

DEATHS

AUSTRALIA

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■ For further information about these and related statistics, contact the National Information Service on 1300 135 070, or Rachel Meyer on Canberra 02 6252 5117.

NOTES

ABOUT THIS ISSUE

This publication brings together statistics and indicators for deaths in Australia.

CHANGES IN THIS ISSUE

Age specific death rates at age zero are the number of infant deaths (less than one year old) per thousand estimated resident population at age zero. Prior to 1999 data presented as age specific death rates at age zero were infant mortality rates.

Data for 1999 cause of death is coded to ICD-10 (see Explanatory Note 10).

ROUNDING

In commentary based on the statistics in this publication, it is recommended that the relevant statistics be rounded. All data are affected by errors in reporting and processing. Death registration data are also affected by delays in registration. These data have had small values randomised to protect confidentiality. No reliance should be placed on statistics with small values.

DATA IN THIS PUBLICATION

This publication uses death registration data except where otherwise stated.

SYMBOLS AND OTHER USAGES

ABS Australian Bureau of Statistics

ASDR Age-specific death rate

CDR Crude death rate

ERP Estimated resident population

HIV/AIDS Human immuno-deficiency virus/acquired immuno-deficiency virus

IMR Infant mortality rate

ISDR Indirect standardised death rate

n.a. not available

n.p. not available for publication but included in totals where applicable

p preliminary

r figure or series revised since previous issue

SD Statistical Division

SDR Standardised death rate

SIDS Sudden Infant Death Syndrome

SLA Statistical Local Area

SMR Standardised mortality ratio

. . not applicable

nil, or rounded to zero (including null cells) (see Explanatory Notes,

paragraph 3)

Dennis Trewin Australian Statistician

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SECTION **1**

MAIN FEATURES

MORTALITY CONTINUES TO DECLINE

- Despite an increase in the number of deaths registered between 1998 and 1999 due to the ageing of the population, the death rate continued to decline. There were 128,100 deaths registered in Australia, an increase of 900 deaths from 1998 (127,200) (page 15).
- Over the ten year period 1989–1999 death rates declined in all States and Territories (page 16). Among the States and Territories the highest death rate in 1999, after controlling for age structure (standardised death rate), was observed in the Northern Territory and the lowest in the Australian Capital Territory (page 15).
- Currently births outnumber deaths by 2 to 1 (page 7). The excess of births over deaths is expected to decrease in the future as the population grows older and the birth rate falls. Population projections for Australia indicate that sometime in the 2030s the number of deaths will exceed the number of births. From then on, any increase in population size would only occur from net overseas migration (page 8).

LIFE EXPECTANCY CONTINUES TO INCREASE

- Reflecting the general decrease in death rates, life expectancy at birth continued to increase. A boy born in 1997–1999 could be expected to live 76.2 years, while a girl could be expected to live 81.8 years (page 91).
- Internationally, Australia's estimated life expectancy at birth in the year 2000 of 76 years for males and 82 years for females ranks behind Japan (77 years and 84 years), Switzerland (77 years and 83 years), Hong Kong (77 years and 84 years), and Sweden (77 years and 84 years). Australian life expectancy is about the same as France, Canada, Spain and Greece, and is slightly higher than New Zealand (74 years and 80 years), the United Kingdom (74 years and 80 years) and the United States of America (74 years and 79 years) (page 10).
- Life expectancy at birth was highest for males in the ACT (77.9 years), while Western Australia had the highest female life expectancy (82.1 years). The Northern Territory had the lowest male and female life expectancies at 70.6 years for males and 75.1 for females (page 91).
- Between 1979 and 1999 the difference in male and female life expectancy at birth narrowed from 7 years in 1979 (life expectancy of 70.9 years for males and 77.9 years for females) to 5.6 years in 1999 (life expectancy of 76.2 years for males and 81.8 years for females) (page 37).

VARIATIONS IN MORTALITY

- Over the last 10 years, death rates have fallen for males and females in all age groups with the exception of death rates for females in the 30–34 years age group (up 0.1%) (page 37).
- The 1999 infant mortality rate was 5.7 deaths per 1,000 live births, a slight increase from the 1998 rate of 5.0 deaths per 1,000 live births. Over one-third (37%) of all infant deaths occurred within one day of birth (page 66).
- With an overall male standardised death rate 60% higher than the female rate, males were more likely to die than females at every age. The greatest difference in age-specific death rates occurred in the 20–29 years age group where male death rates were over three times higher than female rates (page 35).

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VARIATIONS IN MORTALITY continued

- Males and females who never married had death rates almost twice those of their married counterparts (page 38).
- Overseas-born people in Australia had lower death rates than the Australian-born population. This was particularly apparent among the Asian-born population. Vietnamese-born residents had the lowest death rates in 1999, with a death rate around half that of the total population (page 40).
- Death rates in Australia's remote areas were higher than the more accessible areas. The highest death rates were in the remote areas of the Northern Territory (page 43).
- Among the Statistical Divisions, Northern Territory—Balance had the highest death rate and Midlands (in Western Australia) the lowest (after accounting for the age structure of the population) (refer to table 4.5 page 49).

INDIGENOUS MORTALITY

- Overall the Indigenous population had death rates at least twice as high as the total population in 1999 (page 73).
- The 1999 infant mortality rate for Indigenous Australians was two and half times the total Australian rate (page 75).
- The median age at death for Indigenous people was 53 years (half the deaths occur below age 53 and half occur above age 53), around 25 years less than the median age for total people of 78 years (page 74).
- Indigenous life expectancy at birth was about 20 years less than for the total population, 56 years for Indigenous males compared to 76 years for Australian males and 63 years for Indigenous females compared to 82 years for Australian females (page 73).

CAUSES OF DEATH

- Drug related deaths contributed to 2% of all deaths and 19% of all deaths in the 20–49 years age group. Of all drug related deaths 40% were attributable to accidental poisoning, 32% were intentional self-poisonings and 26% were attributable to mental and behavioural disorders due to psychoactive substance use (page 36).
- In 1999, malignant neoplasms (cancer) was the leading cause of death, responsible for 35,100 deaths or 27% of all deaths. Ischaemic heart disease was the second leading cause of death, contributing 27,600 deaths or 22% of all deaths. Stroke (cerebrovascular diseases) was responsible for 10% of all deaths while chronic lower respiratory diseases were responsible for 5% of all deaths (page 16).
- Accidents were the fifth leading cause of death accounting for 4% of deaths (page 17).
- The leading causes of death among 25–39 year olds were intentional self-harm (21%), malignant neoplasms (15%), accidental poisoning by, and exposure to, noxious substances (13%) and transport accidents excluding water, air and space accidents (12%) (page 60).

DEATHS AS A COMPONENT OF POPULATION CHANGE

Australian population growth is composed of births minus deaths plus net overseas migration. The excess of births over deaths represents natural increase, the major component of population growth. While net overseas migration makes a significant contribution to population growth in Australia, natural increase has been the greater contributor in every year since 1950, except during 1987–89.

POPULATION CHANGE, Components(a)

	Live births	Deaths	Natural increase	Net overseas migration	Population at end of period	Population increase	
Period(b)	'000	'000	'000	'000	'000	'000(c)	%
• • • • • • •	• • • • • • • • •		• • • • • •	• • • • • • • •	• • • • • • • • •	• • • • • • •	
1979	223.1	106.6	116.6	68.6	14 602.5	171.7	1.2
1980	225.5	108.7	116.8	100.9	14 807.4	204.9	1.4
1981	235.8	109.0	126.8	123.1	15 054.1	246.7	1.7
1982	239.9	114.8	125.1	102.7	15 288.9	234.8	1.6
1983	242.6	110.1	132.5	55.0	15 483.5	194.6	1.3
1984	238.5	111.9	126.6	59.8	15 677.3	193.8	1.3
1985	242.9	116.8	126.1	89.3	15 900.6	223.3	1.4
1986	243.4	115.0	128.4	110.7	16 138.8	238.2	1.5
1987	244.0	117.3	126.6	136.1	16 394.6	255.9	1.6
1988	246.2	119.9	126.3	172.8	16 687.1	292.4	1.8
1989	250.9	124.2	126.6	129.5	16 936.7	249.6	1.5
1990	262.6	120.1	142.6	97.1	17 169.8	233.0	1.4
1991	259.1	119.7	139.4	81.7	17 387.0	217.3	1.3
1992	262.1	122.9	139.2	51.4	17 581.3	194.3	1.1
1993	258.6	120.1	137.8	34.8	17 760.0	178.7	1.0
1994	258.4	127.0	131.4	55.5	17 951.5	191.5	1.1
1995	254.9	125.1	129.8	106.9	18 196.1	244.6	1.4
1996	252.9	128.2	124.7	97.4	18 423.6	227.6	1.3
1997	251.1	128.8	122.3	72.4	18 618.3	194.7	1.1
1998	248.3	127.4	120.8	103.1	18 842.2	223.9	1.2
1999p	250.7	129.3	121.5	87.5	19 051.2	208.9	1.1

⁽a) Births and deaths are as recorded for population estimation purposes. See Australian Demographic Statistics Quarterly (Cat. no. 3101.0).

The average number of deaths occurring each year over the period 1989–1999 was 124,900, just under half the average number of births occurring over the same period (255,800). This has resulted in an average annual level of natural increase of 130,900 or 61% of total population growth.

•••••

⁽b) Calendar years.

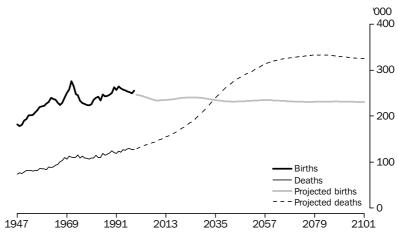
⁽c) The addition of natural increase and net overseas migration will not necessarily equate with the difference between the population in consecutive years. This difference is known as intercensal discrepancy. See Glossary for more information.

DEATHS AS A COMPONENT OF POPULATION CHANGE continued

The number of deaths registered in 1999 was 128,100, a 3% increase on the number of deaths registered in 1989 (124,200). This increase has resulted from an overall increase in the population, and in particular, an increase in the number of older people.

Natural increase has been positive in Australia throughout the 20th century. Since 1976 the fertility rate has been at a lower level than required to replace the population in the long-term. Natural increase has remained positive despite the fall in fertility because the relatively young age structure of the population has provided a sufficient number of women of childbearing ages to maintain a relatively high number of total births. At the same time, there have been fewer people in the older ages, where death rates are high, resulting in a relatively small number of deaths. As the population ages the gap between the number of births and deaths will decrease, and assuming a total fertility rate of 1.6 babies per woman and net overseas migration of 90,000 per year, natural increase is projected to fall below zero sometime around 2035 (series II).

ACTUAL AND PROJECTED(a) BIRTHS AND DEATHS



(a) Series II in Population Projections, Australia 1999–2101 (Cat. no. 3222.0).

Beyond this point, only net overseas migration will contribute to population growth. The projected decline in natural increase is particularly affected by the ageing of the large cohort of Australians born between the late 1940s and the early 1960s, known as the baby boomers. Once the women within this cohort have moved out of the child bearing ages, there is little prospect of an increase in the total number of annual births, given that the following cohorts of women are smaller in number. A second significant demographic impact of the ageing baby boomers is expected to occur as this group moves into their 70s in the years 2020 and beyond. The total number of deaths is expected to increase particularly rapidly for a period of around 20 years at this time.

DIFFERENT DEATHS DATA

Deaths as a component of population estimates

The ABS produces estimates of the population at various geographic levels. These are produced by taking the population at one point, adding births, subtracting deaths and adding net overseas migration. To meet the conflicting demands for accuracy and timeliness, this is done three times; preliminary estimates are produced six months after the end of the reference period, revised estimates are produced 15 months after a financial year and final estimates are produced following a census. Therefore three estimates of the number of deaths are produced.

Deaths registered

Most of the analysis in this publication is based on the number of deaths which were registered in a given year, usually 1999. Because there is a delay between when a death occurs and when it is registered, only 96% of the deaths registered in 1999 had actually occurred in 1999. Virtually all of the remaining deaths (4%) occurred in 1998.

The majority of deaths are registered in the State or Territory where they occur, although in some instances deaths are registered in a different State or Territory. Analysis in this publication is based on the number of deaths by State or Territory of usual residence.

Deaths occurrence basis

Using death registration statistics, but compiling them on a year-of-occurrence basis gives an estimate of the number of deaths that occurred in a given year. However, as deaths that occur in a given year may be registered years later, statistics based on this concept are never finalised and are always subject to revision.

INTERNATIONAL CONTEXT

Throughout the year 2000, it is expected that around 55 million deaths would occur world-wide. This has not increased much since 1950 when, in that year, there were around 50 million deaths. However, over the same period, the world's population has grown from 2.5 billion to 6.1 billion inhabitants. The relatively small increase in deaths from a rapidly growing population is reflected in the more than halving of the crude death rate from 20 deaths to 9 deaths per 1,000 population over the 50 year period. Much of the decline in the world death rate can be attributed to the significant decrease in death rates throughout the less developed world. The unprecedented population increase seen since 1950 is largely a result of the mortality decline in Africa, Asia, Central and South America, coupled with fertility levels remaining relatively high. Although the total fertility rate has declined from 5.0 to 2.9 births per woman since 1950, the annual number of births has increased from 94 to 133 million over the 1950–2000 period, leading to average annual population growth of around 72 million (or 1.8%) in 2000 (PRB, 2000).

Life expectancy at birth

As death rates have declined, average life expectancy has increased. In 2000, global life expectancy at birth was projected to be 66 years (males and females combined), a gain of more than 20 years of life from 1950 when a newborn infant could expect to live on average for 45 years. However, life expectancy differs markedly in different regions of the world. Regions defined by the UN as being made up of less developed countries¹ have an overall life expectancy of 64 years, compared to 75 years for developed regions. The African continent has the lowest life expectancies, with wide variation across the continent. The lowest life expectancies were projected for the Sub-saharan African countries where HIV/AIDs has had a devastating impact. Malawi and Zambia for example, have projected life expectancies of only 39 and 37 years respectively for 2000.

In contrast, Australia's 1997–99 life expectancy of 76 years for males and 82 years for females is among the highest in the world. In a summary produced by the Population Reference Bureau (2000), Australia's male life expectancy for 2000 is projected to be 76 years for males and 82 years for females, behind Japan (77 years and 84 years), Switzerland (77 years and 83 years), and Hong Kong and Sweden (each 77 and 82 years). Similar life expectancies to Australia are projected for France (75 and 82 years), Canada (76 and 81 years), Spain (74 and 82 years) and Greece (75 and 81 years). The United Kingdom and New Zealand each have projected life expectancies of 74 years for males and 80 years for females, while the United States of America has projected life expectancies of 74 years for males and 79 years for females. The world's most populous country, China, is projected to have a life expectancy of 69 years for males and 73 years for females in 2000, while a life expectancy of 62 years for males and 66 years for females is projected for Indonesia.

Countries outside Europe, North America, Australia, Japan and New Zealand (1999, PRB).

INTERNATIONAL LIFE EXPECTANCY AT BIRTH



Infant mortality

The infant mortality rate (IMR) is used widely as a general indicator of population health and living conditions. The 2000 world IMR is projected to be 57 infant deaths per 1,000 live births. As with the world average life expectancy, the average IMR hides the marked contrast between the developed and less developed regions. The less developed regions are projected to have an average IMR in 2000 of 63 infant deaths per 1,000 live births while the more developed regions IMR is projected to be an average of 8 infant deaths per 1,000 live births.

Australia's 1999 IMR of 5.7 infant deaths per 1,000 live births was among the lowest in the world. Projections for 2000 (PRB, 2000) show Iceland with the lowest IMR, of 2.6 infant deaths per 1,000 live births, followed by Singapore (3.2), Hong Kong (3.2), Sweden (3.5), and Japan (3.5). In contrast, the world's highest IMRs were projected for regions in Sub-saharan Africa where the projected IMR for Middle Africa was 106 and for Eastern Africa was 102 infant deaths per 1,000 live births for 2000. Most infant deaths in Africa are from infectious and parasitic diseases (including HIV/AIDs) and from nutritional deficiencies.

2.1 SUMMARY, Australia and Selected Countries

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		Australia	Canada	Germany	Greece	Hong Kong	Italy	Japan	Malaysia	Republic of Korea	New Zealand	United Kingdom	United States of America
• • • • • • • • • • • • •						ЛALES			• • • • • •				
Crude death rate													
Reference year	year	1999	1995	1996	1997	1997	1994	1997	1997	1995	1996	1997	1995
Crude death rate	rate	7.1	7.6	10.2	10.2	5.5	10.3	6.5	5.1	6.1	8.1	10.4	9.1
Infant mortality rate													
Reference year	year	1999	1995	1997	n.a.	n.a.	1994	1997	1997	n.a.	n.a.	1997	1996
Infant mortality	,												
rate	rate	6.4	6.7	5.4	n.a.	n.a.	7.2	4.0	10.6	n.a.	n.a.	6.4	8.0
Expectation of life(a)													
,			1995–	1995-	1995–	1995–	1995-	1995-	1995-	1995–	1995–	1995–	1995–
Reference period	years	1997–99	2000(a)	2000(a)	2000(a)	2000(a)	2000(a)	2000(a)	2000(a)	2000(a)	2000(a)	2000(a)	2000(a)
Age 0	years	76.2	76.1	73.9	75.6	75.8	75.0	76.8	69.9	68.8	74.1	74.5	73.3
Age 1	years	75.7	75.6	73.4	75.2	75.3	74.5	76.2	69.8	68.5	73.6	74.1	72.9
Age 25	years	52.5	52.2	49.9	51.9	51.7	51.2	52.8	47.1	45.5	50.6	50.7	49.8
Age 45	years	33.8	33.4	31.1	33.1	32.6	32.1	33.7	28.7	27.2	31.9	31.6	31.7
Age 65	years	16.6	16.6	14.9	16.3	16.1	15.4	16.8	13.4	12.3	15.3	14.9	15.7
Age 85	years	5.5	5.9	4.8	5.1	5.7	4.9	5.3	4.8	3.6	5.1	5.0	5.3
Age-specific death rates(b)													
Reference year	year	1999	1995	1996	1997	1997	1994	1997	1997	1995	1996	1997	1995
0	rate	6.4	6.6	5.7	6.8	3.6	7.1	3.9	11.2	3.3	n.a.	6.3	8.4
1–4	rate	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.8	0.7	1.9(c)	0.3	0.4
5–9	rate	0.1	0.2	0.2	0.2	0.1	0.2	0.2	0.4	0.4	0.2	0.1	0.2
10–14	rate	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.5	0.4	0.3	0.2	0.3
15–19	rate	0.8	8.0	0.7	0.7	0.4	8.0	0.5	1.4	1.1	1.3	0.6	1.2
20–24	rate	1.2	1.0	1.0	1.1	0.8	0.9	0.6	1.7	1.2	1.5	0.9	1.6
25–29	rate	1.4	1.1	1.0	1.2	0.8	1.2	0.7	1.9	1.7	1.5	0.9	1.7
30–34	rate	1.4	1.3	1.2	1.2	0.8	1.7	0.8	2.3	2.1	1.4	1.0	2.3
35–39	rate	1.4	1.7	1.8	1.6	1.0	1.7	1.1	2.7	3.0	1.5	1.2	2.9
40–44	rate	1.8	2.2	2.8	2.2	1.8	2.1	1.7	3.5	4.6	1.7	2.0	3.8
45-49	rate	2.5	3.2	4.2	3.5	2.4	3.1	2.9	5.2	6.6	3.2	3.1	5.0
50-54	rate	3.9	5.1	6.8	5.6	4.3	5.5	4.7	8.6	10.2	5.4	5.1	7.3
55–59	rate	6.7	8.4	10.4	8.2	7.1	8.9	7.2	13.5	14.3	9.1	9.0	11.1
60–64	rate	11.0	14.1	17.3	12.8	12.3	15.2	12.0	23.0	20.6	15.7	14.9	17.7
65–69	rate	19.0	23.3	27.8	21.4	20.5	25.0	19.2	36.6	34.0	24.6	25.8	26.5
70–74	rate	33.0	36.8	42.8	34.9	32.9	39.1	29.1	57.9	55.3	40.2	43.4	40.3
75–79	rate	52.6	59.3	67.0	55.9	50.5	63.5	50.1	119.0(d)	92.4	64.0	67.9	60.4
80–84	rate	88.3	94.8	115.2	103.4	76.8	100.3	86.5	n.a	269.1(e)	104.8	110.3	96.3
85 and over	rate	166.1	171.8	201.1	n.a	123.3	183.2	n.a.	n.a	n.a	203.6	n.a	179.8

⁽a) United Nations projection data, unpublished.

