.10 Kidney disease

Australian Cancer Database

Each state and territory has its own cancer registry that draws on a number of sources; notifications from pathology laboratories, radiation oncology units, hospitals and registrars of births, deaths and marriages. Hospital admissions and deaths data allow for the collection and reporting of Indigenous status, whereas there is currently no Indigenous identifier in pathology forms, and inconsistent reporting through referring GPs/specialists/surgeons. Indigenous status is recorded for radiation oncology services in New South Wales, Queensland and the Northern Territory only.

Each jurisdictional cancer registry supplies data annually to the AIHW, which is compiled into the Australian Cancer Database. Indigenous identification is incomplete for all cancer registries, however, it has been assessed by the AIHW as having sufficient quality to report for Western Australia, Queensland, New South Wales and the Northern Territory. For current period reporting, 5 years of combined data are presented for these four jurisdictions. Time-series data by Indigenous status are not able to be reported.

In indicator:

• 1.08 Cancer

Quality statement: http://meteor.aihw.gov.au/content/index.phtml/itemId/500417.

Australian Childhood Immunisation Register

The Australian Childhood Immunisation Register (ACIR) is a national register that records details of vaccinations given to children aged under 7 who live in Australia. Immunisation coverage is produced at the national, state/territory and local level on a quarterly basis using the data recorded on the ACIR.

Coverage estimates for Aboriginal and Torres Strait Islander children include only those who identify as such and are registered on the ACIR. Children identified as Indigenous on the ACIR may not be representative of all Aboriginal and Torres Strait Islander children, and thus coverage estimates should be interpreted with caution.

Vaccination coverage is a measure of the proportion of people in a target population who have received the recommended course of vaccinations at a particular age.

In this report, children for whom Indigenous status was not stated are included with 'non-Indigenous' under the 'other' category.

In indicator:

• 3.02 Immunisation

BreastScreen Australia

BreastScreen Australia is a comprehensive population-based screening program for breast cancer. It consists of a network of dedicated screening and assessment services throughout urban, rural and remote areas of all states and territories. The program provides free biennial mammographic screening and follow-up of any suspicious lesions identified at screening to the point of diagnosis. It is aimed specifically at asymptomatic women aged 50–69, with a participation target of 70%. However, women aged 40–49, and 70 and older are able to attend for screening (AIHW 2011c).

The national program was established in 1991. It is a joint program of the Australian Government and state and territory governments. BreastScreen Australia is monitored annually and reported at the national level by the AIHW in the BreastScreen Australia monitoring report.

The standard ABS question is used to record Indigenous status in this database. While self-reported data are generally a robust source of data on Aboriginal and Torres Strait Islander status (AIHW 2011c), a significant cause of concern with the accuracy of these data is that some jurisdictions do not allow for the 'not stated' category. Further, some Aboriginal and Torres Strait Islander women may choose not to identify as such when presenting to a BreastScreen Australia service. The participation rate for Indigenous women in breast

screening should be treated with caution as it is not known how many women do not report their Indigenous status (AIHW 2011c).

In indicator:

3.04 Early detection and early treatment

Quality statement: http://meteor.aihw.gov.au/content/index.phtml/itemId/491846>.

Census of Population and Housing

The Census of Population and Housing is conducted by the ABS every 5 years, and is designed to include all Australian households. The Census uses the ABS standard Indigenous status question for each household member.

Although the Census data are adjusted for undercount at the person level to arrive at the estimated resident population, no such adjustment is done at the household level. This affects the accuracy of the person counts at the household level to provide adjusted household estimates.

The 2011 Census is the most recent, however, data for the Indigenous population was not yet released at the time of writing this report. Therefore, data in this report come from the 2006 Census. In 2006, the ABS enhanced the sample for the Post-Enumeration Survey to include remote areas. The measured undercount for Indigenous Australians was 11.5%.

In indicators:

- 1.14 Disability
- 1.19 Life expectancy at birth
- 2.01 Housing
- 2.02 Access to functional housing with utilities
- 2.09 Index of disadvantage
- 2.13 Transport
- 3.12 Aboriginal and Torres Strait Islander people in the health workforce

Community Mental Health Care Database

Information on the use of community mental health services by Indigenous people is available from the AIHW National Community Mental Health Care Database (NCMHCD). The NCMHCD is a collation of data on specialised mental health services provided to nonadmitted patients, in both government-operated community and hospital-based ambulatory care services, for example, community mental health services, outpatient clinics and day clinics.

The quality of the Indigenous identification in this database varies by jurisdiction and should be interpreted with caution. All state and territory health authorities provided information on the quality of the data for the NCMHCD 2009-10. New South Wales, Victoria, Western Australia, Tasmania, and the Australian Capital Territory considered the quality of Indigenous status data to be acceptable. Queensland reported that the quality of Indigenous status data was acceptable at the broad level, however, there are quality issues regarding the coding of more specific details (that is, Aboriginal, Torres Strait Islander, or Both Aboriginal and Torres Strait Islander). Northern Territory considered the quality to be below the previous year's standard as a result of lack of compliance with non-mandated data collection

items by new external (non-mental health) health service provider data entry. South Australia indicated that the quality of these data is uncertain at this stage.

In indicator:

• 3.10 Access to mental health services

Deaths in Custody Australia

As a requirement of the Deaths in Custody Royal Commission, the Australian Institute of Criminology collects data on deaths in custody each year for all jurisdictions. Data collected include custodial authority (police, prison, juvenile justice/welfare), legal status (sentenced or unsentenced), cause of death, manner of death, location of death and most serious offence.

Indigenous status is determined by previous self-identification to prison authorities.

In indicator:

2.11 Contact with criminal justice system

Department of Education, Employment and Workplace Relations Higher Education Statistics Collection

The Australian Government Department of Education, Employment and Workplace Relations (DEEWR) is the responsible agency for the Higher Education Statistics Collection, which includes information from higher education institutions, such as universities and vocational education and training colleges. This data collection contains statistics relating to students enrolled in higher education courses between 1 January and 31 December of each year in each Australian higher education provider.

Although universities design and produce their own enrolment forms, DEEWR has provided institutions with suggested wording for questions relating to Indigenous status (ABS 2003). About 3% of students in this data collection have a 'not stated' Indigenous status. At the moment these are recorded as non-Indigenous, although plans are under way to record the 'not stated' responses separately.

In indicators:

• 3.20 Aboriginal and Torres Strait Islander people training for health-related disciplines

Disability Services National Minimum Data Set

The purpose of the Disability Services National Minimum Data Set (DS NMDS) collection is to facilitate the annual collation of nationally comparable data about disability services, and to obtain reliable, consistent data with minimal load on the disability services field. Under the National Disability Agreement (NDA), the Disability Administrators in all Australian jurisdictions are responsible for ensuring that DS NMDS information will be comparable across all jurisdictions and years.

Services within the scope of the collection are those for which funding has been provided, during the specified period, by a government organisation operating under the NDA. Therefore, if a service type outlet did not receive NDA funding for the 2009–10 collection (i.e. its NDA funding dollars for the financial year are zero), then details of this outlet should not be included in the data collection.

A funded agency may receive funding from multiple sources. Where a funded agency is unable to differentiate service users and/or staff according to funding source (i.e. NDA or other), they are asked to provide details of all service users and staff (for each service type).

Most agencies funded under the NDA are asked to provide information about:

- each of the service types they are funded to provide (i.e. service type outlets they operate);
- all service users who received support over a specified reporting period; and
- the DS NMDS service type(s) the service user received.

The level of information a funded agency is asked to provide varies according to the particular service type (i.e. for each service type outlet).

In indicator:

1.14 Disability

Health Expenditure Data

The AIHW reports biennially on expenditure on health for Aboriginal and Torres Strait Islander people. The latest report in the series, *Expenditure on health for Aboriginal and Torres* Strait Islander people 2008–09, was released in 2011.

There are a number of difficulties in reporting on Indigenous health expenditure, including limitations in the scope and definition of health expenditure, as well as inconsistencies in reporting expenditure on health goods and services across data providers. Under-identification (where Indigenous people are not identified as such) and undercoverage (where the sample does not reflect the true population structure) of Indigenous Australians in health data collections (such as hospital separations) are further issues that affect data quality. Although under-identification adjustments are made to the data, the adjusted estimates may be an overestimate or under-estimates of actual health service use and expenditure by Indigenous people. The allocation of expenditure to Indigenous people either on an overall population or per capita basis should also be treated with caution, as Indigenous population estimates have similar issues of under-coverage and underidentification (AIHW 2009).