Source: United Nations Demographic Yearbook, 1998, unpublished, (for all countries apart from Australia)

n.a. not available

⁽b) Number of deaths per 1,000 population.

⁽c) Includes age 0.

⁽d) Aged 75 years and over.

⁽e) Aged 80 years and over.

2.1 SUMMARY, Australia and Selected Countries continued

		Australia	Canada	Germany	Greece	Hong Kong	Italy	Japan	Malaysia	Republic of Korea	New Zealand	United Kingdom	United States of America
					FE	EMALES							
Crude death rate													
Reference year	year	1999	1995	1996	1997	1997	1994	1997	1997	1995	1996	1997	1995
Crude death rate	rate	6.4	6.6	11.3	8.9	4.2	9.2	8.1	3.8	4.7	7.5	11.0	8.5
Infant mortality rate													
Reference year	year	1999	1995	1997	n.a.	n.a.	1994	1997	1997	n.a.	n.a.	1997	1996
Infant mortality	•												
rate	rate	4.9	5.5	4.3	n.a.	n.a.	5.9	3.4	8.3	n.a.	n.a.	5.3	6.6
Expectation of life(a)													
Deference period		400= 00	1995-	1995-	1995-	1995-	1995-	1995-	1995-	1995–	1995–	1995-	1995-
Reference period	-	1997–99	2000(a)	2000(a)	2000(a)	2000(a)							
Age 0	years	81.8	81.8	80.2	80.7	81.4	81.2	82.9	74.3	76.0	79.7	79.8	80.1
Age 1	years	81.2 57.6	81.3 57.6	79.6 56.0	80.3 56.6	80.8 57.2	80.8 57.2	82.3 58.6	74.0 50.7	75.8 52.6	79.3 55.8	79.3 55.6	79.6 56.0
Age 25 Age 45	years years	38.2	38.2	36.6	37.1	37.7	37.7	39.2	31.7	33.7	36.5	36.2	36.9
Age 45 Age 65	years	20.2	20.5	18.8	18.7	19.8	19.6	20.9	14.9	16.5	19.2	18.8	19.5
Age 85	years	6.6	7.3	5.8	5.3	7.2	6.2	6.7	4.9	5.0	6.6	6.6	6.8
Age-specific death rates (b)													
Reference year	year	1999	1995	1996	1997	1997	1994	1997	1997	1995	1996	1997	1995
0 1–4	rate	4.9	5.5	4.4	6.2	3.3 0.2	5.8	3.4	8.6	2.6	n.a.	5.2 0.2	6.9
1–4 5–9	rate rate	0.3 0.1	0.2 0.1	0.3 0.1	0.3 0.2	0.2	0.3 0.2	0.3 0.1	0.7 0.3	0.7 0.3	1.7(c) 0.2	0.2	0.4 0.2
10–14	rate	0.1	0.1	0.1	0.2	0.1	0.2	0.1	0.3	0.3	0.2	0.1	0.2
15–19	rate	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.5	0.5	0.3	0.1	0.5
	rate	0.5	0.5	0.5	0.0	0.2	0.2	0.2	0.5	0.5	0.1	0.0	0.5
20–24	rate	0.4	0.3	0.3	0.3	0.2	0.3	0.3	0.5	0.6	0.5	0.3	0.5
25–29	rate	0.4	0.4	0.4	0.3	0.4	0.4	0.3	0.6	0.7	0.5	0.4	0.6
30–34	rate	0.6	0.5	0.5	0.5	0.3	0.6	0.4	0.9	0.8	0.7	0.5	0.9
35–39	rate	0.7	8.0	0.9	0.6	0.5	0.7	0.6	1.3	1.1	0.8	0.8	1.3
40–44	rate	1.1	1.2	1.4	1.1	0.9	1.0	1.0	1.8	1.6	1.1	1.3	1.8
45-49	rate	1.6	2.0	2.3	1.5	1.3	1.7	1.6	3.1	2.3	2.5	2.1	2.6
50-54	rate	2.3	3.1	3.4	2.3	2.3	2.7	2.3	4.9	3.8	3.7	3.3	4.1
55–59	rate	3.8	5.1	4.8	3.6	3.6	4.1	3.2	8.3	5.6	5.7	5.4	6.6
60–64	rate	6.3	7.7	7.8	5.7	5.9	6.6	5.1	14.5	8.7	9.9	9.0	10.4
65–69	rate	9.9	12.7	13.2	10.9	9.7	11.1	7.9	25.7	15.7	14.9	15.3	15.7
70–74	rate	17.8	20.1	22.8	20.3	17.7	19.9	13.3	42.6	29.2	23.4	26.2	24.4
75–79	rate	30.4	33.5	39.3	38.7	30.4	36.8	24.9	98.8(d)	54.9	39.2	42.2	38.2
80–84	rate	59.1	59.0	76.7	85.6	51.0	66.5	48.2		223.5(e)	71.2	73.1	63.6
85 and over	rate	136.1	136.4	166.6	n.a.	109.9	155.6	n.a.	n.a.	n.a.	157.4	n.a.	144.9

⁽a) United Nations projection data, unpublished.

Source: United Nations Demographic Yearbook, 1998, unpublished (for all countries apart from Australia)

n.a. not available

⁽b) Number of deaths per 1,000 population.

⁽c) Includes age 0.

⁽d) Aged 75 years and over.

⁽e) Aged 80 years and over.

2.2 STATE OR TERRITORY OF USUAL RESIDENCE, By State or Territory of Registration

STATE OR TERRITORY OF REGISTRATION.....

State or Territory of usual residence	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust.(a)
• • • • • • • • • • • • • • • • • • • •									
New South Wales	44 352	222	351	36	17	3	12	222	45 215
Victoria	182	31 559	83	51	18	12	5	8	31 918
Queensland	204	44	22 563	11	11	3	4	9	22 849
South Australia	29	33	16	11 188	10	3	11	_	11 291
Western Australia	16	13	13	9	10 815	3	6	_	10 877
Tasmania	9	24	7	_	5	3 735	_	_	3 783
Northern Territory	4	7	3	21	8	_	790	_	832
Australian Capital Territory	44	6	6	3		_	_	1 270	1 331
Australia(a)	44 842	31 908	23 041	11 318	10 889	3 759	831	1 514	128 102

2.3 DEATHS REGISTERED in 1999, By Year of Occurrence(a)

Aust.(b)

	STATE OR TE	RRITORY	OF REGIST	TRATION				
Year of occurrence	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT

• • • • • • • • • • • • • • • •	• • • • • • •	• • • • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • •	• • • • • •
Before 1990	3	_	_	3	_	_	_	_	8
1990	_	_	_	_	_	_	_	_	4
1991	_	_	_	_	_	_	_	_	3
1992	_	_	_	_	_	_	_	_	_
1993	_	_	_	3	_	_	_	_	4
1994	_	3	_	_	_	_	_	_	8
1995	_	3	3	_	_	_	_	_	7
1996	_	9	3	4	_	_	_	_	17
1997	7	26	5	7	4	_	_	_	49
1998	1 396	1 159	1 464	462	405	256	69	58	5 269
1999	43 425	30 703	21 563	10 840	10 478	3 503	762	1 456	122 730
Total(c)	44 842	31 908	23 041	11 318	10 889	3 759	831	1 514	128 102

⁽a) See paragraph 2 of the Explanatory Notes.

⁽a) Includes Other Territories.

[—] nil or rounded to zero (including null cells)

⁽b) Includes Other Territories.

⁽c) Includes year of occurrence not available.

⁻ nil or rounded to zero (including null cells)

SECTION 3 DEATHS

NATIONAL AND STATE REGISTRATIONS

In 1999, a total of 128,100 deaths (67,200 males and 60,900 females) were registered in Australia. This represents an increase of 900 (0.7%) on the registrations for 1998. The 20 year trend shows the number of deaths has increased by an average of 0.9% per year since 1979. The steady increase in the number of deaths over time reflects the increasing size of the population, and in particular, the increasing number of older people. With the continued ageing of the population, the number of deaths will continue to rise in the future.

The proportion of deaths registered by State or Territory of usual residence in 1999 followed the State and Territory population distribution, with more than three-quarters of all deaths coming from the three most populous eastern States. Of the total 128,100 deaths registered in 1999, 35% were from New South Wales (45,200), 25% were from Victoria (32,000) and 18% were from Queensland (22,800).

While the total number of deaths throughout Australia in 1999 was around 3% higher than in 1989, there was great variation among the States and Territories in the percentage increase in registered deaths over the past 10 years.

Registrations for the Australian Capital Territory increased the most, up 36% over the 1989–99 period. The high population growth States of Western Australia and Queensland followed with increases of 14% and 12% respectively. The Northern Territory had the fourth highest percentage increase (up 6%). Victoria and South Australia recorded slight decreases in the number of deaths registered over the 10 year period (down 1% each), while the number of registered deaths in New South Wales remained relatively unchanged.

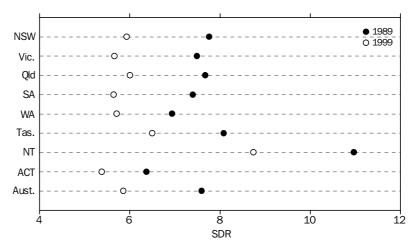
DECLINING DEATH RATES

Despite the ageing of the population over the last 20 years, deaths rates have continued to decline. The crude death rate (CDR) fell slightly, from 7.3 deaths per 1,000 population in 1979 to 6.8 deaths per 1,000 in 1999. The fall in CDR against the background of an older population indicates the considerable decline in age-specific death rates over the period. The standardised death rate (SDR) (which eliminates the effect of the changing age structure of the population) was 5.9 deaths per 1,000 population in 1999, down by 2% from 1998 (6.0) and down by 32% from 1979 (8.6), or an average of 2% per year.

Although all States and Territories contributed to the national decline in the SDR, there were some considerable State-Territory differences in SDRs. In 1999, the lowest SDR was recorded in the ACT at 5.4 deaths per 1,000 standard population. Western Australia, South Australia and Victoria followed with SDRs of 5.7 each. The Northern Territory had the highest SDR at 8.7 deaths per 1,000 standard population, and Tasmania had the second highest SDR at 6.5.

STANDARDISED DEATH RATES continued

STANDARDISED DEATH RATES(a)



(a) Per 1,000 population standardised to the 1991 Australian population.

AGE AT DEATH

The median age at death in 1999 was 74.8 years for males and 81.4 years for females. The median age at death in the Northern Territory was 20 years less than the median age nationally. This results from a combination of a young age structure and high mortality of the Indigenous population who comprise around 28% of the total Territory's population. South Australia had the highest median ages at death with 75.8 years for males and 82.2 years for females, reflecting the slightly older population of South Australia compared to other States and Territories.

LEADING CAUSES OF DEATH

In 1999, malignant neoplasms (cancer) was the leading cause of death, with 35,100 deaths or 27% of all deaths. The SDR for cancer deaths was 166 deaths per 100,000 population. The ACT SDR for cancer deaths was 3% below (160 deaths per 100,000 population) the national rate and was the lowest SDR of all the States and Territories. The highest SDR for cancer was observed in the Northern Territory at 177 death per 100,000 population, 26% above the national rate.

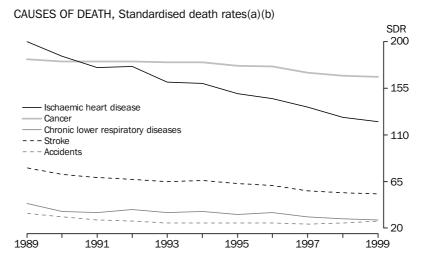
Of deaths due to malignant neoplasms, lung cancer was the leading cause among males (contributing 23% of all male cancer deaths), while breast cancer was the leading cancer-type death among females, contributing 16% of all female cancer deaths.

Ischaemic heart disease (IHD) was the second leading cause of death, contributing 27,600 deaths or 22%, of all deaths with a SDR of 123 deaths per 100,000 population. Again, the Northern Territory experienced the highest SDR for IHD at 142 death per 100,000 population (15% above the national level), while the ACT had the lowest rate (103 deaths per 100,000 population), 16% below the national rate.

During the last decade, IHD and cancer remained the two leading causes of death. In 1991, cancer overtook IHD as the leading cause of death. This has been the result of the long-term downward trend in the SDR for IHD, declining by an average of 4% per year from 1979 to 1999, while the SDR for malignant neoplasms declined by an average of just 0.2% per year over the same period.

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LEADING CAUSES OF DEATH continued



- (a) Per 100,000 population standardised to the 1991 Australian population.
- (b) 1999 data are coded to ICD-10. Prior to 1999 the SDR for chronic respiratory diseases is the SDR for the group of diseases in ICD-9 under the heading of chronic obstructive pulmonary disease and conditions (including asthma, emphysema bronchitis) (490–496).

Cerebrovascular disease (stroke) was the third leading cause of death contributing 10% of all deaths. The SDR for stroke deaths was 53 deaths per 100,000 population. Stroke deaths have undergone a decline similar to that of ischaemic heart disease, with the SDR declining by an average of 4% per year from 1979 to 1999. The Northern Territory had the highest SDR for stroke, 23% higher than the national rate (65 deaths per 100,000 standard population).

Chronic lower respiratory diseases were the fourth leading cause of death in 1999, with 5% of all deaths and SDR of 28 deaths per 100,000 population. The Northern Territory's SDR for chronic lower respiratory diseases (52 deaths per 100,000 population) was almost double the national rate, while Tasmania had an SDR 32% higher than the national level at 37 deaths per 100,000 population.

Accidents were the fifth leading cause of death, accounting for 4% of all deaths, with an SDR of 27 deaths per 100,000 population. Transport accidents contributed 38% of these deaths while accidental poisoning by and exposure to noxious substances contributed 21%. The Northern Territory SDR for accidents was 43% higher than the national level (38 deaths per 100,000 standard population), while South Australia had SDR for accidents 18% less than the national level (22 deaths per 100,000 population).

3.1 DEATHS, Summary(a)—States and Territories

NSW Vic. Qld SA WA Tas. NT ACT Aust.(b) DEATHS Total deaths 45 215 31 918 22 849 11 291 10 877 3 783 832 1 331 128 102 no. Males no. 23 782 16 433 12 180 5 840 5 843 1 954 509 682 67 227 Females 21 433 15 485 10 669 5 451 5 034 1 829 323 649 60 875 no. Sex ratio ratio 111.0 106.1 114.2 107.1 116.1 106.8 157.6 105.1 110.4 Indigenous deaths(c) 435 130 529 350 399 1 976 no. 116 n.p. n.p. Males 257 80 305 62 208 221 no. n.p. n.p. 1 142 Females 50 224 178 54 142 178 834 no. n.p. n.p. Standardised death rates rate 5.9 5.7 6.0 5.7 5.7 6.5 5.9 Males rate 7.6 7.1 7.5 7.2 7.3 8.2 9.6 6.5 7.4 Females rate 4.6 4.5 4.8 4.4 4.4 5.2 7.7 4.5 4.6 Crude death rates 7.1 6.8 6.5 7.6 5.9 8.0 4.3 4.3 6.8 rate Males 7.1 6.9 rate 7.5 7.9 6.2 8.4 5.0 4.4 7.1 Females rate 6.7 6.5 6.1 7.2 5.5 7.7 3.6 4.2 6.4 Median age at death 77 7 78.2 77 4 78 5 77.8 years 77 *4* 77.8 57 7 75.3 Males years 74.8 75.2 74.2 75.8 74.3 75.4 55.5 72.3 74.8 Females 81.3 81.8 81.2 82.2 81.5 80.5 61.7 79.5 81.4 vears Age specific death rates Age group (years) Males Ω 6.2 6.6 5.5 13.2 6.2 6.4 5.4 8.4 6.4 rate 1-4 rate 0.3 0.3 0.3 0.3 0.6 0.2 0.4 0.2 0.3 5-14 0.1 0.2 0.2 0.2 0.3 0.2 0.2 0.2 rate 0.1 15-24 rate 1.0 0.9 1.0 0.9 1.2 1.2 2.5 0.6 1.0 25-34 rate 1.4 1.3 1.3 1.4 1.4 1.6 3.1 1.3 1.4 35-44 rate 1.7 1.5 1.6 1.8 1.5 1.7 3.5 1.4 1.6 45-54 rate 3.3 3.0 3.3 3.1 3.5 3.0 3.2 55-64 8.9 8.1 9.1 7.8 8.0 8.7 15.0 6.9 8.6 rate 65 - 74rate 26.4 24.4 26.3 24.7 23.9 26.8 36.6 20.9 25.5 75-84 65.5 63.4 64.9 64.1 65.2 76.9 70.5 55.4 64.8 rate 85 and over rate 170.5 161.9 166.0 163.0 163.7 176.0 119.2 161.3 166.1 Females 0 5.4 5.0 4.7 3.1 3.8 6.1 10.5 5.3 4.9 rate 1-4 0.3 0.2 0.5 rate 0.3 0.1 0.2 0.5 0.4 0.3 5-14 rate 0.1 0.1 0.1 0.1 0.1 0.1 0.3 0.0 0.1 15-24 0.4 0.3 0.4 0.4 0.3 0.5 0.9 0.2 rate 0.4 25 - 34rate 0.4 0.5 0.5 0.5 0.5 0.5 1.0 0.4 0.5 35-44 0.9 0.9 rate 1.0 0.9 0.9 1.0 1.8 0.9 0.9 45-54 2.0 1.8 2.0 1.9 3.0 rate 2.0 3.9 1.9 2.0 55-64 rate 5.2 4.5 5.0 5.0 4.5 5.4 10.3 4.5 4.9

......

85 and over

65-74

75-84

rate

rate

rate

14.0

41.4

13.2

41.5

14.3

42.3

135.9 134.8 142.4 131.9 132.3 141.3

13.0

39.5

12.9

40.8

16.2

46.6

30.6

74.9

14.0

38.7

87.0 140.5

13.8

41.5

136.1

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⁽a) See Glossary for definitions of terms used.

⁽b) Includes Other Territories.

⁽c) Does not include all Indigenous deaths—see table 6.1.

3.1 DEATHS, Summary(a)—States and Territories continued

	• • • • • •	• • • • • • •		• • • • • •	• • • • •	• • • • • •	• • • • •	• • • • • •		• • • • •
		NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust.(b)
	• • • • •	DEATHO		• • • • •	• • • • •	• • • • •	• • • • •	• • • • •	• • • • •	• • • • •
Expectation of life(c)		DEATHS								
Males										
Age 0	years	76.1	76.7	76.0	76.4	76.4	75.4	70.6	77.9	76.2
Age 1	years	75.5	76.1	75.6	75.8	75.8	75.0	70.4	77.2	75.7
Age 25	years	52.3	52.8	52.4	52.5	52.7	51.8	47.8	53.9	52.5
Age 45	years	33.6	34.0	33.7	33.8	34.1	33.0	30.5	35.0	33.8
Age 65	years	16.5	16.8	16.7	16.6	16.8	16.0	15.0	17.3	16.6
Age 85	years	5.5	5.6	5.7	5.4	5.6	5.2	5.3	5.7	5.5
Females										
Age 0	years	81.7	82.0	81.7	82.1	82.1	80.7	75.1	81.8	81.8
Age 1	years	81.1	81.4	81.2	81.4	81.5	80.1	75.0	81.3	81.2
Age 25	years	57.5	57.7	57.6	57.8	57.9	56.5	51.8	57.6	57.6
Age 45	years	38.2	38.4	38.3	38.4	38.6	37.2	33.2	38.3	38.2
Age 65	years	20.2	20.3	20.3	20.3	20.5	19.5	17.1	20.2	20.2
Age 85	years	6.6	6.6	6.7	6.6	6.7	6.4	5.7	6.6	6.6
Leading causes of death (SDR per 100,000 population)										
Males										
Malignant neoplasms (C00-C97)	rate	213	213	219	211	221	225	238	184	215
Ischaemic heart diseases (I20-I25)	rate	171	150	178	163	151	173	190	132	164
Cerebrovascular diseases (I60-I69)	rate	60	50	56	54	54	63	53	39	55
Chronic lower respiratory diseases (J40–J47)	rate	40	40	44	32	39	52	58	39	40
Accidents (V01–X59)	rate	36	40	39	31	41	42	52	33	38
Females										
Malignant neoplasms (C00-C97)	rate	126	132	130	124	130	148	177	143	129
Ischaemic heart diseases (I20-I25)	rate	91	82	102	84	82	95	89	80	89
Cerebrovascular diseases (I60–I69)	rate	53	46	52	48	47	48	74	61	50
Chronic lower respiratory diseases (J40–J47)	rate	21	18	20	18	17	26	43	17	20
Accidents (V01–X59)	rate	15	17	16	13	18	23	24	12	16
		• • • • • •					• • • • •			• • • • •

⁽a) See Glossary for definitions of terms used.

⁽b) Includes Other Territories.

⁽c) Life expectancy was calculated over the three year period 1997–1999.

3.1 DEATHS, Summary(a)—States and Territories continued

NSW Vic. Old SA WA Tas. NT ACT Aust.(b) INFANT DEATHS **Total Infant deaths** 504 331 266 78 42 24 1 408 117 46 no. Males 281 188 159 27 812 no. 13 Females 223 143 107 28 47 596 19 18 11 no. Aboriginal and Torres Strait Islander infant deaths(c) 41 9 39 5 26 27 149 n.p. n.p. no. Males no. 17 5 32 3 10 n.p. 15 n.p. 82 Females no. 3 16 n.p. 12 n.p. 67 Infant mortality rates rate 5.8 5.6 5.7 4.3 4.7 7.6 11.7 5.6 5.7 Males 6.3 6.2 6.6 5.4 5.5 8.8 13.2 6.1 6.4 rate Females rate 5.3 5.0 4.7 3.2 3.9 6.4 10.3 5.2 4.9 Age at death Males 293 Under 1 day 107 76 53 16 20 9 no. 1 day and under I week no. 59 30 27 5 15 6 2 4 148 1 week and under 1 month 24 4 4 43 16 3 12 6 112 no. 1 month and under 1 year 259 no. 72 58 63 26 23 9 7 Females Under 1 day no. 88 68 35 8 19 5 6 4 233 1 day and under I week 30 22 11 6 3 2 77 no. 1 week and under 1 month no. 27 20 17 5 7 7 4 3 90 1 month and under 1 year 196 no.

⁽a) See Glossary for definitions of terms used.

⁽b) Includes Other Territories.

⁽c) Does not include all Indigenous deaths—see table 6.1.

⁻⁻⁻ nil or rounded to zero (including null cells)

3.2 DEATHS, Summary(a)—Selected Years

1989 1994 1995 1996 1997 1998 1999 DEATHS **Total deaths** 124 232 126 692 125 133 128 719 129,350 127,202 128 102 no. 66 926 67 464 66 251 68 206 67 752 Males no. 67 073 67 227 57 306 59 228 58 882 60 513 Females 61 598 60 129 60 875 no. Sex ratio 116.8 113.9 112.5 112.7 110.0 111.5 110.4 Standardised death rates 7.6 6.7 6.4 6.4 6.3 6.0 5.9 rate Males 9.8 8.7 8.2 8.2 7.9 7.6 7.4 Females 5.9 5.2 5.0 5.0 4.9 4.7 4.6 rate Crude death rates 6.9 rate 7.4 7.1 7.0 7.0 6.8 6.8 7.4 Males rate 8.0 7.6 7.5 7.4 7.2 7.1 Females rate 6.8 6.6 6.5 6.6 6.6 6.4 6.4 Median age at death 75.1 76.6 76.6 77.0 77.2 77.4 77.8 years Males 73.5 vears 72.2 73.5 74.0 74.2 74.5 74.8 Females years 78.7 80.2 80.3 80.7 81.0 81.0 81.4 Age specific death rates Age group (years) Males Ω rate 8.9 6.6 6.1 6.4 5.7 5.5 6.4 1-4 rate 0.4 0.4 0.4 0.4 0.4 0.4 0.3 5-14 rate 0.2 0.2 0.2 0.2 0.2 0.2 0.2 15-24 rate 1.2 1.0 1.0 1.0 1.1 1.0 1.0 1.4 1.3 1.3 25-34 1.3 rate 1.3 1.4 1.4 35-44 rate 1.8 1.8 1.8 1.7 1.7 1.7 1.6 45-54 3.6 3.5 3.4 3.2 4.4 3.4 3.2 rate 55-64 rate 13.3 10.8 10.3 9.9 9.6 9.1 8.6 65-74 34.6 30.2 28.9 28.3 27.4 26.2 25.5 rate 75-84 78.5 rate 86.7 73.6 74.1 70.6 67.5 64.8 85 and over rate 200.0 186.9 176.6 181.3 174.0 167.2 166.1 Females 7.1 5.0 0 5.2 5.1 4.9 4.5 4.9 rate 1-4 rate 0.4 0.3 0.3 0.3 0.2 0.3 0.3 5-14 rate 0.2 0.2 0.2 0.1 0.1 0.1 0.1 15-24 rate 0.4 0.3 0.4 0.3 0.4 0.4 0.4 25-34 0.5 0.4 0.5 0.5 0.5 rate 0.5 0.5 35-44 1.0 0.9 0.9 0.9 0.9 0.9 0.9 rate 45-54 rate 2.6 2.2 2.2 2.1 2.1 2.1 2.0 55-64 7.0 5.9 5.7 5.7 5.5 5.2 4.9 rate 65-74 rate 18.3 16.2 15.6 15.1 15.1 14.2 13.8 75-84 48.8 47.0 46.4 44.8 rate 53.1 42.9 41.5 85 and over 144.6 rate 159.9 149.2 142.6 145.7 136.1 136.1

⁽a) See Glossary for definitions of terms used.

3.2 DEATHS, Summary(a)—Selected Years continued

• • • • • • • • • • • • • • • • • • • •	• • • • • • •		• • • • • •	• • • • • •	• • • • • • •	• • • • • • •		
		1000	1004	1005	1006	1007	1000	1000
		1989	1994	1995	1996	1997	1998	1999
		DEATHS	• • • • • •	• • • • • •	• • • • • •	• • • • • • •		
Expectation of life(b)	'	DEATITIS						
Males								
Age 0	years	73.3	75.0	75.0	75.2	75.6	75.9	76.2
Age 1	years	73.0	74.5	74.5	74.7	75.0	75.3	75.7
Age 25	years	49.9	51.3	51.3	51.5	51.8	52.1	52.5
Age 45	years	31.2	32.5	32.5	32.8	33.1	33.4	33.8
Age 65 Age 85	years	14.7	15.7 5.1	15.7 5.1	15.8	16.1 5.3	16.3 5.4	16.6 5.5
Age 65	years	4.8	5.1	5.1	5.1	5.5	5.4	5.5
Females								
Age 0	years	79.6	80.9	80.8	81.1	81.3	81.5	81.8
Age 1	years	79.1	80.3	80.3	80.5	80.7	80.9	81.2
Age 25	years	55.6	56.7	56.7	56.9	57.1	57.3	57.6
Age 45 Age 65	years	36.3	37.3	37.3	37.5	37.7	38.0	38.2 20.2
Age 85	years years	18.7 5.9	19.4 6.2	19.5 6.3	19.6 6.4	19.8 6.4	20.0 6.5	6.6
5	years	5.5	0.2	0.0	0.4	0.4	0.5	0.0
Leading causes of death (SDR per 100,000 population)(c)								
Males								
Malignant neoplasms (140–208)	rate	242	239	231	230	220	217	215
Ischaemic heart diseases (410–414)	rate	270	214	202	196	183	171	164
Cerebrovascular diseases (430–438)	rate	81	72	67	66	59	56	55
Chronic obstructive pulmonary disease and conditions (including asthma, emphysema								
bronchitis) (490–496)	rate	72	54	49	51	45	42	40
Accidents (E800–E949)	rate	47	35	35	36	33	35	38
	1410		00	00	00			-
Females Malignant papel (140, 208)	voto	1.11	120	120	120	135	121	100
Malignant neoplasms (140–208) Ischaemic heart diseases (410–414)	rate rate	141 145	139 118	138 110	139 106	101	131 93	129 89
Cerebrovascular diseases (430–438)	rate	74	62	60	58	53	51	50
Chronic obstructive pulmonary disease and	idio	1-7	02	00	30	33	31	30
conditions (including asthma, emphysema								
bronchitis) (490–496)	rate	26	24	22	24	22	21	20
Accidents (E800-E949)	rate	21	15	15	14	15	15	16
						• • • • • • •		
	INF	ANT DEAT	THS					
Total Infant deaths	no.	2 004	1 512	1 449	1 460	1 341	1 252	1 408
Males	no.	1 136	866	807	843	744	706	812
Females	no.	868	646	642	617	597	546	596
Infant mortality rates	rate	8.0	5.9	5.7	5.8	5.3	5.0	5.7
Males	rate	8.8	6.5	6.1	6.5	5.8	5.5	6.4
Females	rate	7.1	5.2	5.1	5.0	4.9	4.5	4.9
Age at death								
Males		0.45	222	0.40	242			
Under 1 day	no.	345	326	313	313	262	228	293
1 day and under I week 1 week and under 1 month	no. no.	183 125	153 107	118 103	133 100	132 91	132 114	148 112
1 month and under 1 month 1 month and under 1 year	no.	483	280	273	297	259	232	259
·	110.	100	200	210	201	200	202	200
Females								
Under 1 day	no.	266	238	241	244	239	198	233
1 day and under I week	no.	157	113	97	92	94	83	77
1 week and under 1 month 1 month and under 1 year	no.	103	71	85 210	82 100	81	87 179	90
•	no.	342	224	219	199	183	178	196

⁽a) See Glossary for definitions of terms used.

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⁽b) From 1995 onwards, life expectancy was calculated over the three years ending in the year in the table heading.

⁽c) 1999 data is on ICD10 refer to Explanatory Note 10.

3.3 DEATHS REGISTERED, By States and Territories

				•			• • • • • • •		•••••
	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust.(a)
• • • • • • • • • •	• • • • • • • • •	• • • • • • •		MALEC	• • • • • • •	• • • • • • •	• • • • • • •		• • • • • •
				MALES					
1979	21 361	15 990	9 384	5 323	4 595	1 810	373	421	59 257
1984	21 220	15 843	9 767	5 540	4 817	1 971	323	506	59 987
1989	24 170	17 079	11 360	6 094	5 271	1 914	501	537	66 926
1994	23 690	16 765	11 896	6 241	5 598	2 136	489	644	67 464
1995	23 612	16 960	11 112	5 879	5 617	1 952	521	593	66 251
1996	23 765	17 009	12 151	6 061	5 978	2 052	487	698	68 206
1997	23 746	17 122	11 915	6 029	5 774	1 966	535	663	67 752
1998	23 520	16 407	12 235	6 095	5 750	1 889	527	646	67 073
1999	23 782	16 433	12 180	5 840	5 843	1 954	509	682	67 227
• • • • • • • • • • •	• • • • • • • • •	• • • • • • •	• • • • • • •		• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • •
				FEMALES					
1979	17 548	13 128	6 979	4 337	3 421	1 390	206	302	47 311
1984	18 082	13 689	7 638	4 559	3 686	1 625	224	424	49 927
1989	20 890	15 300	9 085	5 254	4 272	1 776	286	443	57 306
1994	21 073	15 588	9 759	5 469	4 695	1 775	287	578	59 228
1995	21 161	15 465	9 551	5 339	4 747	1 802	292	521	58 882
1996	21 376	15 717	10 130	5 545	5 049	1 820	271	602	60 513
1997	21 895	16 139	10 030	5 629	5 033	1 843	356	671	61 598
1998	21 221	15 600	10 086	5 619	4 914	1 716	344	626	60 129
1999	21 433	15 485	10 669	5 451	5 034	1 829	323	649	60 875
• • • • • • • • • • •	• • • • • • • • •	• • • • • • •			• • • • • • •	• • • • • • •	• • • • • • •		• • • • • •
				PERSONS					
1979	38 909	29 118	16 363	9 660	8 016	3 200	579	723	106 568
1984	39 302	29 532	17 405	10 099	8 503	3 596	547	930	109 914
1989	45 060	32 379	20 445	11 348	9 543	3 690	787	980	124 232
1994	44 763	32 353	21 655	11 710	10 293	3 911	776	1 222	126 692
1995	44 773	32 425	20 663	11 218	10 364	3 754	813	1 114	125 133
1996	45 141	32 726	22 281	11 606	11 027	3 872	758	1 300	128 719
1997	45 641	33 261	21 945	11 658	10 807	3 809	891	1 334	129 350
1998	44 741	32 007	22 321	11 714	10 664	3 605	871	1 272	127 202
1999	45 215	31 918	22 849	11 291	10 877	3 783	832	1 331	128 102

⁽a) Includes Other Territories.

3.4 STANDARDISED DEATH RATES, By States and Territories

• • • • • • • • • • •		• • • • • •	• • • • • • •	• • • • • • •	• • • • • • •		• • • • • • •	• • • • • •	• • • • • •
	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust.(a)
• • • • • • • • • • •	• • • • • • • • • •	• • • • • •	• • • • • • •	MALES	• • • • • • •	• • • • • •	• • • • • • •	• • • • • •	• • • • • •
				WIALLS					
1979	11.4	11.4	11.2	10.9	11.0	11.8	16.3	10.4	11.3
1984	10.2	10.2	12.1	10.0	9.8	11.3	11.3	9.4	10.1
1989	10.1	9.6	9.9	9.7	8.9	9.8	12.8	8.0	9.8
1994	8.8	8.4	8.8	8.8	8.2	9.9	12.2	7.5	8.6
1995	8.5	8.3	7.9	8.1	7.9	8.9	11.6	6.8	8.2
1996	8.3	8.1	8.3	8.1	8.2	9.2	10.3	7.8	8.2
1997	8.0	7.9	7.8	7.8	7.7	8.6	11.5	7.1	7.9
1998	7.7	7.4	7.8	7.7	7.4	8.1	9.8	6.6	7.6
1999	7.6	7.1	7.5	7.2	7.3	8.2	9.6	6.5	7.4
• • • • • • • • • • • •	• • • • • • • • • •	• • • • • •			• • • • • • •	• • • • • •	• • • • • • •	• • • • • •	• • • • • •
			F	EMALES					
1979	6.7	6.6	6.6	6.3	6.5	6.8	11.8	5.6	6.6
1984	6.0	6.0	6.0	5.7	5.7	6.8	9.3	6.0	6.0
1989	6.0	5.9	5.9	5.7	5.4	6.6	9.0	5.1	5.9
1994	5.2	5.2	5.2	5.1	4.9	5.7	8.9	5.2	5.2
1995	5.1	5.0	4.9	4.9	4.8	5.7	8.2	4.4	5.0
1996	5.0	4.9	5.0	4.9	4.9	5.6	6.8	4.9	5.0
1997	5.0	4.9	4.8	4.8	4.7	5.5	8.2	5.1	4.9
1998	4.7	4.6	4.7	4.7	4.5	5.0	7.8	4.6	4.7
1999	4.6	4.5	4.8	4.4	4.4	5.2	7.7	4.5	4.6
• • • • • • • • • • • •	• • • • • • • • •	• • • • • •	• • • • • • •		• • • • • • •	• • • • • •	• • • • • • •		• • • • • •
			P	PERSONS					
1979	8.7	8.7	8.7	8.3	8.5	9.0	14.0	7.5	8.6
1984	7.6	7.6	7.6	7.4	7.4	8.6	10.1	7.3	7.6
1989	7.8	7.5	7.7	7.4	6.9	8.1	11.0	6.4	7.6
1994	6.8	6.6	6.8	6.7	6.4	7.6	10.5	6.3	6.7
1995	6.6	6.4	6.3	6.3	6.2	7.1	9.9	5.4	6.4
1996	6.4	6.3	6.5	6.3	6.4	7.1	8.6	6.1	6.4
1997	6.3	6.2	6.2	6.1	6.0	6.8	9.9	6.0	6.3
1998	6.0	5.8	6.1	6.0	5.8	6.3	8.9	5.4	6.0
1999	5.9	5.7	6.0	5.7	5.7	6.5	8.7	5.4	5.9

⁽a) Includes Other Territories

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3.5 LEADING CAUSES OF DEATH, 1999