Estimates of the level of Indigenous under-identification were used to adjust some reported expenditure. In some states and territories, a single state wide average under-identification adjustment factor was applied. In others, differential under-identification factors were used, depending on the region in which the particular service(s) were located. In some jurisdictions, no Indigenous under-identification adjustment was considered necessary.

In indicators:

3.21 Expenditure on Aboriginal and Torres Strait Islander health compared with need Quality statement: http://meteor.aihw.gov.au/content/index.phtml/itemId/489552>.

Healthy for Life

The Healthy for Life (HfL) program is an ongoing program funded by the Office for Aboriginal and Torres Strait Islander Health of the Australian Government Department of Health and Ageing (DoHA). The program aims to improve the capacity and performance of primary health-care services to deliver high-quality maternal, children's and chronic disease care to Aboriginal and Torres Strait Islander people. This is carried out through population health approaches using best-practice and quality improvement principles.

Services participating in the HfL program are required to submit de-identified, aggregate service data for 11 essential indicators. These indicators cover maternal health, child health and chronic disease care on a regular basis (6 and 12 months), as well as information about the characteristics of their service and organisational infrastructure.

The Australian Government and the AIHW are working with the states and territories to develop a national key performance indicator (KPI) framework for Indigenous primary health-care services. The new national KPIs will replace the Healthy for Life program essential indicators and cover maternal and child health and chronic disease management. The AIHW is leading the development and refinement of the indicators, data standards and analyses and reporting back to services. The national KPI data collection will be implemented in three stages, with roll-out in 2012 and 2013.

In indicators:

- 3.05 Chronic disease management
- 3.18 Care planning for clients with chronic diseases

Medicare Database

Medicare enrolment application forms are lodged by persons wishing to enrol with Medicare at Medicare offices in each state/territory or by mail. Information from these forms is entered directly into the Medicare database, which is held by DoHA.

In November 2002, the ABS standard question on Indigenous identification was included on this form. The question is asked in relation to the cardholder and any other family member named on the card. Responding to the question is voluntary and there is an explanation of the reasons for the question and the use of the data included on the form. This is referred to as the Voluntary Indigenous Identifier (VII).

Because the VII was only introduced recently, the coverage of Aboriginal and Torres Strait Islander Australians in this database is not complete.

As at 1 February 2011, 297,000 Indigenous Australians were enrolled on the VII database. This represents 52.7% of the estimated total Indigenous population (DoHA 2012, unpublished).

Medicare data presented in this report have been adjusted for under-identification. There are a number of caveats to the VII adjustment methodology, including that as the VII sample is generated voluntarily, it is not truly random and cannot be perfectly representative of the Indigenous population until full coverage is achieved. There could therefore be biases in the data that are not addressed by the adjustment methodology.

In indicator:

3.04 Early detection and early treatment

National Aboriginal and Torres Strait Islander Health Survey

The 2004–05 National Aboriginal and Torres Strait Islander Health Survey (NATSIHS) collected information from 10,439 Indigenous Australians of all ages. This sample was considerably larger than the supplementary Indigenous samples in the 1995 and 2001 National Health Surveys. The survey was conducted in remote and non-remote areas of

Australia and collected a range of information from Indigenous Australians. This included information on health-related actions, health risk factors, health status, socioeconomic circumstances and women's health. The survey provides comparisons over time in the health of Indigenous Australians. Selected non-Indigenous comparisons are available through the 2004-05 National Health Survey (NHS).

It is planned to repeat the NATSIHS every 6 years, with the next one to be conducted during 2012–13 as part of the Australian Health Survey (will be called the Australian Aboriginal and Torres Strait Islander Health Survey, or ATSIHS).

In indicators:

- 1.05 Circulatory disease
- 1.07 High blood pressure
- 1.09 Diabetes
- 1.15 Ear health
- 2.16 Risky and high-risk alcohol consumption
- 2.18 Level of physical activity
- 2.19 Dietary behaviour
- 2.22 Overweight and obesity
- 3.02 Immunisation
- 3.14 Access to services compared with need
- 3.17 Regular GP or health service
- 3.18 Care planning for clients with chronic diseases

National Aboriginal and Torres Strait Islander Social Survey

The ABS conducted the 2002 National Aboriginal and Torres Strait Islander Social Survey (NATSISS) between August 2002 and April 2003. The 2008 NATSISS was conducted between August 2008 and April 2009. The survey provides information about the Aboriginal and Torres Strait Islander populations of Australia for a wide range of areas of social concern including health, education, culture and labour force participation. For the first time, the 2008 NATSISS included children aged under 15. The NATSISS will be conducted every 6 years, with the next one planned for 2014.

The 2008 NATSISS collected information by personal interview from 13,300 Indigenous Australians across all states and territories of Australia, including those living in remote areas. The sample covered persons aged 15 and over who are usual residents in selected private dwellings. It collected information on a wide range of subjects, including family and culture, health, education, employment, income, financial stress, housing, and law and justice.

The 2008 NATSISS has a relatively large level of under-coverage when compared with other ABS surveys. There was also an increase in under-coverage compared with previous ABS Indigenous surveys. For example, the estimated under-coverage in the 2004-05 NATSIHS was 42%. The overall under-coverage rate for the 2008 NATSISS is about 53% of the in-scope population at the national level. This rate varies across the states and territories (ABS 2010).

Time series comparisons for the 2008 survey are available through the 1994 National Aboriginal and Torres Strait Islander Social Survey and the 2002 NATSISS. However, not all data elements align across the three (1994, 2002 and 2008) NATSISS surveys, hence care is required when reviewing results across the three surveys. There are no strictly comparable non-Indigenous results available for the 2008 NATSISS because the latest General Social Survey (which has been used in the past to compare with Indigenous results from the NATSISS) was run in 2006, with the next being run in 2010. Data from other ABS surveys run in 2008 may, however, be used to obtain rough non-Indigenous comparisons for some data items. Where possible, the ABS has provided recommendations for non-Indigenous data comparisons these have been adopted in this report.

In indicators:

- 1.11 Oral health
- 1.15 Ear health
- 1.14 Disability
- 1.13 Community functioning
- 1.17 Perceived health status
- 1.18 Social and emotional wellbeing
- 2.02 Access to functional housing with utilities
- 2.01 Housing
- 2.03 Environmental tobacco smoke
- 2.06 Educational participation and attainment of adults
- 2.08 Income
- 2.10 Community safety
- 2.13 Transport
- 2.14 Indigenous people with access to their traditional lands
- 2.15 Tobacco use
- 2.17 Drug and other substance use including inhalants
- 2.19 Dietary behaviour
- 3.14 Access to services compared with need

National Assessment Program—Literacy and Numeracy

The first National Assessment Program – Literacy and Numeracy (NAPLAN) tests were conducted in May 2008 for all Years 3, 5, 7 and 9 students in government and nongovernment schools. For the first time, all students in the same year level were assessed on the same test items in the domains of reading, writing, language conventions (spelling, grammar and punctuation) and numeracy. Before 2008, students had undertaken different tests in each state and territory. NAPLAN results are reported using five national achievement scales, one for each of the assessed aspects of literacy – reading, writing, spelling, grammar and punctuation – and one for numeracy. These reporting scales are constructed so that any given scaled score represents the same level of achievement over time (2008 NAPLAN annual report).

Student achievements for literacy and numeracy are reported on five national achievement scales. The scales consist of 10 bands to cover the full range of student achievement across Year 3 to Year 9. School participation data are not collected.

The non-response for Aboriginal and Torres Strait Islander status is about 3% nationally. This information is captured from student test book covers where 3% of students did not state their Indigenous status on the test book cover.

In indicator:

2.04 Literacy and numeracy

National Child Protection Australia

There are three national child protection data collections:

- child protection notifications, investigations and substantiations
- children on care and protection orders
- children in out-of-home care.

These data are collected each year by the AIHW from the relevant departments in each state and territory. Each state and territory has its own legislation, policies and practices in relation to child protection, which accounts for some of the differences between jurisdictions in the data provided. Australian totals have not been provided for those data that are not comparable across the states and territories.

The practices used to identify and record the Indigenous status of children vary across states and territories, with some jurisdictions recording large numbers of unknowns. No state or territory can validate the data on Aboriginal and Torres Strait Islander children by other means and the quality of the data is therefore unknown.

In this collection, children are counted as Indigenous if they are identified as such in the state and territory collections. Children whose Indigenous status is recorded as 'unknown' are excluded, where possible, from calculations of rates and proportions. The counts for Aboriginal and Torres Strait Islander children are therefore likely to be an underestimates of the actual number of Aboriginal and Torres Strait Islander children in the child protection system.