	MALES	•••••		FEMALES				
Cause of death	no.	SDR(a)	Median age	no.	SDR(a) N	Median age		
		• • • • • •	• • • • • • •		• • • • • • •	• • • • •		
Chapter I Certain infectious and parasitic diseases (A00–B99)	842	9	74.4	761	6	81.0		
Chapter II Neoplasms (COO-D48)	20 283	219	73.0	15 573	132	73.9		
Malignant neoplasms (C00-C97)	19 866	215	72.9	15 187	129	73.6		
Digestive organs (C15–C26)	5 600	60	72.0	4 312	36	76.2		
Colon (C18)	1 771	19	72.4	1 557	13	76.6		
Trachea, bronchus and lung (C33, C34)	4 655	50	72.1	2 148	19	72.2		
Breast (C50)	22	_	_	2 505	22	66.3		
Female genital organs (C51–C58)				1 300	11	72.1		
Male genital organs (C60–C63)	2 546	29	78.6		• •	• •		
Prostate (C61)	2 499	28	78.8	4.500		70.0		
Lymphoid, haematopoietic and related tissue (C81–C96)	1 962	21	72.2	1 596	13	76.2		
Chapter IV Endocrine, nutritional and metabolic diseases (E00–E90)	2 001	22	74.1	2 099	16	80.2		
Diabetes mellitus (E10–E14)	1 485	16	75.0	1 462	11	80.1		
Chapter V Mental and behavioural disorders (F00–F99)	1 256	14	76.5	1 552	10	86.7		
Chapter VI Diseases of the nervous system (G00–G99)	1 818	20	76.3	2 072	15	82.4		
Alzheimer's disease (G30)	493	6	82.7	1 023	7	86.9		
Chapter IX Diseases of the circulatory system (IOO–I99)	24 824	277	78.0	26 479	183	84.8		
All heart diseases (105–109, 111, 113, 120–125, 126, 127, 130–152)	18 116	201	77.3	17 229	120	84.6		
Ischaemic heart diseases (I20–I25)	14 865	164	76.8	12 744	89	84.3		
Acute myocardial infarction (I21)	8 028	89	77.1	7 124	50	83.6		
Pulmonary heart disease and diseases of pulmonary circulation and other forms of heart disease (126–152)	2 955	33	79.7	3 896	26	85.9		
Heart failure (I50)	989	12	84.4	1 725	11	88.0		
Cerebrovascular diseases (I60–I69)	4 894	55	80.5	7 372	50	85.3		
Diseases of arteries, arterioles and capillaries (I70–I79)	1 476	17	78.9	1 388	10	84.8		
Chapter X Diseases of the respiratory system (J00–J99))	5 296	59	78.1	4 317	32	82.0		
Chronic lower respiratory diseases (J40–J47)	3 609	40	77.0	2 487	20	78.3		
Chapter XI Diseases of the digestive system (K00–K93)	2 111	23	72.7	2 110	16	82.2		
Diseases of liver (K70–K77)	863	9	61.1	380	3	66.1		
Chapter XIV Diseases of the genitourinary system (N00–N99)	1 232	14	82.5	1 536	11	84.5		
Chapter XVI Certain conditions originating in the perinatal period (POO–P96)	377	4	0.5	264	3	0.5		
Chapter XVII Congenital malformations, deformations and chromosomal abnormalities (Q00–Q99)	392	4	0.8	323	4	0.8		
Chapter XX External causes of morbidity and mortality (V01–Y98))	5 868	63	38.1	2 493	23	53.0		
Transport accidents (V01–V99)	1 441	16	32.8	570	6	37.2		
Falls (W00–W19)	309	3	71.1	211	2	82.3		
Accidental drowning and submersion (W65–W74)	203	2	30.5	75	1	33.5		
Intentional self-harm (X60–X84)	2 002	21	38.8	490	5	40.2		
All Causes	67 227	740	74.8	60 875	462	81.4		

⁽a) Deaths per 100,000 population.

[—] nil or rounded to zero (including null cells)

^{. .} not applicable.

3.6 PRINCIPAL CAUSES OF DEATH, Selected Years—Males

Cause of death	1989	1994	1995	1996	1997	1998					
Neoplasms (140–239)	17 350	19 553	19 425	19 889	19 571	19 861					
Malignant neoplasms (cancer) (140–208)	17 201	19 287	19 144	19 586	19 279	19 590					
Trachea, bronchus and lung (162)	4 666	4 810	4 696	4 773	4 605	4 821					
Prostate (185)	2 014	2 590	2 575	2 660	2 448	2 531					
Other (remainder 140–239)	149	266	281	303	292	271					
Diseases of the circulatory system (390–459)	28 376	27 031	26 261	26 550	25 717	24 746					
Ischaemic heart diseases (410–414)	18 132	16 515	16 133	16 092	15 565	15 024					
Other heart diseases (393–398, 402, 404, 415, 416, 420–429)	3 217	3 327	3 128	3 421	3 406	3 177					
Cerebrovascular diseases (stroke) (430–438)	5 057	5 260	5 108	5 205	4 879	4 812					
Other (remainder of 390–459)	1 970	1 929	1 892	1 832	1 867	1 733					
Diseases of the respiratory system (460–519) Chronic obstructive pulmonary disease and	6 366	5 791	5 407	5 733	6 960	6 593					
allied conditions (490–496)	4 711	4 132	3 884	4 147	3 830	3 628					
Diseases of the digestive system (520–579)	2 299	1 962	1 961	2 022	2 024	1 969					
Chronic liver disease and cirrhosis (571)	825	729	731	768	764	725					
Diseases of the genitourinary system (580–629)	842	977	947	1 001	1 090	1 117					
Congenital anomalies (740–759)	400	413	343	350	411	334					
Certain conditions originating in the perinatal period (760–779)	481	402	384	391	336	325					
All other diseases (remainder of 001–799)	5 109	6 246	6 369	6 836	6 250	6 514					
External causes (E800–E999)	5 703	5 089	5 154	5 434	5 393	5 614					
Motor vehicle traffic accidents (810–819)	2 000	1 370	1 398	1 399	1 240	1 224					
Accidental falls (880–888)	505	458	457	523	486	531					
Accidental drowning and submersion (910)	244	209	190	188	217	187					
All other accidents (remainder of 800–949)	987	926	930	1 057	989	1 221					
Suicide (950–959)	1 658	1 830	1 873	1 931	2 146	2 150					
Other (remainder of 800–999)	309	296	306	336	315	301					
Total	66 926	67 464	66 251	68 206	67 752	67 073					

3.7 PRINCIPAL CAUSES OF DEATH, Selected Years—Females

Cause of death 1989 Neoplasms (140–239) 13 074	1994 14 653 14 374	1995 ••••••••	1996	1997	1998										
Neoplasms (140–239) 13 074		14 943		• • • • • • •											
Neoplasms (140–239) 13 074		14 943													
	14 374		15 363	15 316	15 212										
Malignant neoplasms (cancer) (140–208) 12 943		14 662	15 085	15 037	14 970										
Trachea, bronchus and lung (162) 1 570	1 887	1 993	2 054	2 058	2 053										
Breast (174) 2 431	2 655	2 629	2 623	2 602	2 542										
Other (remainder 140–239)	279	281	278	279	242										
Diseases of the circulatory system (390–459) 28 453	27 858	27 146	27 440	26 924	26 051										
Ischaemic heart diseases (410–414) 14 507	14 061	13 480	13 545	13 486	12 801										
Other heart diseases (393–398, 402, 404,															
415, 416, 420–429) 4 405	4 353	4 270	4 446	4 350	4 253										
Cerebrovascular diseases (stroke) (430–438) 7 522	7 578	7 572	7 601	7 254	7 170										
Other (remainder of 390–459) 2 019	1 866	1 824	1 848	1 834	1 827										
Diseases of the respiratory system (460–519) 4 245	4 167	4 024	4 561	6 299	5 817										
Chronic obstructive pulmonary disease and															
allied conditions (490–496) 2 469	2 581	2 504	2 814	2 627	2 486										
Diseases of the digestive system (520–579) 1 945	1 897	1 910	1 871	1 928	1 968										
Chronic liver disease and cirrhosis (571) 284	319	286	305	287	293										
Diseases of the genitourinary system (580–629) 1 087	1 133	1 127	1 243	1 362	1 433										
Congenital anomalies (740–759) 373	341	335	301	349	271										
Certain conditions originating in the perinatal															
period (760–779) 372	293	291	309	284	252										
All other diseases (remainder of 001–799) 5 289	6 787	6 846	7 302	6 792	6 793										
External causes (E800–E999) 2 468	2 099	2 260	2 123	2 344	2 332										
Motor vehicle traffic accidents (810–819) 828	590	631	544	561	507										
Accidental falls (880–888) 609	545	538	579	639	651										
Accidental drowning and submersion (910) 70	41	69	59	59	58										
All other accidents (remainder of 800–949) 378	338	352	331	353	425										
Suicide (950–959) 438	428	495	462	577	533										
Other (remainder of 800–999)	157	175	148	155	158										
Total 57 306	59 228	58 882	60 513	61 598	60 129										

3.8 PRINCIPAL CAUSES OF DEATH, Selected Years—Standardised Death Rates: Males(a)

			• • • • • • •	• • • • • • • •		• • • • • •
Cause of death	1989	1994	1995	1996	1997	1998
	• • • • • • • • •		• • • • • • •	• • • • • • •		• • • • • •
Neoplasms (140–239)	245	243	235	234	223	221
Malignant neoplasms (cancer) (140-208)	242	239	232	230	220	218
Trachea, bronchus and lung (162)	64	59	56	55	52	53
Prostate (185)	32	35	33	33	29	29
Other (remainder 140–239)	2	4	4	4	4	3
Diseases of the circulatory system (390–459)	433	359	336	328	307	286
Ischaemic heart diseases (410–414)	270	215	203	196	184	172
Other heart diseases (393–398, 402, 404,						
415, 416, 420–429)	51	45	41	43	41	37
Cerebrovascular diseases (stroke) (430–438)	81	72	67	66	59	57
Other (remainder of 390–459)	31	26	24	23	23	20
Diseases of the respiratory system (460–519)	100	78	70	72	85	78
Chronic obstructive pulmonary disease and						
allied conditions (490–496)	72	54	49	51	45	42
Diseases of the digestive system (520–579)	34	25	24	24	23	22
Chronic liver disease and cirrhosis (571)	10	8	8	8	8	8
Diseases of the genitourinary system (580–629)	14	14	13	13	14	13
Congenital anomalies (740–759)	5	5	4	4	5	4
Certain conditions originating in the perinatal period (760–779)	6	5	4	4	4	4
	_		•		•	-
All other diseases (remainder of 001–799)	75	81	79	83	73	74
External causes (E800–E999)	71	59	59	61	60	61
Motor vehicle traffic accidents (810–819)	24	16	16	16	14	13
Accidental falls (880–888)	8	6	6	7	6	6
Accidental drowning and submersion (910)	3	2	2	2	2	2
All other accidents (remainder of 800–949)	12	11	10	12	11	13
Suicide (950–959)	20	21	21	21	23	23
Other (remainder of 800–999)	4	3	3	4	3	3
Total	981	867	824	824	794	764

(a) Deaths per 100,000 population

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3.9 PRINCIPAL CAUSES OF DEATH, Selected Years—Standardised Death Rates: Females(a)

Cause of death Neoplasms (140-239) Malignant neoplasms (cancer) (140–208) Trachea, bronchus and lung (162) Breast (174) Other (remainder 140–239) Diseases of the circulatory system (390–459) Ischaemic heart diseases (410–414) Other heart diseases (393-398, 402, 404, 415, 416, 420–429) Cerebrovascular diseases (stroke) (430-438) Other (remainder of 390–459) Diseases of the respiratory system (460–519) 4.3 Chronic obstructive pulmonary disease and allied conditions (490-496) Diseases of the digestive system (520-579) Chronic liver disease and cirrhosis (571) Diseases of the genitourinary system (580–629) Congenital anomalies (740–759) .3 .3 Certain conditions originating in the perinatal period (760–779) .3 .3 .3 All other diseases (remainder of 001–799) External causes (E800–E999) Motor vehicle traffic accidents (810–819) Accidental falls (880–888) Accidental drowning and submersion (910) All other accidents (remainder of 800–949) Suicide (950-959) Other (remainder of 800–999) Total

⁽a) Deaths per 100,000 population.

⁻ nil or rounded to zero (including null cells)

3.10 LEADING CAUSES OF DEATH, States and Territories—Males

					• • • • • •		• • • • •	• • • • •	
Cause of death	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust.(a)
			• • • • • •		• • • • • •		• • • • •		• • • • •
Chapter I Certain infectious and parasitic diseases (A00–B99)	352	204	122	67	55	18	13	11	842
Chapter II Neoplasms (COO-D48)	7 022	5 098	3 685	1 778	1 835	565	104	196	20 283
Malignant neoplasms (C00-C97)	6 853	4 996	3 620	1 743	1 803	554	101	196	19 866
Digestive organs (C15–C26)	1 887	1 509	969	485	503	164	29	54	5 600
Colon (C18)	638	462	323	142	131	47	7	21	1 771
Trachea, bronchus and lung (C33, C34)	1 608	1 126	878	405	445	130	29	34	4 655
Male genital organs (C60–C63)	843	693	454	250	203	78	4	21	2 546
Prostate (C61)	827	680	447	245	198	77	4	21	2 499
Lymphoid, haematopoietic and related tissue (C81–C96)	694	501	334	169	177	56	6	25	1 962
Chapter IV Endocrine, nutritional and metabolic									
diseases (E00–E90)	577	652	341	188	154	52	20	17	2 001
Diabetes mellitus (E10–E14)	418	499	249	140	116	35	15	13	1 485
Chapter V Mental and behavioural disorders (F00–F99)	515	276	175	112	116	33	15	14	1 256
Chapter VI Diseases of the nervous system (G00–G99)	641	480	300	123	192	48	13	21	1 818
Alzheimer's disease (G30)	195	108	87	17	74	9	3	_	493
Chapter IX Diseases of the circulatory system									
(100–199)	9 137	5 783	4 561	2 240	1 999	740	141	221	24 824
All heart diseases (I05–I09, I11, I13, I20–I25,	0 20.	0.00	. 001		1 000				2.02.
126, 127, 130–152)	6 616	4 232	3 372	1 633	1 459	516	118	169	18 116
Ischaemic heart diseases (I20-I25)	5 379	3 450	2 866	1 344	1 185	417	91	133	14 865
Acute myocardial infarction (I21)	2 836	1 867	1 628	737	633	227	29	71	8 028
Pulmonary heart disease and diseases of pulmonary circulation and other forms of									
heart disease (I26–I52)	1 127	710	460	255	250	96	22	34	2 955
Heart failure (I50)	384	240	135	90	85	42	_	11	989
Cerebrovascular diseases (I60–I69) Diseases of arteries, arterioles and capillaries	1 824	1 128	887	440	412	149	18	35	4 894
(170–179)	567	343	246	133	108	60	4	15	1 476
Chapter X Diseases of the respiratory system		0.0	2.0	100	100	00	·	10	
(J00–J99)	1 821	1 296	964	502	439	176	42	56	5 296
Chronic lower respiratory diseases (J40–J47)	1 245	909	697	267	302	126	27	36	3 609
Chapter XI Diseases of the digestive system									
(KOO-K93)	775	490	377	190	184	45	20	30	2 111
Diseases of liver (K70–K77)	335	207	130	82	64	15	11	19	863
Chapter XIV Diseases of the genitourinary system									
(NOO-N99)	442	334	203	99	90	37	15	12	1 232
Chapter XVI Certain conditions originating in the									
perinatal period (P00–P96)	139	87	61	21	32	16	13	8	377
Chapter XVII Congenital malformations, deformations and chromosomal abnormalities (000–099)	107	0.7	0.4	0.4	20	0	0	0	200
	127	97	84	24	36	8	8	8	392
Chapter XX External causes of morbidity and mortality (V01–Y98)	4 000	4 400	4.450		5 00	4=0			F 005
	1 936	1 423	1 153	416	590	172	96	80	5 868
Transport accidents (VO1–V99) Falls (WO0–W19)	441 127	338 63	270 61	114 15	177 25	56 6	31 3	13 9	1 441 309
Accidental drowning and submersion (W65–W74)	68	41	41	11	28	_	6	6	203
Intentional self-harm (X60–X84)	689	440	396	155	192	68	27	35	2 002
,									
All Causes	23 782	16 433	12 180	5 840	5 843	1 954	509	682	67 227

⁽a) Includes Other Territories.

[—] nil or rounded to zero (including null cells)

3.11 LEADING CAUSES OF DEATH, States and Territories—Females

				• • • • •	• • • • • •		• • • • •	• • • • •	• • • • •
Cause of death	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust.(a)
			• • • • • •				• • • • •	• • • • •	• • • • •
Chapter I Certain infectious and parasitic diseases (A00–B99)	293	192	126	71	39	24	11	5	761
Chapter II Neoplasms (COO-D48)	5 275	4 129	2 702	1 364	1 359	470	72	202	15 573
Malignant neoplasms (C00–C97)	5 141	4 020	2 628	1 329	1 336	460	72	201	15 187
Digestive organs (C15–C26)	1 434	1 186	697	398	386	141	12	58	4 312
Colon (C18)	508	443	266	137	133	45	6	19	1 557
Trachea, bronchus and lung (C33, C34)	735	553	388	178	207	55	10	22	2 148
Breast (C50)	811	684	428	197	240	86	26	33	2 505
Female genital organs (C51–C58)	434	328	240	118	121	34	10	15	1 300
Lymphoid, haematopoietic and related tissue (C81–C96)	552	440	250	157	116	45	6	30	1 596
Chapter IV Endocrine, nutritional and metabolic	0.15		0.50		470				
diseases (E00–E90)	615	633	359	211	176 120	67	24	14	2 099
Diabetes mellitus (E10–E14) Chapter V Mental and behavioural disorders	398	476	258	130	130	41	18	11	1 462
(F00-F99)	504	458	231	167	138	29	5	20	1 552
Chapter VI Diseases of the nervous system (G00–G99)	735	542	382	116	208	64	10	15	2 072
Alzheimer's disease (G30)	374	262	189	41	122	31	3	3	1 023
Chapter IX Diseases of the circulatory system									
(100–199)	9 764	6 423	4 740	2 380	2 060	761	84	265	26 479
All heart diseases (I05–I09, I11, I13, I20–I25,									
126, 127, 130–152)	6 322	4 192	3 116	1 556	1 323	500	55	164	17 229
Ischaemic heart diseases (I20–I25)	4 569	3 070	2 449	1 154	988	366	32	115	12 744
Acute myocardial infarction (I21)	2 528	1 726	1 370	717	525	178	14	66	7 124
Pulmonary heart disease and diseases of pulmonary circulation and other forms of									
heart disease (I26–I52)	1 522	958	590	352	295	118	18	43	3 896
Heart failure (I50)	683	478	225	149	125	45	7	13	1 725
Cerebrovascular diseases (I60–I69)	2 757	1 775	1 286	672	578	190	24	89	7 372
Diseases of arteries, arterioles and capillaries									
(170–179)	500	335	265	106	119	50	3	11	1 388
Chapter X Diseases of the respiratory system									
(J00–J99)	1 531	1 042	714	496	325	149	22	38	4 317
Chronic lower respiratory diseases (J40–J47)	940	603	429	202	184	92	14	23	2 487
Chapter XI Diseases of the digestive system									
(K00–K93)	695	534	373	195	199	72	17	25	2 110
Diseases of liver (K70–K77) Chapter XIV Diseases of the genitourinary system	125	92	72	32	32	14	8	5	380
(NOO–N99)	547	432	250	133	102	40	19	13	1 536
	541	702	250	100	102	40	13	13	1 330
Chapter XVI Certain conditions originating in the perinatal period (P00–P96)	99	70	46	11	21	8	4	5	264
Chapter XVII Congenital malformations, deformations	99	70	40	11	21	0	4	5	204
and chromosomal abnormalities (Q00–Q99)	102	79	64	23	27	12	9	7	323
Chapter XX External causes of morbidity and									
mortality (V01–Y98)	830	636	457	179	248	84	28	31	2 493
Transport accidents (V01–V99)	192	134	94	50	63	22	8	7	570
Falls (W00–W19)	81	38	41	12	29	9	_	3	211
Accidental drowning and submersion (W65–W74)	21	17	18	_	11	4	4	_	75
Intentional self-harm (X60–X84)	180	112	84	45	44	10	5	10	490
All Courses	04.4==	4= 4	40.0			4			00 0==
All Causes	21 433	15 485	10 669	5 451	5 034	1 829	323	649	60 875

⁽a) Includes Other Territories.

[—] nil or rounded to zero (including null cells)

3.12 LEADING CAUSES OF DEATH, States & Territories—Standardised Death Rates: Males(a)

			• • • • •	• • • • • •	• • • • •	• • • • • •	• • • • •	• • • • •	• • • • •
	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust.(b)
Cause of death	rate	rate	rate	rate	rate	rate	rate	rate	rate
						• • • • • •	• • • • •		
Chapter I Certain infectious and parasitic diseases (A00–B99)	11	9	7	8	7	7	25	8	9
Chapter II Neoplasms (C00–D48)	218	217	223	216	225	230	251	184	219
Malignant neoplasms (C00–C97)	213	213	219	211	221	225	238	184	215
Digestive organs (C15–C26)	58	64	58	59	61	67	77	50	60
Colon (C18) Trachea, bronchus and lung (C33, C34)	20 50	20 48	20 53	17 49	16 55	19 52	16 70	19 33	19 50
Male genital organs (C60–C63)	27	30	29	30	26	33	16	22	29
Prostate (C61)	27	30	29	30	26	32	16	22	28
Lymphoid, haematopoietic and related									
tissue (C81–C96)	21	21	20	21	21	23	11	22	21
Chapter IV Endocrine, nutritional and metabolic									
diseases (E00–E90)	18	28	20	23	19	22	39	17	22
Diabetes mellitus (E10–E14)	13	22	15	17	15	15	30	14	16
Chapter V Mental and behavioural disorders (F00–F99)	17	12	11	15	14	14	17	14	14
Chapter VI Diseases of the nervous system (G00–G99)	21	21	18	15 15	24	20	27	19	20
Alzheimer's disease (G30)	7	5	6	2	10	4	4	1	6
Chapter IX Diseases of the circulatory system									
(100–199)	293	252	285	273	258	309	322	229	277
All heart diseases (I05–I09, I11, I13, I20–I25,									
126, 127, 130–152)	211	184	210	199	186	215	253	172	201
Ischaemic heart diseases (I20–I25) Acute myocardial infarction (I21)	171 90	150 81	178 101	163 90	151 81	173 93	190 66	132 69	164 89
Pulmonary heart disease and diseases of	90	01	101	90	01	93	00	09	69
pulmonary circulation and other forms of									
heart disease (I26-I52)	37	31	29	32	32	41	56	38	33
Heart failure (I50)	13	11	9	11	12	18	5	13	12
Cerebrovascular diseases (I60–I69)	60	50	56	54	54	63	53	39	55
Diseases of arteries, arterioles and capillaries (I70–I79)	18	15	16	16	14	25	14	16	17
Chapter X Diseases of the respiratory system	10	10	10	10		20		10	
(J00–J99)	58	57	61	61	57	73	91	59	59
Chronic lower respiratory diseases (J40–J47)	40	40	44	32	39	52	58	39	40
Chapter XI Diseases of the digestive system									
(K00-K93)	24	21	23	23	23	19	41	26	23
Diseases of liver (K70–K77) Chapter XIV Diseases of the genitourinary system	10	8	7	10	7	6	15	13	9
(NOO-N99)	15	15	13	12	12	16	38	15	14
Chapter XVI Certain conditions originating in the			10				00	10	
perinatal period (P00–P96)	5	4	4	3	4	7	11	6	4
Chapter XVII Congenital malformations, deformations									
and chromosomal abnormalities (Q00–Q99)	4	5	5	4	4	4	7	6	4
Chapter XX External causes of morbidity and									
mortality (V01–Y98)	62	61	68	57	65	77	85	56	63
Transport accidents (V01–V99) Falls (W00–W19)	14	15	16	16	20	25	27	9	16
Accidental drowning and submersion (W65–W74)	4 2	3 2	4 2	2 1	3 3	2 1	2 5	8 4	3 2
Intentional self-harm (X60–X84)	22	19	23	21	21	30	24	23	21
. ,									
All Causes	756	712	748	720	727	817	962	647	740

⁽a) Deaths per 100,000 population.

⁽b) Includes Other Territories.

3.13 LEADING CAUSES OF DEATH, States & Territories—Standardised Death Rates: Females(a)

	• • • • • •	• • • • • •	• • • • •	• • • • • •	• • • • •	• • • • •	• • • • •	• • • • •	• • • • •
	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust.(b)
Cause of death	rate	rate	rate	rate	rate	rate	rate	rate	rate
	• • • • • •	• • • • • •	• • • • •	• • • • • •	• • • • •	• • • • •	• • • • •	• • • •	• • • • •
Chapter I Certain infectious and parasitic diseases (AOO–B99)	7	6	6	6	3	7	25	4	6
Chapter II Neoplasms (COO–D48) Malignant neoplasms (COO–C97)	129 126	136 132	133 130	127 124	132 130	151 148	177 177	144 143	132 129
Digestive organs (C15–C26) Colon (C18)	34 12	38 14	34 13	35 12	37 12	44 15	46 22	41 13	36 13
Trachea, bronchus and lung (C33, C34) Breast (C50)	19 21	19 24	20 21	17 20	21 23	18 28	32 45	17 23	19 22
Female genital organs (C51–C58)	11	11	12	11	12	11	22	12	11
Lymphoid, haematopoietic and related tissue (C81–C96)	13	14	12	15	11	14	14	21	13
Chapter IV Endocrine, nutritional and metabolic diseases (E00–E90)	14	19	16	17	16	20	64	10	16
Diabetes mellitus (E10–E14) Chapter V Mental and behavioural disorders	9	14	12	10	12	13	47	8	11
(F00–F99) Chapter VI Diseases of the nervous system (G00–G99)	10 16	11 15	9 17	12 11	11 17	7 18	14 23	14 10	10 15
Alzheimer's disease (G30)	7	6	7	3	9	7	4	2	7
Chapter IX Diseases of the circulatory system (100–199)	192	169	195	173	169	195	243	184	183
All heart diseases (105–109, 111, 113, 120–125, 126, 127, 130–152)	125	111	130	114	109	130	155	114	120
Ischaemic heart diseases (I20–I25) Acute myocardial infarction (I21)	91 51	82 47	102 58	84 52	82 44	95 47	89 40	80 46	89 50
Pulmonary heart disease and diseases of pulmonary circulation and other forms of board disease (126, 152)							=-		
heart disease (I26–I52) Heart failure (I50)	29 12	24 11	24 8	25 10	24 10	31 11	53 27	30 8	26 11
Cerebrovascular diseases (I60–I69) Diseases of arteries, arterioles and capillaries	53	46	52	48	47	48	74	61	50
(170–179)	10	9	11	8	10	12	8	8	10
Chapter X Diseases of the respiratory system (J00–J99)	33	29	32	38	28	41	64	27	32
Chronic lower respiratory diseases (J40–J47) Chapter XI Diseases of the digestive system	21	18	20	18	17	26	43	17	20
(KOO-K93)	15	15	16	16	17	20	29	17	16
Diseases of liver (K70–K77) Chapter XIV Diseases of the genitourinary system	3	3	4	3	3	5	9	4	3
(N00–N99) Chapter XVI Certain conditions originating in the	11	11	10	10	8	10	56	9	11
perinatal period (P00–P96) Chapter XVII Congenital malformations, deformations	4	4	3	2	3	4	4	4	3
and chromosomal abnormalities (Q00–Q99)	3	4	4	3	3	5	9	5	4
Chapter XX External causes of morbidity and mortality (V01–Y98)	22	23	23	20	25	30	33	19	23
Transport accidents (VO1–V99) Falls (WO0–W19)	6 2	5 1	5 2	6	7 3	10	8	5 1	6
Accidental drowning and submersion (W65–W74)	1	1	1	1	1	2 2	4	1	2 1
Intentional self-harm (X60–X84)	6	5	5	6	5	5	5	6	5
All Causes	464	451	475	442	444	521	772	453	462

⁽a) Deaths per 100,000 population.

⁽b) Includes Other Territories.

[—] nil or rounded to zero (including null cells)

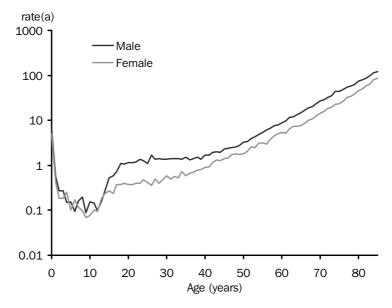
SECTION 4 DIFFERENTIALS IN MORTALITY

Mortality rates are not uniformly experienced throughout the life course. Differentials are evident by age, sex, marital status, country of birth and geographical region.

AGE AT DEATH

The median age at death in 1999 was 74.8 years for males and 81.4 years for females, an increase of 2.5 years and 2.7 years respectively on the median age at death in 1989. This reflects the ageing of the population, as well as an increase in the life expectancy of males and females over the period.

MALE AND FEMALE AGE-SPECIFIC DEATH RATES—1999



(a) Logarithmic scale

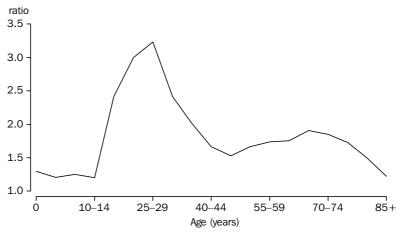
From the relatively high rates of death in infancy, age-specific death rates (ASDRs) sharply decline through childhood. The lowest death rates at any age were experienced by males and females aged 5–9 years, with an ASDR of 0.1 male deaths and 0.1 female deaths per 1,000 respective populations. While the ASDRs of children aged 10–14 years were slightly higher than at 5–9 years, the increase seen after age 15 years is far more dramatic. Males aged 15–19 years had an ASDR of 0.8 deaths per 1,000 male population — five times higher than the 10–14 years ASDR, while the female ASDR at ages 15–19 years (0.3 deaths per 1,000 females) was two times higher than the 10–14 years age group. The male ASDR increased a further 52% to age 20–24 years, and levelled off somewhat until after age 40 where it increased steadily throughout the rest of the life cycle. The ASDRs for females aged 15–29 years remained relatively constant. Steady increase in the female ASDR was seen after age 30 years which continued throughout the remaining age groups.

SEX

Male deaths (67,200) outnumbered female deaths (60,900) registered in 1999, giving a sex ratio of 110 male deaths for every 100 female deaths. This ratio has decreased from 117 male deaths per 100 female deaths in 1989. Since 1989, male deaths have increased by 0.4% while female deaths have increased by 6.2%, due to the change in the age composition of the population.

Overall in 1999, the male standardised death rate (SDR) of 7.4 deaths per 1,000 population was 60% higher than the female SDR (4.6 deaths per 1,000 population). The male age-specific death rates for all age groups were at least 20% higher than female death rates at the same age. The greatest difference in age-specific death rates occurred in the 20–24 year and 25–29 year age groups where male death rates were 3 times higher than the female death rates. Overall, male and female age-specific death rates in 1999 showed the greatest similarity at the beginning (up until the 10–14 years age group) and end of life.

RATIO OF MALE TO FEMALE AGE-SPECIFIC DEATH RATES-1999



CAUSE OF DEATH BY AGE AND SEX

Certain conditions originating in the perinatal period were the leading cause of death among infants and were responsible for 45% of all infant deaths¹. The leading cause of death for males aged 1–4 years was accidental drowning (23%). In contrast, the leading cause of death for females in this age group was transport accidents (excluding water, air and space accidents) (19%). The leading causes of death for both males and females in the 5–14 years age group were transport accidents (excluding water, air and space accidents) and malignant neoplasms. These two causes were responsible for 45% of male and female deaths in the 5–14 years age group.

Transport accidents (excluding water, air and space accidents) were the leading cause of death for 15–19 year olds, contributing over one-third of male deaths and one-quarter of female deaths. Intentional self-harm was the second most common cause of death among 15–19 year olds with 18% of male and 13% of female deaths in this age group.

Intentional self-harm was the leading cause of male deaths throughout the 20–39 years age group, causing just under one-quarter of all deaths. Transport accidents (excluding water, air and space accidents) were the second most common cause and contributed around 15% of deaths.

For further information on infant deaths see Section 5 Infant Deaths.

CAUSE OF DEATH BY AGE AND SEX continued

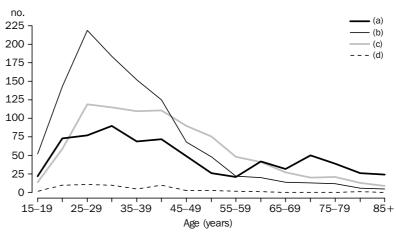
For females aged 20–24 years, the leading causes of death were transport accidents (excluding water, air and space accidents) (21%) and intentional self-harm (16%), while for those aged 25–29 years, malignant neoplasms and intentional self-harm contributed 18% and 17% of deaths respectively. Malignant neoplasms remained the dominant cause of death among women until age 80 years and beyond, when ischaemic heart disease was more common. Malignant neoplasms also dominated male deaths in the 40–79 years age group, with ischaemic heart disease being the leading cause from age 80 years.

Drug related deaths1

In 1999, 2,000 male deaths and 690 female deaths were drug related. The majority of these deaths occurred in the 20–49 years age group (75% of male drug related deaths and 67% of female drug related deaths). Of all drug related deaths 40% were attributable to accidental poisoning by and exposure to noxious substances , 32% to intentional self-poisoning by and exposure to noxious substances and 26% to mental and behavioural disorders due to psychoactive substance use.

Drug related deaths contributed one-quarter of all male and female deaths in the 20–24 years age group. A large proportion of these deaths were due to accidental poisoning by and exposure to noxious substances (51% of male drug related deaths and 46% of female drug related deaths). One-third of all male deaths and around one-quarter of all female deaths for those aged 25–34 years old were drug related. Again, a large proportion of these deaths were due to accidental poisoning by and exposure to noxious substances (50% of male drug related deaths and 45% of female drug related deaths).

COMPONENTS OF DRUG RELATED DEATHS, by age-1999



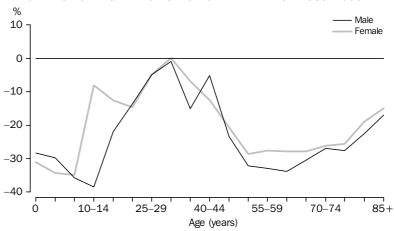
- (a) Mental and behavioural disorders due to psychoactive substance use (F10-F19)
- (b) Accidental poisoning by and exposure to noxious substances (X40–X49)
- (c) Intentional self-poisoning by and exposure to noxious substances (X60–X69)
- (d) Poisoning by and exposure to noxious substances-intent undetermined (Y10-Y19)

The ICD-10 codes deaths involving drugs across several sections of the classification. For this reason a separate analysis has been conducted for drug related deaths. In this analysis drug related deaths refer to deaths caused by mental and behavioural disorders due to psychoactive substance use (F10–F19), accidental poisoning by and exposure to noxious substances (X40–X49), intentional self-poisoning and exposure to noxious substances (X60–X69), and poisoning by and exposure to noxious substances—intent undetermined (Y10–Y19).

DECLINES IN DEATH RATES

Between 1989 and 1999, the risk of dying has declined for people of almost all age groups. Since 1989, the infant mortality rate declined by 28% for males and 31% for females. The largest declines in male ASDRs occurred in the 10–14 years age group (38%), the 5–9 years age group (36%) and the 60–64 years age group (34%). Furthermore, no male ASDRs increased over this period. Female ASDRs declined substantially in the age groups of 5–9 years (35%), 1–4 years (34%) and 50–54 years (29%). However, the female ASDR for the 30–34 years age group did not decline (increasing by 0.1%).

PERCENTAGE CHANGE IN AGE-SPECIFIC DEATH RATES—1989-1999

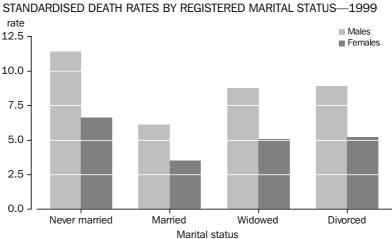


Although male ASDRs and SDRs have always been higher than females', in the last 20 years or so the gap has narrowed as males (mainly over 45 years) have experienced considerable declines in deaths from circulatory diseases. In 1979 males had an SDR of 11.3 deaths per 1,000 standard population, almost five deaths higher than the female SDR of 6.6 deaths per 1,000 standard population. By 1999, the male SDR was 7.4 deaths per 1,000 standard population, around three deaths higher than the female rate of 4.6 deaths per 1,000 standard population. Over the same period the difference in male and female life expectancy at birth also narrowed, from 7 years in 1979 (life expectancy of 70.9 years for males and 77.9 years for females) to 5.6 years in 1999 (life expectancy of 76.2 years for males and 81.8 years for females).

MARITAL STATUS

Of all men whose deaths were registered during 1999, 56% were married at the time of death, while 19% were widowed and 16% had never married. In contrast, of all women whose deaths were registered during 1999, 57% were widows at the time of death, with a further 27% being married and 10% never married. This difference is a consequence of the greater longevity of women.

SDRs by sex and marital status for 1999 indicate that males and females who had never married had death rates almost twice the death rates of their married counterparts. Both men and women who were widowed had slightly lower death rates than those who were divorced.



The difference in ASDRs between never married and married males was highest in the 35-44 year and 25-34 year age groups (4.0 and 3.3 times higher respectively). Among females the greatest differences in ASDRs between never married and married females occurred in the 25-34, 35-44 and 55-64 year age groups (2.6 times higher each).

There are substantial differences in the ASDR by marital status for some causes of death. For example, the ASDR for drug-related deaths of never married males aged 25-34 years was seven times higher than that of married males of the same age. Similarly, for females aged 35-44 years, the ASDR due to intentional self-harm was four times higher for never married females than for married females.

The fact that married people have lower mortality than unmarried people has been observed in many studies over time and in different countries (Lillard & Panis 1996). The reasons for this have been debated for over 100 years (Farr 1858). Two main explanations have been put forward. The first suggests that marriage improves a person's health status, thus reducing the risk of death. Married people are less likely to participate in risky behaviour and more likely to nurture each other's health through promoting good diet and physical care. The second states that differentials are based on selection of healthier individuals into marriage. Particularly in a country like Australia, where marriage is far from universal, selectivity is likely to be an important factor.