Note that Tasmania and the Australian Capital Territory have very small numbers, and statistics from these jurisdictions are susceptible to random fluctuations.

Reported rates for Aboriginal and Torres Strait Islander children in the child protection system for 2008-09 and later cannot be compared directly with those from previous years in earlier AIHW Child protection Australia publications. In previous years, rates were calculated using ABS Indigenous population data from the 1996 and 2001 Census; the latter projections are based on the data from the 2006 Census. For time series analyses presented in this measure, rates have been reported as they were in the corresponding referenced publications.

In indicator:

2.12 Child protection

National Hospital Morbidity Database

The National Hospital Morbidity Database is a compilation of episode-level records from admitted patient morbidity data collection systems in Australian hospitals in each state and territory. Information on the characteristics, diagnoses and care of admitted patients in public and private hospitals is provided annually to the AIHW by state and territory health departments.

Hospitalisation data are presented for the 2 years from July 2008 to June 2010. An aggregate of 2 years of data has been used, because the number of hospitalisations for some conditions is likely to be small for a single year.

Hospital records are for 'separations' and not individuals, and as there can be multiple admissions for the same individual, hospital separation rates do not usually reflect the incidence or prevalence of the disease or condition in question. For example, it is not possible to identify whether one patient was admitted 5 times or five patients were admitted once. People who receive treatment at hospital but are not admitted are not counted in hospital records. Hospital separation data are also affected by variations in admission practices, and the availability of and access to hospital and non-hospital services.

Care types 7.3, 9 and 10 (Newborn – unqualified days only; organ procurement; hospital border) have been excluded from analysis.

Data are presented for the six jurisdictions that the AIHW has assessed as having adequate identification of Indigenous hospitalisations in 2006–08 – New South Wales, Victoria, Queensland, Western Australia, South Australia and the Northern Territory (public hospitals only). These six jurisdictions represent about 96% of the Indigenous population of Australia. National totals include separations for people resident in these six jurisdictions only and are not necessarily representative of the jurisdictions not included. Indigenous status data are reported for Tasmania and the Australian Capital Territory (public hospitals only) with caveats until further audits of the quality of data in these jurisdictions are completed.

Data are presented by state/territory of usual residence of the patient.

The following caveats have been recommended for analysis of hospitalisation data from selected jurisdictions (AIHW 2010):

- Interpretation of results should take into account the relative quality of the data from the jurisdictions included (currently a small degree of Indigenous under-identification in data from New South Wales and South Australia, and relatively marked Indigenous under-identification in data from Queensland and Victoria).
- Interpretation of time series analysis should take into account the possible contribution of changes over time in ascertainment of Indigenous status. This will be reflected in Indigenous patient changes in hospitalisation rates for Indigenous people.

In indicators:

- 1.02 Top reasons for hospitalisation
- 1.03 Injury and poisoning
- 1.04 Respiratory disease
- 1.05 Circulatory disease
- 1.07 High blood pressure
- 1.09 Diabetes
- 1.10 Kidney disease
- 1.11 Oral health
- 1.15 Ear health
- 1.18 Social and emotional wellbeing
- 2.10 Community safety

- 3.06 Access to hospital procedures
- 3.07 Selected potentially preventable hospitalisations
- 3.08 Cultural competency
- 3.09 Discharge against medical advice
- 3.14 Access to services compared with need

Quality statement: http://meteor.aihw.gov.au/content/index.phtml/itemId/511338>.

National Indigenous Eye Health Survey

The Indigenous Eye Health Unit at the University of Melbourne collaborated with the Centre for Eye Research Australia and the Vision Cooperative Research Centre to conduct the National Indigenous Eye Health Survey in 2008.

The survey used a multi-stage, random cluster sample to obtain representative national data. The sample sites were grouped according to the Accessibility/Remoteness Index of Australia into five categories; Major cities, Inner regional, Outer regional, Remote and Very remote. The Very remote category was divided into Very remote coastal and Very remote inland. Within each category, five sample areas were randomly selected to yield 30 geographic areas containing about 300 Indigenous Australians.

A standardised eye examination was done on all participants. Overall, 1,694 children aged 5 to 15 years and 1,189 adults aged 40 years and above were examined.

In indicator:

1.16 Eye health

National Non-admitted Patient Emergency Department Care Database

The National Non-admitted Patient Emergency Department Care Database (NAPEDCD) is a national collection of de-identified data on emergency department episodes held at the AIHW. The database includes episode-level data on non-admitted patients treated in the emergency departments of public hospitals. These hospitals are classified in the public hospital peer groups of principal referral and specialist women's and children's hospitals and large hospitals. Data excludes patients who were admitted or arrived at the hospital by ambulance.

The NAPEDCD includes data on the type and length of emergency department visit, triage category, waiting times, patient demographics, arrival mode and departure status.

This data set includes the standard Indigenous status question. The identification of Indigenous patients is not considered complete and varies among jurisdictions.

It is recommended that these data only be reported as numbers and proportions and not rates, because the denominator would include Indigenous Australians not covered in this collection. The quality of the data reported for Indigenous status in emergency departments has not been formally assessed; most states and territories advised that the Indigenous status data collected in an emergency department setting could be less accurate than the data collected for admitted patients (AIHW 2012d).

In indicator:

3.16 Access to After-hours primary health care

Quality statement: http://meteor.aihw.gov.au/content/index.phtml/itemId/497269>.

National Notifiable Diseases Surveillance System

A set of 65 diseases and conditions are notifiable nationally to the National Notifiable Diseases Surveillance System (NNDSS), which is managed by DoHA.

Identification of Indigenous notifications in all states and territories is incomplete, with the level of completeness varying across diseases as well as jurisdictions. The NNDSS provided the AIHW with data on Indigenous status completeness by disease and jurisdiction. Using a cut-off of 50% completeness of Indigenous status for 2009–2011, Western Australia, South Australia, Tasmania and the Northern Territory were assessed to have adequate identification for chlamydia, syphilis, gonorrhoea, hepatitis B and hepatitis C. Of the remaining states/territories, Queensland and Victoria had adequate identification for syphilis, gonorrhoea and chlamydia; the Australian Capital Territory had adequate identification for syphilis, gonorrhoea and hepatitis B; and New South Wales had adequate identification for syphilis only.

Although data on hepatitis C is included in this indicator, sexual transmission is not considered the main route of transmission, hepatitis C primarily occurs among those with a history of injecting drug use. Data for hepatitis C included in this indicator are for newly acquired notifications only (excluding Queensland, as hepatitis C data are reported in a separate category).

All categories of syphilis (including infectious, latent and unknown duration) have been included in the analysis of data in this report, with the exception on New South Wales for which the category of greater than 2 years duration or unknown status have been excluded due to low completeness of Indigenous status for these data.

Three years have been combined for reporting due to the small number of Indigenous and non-Indigenous notifications for some STIs each year.

Other Australians includes notifications for non-Indigenous Australians and those for whom Indigenous status is not stated.

In indicator:

• 1.12 HIV/AIDS, hepatitis C and sexually transmissible infections

National Perinatal Data Collection

Perinatal data included in this report come from the AIHW National Perinatal Epidemiology and Statistics Unit National Perinatal Data Collection.

Each state and territory has a perinatal collection based on birth notifications completed by midwives and other staff, using information obtained from mothers and from hospital and other records. Perinatal notification forms are completed in Australia for all births of 20 weeks or more gestation, or a birthweight of 400 grams or more.

The Perinatal National Minimum Data Set includes all births in Australia in hospitals, birth centres and the community. State-level data are based on place of mother's usual residence rather than place where birth occurred. A standard data item for Indigenous status is specified in the Perinatal National Minimum Data Set. However, at this stage not all states and territories use this standard wording for the Indigenous status question on their forms. Data on Indigenous status are not reported for Tasmania before 2005 as the not stated category for Indigenous status was included with the non-Indigenous category. Data for Tasmania and the Australian Capital Territory are not deemed of sufficient stability to support trends analysis (AIHW: Leeds KL et al. 2007).

Data on mothers for whom Indigenous status was 'not stated' have been excluded from analysis.

All jurisdictions collect Indigenous status of the mother for each baby. A data item on Indigenous status of the baby was added to the Perinatal NMDS from July 2012. Currently, data on antenatal care is not available from all jurisdictions. A nationally consistent data item on gestational age at first antenatal visit was added to the Perinatal NMDS from July 2010 and a data item on number of antenatal visits will be included in the Perinatal NMDS from 1 July 2013. Work is under way to progress data elements related to alcohol use in pregnancy.