AGE-SPECIFIC DEATH RATES(a), By Registered Marital Status-Selected causes of death:

AGE AND MARITAL STATUS AT

	25–34 yea	ars	35–44 ye	ars	45–54 yea	ars	55–64 year	s
	Never		Never		Never		Never	
Cause of death	married	Married	married	Married	married	Married	married	Married
• • • • • • • • • • • • • • • • • • • •		1ALES	• • • • • •	• • • • • •	• • • • • •	• • • • •	• • • • • • •	• • • • •
Malignant neoplasms (C00–C97)	10	10	44	24	135	98	609	329
Ischaemic heart diseases (I20–I25)	4	3	32	11	134	46	498	147
Cerebrovascular diseases (I60–I69)	1	1	6	2	19	7	81	27
Chronic lower respiratory diseases (J40–J47)	1	_	1	1	15	2	101	22
Transport accidents, excluding water, air and space								
accidents (V01–V89)	26	11	21	8	15	7	19	9
Intentional self-harm (X60–X84)	48	14	58	18	61	16	47	14
Drug related deaths (F10–F19, X40–X49,								
X60–X69, Y10–Y19)(b)	68	10	94	11	62	9	43	9
Total	189	57	344	87	703	228	1 884	681
	FE	MALES			• • • • • •	• • • • •		
Malignant neoplasms (C00-C97)	9	10	46	35	177	101	492	247
Ischaemic heart diseases (I20–I25)	1	_	8	2	28	8	158	44
Cerebrovascular diseases (I60–I69)	1	1	7	2	14	6	69	22
Chronic lower respiratory diseases (J40–J47)	1	1	3	_	10	4	50	16
Transport accidents, excluding water, air and space								
accidents (V01–V89)	7	3	8	2	14	3	6	6
Intentional self-harm (X60–X84)	14	3	14	4	19	5	9	3
Drug related deaths (F10-F19, X40-X49,								
X60–X69, Y10–Y19)(b)	21	4	27	5	22	4	13	4
Total	71	27	169	66	402	161	1 103	422

⁽a) Per 100,000 male or female estimated resident population by marital status, June 1999 revised.

COUNTRY OF BIRTH

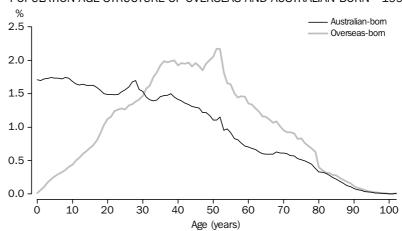
Australia's overseas-born population accounted for 28% of deaths registered in 1999 despite making up only 23% of the resident population. The main reason for this is that the overseas-born population has an older age structure than the Australian-born population. The median age of the overseas-born population in 1999 was 45.1 years compared to 30.7 years for the Australian-born population.

⁽b) Drug related deaths include behavioural disorders due to psychoactive substance use, accidental poisoning by and exposure to noxious substances, intentional self-poisoning and exposure to noxious substances (a part of the intentional self-harm category) and poisoning by and exposure to noxious substances—intent unknown.

[—] nil or rounded to zero (including null cells)

COUNTRY OF BIRTH continued

POPULATION AGE STRUCTURE OF OVERSEAS AND AUSTRALIAN-BORN-1999



Adjusting for the older age structure of the overseas born population, it is apparent that migrants generally have lower death rates than the Australian-born population. This is true for nearly all migrant groups. The lowest death rates were among the Asian-born population.

Largest birthplace groups

Of the largest birthplace groups, Vietnamese-born residents had the lowest indirect standardised death rate (ISDR) in 1999, almost half (47% less) that of the total population. Philippino-born residents had an ISDR that was 46% less than the Australian total, while Chinese-born and Malaysian-born residents had ISDRs 43% and 38% below the national level. The lower ISDRs of these Asian born populations were reflected in all leading causes of death.

The European countries of birth with the lowest ISDRs were Greece (25% less than the total Australian rate) and Italy (16% less). Both South African-born residents and Indian-born residents had an ISDR 25% lower than the national rate.

These results support the view that migrants are, and have always been, a select group. Firstly, good health is one criteria on which Australian migrants are assessed. Secondly, migrants themselves have undertaken to move to another country, suggesting that they feel fit enough to cope with such a challenging change.

Residents born in English-speaking countries generally had death rates closer to the Australian level. The Australian-born population had a death rate 3% higher than the national death rate, while those born in the United Kingdom and New Zealand were 6% and 0.4% below the national rate respectively.

LARGEST BIRTHPLACE GROUPS, Indirect Standardised Death Rates(a)

LEADING CAUSES OF

				Chronic			
		Ischaemic		lower			
	Malignant	heart	Cerebrovascular	respiratory			Total
	neoplasms	diseases	diseases	diseases	Accidents	Total	deaths
Birthplace	rate	rate	rate	rate	rate	rate	no.
•••••			• • • • • • • • • • •		• • • • • • • •		
Australia	188	150	67	35	29	695	91 775
China	124	67	46	18	13	387	714
Germany	193	152	66	25	33	684	1 366
Greece	150	106	52	15	15	510	1 199
India	109	137	42	28	12	506	520
Italy	158	117	48	17	27	570	3 305
Lebanon	127	202	71	10	16	651	344
Malaysia	135	105	49	7	14	421	160
Netherlands	212	138	55	25	31	671	1 246
New Zealand	175	139	72	30	38	673	1 489
Philippines	107	75	37	15	13	368	206
South Africa	153	122	43	21	17	504	283
United Kingdom	189	132	55	33	24	636	14 132
Viet Nam	117	30	53	12	19	357	310
Total Australia	185	146	65	32	28	676	128 102

⁽a) Per 100,000 population. Standardised using age-specific death rates for the 1999 Australian population.

GEOGRAPHICAL DIFFERENCES IN MORTALITY

Remoteness has been associated with health disadvantage and higher mortality rates through a number of factors including the isolation and distance to services, lack of health services, socioeconomic disparities, higher risk of accidents and Indigenous health needs (AIHW, 1998).

A number of attempts have been made to recognise and determine zones of remoteness in Australia. One is based on an index of accessibility developed by researchers at the University of Adelaide. The index, known as the Accessibility/Remoteness Index of Australia (ARIA) measures remoteness in terms of access along road networks to service centres (a hierarchy of urban centres with populations of 5,000 or more as at the 1996 Census). Populated localities¹ (places where people live) that are more remote have less access to these service centres while those that are less remote have greater access. The ARIA scores for the populated localities were interpolated on to a 1 kilometre grid for Australia and grouped into five categories; highly accessible, accessible, moderately accessible, remote, and very remote (DHAC, 1999).

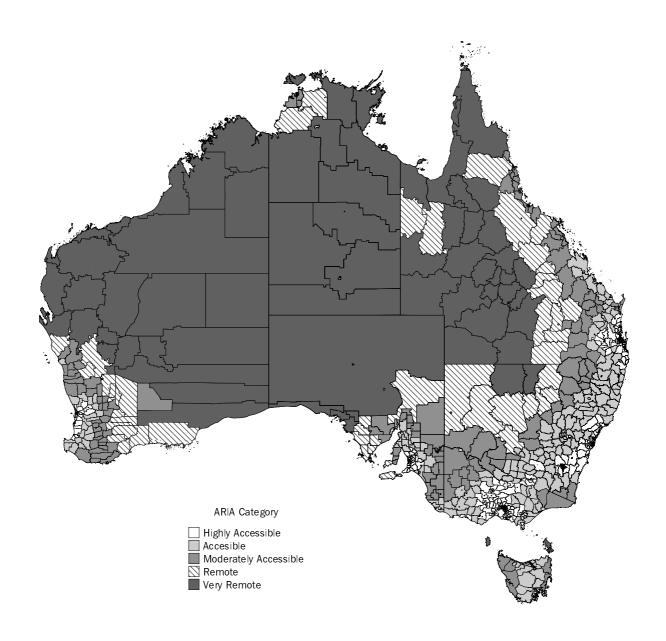
Each Statistical Local Area (SLA) has been allocated an ARIA category which is an average of all the 1 kilometre grid cells within the SLA. SLAs with the same ARIA category have been grouped together at the State and national level. The mortality differential between ARIA categories is represented by the indirect standardised death rate (ISDR) calculated from deaths registered in Australia in 1998².

^{11,340} point locations across Australia as defined by the Australian Surveying and Land Information Group.

² Data presented in this analysis has been coded to 1996 SLA boundaries for consistency.

GEOGRAPHICAL DIFFERENCES IN MORTALITY continued

ARIA CATEGORIES, by Statistical local areas

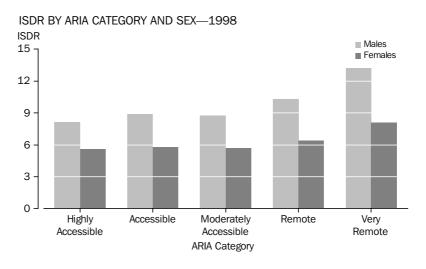


GEOGRAPHICAL DIFFERENCES IN MORTALITY continued

Because the ARIA category for each SLA is an average score, the larger the SLA (in geographical size) the greater will be the variance of its ARIA score. Defining remoteness regions by whole SLAs means that a considerable part of the SLA could be much less or much more remote than the average score. Therefore, the results of this analysis should be interpreted with caution.

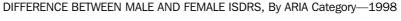
Male and female mortality

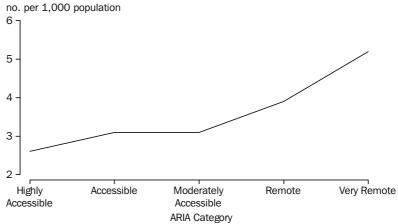
Both male and female ISDRs increased with the level of remoteness. The male ISDR for the highly accessible category was lower than the national rate; 8.1 compared to 8.3 deaths per 1,000 population. The ISDR for females in the highly accessible category was the same as the national rate of 5.6 deaths per 1,000 population. All other ARIA categories had higher ISDRs than the national rate, ranging from 8.8 (moderately accessible) to 13.2 (very remote) deaths per 1,000 population for males and from 5.7 (moderately accessible) to 8.1 (very remote) deaths per 1,000 population for females.



Overall male ISDRs were higher than female ISDRs and this difference increased with the level of remoteness. At the national level, the difference between male and female ISDRs was 2.7 deaths per 1,000 population. For the highly accessible category the difference between male and female ISDRs was lower (2.6 deaths per 1,000 population). All other ARIA categories had a difference greater than at the national level, ranging from 3.1 (deaths per 1,000 population) for the moderately accessible category to 5.2 (deaths per 1,000 population) for the very remote category.

Male and female mortality continued

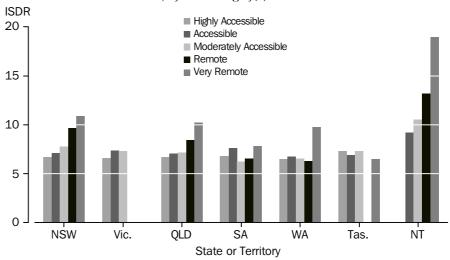




State and Territory differences in mortality

Overall the Northern Territory had the highest ISDRs across all ARIA categories, apart from the highly accessible category¹. Tasmania had the highest ISDR for the highly accessible category (7.3 deaths per 1,000 population), while Western Australia had the lowest ISDR for this category (6.5 deaths per 1,000 population). The ISDRs for the accessible category ranged from 6.7 deaths per 1,000 population for Western Australia to 9.2 deaths per 1,000 population for the Northern Territory. South Australia had the lowest ISDR (6.3 deaths per 1,000 population) for the moderately accessible category, while 10.5 deaths per 1,000 population (Northern Territory) was the highest. Western Australian had the lowest ISDR of 6.3 deaths per 1,000 population for the remote category, while the Northern Territory had the highest (13.2 deaths per 1,000 population). The very remote category had the largest ISDR range of all the ARIA categories; 6.5 (Tasmania) to 19.0 (Northern Territory) deaths per 1,000 population.

ISDR BY STATE OR TERRITORY, by ARIA category(a)—1998



(a) Not all States and Territories contain all ARIA categories within their boundaries (refer to map on page 42 of this Section).

The Northern Territory does not contain a highly accessible category within the Territory's bounds.

4.1 DEATHS, by Age and Sex—Selected Years

Age group (years)	1979	1984	1989	1994	1995	1996	1997	1998	1999
• • • • • • • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • • •	MALES	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •
0	4 444	4.050	4.400	000	007	0.40	744	700	040
0	1 441	1 258	1 136	866	807	843	744	706	812
1–4	299	275	226	201	206	205	206	199	164
5–9	206	133	138	112	112	115	99	102	95
10–14	227	223	172	144	130	147	133	126	112
15–19	876	629	742	533	492	541	572	506	547
20–24	1 068	1 003	953	842	916	866	857	870	841
25–29	839	736	1 047	831	849	876	938	992	1 027
30–34	765	809	956	968	1 046	1 019	950	1 067	976
35–39	818	827	1 085	1 096	1 157	1 125	1 078	1 137	1 066
40–44	1 115	1 119	1 201	1 294	1 262	1 324	1 321	1 311	1 302
45–49	1 925	1 488	1 576	1 757	1 738	1 757	1 718	1 628	1 664
50–54	3 300	2 497	2 333	2 202	2 212	2 281	2 416	2 354	2 386
55–59	4 757	4 412	3 682	3 151	3 083	3 051	3 044	3 054	3 102
60–64	5 890	6 150	6 070	4 958	4 712	4 636	4 581	4 351	4 166
65–69	8 051	7 290	8 366	7 911	7 531	7 349	7 078	6 677	6 305
70–74	8 686	9 418	9 581	10 091	9 952	9 987	9 818	9 590	9 573
75–79	7 997	8 915	10 878	10 517	9 949	10 474	10 583	10 754	11 167
80–84	5 551	6 878	8 786	10 028	10 068	10 664	10 476	10 221	9 809
85–89	3 647	3 735	5 386	6 529	6 701	7 089	7 193	7 357	7 806
90–94	1 475	1 702	1 988	2 713	2 669	3 035	3 100	3 235	3 425
95–99	277	432	539	617	575	718	735	758	786
100 and over						90		71	
Not stated	28 19	43 15	81 4	96 7	80 4	90 14	105 7	7 7	87 9
Not stated	19	13	4	,	4	14	,	,	9
Total	59 257	59 987	66 926	67 464	66 251	68 206	67 752	67 073	67 227
Total	59 257	59 987	66 926	67 464	66 251	68 206	67 752	67 073	67 227
Total	59 257	59 987	66 926	67 464 FEMALES	66 251	68 206	67 752	67 073	67 227
	• • • • • • • •		• • • • • • • •	FEMALES				• • • • • • •	• • • • • •
0	1 093	904	868	FEMALES 646	642	617	597	546	596
0 1–4	1 093 242	904 181	868 191	FEMALES 646 160	642 151	617 146	597 121	546 148	596 129
0 1–4 5–9	1 093 242 157	904 181 104	868 191 103	FEMALES 646 160 84	642 151 93	617 146 73	597 121 86	546 148 61	596 129 72
0 1-4 5-9 10-14	1 093 242 157 104	904 181 104 118	868 191 103 91	FEMALES 646 160 84 104	642 151 93 113	617 146 73 106	597 121 86 81	546 148 61 87	596 129 72 89
0 1-4 5-9 10-14 15-19	1 093 242 157 104 301	904 181 104 118 251	868 191 103 91 262	FEMALES 646 160 84 104 187	642 151 93 113 214	617 146 73 106 184	597 121 86 81 221	546 148 61 87 237	596 129 72 89 215
0 1-4 5-9 10-14 15-19 20-24	1 093 242 157 104 301 348	904 181 104 118 251 315	868 191 103 91 262 313	646 160 84 104 187 255	642 151 93 113 214 293	617 146 73 106 184 228	597 121 86 81 221 284	546 148 61 87 237 258	596 129 72 89 215 269
0 1-4 5-9 10-14 15-19 20-24 25-29	1 093 242 157 104 301 348 314	904 181 104 118 251 315 306	868 191 103 91 262 313 319	646 160 84 104 187 255 276	642 151 93 113 214 293 289	617 146 73 106 184 228 296	597 121 86 81 221 284 320	546 148 61 87 237 258 308	596 129 72 89 215 269 315
0 1-4 5-9 10-14 15-19 20-24 25-29 30-34	1 093 242 157 104 301 348 314 359	904 181 104 118 251 315 306 337	868 191 103 91 262 313 319 389	646 160 84 104 187 255 276 352	642 151 93 113 214 293 289 414	617 146 73 106 184 228 296 364	597 121 86 81 221 284 320 431	546 148 61 87 237 258 308 374	596 129 72 89 215 269 315 406
0 1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39	1 093 242 157 104 301 348 314	904 181 104 118 251 315 306	868 191 103 91 262 313 319	646 160 84 104 187 255 276	642 151 93 113 214 293 289	617 146 73 106 184 228 296	597 121 86 81 221 284 320	546 148 61 87 237 258 308	596 129 72 89 215 269 315
0 1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-44	1 093 242 157 104 301 348 314 359 427 623	904 181 104 118 251 315 306 337 504 617	868 191 103 91 262 313 319 389 488 754	646 160 84 104 187 255 276 352 534 740	642 151 93 113 214 293 289 414 494 729	617 146 73 106 184 228 296 364 556	597 121 86 81 221 284 320 431 553 746	546 148 61 87 237 258 308 374 574	596 129 72 89 215 269 315 406 531 787
0 1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-44 45-49	1 093 242 157 104 301 348 314 359 427 623 981	904 181 104 118 251 315 306 337 504 617 847	868 191 103 91 262 313 319 389 488 754 940	646 160 84 104 187 255 276 352 534 740 1 056	642 151 93 113 214 293 289 414 494 729 1 030	617 146 73 106 184 228 296 364 556 713 1 059	597 121 86 81 221 284 320 431 553 746 1 072	546 148 61 87 237 258 308 374 574 760 1 059	596 129 72 89 215 269 315 406 531 787 1 085
0 1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54	1 093 242 157 104 301 348 314 359 427 623 981 1 609	904 181 104 118 251 315 306 337 504 617 847 1 360	868 191 103 91 262 313 319 389 488 754 940 1 281	646 160 84 104 187 255 276 352 534 740 1 056 1 272	642 151 93 113 214 293 289 414 494 729 1 030 1 334	617 146 73 106 184 228 296 364 556 713 1 059 1 380	597 121 86 81 221 284 320 431 553 746 1 072 1 457	546 148 61 87 237 258 308 374 574 760 1 059 1 507	596 129 72 89 215 269 315 406 531 787 1 085 1 390
0 1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-44 45-49	1 093 242 157 104 301 348 314 359 427 623 981	904 181 104 118 251 315 306 337 504 617 847	868 191 103 91 262 313 319 389 488 754 940	646 160 84 104 187 255 276 352 534 740 1 056	642 151 93 113 214 293 289 414 494 729 1 030	617 146 73 106 184 228 296 364 556 713 1 059	597 121 86 81 221 284 320 431 553 746 1 072	546 148 61 87 237 258 308 374 574 760 1 059	596 129 72 89 215 269 315 406 531 787 1 085
0 1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54	1 093 242 157 104 301 348 314 359 427 623 981 1 609	904 181 104 118 251 315 306 337 504 617 847 1 360	868 191 103 91 262 313 319 389 488 754 940 1 281	646 160 84 104 187 255 276 352 534 740 1 056 1 272	642 151 93 113 214 293 289 414 494 729 1 030 1 334	617 146 73 106 184 228 296 364 556 713 1 059 1 380	597 121 86 81 221 284 320 431 553 746 1 072 1 457	546 148 61 87 237 258 308 374 574 760 1 059 1 507	596 129 72 89 215 269 315 406 531 787 1 085 1 390
0 1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 55-59	1 093 242 157 104 301 348 314 359 427 623 981 1 609 2 348	904 181 104 118 251 315 306 337 504 617 847 1 360 2 092	868 191 103 91 262 313 319 389 488 754 940 1 281 1 912	FEMALES 646 160 84 104 187 255 276 352 534 740 1 056 1 272 1 770	642 151 93 113 214 293 289 414 494 729 1 030 1 334 1 728	617 146 73 106 184 228 296 364 556 713 1 059 1 380 1 823	597 121 86 81 221 284 320 431 553 746 1 072 1 457 1 813	546 148 61 87 237 258 308 374 574 760 1 059 1 507 1 715	596 129 72 89 215 269 315 406 531 787 1 085 1 390 1 727
0 1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 55-59 60-64 65-69 70-74	1 093 242 157 104 301 348 314 359 427 623 981 1 609 2 348 3 133	904 181 104 118 251 315 306 337 504 617 847 1 360 2 092 3 290 4 336 6 210	868 191 103 91 262 313 319 389 488 754 940 1 281 1 912 3 222 4 716 6 425	FEMALES 646 160 84 104 187 255 276 352 534 740 1 056 1 272 1 770 2 622	642 151 93 113 214 293 289 414 494 729 1 030 1 334 1 728 2 540 4 227 6 357	617 146 73 106 184 228 296 364 556 713 1 059 1 380 1 823 2 518	597 121 86 81 221 284 320 431 553 746 1 072 1 457 1 813 2 484	546 148 61 87 237 258 308 374 574 760 1 059 1 507 1 715 2 420	596 129 72 89 215 269 315 406 531 787 1 085 1 390 1 727 2 377
0 1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 55-59 60-64 65-69	1 093 242 157 104 301 348 314 359 427 623 981 1 609 2 348 3 133 4 409	904 181 104 118 251 315 306 337 504 617 847 1 360 2 092 3 290 4 336	868 191 103 91 262 313 319 389 488 754 940 1 281 1 912 3 222 4 716	FEMALES 646 160 84 104 187 255 276 352 534 740 1 056 1 272 1 770 2 622 4 389	642 151 93 113 214 293 289 414 494 729 1 030 1 334 1 728 2 540 4 227	617 146 73 106 184 228 296 364 556 713 1 059 1 380 1 823 2 518 4 024	597 121 86 81 221 284 320 431 553 746 1 072 1 457 1 813 2 484 3 990	546 148 61 87 237 258 308 374 574 760 1 059 1 507 1 715 2 420 3 633	596 129 72 89 215 269 315 406 531 787 1 085 1 390 1 727 2 377 3 440
0 1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 55-59 60-64 65-69 70-74	1 093 242 157 104 301 348 314 359 427 623 981 1 609 2 348 3 133 4 409 5 509	904 181 104 118 251 315 306 337 504 617 847 1 360 2 092 3 290 4 336 6 210	868 191 103 91 262 313 319 389 488 754 940 1 281 1 912 3 222 4 716 6 425	FEMALES 646 160 84 104 187 255 276 352 534 740 1 056 1 272 1 770 2 622 4 389 6 480	642 151 93 113 214 293 289 414 494 729 1 030 1 334 1 728 2 540 4 227 6 357	617 146 73 106 184 228 296 364 556 713 1 059 1 380 1 823 2 518 4 024 6 301	597 121 86 81 221 284 320 431 553 746 1 072 1 457 1 813 2 484 3 990 6 294	546 148 61 87 237 258 308 374 574 760 1 059 1 507 1 715 2 420 3 633 5 994	596 129 72 89 215 269 315 406 531 787 1 085 1 390 1 727 2 377 3 440 5 879
0 1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 55-59 60-64 65-69 70-74 75-79	1 093 242 157 104 301 348 314 359 427 623 981 1 609 2 348 3 133 4 409 5 509 6 766	904 181 104 118 251 315 306 337 504 617 847 1 360 2 092 3 290 4 336 6 210 7 183	868 191 103 91 262 313 319 389 488 754 940 1 281 1 912 3 222 4 716 6 425 8 767	FEMALES 646 160 84 104 187 255 276 352 534 740 1 056 1 272 1 770 2 622 4 389 6 480 8 358	642 151 93 113 214 293 289 414 494 729 1 030 1 334 1 728 2 540 4 227 6 357 8 214	617 146 73 106 184 228 296 364 556 713 1 059 1 380 1 823 2 518 4 024 6 301 8 480	597 121 86 81 221 284 320 431 553 746 1 072 1 457 1 813 2 484 3 990 6 294 8 304	546 148 61 87 237 258 308 374 574 760 1 059 1 507 1 715 2 420 3 633 5 994 8 427	596 129 72 89 215 269 315 406 531 787 1 085 1 390 1 727 2 377 3 440 5 879 8 567
0 1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 55-59 60-64 65-69 70-74 75-79 80-84	1 093 242 157 104 301 348 314 359 427 623 981 1 609 2 348 3 133 4 409 5 509 6 766 7 461	904 181 104 118 251 315 306 337 504 617 847 1 360 2 092 3 290 4 336 6 210 7 183 8 268	868 191 103 91 262 313 319 389 488 754 940 1 281 1 912 3 222 4 716 6 425 8 767 9 758	FEMALES 646 160 84 104 187 255 276 352 534 740 1 056 1 272 1 770 2 622 4 389 6 480 8 358 10 922	642 151 93 113 214 293 289 414 494 729 1 030 1 334 1 728 2 540 4 227 6 357 8 214 10 865	617 146 73 106 184 228 296 364 556 713 1 059 1 380 1 823 2 518 4 024 6 301 8 480 11 013	597 121 86 81 221 284 320 431 553 746 1 072 1 457 1 813 2 484 3 990 6 294 8 304 11 174	546 148 61 87 237 258 308 374 574 760 1 059 1 507 1 715 2 420 3 633 5 994 8 427	596 129 72 89 215 269 315 406 531 787 1 085 1 390 1 727 2 377 3 440 5 879 8 567
0 1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 55-59 60-64 65-69 70-74 75-79 80-84 85-89	1 093 242 157 104 301 348 314 359 427 623 981 1 609 2 348 3 133 4 409 5 509 6 766 7 461 6 601	904 181 104 118 251 315 306 337 504 617 847 1 360 2 092 3 290 4 336 6 210 7 183 8 268 6 876	868 191 103 91 262 313 319 389 488 754 940 1 281 1 912 3 222 4 716 6 425 8 767 9 758 8 725	FEMALES 646 160 84 104 187 255 276 352 534 740 1 056 1 272 1 770 2 622 4 389 6 480 8 358 10 922 9 937	642 151 93 113 214 293 289 414 494 729 1 030 1 334 1 728 2 540 4 227 6 357 8 214 10 865 9 973	617 146 73 106 184 228 296 364 556 713 1 059 1 380 1 823 2 518 4 024 6 301 8 480 11 013 10 632	597 121 86 81 221 284 320 431 553 746 1 072 1 457 1 813 2 484 3 990 6 294 8 304 11 174 11 183	546 148 61 87 237 258 308 374 574 760 1 059 1 507 1 715 2 420 3 633 5 994 8 427 10 785 10 886	596 129 72 89 215 269 315 406 531 787 1 085 1 390 1 727 2 377 3 440 5 879 8 567 10 561 11 641
0 1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 55-59 60-64 65-69 70-74 75-79 80-84 85-89 90-94 95-99	1 093 242 157 104 301 348 314 359 427 623 981 1 609 2 348 3 133 4 409 5 509 6 766 7 461 6 601 3 396 1 002	904 181 104 118 251 315 306 337 504 617 847 1 360 2 092 3 290 4 336 6 210 7 183 8 268 6 876 4 247 1 371	868 191 103 91 262 313 319 389 488 754 940 1 281 1 912 3 222 4 716 6 425 8 767 9 758 8 725 5 488 1 961	FEMALES 646 160 84 104 187 255 276 352 534 740 1 056 1 272 1 770 2 622 4 389 6 480 8 358 10 922 9 937 6 226 2 368	642 151 93 113 214 293 289 414 494 729 1 030 1 334 1 728 2 540 4 227 6 357 8 214 10 865 9 973 6 305 2 368	617 146 73 106 184 228 296 364 556 713 1 059 1 380 1 823 2 518 4 024 6 301 8 480 11 013 10 632 6 934 2 587	597 121 86 81 221 284 320 431 553 746 1 072 1 457 1 813 2 484 3 990 6 294 8 304 11 174 11 183 7 142 2 696	546 148 61 87 237 258 308 374 574 760 1 059 1 507 1 715 2 420 3 633 5 994 8 427 10 785 10 886 7 106 2 698	596 129 72 89 215 269 315 406 531 787 1 085 1 390 1 727 2 377 3 440 5 879 8 567 10 561 11 641 7 563 2 706
0 1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 55-59 60-64 65-69 70-74 75-79 80-84 85-89 90-94	1 093 242 157 104 301 348 314 359 427 623 981 1 609 2 348 3 133 4 409 5 509 6 766 7 461 6 601 3 396	904 181 104 118 251 315 306 337 504 617 847 1 360 2 092 3 290 4 336 6 210 7 183 8 268 6 876 4 247	868 191 103 91 262 313 319 389 488 754 940 1 281 1 912 3 222 4 716 6 425 8 767 9 758 8 725 5 488	FEMALES 646 160 84 104 187 255 276 352 534 740 1 056 1 272 1 770 2 622 4 389 6 480 8 358 10 922 9 937 6 226	642 151 93 113 214 293 289 414 494 729 1 030 1 334 1 728 2 540 4 227 6 357 8 214 10 865 9 973 6 305	617 146 73 106 184 228 296 364 556 713 1 059 1 380 1 823 2 518 4 024 6 301 8 480 11 013 10 632 6 934	597 121 86 81 221 284 320 431 553 746 1 072 1 457 1 813 2 484 3 990 6 294 8 304 11 174 11 183 7 142	546 148 61 87 237 258 308 374 574 760 1 059 1 507 1 715 2 420 3 633 5 994 8 427 10 785 10 886 7 106	596 129 72 89 215 269 315 406 531 787 1 085 1 390 1 727 2 377 3 440 5 879 8 567 10 561 11 641 7 563
0 1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 55-59 60-64 65-69 70-74 75-79 80-84 85-89 90-94 95-99 100 and over Not stated	1 093 242 157 104 301 348 314 359 427 623 981 1 609 2 348 3 133 4 409 5 509 6 766 7 461 6 601 3 396 1 002	904 181 104 118 251 315 306 337 504 617 847 1 360 2 092 3 290 4 336 6 210 7 183 8 268 6 876 4 247 1 371 204	868 191 103 91 262 313 319 389 488 754 940 1 281 1 912 3 222 4 716 6 425 8 767 9 758 8 725 5 488 1 961	FEMALES 646 160 84 104 187 255 276 352 534 740 1 056 1 272 1 770 2 622 4 389 6 480 8 358 10 922 9 937 6 226 2 368 487	642 151 93 113 214 293 289 414 494 729 1 030 1 334 1 728 2 540 4 227 6 357 8 214 10 865 9 973 6 305 2 368	617 146 73 106 184 228 296 364 556 713 1 059 1 380 1 823 2 518 4 024 6 301 8 480 11 013 10 632 6 934 2 587 467	597 121 86 81 221 284 320 431 553 746 1 072 1 457 1 813 2 484 3 990 6 294 8 304 11 174 11 183 7 142 2 696 545	546 148 61 87 237 258 308 374 574 760 1 059 1 507 1 715 2 420 3 633 5 994 8 427 10 785 10 886 7 106 2 698	596 129 72 89 215 269 315 406 531 787 1 085 1 390 1 727 2 377 3 440 5 879 8 567 10 561 11 641 7 563 2 706
0 1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 55-59 60-64 65-69 70-74 75-79 80-84 85-89 90-94 95-99 100 and over	1 093 242 157 104 301 348 314 359 427 623 981 1 609 2 348 3 133 4 409 5 509 6 766 7 461 6 601 3 396 1 002	904 181 104 118 251 315 306 337 504 617 847 1 360 2 092 3 290 4 336 6 210 7 183 8 268 6 876 4 247 1 371 204	868 191 103 91 262 313 319 389 488 754 940 1 281 1 912 3 222 4 716 6 425 8 767 9 758 8 725 5 488 1 961	FEMALES 646 160 84 104 187 255 276 352 534 740 1 056 1 272 1 770 2 622 4 389 6 480 8 358 10 922 9 937 6 226 2 368 487	642 151 93 113 214 293 289 414 494 729 1 030 1 334 1 728 2 540 4 227 6 357 8 214 10 865 9 973 6 305 2 368	617 146 73 106 184 228 296 364 556 713 1 059 1 380 1 823 2 518 4 024 6 301 8 480 11 013 10 632 6 934 2 587 467	597 121 86 81 221 284 320 431 553 746 1 072 1 457 1 813 2 484 3 990 6 294 8 304 11 174 11 183 7 142 2 696 545	546 148 61 87 237 258 308 374 574 760 1 059 1 507 1 715 2 420 3 633 5 994 8 427 10 785 10 886 7 106 2 698	596 129 72 89 215 269 315 406 531 787 1 085 1 390 1 727 2 377 3 440 5 879 8 567 10 561 11 641 7 563 2 706

 $^{-\!\!\!-}$ nil or rounded to zero (including null cells)

4.2 AGE SPECIFIC DEATH RATES(a), by Sex—Selected Years

• • • • • • • • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • •	• • • • • • • •	
Age group (years)	1979	1984	1989	1994	1995	1996	1997	1998	1999
	• • • • • • • • •	• • • • • • • •	• • • • • • • •	MALES		• • • • • • • •	• • • • • • •	• • • • • • • •	• • • • •
0	12.7	10.3	8.9	6.6	6.1	6.4	5.7	5.5	6.4
1–4	0.6	0.6	0.4	0.4	0.4	0.4	0.4	0.4	0.3
5–9	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1
10–14	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2
15–19	1.3	1.0	1.0	0.8	0.8	0.8	0.9	0.8	0.8
20–24	1.7	1.5	1.4	1.2	1.3	1.2	1.2	1.3	1.2
25–29	1.4	1.1	1.5	1.2	1.2	1.2	1.3	1.3	1.4
30–34	1.3	1.3	1.4	1.3	1.4	1.4	1.3	1.5	1.4
35–39	1.8	1.4	1.7	1.6	1.6	1.5	1.5	1.5	1.4
40–44	2.8	2.4	1.9	2.0	1.9	2.0	1.9	1.9	1.8
45–49	5.0	3.7	3.3	2.8	2.7	2.7	2.6	2.5	2.5
50–54	8.3	6.6	5.7	4.6	4.5	4.4	4.3	4.0	3.9
55–59	13.3	11.5	9.9	8.0	7.6	7.3	7.0	6.8	6.7
60–64	21.1	18.3	16.6	14.0	13.3	13.1	12.7	11.8	11.0
65–69	33.7	29.2	27.3	23.8	22.5	21.8	21.0	20.0	19.0
70–74	52.7	47.3	45.2	38.3	36.9	36.2	34.9	33.5	33.0
75–79	80.2	74.0	72.6	64.4	58.7	58.3	55.7	53.6	52.6
80–84	121.3	1126	114.0	101.8	98.1	100.8	96.6	92.9	88.3
85 and over	204.5	195.8	200.0	186.9	176.6	181.3	174.0	167.2	166.1
				FEMALES					
0	10.1	7.7	7.1	5.2	5.1	5.0	4.9	4.5	4.9
1–4	0.5	0.4	0.4	0.3	0.3	0.3	0.2	0.3	0.3
5–9	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1
10–14	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1
15–19	0.5	0.4	0.4	0.3	0.3	0.3	0.4	0.4	0.3
20–24	0.6	0.5	0.5	0.4	0.4	0.3	0.4	0.4	0.4
25–29	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4
30-34	0.6	0.5	0.6	0.5	0.6	0.5	0.6	0.5	0.6
35–39	1.0	0.9	0.8	0.8	0.7	0.8	0.7	0.8	0.7
40–44	1.6	1.4	1.3	1.1	1.1	1.1	1.1	1.1	1.1
45-49	2.7	2.2	2.1	1.8	1.7	1.7	1.7	1.6	1.6
50-54	4.2	3.8	3.3	2.8	2.8	2.8	2.7	2.6	2.3
55–59	6.5	5.6	5.3	4.6	4.4	4.5	4.3	4.0	3.8
60–64	10.3	9.2	8.7	7.3	7.1	7.1	6.8	6.5	6.3
65–69	16.0	15.0	13.8	12.4	11.9	11.3	11.3	10.4	9.9
70–74	26.5	24.6	24.2	20.4	19.7	19.3	19.2	18.2	17.8
75–79	45.1	40.8	40.8	36.7	35.2	34.8	32.5	31.5	30.4
80–84	80.4	73.2	72.9	65.3	63.0	62.4	62.4	59.9	59.1
85 and over	163.2	152.6	159.9	149.2	142.6	145.7	144.6	136.1	136.1

(a) Per 1,000 population.