In indicators:

- 1.01 Low birthweight infants
- 2.21 Health behaviours during pregnancy
- 3.01 Antenatal care

National Prisoner Census

The ABS collects data from administrative records on persons in prison custody on 30 June each year in all jurisdictions. This Census includes all prisoners in adult corrective services, but not persons in juvenile institutions, psychiatric care or police custody. The Census collects information on the number of people in custody, legal status (sentenced or unsentenced), prior imprisonment, the most serious offence committed and length of sentence.

Most jurisdictions collect Indigenous status from individual prisoners. It is uncommon for corrective services agencies to collect Indigenous status from anyone other than the prisoners themselves. However, the accuracy of these data has not been assessed.

In indicator:

2.14 Contact with criminal justice system

National Public Hospitals Establishment Database

The AIHW National Public Hospitals Establishment Database holds establishment-level data for public hospitals within the jurisdiction of the state and territory health authorities. Private hospitals and public hospitals not administered by the state and territory health authorities are not included. Information is provided annually to the AIHW by state and territory health departments.

Data are presented for the six jurisdictions that have been assessed by the AIHW as having adequate identification of Indigenous hospitalisations in 2006-08 – New South Wales, Victoria, Queensland, Western Australia, South Australia and the Northern Territory (AIHW 2010). These six jurisdictions represent approximately 96% of the Indigenous population of Australia. Data are presented by state/territory of usual residence of the patient.

In indicator:

3.19 Accreditation

National Schools Statistics Collections

The National Schools Statistics Collection (NSSC) is a collaborative arrangement between state, territory and Australian Government education departments. It is managed by the Ministerial Council on Education, Early Childhood Development and Youth Affairs

(MCEECDYA) Performance Measurement and Reporting Taskforce (PMRT). Information is provided on the number and characteristics of schools, students and staff. These data are derived from the annual Schools Census enumerated each August by the responsible authorities.

Care should be exercised in the interpretation of apparent retention rates, because the method of calculation does not take into account a range of factors. At the Australia level, these include students repeating a year of education, migration and other net changes to the school population. At lower levels of disaggregation, additional factors affecting the data, such as enrolment policies (which contribute to different age/grade structures between states and territories), inter-sector transfers and interstate movements of students, have not been taken into account. These and other factors affecting the interpretation of apparent retention rates are being looked at, where possible, in the ABS's review of apparent retention rates.

In indicator:

• 2.05 Years 10 and 12 retention and attainment

National Vocational Education and Training Provider Collection

The National Centre for Vocational Education Research is Australia's main provider of vocational education and training (VET) sector research and statistics. VET is a national system designed to give workers the skills for particular occupations and industries. The VET sector includes providers that receive public VET funding, such as technical and further education organisations, higher education institutions, other government providers (for example, agricultural colleges), community education providers, government-funded private registered training organisations, schools funded through government allocations for VET, and all other Australian Government and state recurrent and specific-purpose funded VET, regardless of the location of the training organisation.

Non-identification rates for Indigenous students in these data are high. Care also needs to be taken when comparing data across jurisdictions for load pass rates, as average module durations vary across jurisdictions.

In indicators:

• 3.20 Aboriginal and Torres Strait Islander people training for health-related disciplines

Office for Aboriginal and Torres Strait Islander Health Services Reporting data collection

The AIHW has collected data from Aboriginal and Torres Strait Islander primary health-care services, stand-alone substance use services, and Bringing Them Home and Link Up counselling services that received funding through the Office for Aboriginal and Torres Strait Islander Health (OATSIH) for 2008–09 onwards.

OATSIH-funded services include both Indigenous community controlled health organisations and non-community controlled health organisations. Note that the OATSIH Services Reporting (OSR) only includes Aboriginal and Torres Strait Islander health organisations that receive at least some Australian Government funding to facilitate access to primary health care.

This collection, referred to as the OSR data collection replaces the Service Activity Reporting (SAR), Drug and Alcohol Services Reporting (DASR), and Bringing Them Home and Link Up counselling data collections previously collected by the OATSIH.

The counting rules used in OSR data analyses treats each auspice service as a single service and this yields a larger numerator and denominator when calculating rates whereas in earlier collections (SAR and DSAR) only the higher level service was counted. For example, a higher level service could have five auspice services under it and in OSR these will be counted as five individual services, whereas in SAR and DSAR it was counted as a single service. While this change only marginally affects the aggregate rates, caution should be exercised when comparing rates with earlier data collection periods.

The OSR data collection included 300 Australian Government-funded Aboriginal and Torres Strait Islander primary health-care services in 2010–11.

In indicators:

- 3.03 Health promotion
- 3.04 Early detection and early treatment
- 3.05 Chronic disease management
- 3.13 Competent governance
- 3.14 Access to services by types of service compared with need
- 3.22 Recruitment and retention of clinical management staff (including GPs)

Quality statement: http://meteor.aihw.gov.au/content/index.phtml/itemId/495823.

Socio-Economic Indexes for Areas

The ABS has developed four indexes to allow measurement of relative socioeconomic status at a small area level. These indexes summarise a range of socioeconomic variables associated with disadvantage. Each index summarises a different aspect of the socio-economic conditions of people living in an area. They each summarise a different set of social and economic information. The indexes take into account a range of factors in determining socioeconomic conditions.

The indexes are:

- Index of Relative Socio-Economic Disadvantage
- Index of Relative Socio-Economic Advantage and Disadvantage
- Index of Economic Resources
- Index of Education and Occupation.

SEIFA uses a broad definition of relative socio-economic disadvantage in terms of people's access to material and social resources, and their ability to participate in society. While SEIFA represents an average of all people living in an area, it does not represent the individual situation of each person. Larger areas are more likely to have greater diversity of people and households.

This report uses the Index of Relative Socio-Economic Advantage and Disadvantage (IRSAD) in all presentation of data by SEIFA. This index is a continuum of advantage to disadvantage and is available for both urban and rural areas. Low values indicate areas of disadvantage, and high values indicate areas of advantage. It takes into account variables such as the

proportion of families with high incomes, people with a tertiary education, and employment in skilled occupations (ABS 2003).

The Census does not collect all of the variables identified as being related to socioeconomic status. Some of the variables may be context-specific and some are associated with age (e.g. income), yet the methodology does not allow for age-standardisation. This is particularly relevant in the context of this performance measure where we are comparing two populations that have different age structures.

Analysis of SEIFA results at small area levels has found that within any area there will be individuals and subpopulations with very different characteristics from the overall population of the area. When judgments are made about the individual or subpopulation based on the characteristics of the area, there is considerable potential for error (Baker & Adhikari 2007). This issue is particularly relevant for the Indigenous.

In indicator:

• 2.09 Index of disadvantage

Supported Accommodation Assistance Program National Data Collection

The Supported Accommodation Assistance Program National Data Collection (SAAP NDC) was collected from 1996 to June 2011. It was designed to capture data on government response to homelessness, and focuses on services provided by agencies funded under the Supported Accommodation Assistance Program which specifically target and provide services to people who are homeless or at risk of homelessness. Therefore, service providers who do not receive government funding and general service providers (that is, which are not 'specialist homelessness agencies') are not included in this data collection.

From July 2011, the SAAP NDC was replaced by the Specialist Homelessness Services Collection (SHSC). The SHSC was developed by the AIHW in collaboration with the Australian Government Department of Families, Housing, Community Services and Indigenous Affairs and relevant departments of all state and territory governments. Key differences between the SAAP NDC and SHSC include the expanded scope of agencies included in the SHSC, to agencies funded under the National Affordable Housing Agreement (NAHA) and National Partnership Agreement on Homelessness (NPAH); the inclusion of children as clients in their own right in SHSC (whereas accompanying children were recorded on their parent's form in SAAP NDC); and the monthly collection of client information and services provided for the SHSC (whereas SAAP NDC information was only collected at the end of a support period).

In indicator:

2.01 Housing

Survey of Income and Housing

The Survey of Income and Housing is conducted by the ABS every 2 years, with the first survey beginning in 1994–95. The survey was developed to provide broad aggregates for households within Australia. The current survey was conducted during August 2007 and June 2008 and 9,345 households participated through a personal interview at their usual place of residence. The dwellings were selected through a stratified, multistage cluster design and the survey was conducted over 12 months to be representative of a yearly pattern. Participants were asked information regarding their household, including

characteristics, costs, assets and liabilities and individual personal characteristics for residents over 15 years.

Very remote areas were not covered by the survey.

In indicator:

2.08 Income

References

ABS (Australian Bureau of Statistics) 2002. National Aboriginal and Torres Strait Islander Social Survey, 2002. ABS cat. no. 4714.0, Canberra: ABS.

ABS 2003. Directory of Education and Training AVETMISS Vocational Education and Training (VET) Provider Collection. ABS cat. no. 1136.0. Canberra: ABS.

ABS 2009a. Experimental estimates and projections, Aboriginal and Torres Strait Islander Australians, 1991 to 2021. ABS cat. no. 3238.0. Canberra: ABS.

ABS 2009b. Causes of death, Australia, 2007. ABS cat. no. 3303.0. Canberra: ABS.

ABS 2010. National Aboriginal and Torres Strait Islander Social Survey: Users' Guide. ABS cat. no. 4720.0. Canberra: ABS.

ABS 2011. Prisoners in Australia, 2011. ABS cat no. 4517.0. Canberra: ABS.

ABS 2012. Aboriginal and Torres Strait Islander Population estimates, 2011– preliminary. Australian Demographic Statistics, March 2012. ABS cat. no. 3101.0. Canberra: ABS.

ABS & AIHW (Australian Institute of Health and Welfare) 2008. The health and welfare of Australia's Aboriginal and Torres Strait Islander peoples 2008. ABS cat no. 4704.0, AIHW cat. no. IHW 21. Canberra: ABS & AIHW.

AHMAC (Australian Health Ministers Advisory Council) 2003, National Strategic Framework for Aboriginal and Torres Strait Islander Health 2003–2013. Canberra: AHMAC.

AHMAC 2006. Aboriginal and Torres Strait Islander Health Performance Framework report 2006. Canberra: AHMAC.

AHMAC 2012. Aboriginal and Torres Strait Islander Health Performance Framework report 2012. Canberra: AHMAC.

AIHW (Australian Institute of Health and Welfare) 2002. Chronic diseases and associated risk factors in Australia 2001. Cat. no. PHE 33. Canberra: AIHW.

AIHW 2005. Indigenous housing needs 2005: a multi-measure needs model. Cat. no. HOU 129. Canberra: AIHW.

AIHW 2006. Australia's health 2006. Cat. no. AUS 73. Canberra: AIHW.

AIHW 2009. Expenditure on health for Aboriginal and Torres Strait Islander people 2006–07. Health and welfare expenditure series no. 39. Cat. no. HWE 48. Canberra: AIHW.

AIHW 2010. Indigenous identification in hospital separations data—quality report. Health Services Series no. 35. Cat. no. HSE 85.Canberra: AIHW.

AIHW 2011a. The health and welfare of Australia's Aboriginal and Torres Strait Islander people, an overview 2011. Cat. no. IHW 42. Canberra: AIHW.

AIHW 2011b. Aboriginal and Torres Strait Islander child safety. Cat. no. IHW 50. Canberra: AIHW.

AIHW 2011c. BreastScreen Australia Monitoring Report 2008–2009. Cancer series no. 63. Cat. no. CAN 60. Canberra: AIHW.

AIHW 2012a. Child protection Australia 2010-11. Cat. no. CWS 41. Canberra: AIHW.

AIHW 2012b. Risk factors contributing to chronic disease. Cat no. PHE 157. Canberra: AIHW.

AIHW 2012c. An enhanced mortality database for estimating Indigenous life expectancy: a feasibility study. Cat. no. IHW 75. Canberra: AIHW.

AIHW 2012d. Australian hospital statistics 2011-12: emergency department care. Health services series no. 45. Cat. no. HSE 126. Canberra: AIHW.

AIHW: Leeds KL, Gourley M, Laws PJ, Zhang J, Al-Yaman F & Sullivan EA 2007. Indigenous mothers and their babies, Australia 2001-2004. Cat. no. PER 38. Perinatal statistics series no. 19. Canberra: AIHW.

AIHW & AACR (Australasian Association of Cancer Registries) 2010. Cancer in Australia: an overview, 2010. Cancer series no. 60. Cat. no. CAN 56. Canberra: AIHW.

Anderson, I, Ewen, S & Knoche, D 2009, Indigenous medical workforce development: current status and future directions, Medical Journal of Australia 190(10):580-1.

Atkinson P, Buckworth M & Dean F 2007. Aboriginal community-controlled health organisations address the multiple determinants of Aboriginal health through housing. An overview of the current knowledge of the social determinants of Indigenous health. Commission on Social Determinants of Health, WHO.

Baker J & Adhikari P 2007. Research paper: Socio-economic indexes for individuals and families. ABS cat. no. 1352.0.55.86. Canberra: ABS.

Begg S, Vos T, Barker B, Stevenson C, Stanley L & Lopez A 2007. The burden of disease and injury in Australia 2003. Cat. no. PHC 82. Canberra: AIHW.

Bowden F, Tabrizi S, Garland S & Fairley C 2002. Sexually transmitted infections: new diagnostic approaches and treatments. Medical Journal of Australia 176:551-7.

Cass A, Cunningham J, Wang Z & Hoy W 2001. Regional variation in the incidence of endstage renal disease in Indigenous Australians. Medical Journal of Australia 175:24-7.

Catto M & Thomson NJ 2008. Review of illicit drug use among Indigenous peoples. Australian Indigenous Health Bulletin, 8(4), 32p.

COAG (Council of Australian Governments) 2009. Protecting children is everyone's business: national framework for protecting Australia's children 2009–2020. Canberra: COAG.

Cope B & Kalantzis M (eds) 2000, Multiliteracies: literacy learning and the design of social futures. London: Routledge.

Couzos S & Murray R 2003. Aboriginal primary health care: an evidence-based approach. Melbourne: Oxford University Press.

Cramb S, Garvey G, Valery PC, Williamson JD & Baade PD 2012. The first year counts: cancer survival among Indigenous and non-Indigenous Queenslanders, 1997-2006, Medical Journal of Australia 196(4): 270-74.

Dodson M & Smith D 2003. Governance for sustainable development: strategic issues and principles for Indigenous Australian communities. Canberra: Centre for Aboriginal Economic Policy Research, Australian National University.

DoHA (Department of Health and Ageing) 2010. National Immunisation Program Schedule. Viewed 28 September, 2010,

http://immunise.health.gov.au/internet/immunise/publishing.nsf/Content/nips2.

Ford J, Nassar N, Sullivan EA, Chambers G & Lancaster P 2003. Reproductive health indicators Australia 2002. Cat. no. PER 20. Canberra: AIHW National Perinatal Statistics Unit.

France K, Henley N, Payne J, D'Antoine H, Bartu A, O'Leary C et al. 2010. Health professionals addressing alcohol use with pregnant women in Western Australia: barriers and strategies for communication. Substance Use &# 38; Misuse 45:1474–90.

Griew R, 2008. The link between primary health care and health outcomes for Aboriginal and Torres Strait Islander Australians. Report for the Office of Aboriginal and Torres Strait Islander Health. Canberra: DoHA.

Human Rights and Equal Opportunities Commission 1997. Bringing them home. Report on the national inquiry into the separation of Aboriginal and Torres Strait Islander children from their families. Sydney: HREOC.

Hulse K. et al. 2010. The benefits and risks of home ownership for low-moderate income households, AHURI final report No. 154. Melbourne: Australian Housing and Urban Research Institute.

Jacoby PA, Coates HL, Arumugaswamy A, Elsbury D, Stokes A, Monck R et al. 2008. The effect of passive smoking on the risk of otitis media in Aboriginal and non-Aboriginal children in the Kalgoorlie-Boulder region of Western Australia. Medical Journal of Australia 188:599–603.

Jamieson L, Roberts-Thomson K & Sayers S 2010. Risk indicators for severe impaired oral health among Indigenous Australian young adults. BMC Oral Health 10:1–11.

Jauniaux E, Burton GJ. 2007 Morphological and biological effects of maternal exposure to tobacco smoke on the feto-placental unit. Early Human Development 83:699–706.

Julvez J, Ribas-Fitó N, Torrent M, Forns M, Garcia-Esteban R, Sunyer J. 2007 Maternal smoking habits and cognitive development of children at age 4 years in a population-based birth cohort. Int J Epidemiol. 36:825–832.

Larkins S, Geia L & Panaretto K 2006. Consultations in general practice and at an Aboriginal community controlled health service: do they differ? Rural Remote Health 6:560.

Lawrence RM, Lawrence RA 2009. The breast and physiology of lactation. In RK Creasy et al. (eds). Creasy and Resnik's Maternal-Fetal Medicine, 6th edn. Philadelphia: Saunders Elsevier, 125–142.

Levy M 2005. Prisoner health care provision: reflections from Australia. International Journal of Prisoner Health 1(1):65–73.

Lubitz J, Cai L, Kramarow E, Lentzner H.2003. Health, life expectancy, and health care spending among the elderly. N Engl J Med. 349:1048–55. Doi: 10.1056/NEJMsa020614.

Mainous AG, Baker R, Love MM, Gray DP & Gill JM 2001. Continuity of care and trust in one's physician: evidence from primary care in the United States and the United Kingdom. Fam Med 33:22–7.

Marmot M 2005. Social determinants of health inequalities. The Lancet 365(9464):1099-104.

McDermott R, Campbell S, Li M & McCulloch B 2009. The health and nutrition of young indigenous women in north Queensland – intergenerational implications of poor food quality, obesity, diabetes, tobacco smoking and alcohol use. Public health nutrition 12:2143-9.

McDermott R, O'Dea K, Rowley K, Knight S & Burgess P 1998. Beneficial impact of the Homelands Movement on health outcomes in central Australian Aborigines. Australian and New Zealand Journal of Public Health 22:653-8.

McLure P 2000. Participation Support for a More Equitable Society: final report of the Reference Group on Welfare Reform. Canberra: Reference Group on Welfare Reform.

National Aboriginal Community Controlled Health Organisation 2009. Toward a National Primary Health Care Strategy: fulfilling Aboriginal people's aspirations to close the gap. Submission to the National Primary Health Care Strategy. Canberra: NACCHO.

National Aboriginal and Torres Strait Islander Health Council & Standing Committee on Aboriginal and Torres Strait Islander Health 2003. National Aboriginal and Torres Strait Islander Oral Health Workshop: workshop report and action plan. Canberra: DoHA.

NHMRC (National Health and Medical Research Council) 1997. The health effects of passive smoking: a scientific information paper. Canberra: AusInfo.

NHMRC 2000. Nutrition in Aboriginal and Torres Strait Islander Peoples: an information paper. Canberra: AusInfo.

Northern Land Council & Central Land Council 1994. Our land, our life. Casuarina, NT. Alice Springs, NT. Viewed 27 March 2006,

http://www.clc.org.au/media/publications/olol.asp.

Office of Aboriginal Health, Family and Social Policy & Department of Health and Community Services 2004. Ending welfare dependency or promoting social inclusion? Canberra.

Paradies, Y 2006. A systematic review of empirical research on self-reported racism and health, International Journal of Epidemiology 35(4):888–901.

Public Health Agency of Canada, Health Canada, Canadian Paediatric Society, Canadian Foundation for the Study of Infant Deaths, & Canadian Institute of Child Health 2011. Joint statement on safe sleep: preventing sudden infant deaths in Canada. Available online http://www.phac-aspc.gc.ca/hp-ps/dca-dea/stages-etapes/childhood-enfance_0- 2/sids/pdf/jsss-ecss2011-eng.pdf>.

Royal Commission into Aboriginal Deaths in Custody 1991. Final report. Vol. 2. Canberra: Australian Government Publishing Service, 3–42.

Sassi F 2009. Health inequalities: a persistent problem. In J Hills, T Sefton and K Stewart (eds). Towards a more equal society. Bristol: The Policy Press, 135-56.

Saunders P & Davidson P 2007. Rising poverty is bad for our health. Medical Journal of Australia 187(9):530-1.

SCRGSP (Steering Committee for the Review of Government Service Provision) 2005. Report on government services 2005. Canberra: Productivity Commission.

SCRGSP 2007. Overcoming Indigenous disadvantage: key indicators 2007. Canberra: Productivity Commission.

SCRGSP 2009. Overcoming Indigenous disadvantage: key indicators 2009. Canberra: Productivity Commission.

SCRGSP 2011. Overcoming Indigenous disadvantage: key indicators 2011. Canberra: Productivity Commission.

Shaw M 2004. Housing and public health. Annual Review of Public Health 25(8):397–418.

Social Health Reference Group 2004. National Strategic Framework for Aboriginal and Torres Strait Islander Peoples' Mental Health and Social and Emotional Well Being 2004–2009. Canberra: National Aboriginal and Torres Strait Islander Health Council, and National Mental Health Working Group. Viewed, 8 December 2012.

http://www.aodgp.gov.au/internet/main/publishing.nsf/Content/health-oatsih-pubs-wellbeing.

Stanley J, Tomison AM & Pocock J 2003. Child abuse and neglect in Indigenous Australian communities. Child abuse prevention issues no. 19. Melbourne: AIFS.

Starfield B 1998. Primary care: balancing health needs, services and technology. USA: Oxford University Press.

Starfield B & Shi L 2004. The medical home, access to care, and insurance: a review of evidence. Pediatrics 113:1493–8.

Taylor HR, Boudville A, Anjou M & McNeil R 2011. The roadmap to close the gap for vision: summary report. Melbourne: Indigenous Eye Health Unit, the University of Melbourne.

Thompson N, Burns J, Burrow S & Kirov E 2004. Overview of Indigenous health 2004. Australian Indigenous Health Bulletin 4(4). Perth: Australian Indigenous HealthInfoNet. Viewed 11 November 2005,

http://www.healthinfonet.ecu.edu.au/html/html_bulletin/bull_44/reviews/thomson/reviews_thomson.pdf.

Thomson N, MacRae A, Brankovich J, Burns J, Catto M, Gray C, Levitan L, Maling C, Potter C, Ride K, Stumpers S, Urquhart B 2012. Overview of Australian Indigenous health status, 2011. Viewed 12 October 2012. http://www.healthinfonet.ecu.edu.au/health-facts/overviews>.

Vos T, Barker B, Stanley L & Lopez AD 2007. The burden of disease and injury in Aboriginal and Torres Strait Islander peoples 2003. Brisbane: School of Population Health, University of Queensland.

World Health Organization 2011. Indicator code book: World health statistics — world health statistics indicators. Geneva: WHO. Viewed 15 September 2011,

http://www.who.int/whosis/indicators/WHS2011_IndicatorCompendium_20110530. pdf>.

Wilkinson R & Marmot M 2003. Social determinants of health: the solid facts, 2nd edition. Copenhagan: WHO.

List of tables

Table S1:	Key measures of Aboriginal and Torres Strait Islander health, Victoria and national	. xvi
Table 1:	Preliminary estimated resident population by Indigenous status, Victoria and Australia, 30 June 2011	3
Table 2:	Estimated resident population by remoteness area and Indigenous status, Victoria and Australia, 2006	5
Table 1.02.1:	Hospitalisation rates (per 1,000 population), by principal diagnosis and Indigenous status, Victoria and NSW, Vic, Qld, WA, SA & NT combined, July 2008 to June 2010	14
Table 1.04.1:	Hospitalisations for all respiratory diseases for Aboriginal and Torres Strait Islander people, by sex, Victoria and NSW, Vic, Qld, WA, SA & NT combined, July 2008 to June 2010	18
Table 1.07.1:	People reporting high blood pressure/hypertension, per cent, by Indigenous status, age group and sex, Victoria and Australia, 2004-05	22
Table 1.09.1:	Aboriginal and Torres Strait Islander people reporting diabetes/high sugar levels, by sex, Victoria and Australia, 2004-05	25
Table 1.14.1:	Users of disability support services, by Indigenous status and sex, persons aged under 65, Victoria and Australia, 2009–10	35
Table 1.16.1:	Prevalence of vision loss in Indigenous adults surveyed, Victoria, 2008	37
Table 2.03.1:	Children aged 0-14 living in households with smokers, by Indigenous status of children, Victoria and Australia, 2008 and 2007-08	47
Table 2.04.1:	Proportion of Year 3, 5, 7 and 9 students at or above the national minimum standard for reading, writing, spelling, grammar & punctuation, and numeracy, by Indigenous status, Victoria and Australia, 2011	50
Table 2.05.1:	Apparent retention and attainment rates, by Indigenous status and sex, Victoria and Australia, 2011	52
Table 2.06.1:	Educational institution currently attended, by Indigenous status, people aged 15 and over, Victoria and Australia, 2008	54
Table 2.06.2:	Whether has a post-school qualification, by Indigenous status, people aged 25–64, Victoria and Australia, 2008	54
Table 2.07.1:	Labour force status of people aged 15–64, by Indigenous status, Victoria and Australia, 2008	56
Table 2.10.1:	Issues of community safety, people aged 18 and over, by Indigenous status, Victoria and Australia, 2008	60
Table 2.11.1:	People in prison custody, by Indigenous status, Victoria and Australia, 30 June 2011	62
Table 2.12.1:	Aboriginal and Torres Strait Islander children in out-of-home care: Indigenous status and relationship of carer, Victoria and Australia, 30 June 2011	64

Table 2.13.1:	Households with at least one registered vehicle, by Indigenous status, Victoria and Australia, 2006	65
Table 2.15.1	Smoking status by Indigenous status, persons aged 15 and over, Victoria and Australia, 2008	68
Table 2.17.1:	Substance use, Indigenous Australians aged 18 and over, by sex, Victoria and Australia, 2008	71
Table 2.19.1:	Selected dietary habits, by remoteness and Indigenous status, people aged 12 and over, Victoria and Australia, 2004–05	74
Table 2.20.1:	Breastfeeding status, Indigenous infants aged 0–3 years, Victoria and Australia, 2008	76
Table 3.02.1:	Vaccination coverage estimates for selected diseases for children 'fully vaccinated' at 1, 2 and 5 years of age, by Indigenous status, Victoria and Australia, as at 31 December 2011	83
Table 3.03.1:	Proportion of Aboriginal and Torres Strait Islander primary health-care services that ran health promotion/prevention group activities during 2010–11, Victoria and Australia	84
Table 3.04.1:	Age-specific participation rates in BreastScreen Australia programs of Indigenous and other women, Victoria and Australia, 2008–2009	86
Table 3.05.1:	Percentage of respondent Indigenous primary health-care services that provide management of chronic disease, Victoria and Australia, 2010–11	89
Table 3.05.2:	Proportion and number of Indigenous regular clients with Type 2 diabetes or coronary heart disease who had a blood pressure test in last 6 months, and HbA1 test in the last 6 months (diabetes only), Victoria/Tasmania and Australia, 1 January–30 June 2010	89
Table 3.06.1:	Number and proportion of hospitalisations with a procedure recorded, by Indigenous status, Victoria and Australia, July 2008 to June 2010	90
Table 3.08.1:	Whether needed to go to a doctor, hospital, dentist or other health professional, by reason didn't go, Aboriginal and Torres Strait Islander people, Victoria and Australia, 2004–05	94
Table 3.10.1:	Community mental health care service contacts per 1,000 population, by Indigenous status, Victoria and Australia, 2009–10	98
Table 3.13.1:	Number and proportion of Aboriginal and Torres Strait Islander primary health-care services participating in mainstream processes, Victoria and Australia, 2009–10	100
Table 3.16.1:	Presentations to emergency departments after hours by Indigenous status of the patient, Victoria and Australia, July 2008 to Jun 2010	104
Table 3.18.1:	Proportion and number of Indigenous regular clients with Type 2 diabetes or coronary heart disease with current chronic disease management plans (GPMP or TCA), Victoria/Tasmania and Australia, 1 January–30 June 2010	107
Table 3.18.1:	Whether person(s) in non-remote areas have a written asthma action plan by Indigenous status, Victoria and Australia, 2004–05	108
Table 3.20.1:	Number of undergraduate domestic students enrolled and completed health-related courses in the tertiary education sector, by qualification type, Victoria, 2010	111

Table 3.20.2:	Vocational education and training sector students enrolled and completed health-related courses, Victoria, 2010	111
Table 3.21.1:	Estimated state and territory health expenditure per person for Indigenous and non-Indigenous people, by area of expenditure, Victoria and Total, 2008–	
	09	113

List of figures

Figure 1:	Aboriginal and Torres Strait Islander Health Performance Framework Measures	2
Figure 2:	Population profile, by Indigenous status, age and sex, Victoria and Australia, 2011	4
Figure 1.01.1:	Proportion of low birthweight liveborn babies, by Indigenous status of mother and usual state of residence, Victoria and Australia, 2007–2009	12
Figure 1.01.2:	Proportion of low birthweight singleton liveborn babies, by Indigenous status of mother, Victoria and NSW, Vic, Qld, WA, SA & NT combined, 2001–2009	12
Figure 1.02.1:	Age-specific hospitalisation rates (excluding dialysis), by Indigenous status, Victoria and NSW, Vic, Qld, WA, SA & NT combined, July 2008 to June 2010	14
Figure 1.02.2:	Trends in hospitalisation rates (excluding dialysis) by Indigenous status, Victoria and NSW, Vic, Qld, WA, SA & NT combined, 2004–05 to 2009–10	15
Figure 1.03.1:	Age-specific hospitalisation rates (per 1,000 population) for a principal diagnosis of injury and poisoning, by Indigenous status and sex, Victoria, July 2008 to June 2010	16
Figure 1.03.2:	External causes for hospitalisations with a principal diagnosis of injury and poisoning (age-standardised rates), by Indigenous status, Victoria, July 2008 to June 2010	17
Figure 1.03.3:	Hospitalisation rates for injury and poisoning, by Indigenous status, Victoria and NSW, Vic, Qld, WA, SA & NT combined, 2004-05 to 2009-10	17
Figure 1.04.1:	Age specific hospitalisation rates for all respiratory diseases, by Indigenous status, Victoria and NSW, Vic, Qld, WA, SA & NT combined, July 2008 to June 2010	19
Figure 1.04.2:	Hospitalisation rates for all respiratory diseases, Aboriginal and Torres Strait Islander people and non-Indigenous Australians, Victoria and NSW, Qld, WA, SA & NT combined, 1998–99 to 2009–10	19
Figure 1.05.1:	Age-specific hospitalisation rates per 1,000 population with a principal diagnosis of circulatory diseases, by Indigenous status, Victoria and NSW, Vic, Qld, WA, SA & NT combined, July 2008 to June 2010	21
Figure 1.05.2:	Hospitalisation rates for circulatory diseases, by Indigenous status, Victoria and NSW, Vic, Qld, WA, SA & NT combined, 2004–05 to 2009–10	21
Figure 1.08.1:	Age-specific hospitalisation rates for cancer (neoplasms), by Indigenous status, Victoria and NSW, Vic, Qld, WA, SA & NT combined, July 2008 to June 2010	23
Figure 1.08.2:	Age-standardised hospitalisation rates for cancer (neoplasms), Victoria and NSW, Vic, Qld, WA, SA and NT combined 2004–05 to 2009–10	24
Figure 1.09.1:	Age-specific hospitalisation rates for a principal diagnosis of diabetes, by Indigenous status and age groups, Victoria, July 2008 to June 2010	25
Figure 1.09.2:	Hospitalisation rates for diabetes, by Indigenous status, Victoria and NSW, Vic, Qld, WA, SA & NT combined, 2004-05 to 2009-10	25

Figure 1.10.1:	Hospitalisations rate per 1,000 for dialysis and chronic kidney disease by Indigenous status Victoria and NSW, Vic, Qld, WA, SA and NT combined, July 2008 to June 2010	26
Figure 1.11.1:	Number and proportion of Indigenous children aged 0–14 with reported teeth or gum problems, Victoria and Australia, 2008	27
Figure 1.11.2:	Age-specific hospitalisation rates (separations per 1,000 population) for dental problems, by Indigenous status and age group, Victoria and NSW, Vic, Qld, WA, SA and NT combined, July 2008 to June 2010	28
Figure 1.11.3:	Age-standardised hospitalisation rates for dental problems, by Indigenous status Victoria and NSW, Vic, Qld, WA, SA and NT combined, July 2008 to June 2010	28
Figure 1.12.1:	Age-specific notification rates for chlamydia, by Indigenous status, Victoria, 2009–2011	29
Figure 1.12.2:	Age-specific notification rates for gonorrhoea, by Indigenous status, Victoria, 2009–2011	30
Figure 1.12.3:	Age-specific notification rates for syphilis, by Indigenous status, Victoria, 2009–2011	30
Figure 1.12.4:	Age-standardised notification rates for chlamydia, syphilis and gonorrhoea, Victoria and selected jurisdictions combined, 2009–2011	31
Figure 1.14.1:	Disability status, by Indigenous status, persons aged 18 and over in non-remote areas, age-standardised rates, Victoria and Australia, 2008	33
Figure 1.14.2:	Proportion of people with a core activity need for assistance, Indigenous Australians, Victoria and Australia, 2006	34
Figure 1.14.3:	Age-standardised proportion of people with a core activity need for assistance, by Indigenous status, Victoria and Australia, 2006	34
Figure 1.15.1:	Age standardised hospitalisation rates for diseases of the ear and mastoid, by Indigenous status, Victoria and NSW, Vic, Qld, WA, SA & NT combined, 2004–05 to 2009–10	36
Figure 1.16.1:	Proportion of Indigenous children aged 1–14 reporting eye or sight problems, Victoria and Australia, 2008	37
Figure 1.16.2:	Age-standardised hospitalisations rate per 1,000 for principal diagnosis of diseases of the eye and adnexa, by Indigenous status and sex, Victoria and NSW, Vic, Qld, WA, SA and NT combined, 2008–09 to 2009–10	38
Figure 1.16.3:	Age-standardised hospitalisation rates from diseases of the eye and adnexa, by Indigenous status, Victoria and NSW, Vic, Qld, WA, SA and NT combined, 2004–05 to 2009–10	38
Figure 1.17.1:	Self-assessed health status (age-adjusted), people aged 15 and over, by Indigenous status, Victoria and Australia, 2008	39
Figure 1.18.1	Proportion of Indigenous persons aged 18 and over who reported high/very high levels of psychological distress, Victoria and Australia, 2008	41
Figure 1.18.2:	Age-specific hospitalisation rates for mental health-related conditions, by Indigenous status, Victoria and NSW, Vic, Qld, WA, SA & NT combined, July 2008 to June 2010	41

Figure 1.18.3:	Hospitalisation rates from mental health-related conditions by Indigenous status, Victoria and NSW, Vic, Qld, WA, SA & NT combined, 2004–05 to 2009–10	42
Figure 2.01.1:	Proportion of people aged 15 and over living in overcrowded households, by Indigenous status, Victoria and Australia, 2008	45
Figure 2.01.2:	Proportion of people aged 18 and over, by tenure type and Indigenous status, Victoria and Australia, 2008	45
Figure 2.02.1:	Percentage of Indigenous households reporting lack of working facilities for each of the first four healthy living practices, Victoria and Australia, 2008	46
Figure 2.06.1:	Highest level of school completed, by Indigenous status, people aged 18 and over, Victoria and Australia, 2008	53
Figure 2.07.1:	Unemployment and labour force participation rates, people aged 15-64, by Indigenous status, Victoria and Australia, 2008	55
Figure 2.08.1:	Proportion of people aged 18 and over in each equivalised gross weekly household income quintile , by Indigenous status, Victoria and Australia, 2008	57
Figure 2.08.2:	Mean equivalised gross household income (\$ per week), by Indigenous status, people aged 18 and over, Victoria and Australia, 2008	57
Figure 2.09.1:	Population distribution by SEIFA advantage/disadvantage quintiles, by Indigenous status, Victoria and Australia, 2006	58
Figure 2.10.1:	Proportion of Indigenous Australians aged 15 and over reporting neighbourhood/ community problems, Victoria and Australia, 2008	61
Figure 2.11.1	Age-standardised imprisonment rates, by Indigenous status, Victoria and Australia, 2001–2010	62
Figure 2.12.1:	Rates of Aboriginal and Torres Strait Islander and other children aged 0–16 years who were the subject of substantiation, Victoria and Australia, 2006–07 to 2010–11	64
Figure 2.13.1:	Difficulty with transport, by Indigenous status, Victoria and Australia, people aged 18 and over, 2008	66
Figure 2.14.1:	Access to homelands/traditional country, Indigenous Australians aged 15 and over, Victoria and Australia, 2008	67
Figure 2.16.1:	Alcohol risk levels by Indigenous status, people aged 18 and over, age-standardised, Victoria and Australia, 2004–05	70
Figure 2.18.1:	People aged 15 and over, level of physical activity, non-remote areas, by Indigenous status, Victoria and Australia, 2004–05	72
Figure 2.19.1:	Percentage of Australians aged 12 and over who had the recommended daily intake of vegetables and fruit, by Indigenous status, non-remote areas, Victoria and Australia, 2004–05	74
Figure 2.19.2:	Percentage of Indigenous children aged 4–14 who had the recommended daily intake of vegetables and fruit, non-remote areas, Victoria and Australia, 2008	75
Figure 2.20.1:	Aboriginal and Torres Strait Islander children aged 0–3 currently breastfeeding, by age, Victoria and Australia, 2008	76
Figure 2.21.1:	Proportion of mothers who smoked during pregnancy, by Indigenous status, Victoria and Australia, 2009	78

Figure 2.21.2:	Selected health issues of Indigenous mothers, children aged 0-3, Victoria and Australia 2008	78
Figure 2.22.1:	Proportion of Indigenous adults who are underweight, normal weight, overweight and obese, age-standardised, by Indigenous status, Victoria and Australia, 2004–05	80
Figure 2.22.2:	Proportion of adults overweight or obese, by age group, by Indigenous status, Victoria and Australia, 2004–05	80
Figure 3.02.1:	Indigenous people aged 50 and over and Indigenous and non-Indigenous people aged 65 and over: immunisation status, Victoria and Australia, 2004–05	83
Figure 3.04.1:	Medicare Benefits Schedule Health Assessments and Health Checks for Indigenous people, Victoria and Australia, 2008–09, 2009–10 and 2010–11	86
Figure 3.05.1:	Age-standardised-rate of selected MBS services claimed per 1,000 population, Indigenous and non-Indigenous Australians, Victoria and Australia, 2010–11	88
Figure 3.05.2:	Number and age-standardised rate per 1,000 population of MBS total allied health services claimed, Indigenous Australians, Victoria and Australia, 2009–10 & 2010–11	88
Figure 3.06.1:	Percentage (age-standardised) differences between Indigenous and non- Indigenous hospital episodes with a procedure reported, selected principal diagnoses, Victoria and Australia, 2008–09 to 2009–10	90
Figure 3.07.1:	Age-specific hospitalisation rates for potentially preventable hospital admissions, by Indigenous status, Victoria and NSW, Vic, Qld, WA, SA & NT combined, July 2008 to June 2010	92
Figure 3.07.2:	Age-standardised hospitalisation rates for potentially preventable hospital admissions, by Indigenous status, Victoria and NSW, Vic, Qld, WA, SA & NT combined, July 2008 to June 2010	92
Figure 3.09.1:	Percentage of hospital episodes in which patients were discharged against medical advice, by Indigenous status and age group (excluding mental and behavioural disorders), Victoria and Australia, July 2008 to June 2010	95
Figure 3.09.2:	Percentage (age-standardised) of hospital episodes in which patients were discharged against medical advice, by Indigenous status and principal diagnosis (excluding mental and behavioural disorders), Victoria, July 2008 to June 2010	96
Figure 3.10.1:	Age-standardised hospitalisation rates for principal diagnosis of mental health-related conditions by Indigenous status and sex, Victoria and NSW, Vic, Qld, WA, SA & NT combined, July 2008 to June 2010	97
Figure 3.12.1:	Aboriginal and Torres Strait Islander people aged 15 and over in the health workforce as a proportion of the total health workforce, Victoria and Australia, 2006	99
Figure 3.13.1:	Barriers to access health service providers, Indigenous persons aged 15 and over who had problems accessing services, Victoria and Australia, 2008	
Figure 3.14.1:	Age-standardised-rate of selected MBS services, Victoria and Australia, 2010–11	102

Figure 3.14.2:	Percentage of people aged 15 and over who accessed health care, by type of health care, within the last 12 months (hospital) or the last 2 weeks (other health care), by Indigenous status, age-standardised, Victoria and Australia, 2004–05	103
Figure 3.14.3:	Problems accessing health services, Indigenous persons aged 15 and over, Victoria and Australia, 2008	103
Figure 3.17.1:	Where usually go if problem with health, Aboriginal and Torres Strait Islander people, Victoria and Australia, 2004–05	105
Figure 3.18.1;	Rate of GPMPs and TCAs claimed through Medicare, Indigenous and non-Indigenous Australians, Victoria and Australia, 2010–11	107
Figure 3.19.1:	Percentage of hospital admitted patent episodes in accredited hospitals, by Indigenous status, Victoria and Australia, July 2008 to June 2010	109
Figure 3.19.2:	Proportion of general practices accredited, by proportion of Aboriginal and Torres Strait Islander people in population for Divisions of General Practice, Victoria and Australia, 2010–11	110
Figure 3.22.1:	Vacancies as a percentage of total positions (FTE) in Aboriginal and Torres Strait Islander primary health care organisations, Victoria/Tasmania and Australia, 2010-11	114

This report provides the latest information on how Aboriginal and Torres Strait Islander people in Victoria are faring according to a range of indicators on health status, determinants of health and health system performance. Indicators are based on the Aboriginal and Torres Strait Islander Health Performance Framework. The report highlights the main areas of improvement and continuing concern. For example, while health assessments have increased significantly and immunisation coverage for Indigenous children is similar to non-Indigenous children by the age of 2, the incidence of treated end-stage renal disease is 4 times the rate for non-Indigenous Australians and unemployment rates continue to remain higher for Indigenous people than for non-Indigenous people.