46 ABS • DEATHS • 3302.0 • 1999

4.3 DEATHS, by Age and Sex—States and Territories

Age group (years)	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust.(a)
	• • • • • • •		• • • • • • • •	MALES		• • • • • • • •		• • • • • •	• • • • • •
0	281	188	159	50	70	27	24	13	812
1–4	52	35	30	10	30	_	3	_	164
5–9	31	28	16	6	8	3	_	_	95
10–14	32	24	24	8	13	7	_	_	112
15–19	168	112	116	37	77	17	16	3	547
20–24	262	206	154	59	100	22	25	4	841
25–29	344	248	181	78	111	19	31	13	1 027
30–34	338	221	171	75	94	29	31	15	976
35–39	381	236	190	91	100	29	24	16	1 066
40–44	437	301	241	114	123	33	34	15	1 302
45–49	561	390	320	126	167	49	21	19	1 664
50–54	837	534	482	168	229	62	36	29	2 386
55–59	1 099	988	640	211	264	74	48	37	3 102
60–64	1 491	1 495	788	323	374	118	48	48	4 166
65–69	2 294	2 382	1 151	543	520	194	50	36	6 305
70–74	3 474	2 794	1 721	833	780	256	39	58	9 573
75–79	4 002	2 394	1 875	1 090	926	348	37	88	11 167
80–84	3 506	2 024	1 783	889	808	323	16	90	9 809
85–89	2 706	2 024	1 354	739	672	230	15	66	7 806
90–94	1 205	882	606	316	297	82	6	31	3 425
95–99	247	211	164	63	69	27	_	4	786
100 and over	28	21	14	11	10	_	_	_	87
Not stated	6	_	_	_	_	_	_	_	9
									67.667
Total	23 782	16 433	12 180	5 840	5 843	1 954	509	682	67 227
Total	23 782	16 433	• • • • • • • •	• • • • • • •	5 843	1 954	509	682	67 227
	• • • • • • •		• • • • • • • •	FEMALES		• • • • • • • •			• • • • • •
0	223	143	107	FEMALES	47	19	18	11	596
0 1–4	223 45	143 22	107 32	FEMALES 28 5	47 12	19 6	18 3	11 4	596 129
0 1–4 5–9	223 45 24	143 22 17	107 32 15	FEMALES 28 5 3	47 12 9	19 6 —	18 3 3	11 4 —	596 129 72
0 1-4 5-9 10-14	223 45 24 22	143 22 17 23	107 32 15 21	FEMALES 28 5 3 11	47 12 9 8	19 6 —	18 3 3 3	11 4 —	596 129 72 89
0 1-4 5-9 10-14 15-19	223 45 24 22 78	143 22 17 23 43	107 32 15 21 40	FEMALES 28 5 3 11 20	47 12 9 8 22	19 6 — — 5	18 3 3 3 6	11 4 —	596 129 72 89 215
0 1-4 5-9 10-14 15-19 20-24	223 45 24 22 78 90	143 22 17 23 43 68	107 32 15 21 40 48	FEMALES 28 5 3 11 20 19	47 12 9 8 22 22	19 6 - 5	18 3 3 3 6 7	11 4 — — — 5	596 129 72 89 215 269
0 1-4 5-9 10-14 15-19 20-24 25-29	223 45 24 22 78 90 89	143 22 17 23 43 68 86	107 32 15 21 40 48 63	FEMALES 28 5 3 11 20 19 18	47 12 9 8 22 22 41	19 6 - 5 10 8	18 3 3 3 6 7 6	11 4 — — — 5 4	596 129 72 89 215 269 315
0 1-4 5-9 10-14 15-19 20-24 25-29 30-34	223 45 24 22 78 90 89 120	143 22 17 23 43 68 86 116	107 32 15 21 40 48 63 70	FEMALES 28 5 3 11 20 19 18 39	47 12 9 8 22 22 41 34	19 6 - 5 10 8 8	18 3 3 3 6 7 6	11 4 — — 5 4 6	596 129 72 89 215 269 315 406
0 1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39	223 45 24 22 78 90 89 120 175	143 22 17 23 43 68 86 116 128	107 32 15 21 40 48 63 70 116	28 5 3 11 20 19 18 39 31	47 12 9 8 22 22 41 34 41	19 6 — 5 10 8 8 18	18 3 3 3 6 7 6 13 9	11 4 — — 5 4 6 12	596 129 72 89 215 269 315 406 531
0 1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-44	223 45 24 22 78 90 89 120 175 245	143 22 17 23 43 68 86 116 128 191	107 32 15 21 40 48 63 70 116	28 5 3 11 20 19 18 39 31 70	47 12 9 8 22 22 41 34 41 91	19 6 — 5 10 8 8 18	18 3 3 3 6 7 6 13 9	11 4 — — 5 4 6 12	596 129 72 89 215 269 315 406 531 787
0 1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-44 45-49	223 45 24 22 78 90 89 120 175 245 384	143 22 17 23 43 68 86 116 128 191 235	107 32 15 21 40 48 63 70 116 145 192	28 5 3 11 20 19 18 39 31 70 90	47 12 9 8 22 22 41 34 41 91 89	19 6 5 10 8 8 18 17 45	18 3 3 3 6 7 6 13 9 18 24	11 4 — — 5 4 6 12 10 26	596 129 72 89 215 269 315 406 531 787 1 085
0 1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54	223 45 24 22 78 90 89 120 175 245 384 443	143 22 17 23 43 68 86 116 128 191 235 331	107 32 15 21 40 48 63 70 116 145 192 271	FEMALES 28 5 3 11 20 19 18 39 31 70 90 114	47 12 9 8 22 22 41 34 41 91 89 145	19 6 — 5 10 8 8 18 17 45 50	18 3 3 3 6 7 6 13 9 18 24 18	11 4 — — 5 4 6 12 10 26 18	596 129 72 89 215 269 315 406 531 787 1 085 1 390
0 1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 55-59	223 45 24 22 78 90 89 120 175 245 384 443 591	143 22 17 23 43 68 86 116 128 191 235 331 418	107 32 15 21 40 48 63 70 116 145 192 271 333	28 5 3 11 20 19 18 39 31 70 90 114 150	47 12 9 8 22 22 41 34 41 91 89 145 138	19 6 — 5 10 8 8 18 17 45 50 42	18 3 3 3 6 7 6 13 9 18 24 18 27	11 4 — — 5 4 6 12 10 26 18 28	596 129 72 89 215 269 315 406 531 787 1 085 1 390 1 727
0 1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 55-59 60-64	223 45 24 22 78 90 89 120 175 245 384 443 591	143 22 17 23 43 68 86 116 128 191 235 331 418 532	107 32 15 21 40 48 63 70 116 145 192 271 333 416	FEMALES 28 5 3 11 20 19 18 39 31 70 90 114 150 199	47 12 9 8 22 22 41 34 41 91 89 145 138 203	19 6 — 5 10 8 8 18 17 45 50 42	18 3 3 3 6 7 6 13 9 18 24 18 27 21	11 4 — — 5 4 6 12 10 26 18 28 25	596 129 72 89 215 269 315 406 531 787 1 085 1 390 1 727 2 377
0 1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 55-59 60-64 65-69	223 45 24 22 78 90 89 120 175 245 384 443 591 905 1 221	143 22 17 23 43 68 86 116 128 191 235 331 418 532 863	107 32 15 21 40 48 63 70 116 145 192 271 333 416 624	FEMALES 28 5 3 11 20 19 18 39 31 70 90 114 150 199 272	47 12 9 8 22 22 41 34 41 91 89 145 138 203 272	19 6 — 5 10 8 8 18 17 45 50 42 76 123	18 3 3 3 6 7 6 13 9 18 24 18 27 21 21	11 4 — — 5 4 6 12 10 26 18 28 25 44	596 129 72 89 215 269 315 406 531 787 1 085 1 390 1 727 2 377 3 440
0 1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 55-59 60-64 65-69 70-74	223 45 24 22 78 90 89 120 175 245 384 443 591 905 1 221 2 123	143 22 17 23 43 68 86 116 128 191 235 331 418 532 863 1 463	107 32 15 21 40 48 63 70 116 145 192 271 333 416 624 1 023	FEMALES 28 5 3 11 20 19 18 39 31 70 90 114 150 199 272 523	47 12 9 8 22 22 41 34 41 91 89 145 138 203 272 472	19 6 — 5 10 8 8 18 17 45 50 42 76 123 172	18 3 3 3 6 7 6 13 9 18 24 18 27 21 21 40	11 4 — — 5 4 6 12 10 26 18 28 25 44 63	596 129 72 89 215 269 315 406 531 787 1 085 1 390 1 727 2 377 3 440 5 879
0 1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 55-59 60-64 65-69 70-74 75-79	223 45 24 22 78 90 89 120 175 245 384 443 591 905 1 221 2 123 3 033	143 22 17 23 43 68 86 116 128 191 235 331 418 532 863 1 463 2 253	107 32 15 21 40 48 63 70 116 145 192 271 333 416 624 1 023 1 459	FEMALES 28 5 3 11 20 19 18 39 31 70 90 114 150 199 272 523 765	47 12 9 8 22 22 41 34 41 91 89 145 138 203 272 472 666	19 6 — 5 10 8 8 18 17 45 50 42 76 123 172 278	18 3 3 3 6 7 6 13 9 18 24 18 27 21 21 40 37	11 4 — 5 4 6 12 10 26 18 28 25 44 63 76	596 129 72 89 215 269 315 406 531 787 1 085 1 390 1 727 2 377 3 440 5 879 8 567
0 1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 55-59 60-64 65-69 70-74 75-79 80-84	223 45 24 22 78 90 89 120 175 245 384 443 591 905 1 221 2 123 3 033 3 773	143 22 17 23 43 68 86 116 128 191 235 331 418 532 863 1 463 2 253 2 685	107 32 15 21 40 48 63 70 116 145 192 271 333 416 624 1 023 1 459 1 819	28 5 3 11 20 19 18 39 31 70 90 114 150 199 272 523 765 970	47 12 9 8 22 22 41 34 41 91 89 145 138 203 272 472 666 850	19 6 — 5 10 8 8 18 17 45 50 42 76 123 172 278	18 3 3 3 6 7 6 13 9 18 24 18 27 21 21 40 37 27	11 4 — 5 4 6 12 10 26 18 28 25 44 63 76 114	596 129 72 89 215 269 315 406 531 787 1 085 1 390 1 727 2 377 3 440 5 879 8 567 10 561
0 1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 55-59 60-64 65-69 70-74 75-79 80-84 85-89	223 45 24 22 78 90 89 120 175 245 384 443 591 905 1 221 2 123 3 033 3 773 4 112	143 22 17 23 43 68 86 116 128 191 235 331 418 532 863 1 463 2 253 2 685 3 024	107 32 15 21 40 48 63 70 116 145 192 271 333 416 624 1 023 1 459 1 819 1 969	28 5 3 11 20 19 18 39 31 70 90 114 150 199 272 523 765 970 1 084	47 12 9 8 22 22 41 34 41 91 89 145 138 203 272 472 666 850 987	19 6 — 5 10 8 8 18 17 45 50 42 76 123 172 278 322 341	18 3 3 3 6 7 6 13 9 18 24 18 27 21 21 40 37 27 14	11 4 — — 5 4 6 12 10 26 18 28 25 44 63 76 114 110	596 129 72 89 215 269 315 406 531 787 1 085 1 390 1 727 2 377 3 440 5 879 8 567 10 561 11 641
0 1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 55-59 60-64 65-69 70-74 75-79 80-84 85-89 90-94	223 45 24 22 78 90 89 120 175 245 384 443 591 905 1 221 2 123 3 033 3 773 4 112 2 633	143 22 17 23 43 68 86 116 128 191 235 331 418 532 863 1 463 2 253 2 685 3 024 1 956	107 32 15 21 40 48 63 70 116 145 192 271 333 416 624 1 023 1 459 1 819 1 969 1 338	FEMALES 28 5 3 11 20 19 18 39 31 70 90 114 150 199 272 523 765 970 1 084 723	47 12 9 8 22 22 41 34 41 91 89 145 138 203 272 472 666 850 987 637	19 6 — 5 10 8 8 18 17 45 50 42 76 123 172 278 322 341 207	18 3 3 3 6 7 6 13 9 18 24 18 27 21 21 40 37 27 14 6	11 4 — — 5 4 6 12 10 26 18 28 25 44 63 76 114 110 63	596 129 72 89 215 269 315 406 531 787 1 085 1 390 1 727 2 377 3 440 5 879 8 567 10 561 11 641 7 563
0 1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 55-59 60-64 65-69 70-74 75-79 80-84 85-89 90-94 95-99	223 45 24 22 78 90 89 120 175 245 384 443 591 905 1 221 2 123 3 033 3 773 4 112 2 633 905	143 22 17 23 43 68 86 116 128 191 235 331 418 532 863 1 463 2 253 2 685 3 024 1 956 749	107 32 15 21 40 48 63 70 116 145 192 271 333 416 624 1 023 1 459 1 819 1 969 1 338 478	FEMALES 28 5 3 11 20 19 18 39 31 70 90 114 150 199 272 523 765 970 1 084 723 268	47 12 9 8 22 22 41 34 41 91 89 145 138 203 272 472 666 850 987 637 208	19 6 — 5 10 8 8 18 17 45 50 42 76 123 172 278 322 341 207 71	18 3 3 3 6 7 6 13 9 18 24 18 27 21 21 40 37 27 14	11 4 — 5 4 6 12 10 26 18 28 25 44 63 76 114 110 63 23	596 129 72 89 215 269 315 406 531 787 1 085 1 390 1 727 2 377 3 440 5 879 8 567 10 561 11 641 7 563 2 706
0 1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 55-59 60-64 65-69 70-74 75-79 80-84 85-89 90-94	223 45 24 22 78 90 89 120 175 245 384 443 591 905 1 221 2 123 3 033 3 773 4 112 2 633	143 22 17 23 43 68 86 116 128 191 235 331 418 532 863 1 463 2 253 2 685 3 024 1 956	107 32 15 21 40 48 63 70 116 145 192 271 333 416 624 1 023 1 459 1 819 1 969 1 338	FEMALES 28 5 3 11 20 19 18 39 31 70 90 114 150 199 272 523 765 970 1 084 723	47 12 9 8 22 22 41 34 41 91 89 145 138 203 272 472 666 850 987 637	19 6 — 5 10 8 8 18 17 45 50 42 76 123 172 278 322 341 207	18 3 3 3 6 7 6 13 9 18 24 18 27 21 21 40 37 27 14 6	11 4 — — 5 4 6 12 10 26 18 28 25 44 63 76 114 110 63	596 129 72 89 215 269 315 406 531 787 1 085 1 390 1 727 2 377 3 440 5 879 8 567 10 561 11 641 7 563
0 1-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 55-59 60-64 65-69 70-74 75-79 80-84 85-89 90-94 95-99 100 and over	223 45 24 22 78 90 89 120 175 245 384 443 591 905 1 221 2 123 3 033 3 773 4 112 2 633 905	143 22 17 23 43 68 86 116 128 191 235 331 418 532 863 1 463 2 253 2 685 3 024 1 956 749	107 32 15 21 40 48 63 70 116 145 192 271 333 416 624 1 023 1 459 1 819 1 969 1 338 478	FEMALES 28 5 3 11 20 19 18 39 31 70 90 114 150 199 272 523 765 970 1 084 723 268	47 12 9 8 22 22 41 34 41 91 89 145 138 203 272 472 666 850 987 637 208	19 6 — 5 10 8 8 18 17 45 50 42 76 123 172 278 322 341 207 71	18 3 3 3 6 7 6 13 9 18 24 18 27 21 21 40 37 27 14 6	11 4 — 5 4 6 12 10 26 18 28 25 44 63 76 114 110 63 23	596 129 72 89 215 269 315 406 531 787 1 085 1 390 1 727 2 377 3 440 5 879 8 567 10 561 11 641 7 563 2 706 528

⁽a) Includes Other Territories.

[—] nil or rounded to zero (including null cells)

4.4 AGE-SPECIFIC DEATH RATES(a), by Sex—States and Territories

• • • • • • • • • • • •	• • • • • • • • •	• • • • • • •	• • • • • • • •	• • • • • • •	• • • • • • • •	• • • • • • • •		• • • • • • •	• • • • • •
Age group (years)	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust.(b)
					• • • • • • • •			• • • • • • •	
				MALES					
0	6.4	6.2	6.6	5.4	5.5	8.4	13.2	6.2	6.4
1–4 5–9	0.3	0.3	0.3	0.3	0.6	0.2	0.4	0.2	0.3
5–9 10–14	0.1 0.1	0.2 0.1	0.1 0.2	0.1 0.2	0.1 0.2	0.2 0.4	0.2 0.1	0.1 0.3	0.1 0.2
15–19	0.7	0.7	0.2	0.7	1.1	1.0	2.1	0.3	0.8
20–24	1.2	1.2	1.2	1.2	1.4	1.5	2.8	0.9	1.2
25–29	1.4	1.3	1.3	1.4	1.5	1.2	2.9	1.2	1.4
30–34	1.4	1.2	1.3	1.4	1.3	1.9	3.3	1.4	1.4
35–39	1.5	1.3	1.4	1.6	1.3	1.6	2.7	1.2	1.4
40–44	1.8	1.7	1.9	2.1	1.7	1.9	4.4	1.6	1.8
45–49	2.5	2.4	2.6	2.4	2.5	2.9	3.0	2.5	2.5
50–54 55–59	4.1 6.9	3.6 6.3	4.2 7.3	3.4 5.7	3.8 5.9	4.1 6.1	6.1 11.7	3.5 6.8	3.9 6.7
60–64	11.4	10.4	11.4	10.3	10.6	11.8	20.7	7.1	11.0
65–69	19.7	17.6	19.7	18.8	17.5	21.5	34.5	14.9	19.0
70–74	34.1	32.2	33.9	31.1	31.5	32.9	39.7	28.4	33.0
75–79	53.2	51.8	50.4	54.6	52.4	61.8	70.7	41.6	52.6
80-84	88.9	85.7	89.9	84.2	90.7	104.5	69.9	84.9	88.3
85 and over	170.5	161.9	166.0	163.0	163.7	176.0	119.2	161.3	166.1
	• • • • • • • • •	• • • • • • •	• • • • • • • •	• • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • •	• • • • • • •	• • • • • •
				FEMALES					
0	5.4	5.0	4.7	3.1	3.8	6.1	10.5	5.3	4.9
1–4	0.3	0.2	0.3	0.1	0.2	0.5	0.4	0.5	0.3
5–9	0.1	0.1	0.1	0.0	0.1	0.1	0.2	0.1	0.1
10–14	0.1	0.1	0.2	0.2	0.1	0.1	0.3	0.0	0.1
15–19	0.4	0.3	0.3	0.4	0.3	0.3	0.9	0.1	0.3
20–24 25–29	0.4	0.4	0.4	0.4	0.3	0.7	0.9	0.4	0.4
30–34	0.4 0.5	0.5 0.6	0.5 0.5	0.3 0.7	0.6 0.5	0.5 0.5	0.6 1.5	0.3 0.5	0.4 0.6
35–39	0.7	0.7	0.8	0.5	0.5	1.0	1.1	0.9	0.7
40–44	1.0	1.1	1.1	1.2	1.3	0.9	2.6	0.8	1.1
45–49	1.7	1.4	1.6	1.7	1.3	2.7	4.0	2.1	1.6
50-54	2.2	2.2	2.5	2.3	2.6	3.3	3.8	1.7	2.3
55–59	3.8	3.7	4.0	4.0	3.3	3.5	9.3	4.1	3.8
60–64	6.9	5.5	6.3	6.1	5.9	7.5	11.9	5.1	6.3
65–69	10.0	9.6	10.5	8.9	9.0	13.0	17.8	11.0	9.9
70–74 75, 70	18.1	17.1	18.3	17.1	17.4	19.6	48.9	17.2	17.8
75–79	30.2	30.7	31.1	28.4	29.2	35.8	68.8	24.4	30.4
80–84	59.0	58.8	59.8	56.9	59.3	63.1	85.4	63.5	59.1
85 and over	135.9	134.8	142.4	131.9	132.3	141.3	87.0	140.5	136.1

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⁽a) Per 1,000 population.

⁽b) Includes Other Territories.

4.5 REGIONAL PATTERNS OF MORTALITY

		Estimated resident	Crude	Indirect	SEIFA
	Deaths	population June	death	standardised	index of
	1999	1999(a)	rate(b)	death rate(c)	disadvantage(d)
Statistical Division	no.	no.	rate	rate	index
New South Wales	• • • • • • • • • • •	• • • • • • • • •	• • • • • • • •	• • • • • • • • • •	
	05 770	4 004 044	0.5	F 0	4.000
Sydney	25 776 4 573	4 031 944	6.5	5.9	1 028
Hunter Illawarra	2 816	571 465 384 588	8.1	6.3 6.0	970 979
Richmond-Tweed	1 722	208 791	7.3 8.3	5.9	979 960
Mid-North Coast	2 480	208 791	9.0	5.9 6.0	960
Northern	1 407	174 546	9.0 8.1	6.6	947 977
North-Western	960	117 314	8.1	6.6 7.2	97 <i>7</i> 952
Central West	1 505	172 900	8.4	7.2 7.0	982
South-Eastern		172 900		7.0 6.4	1 001
Murrumbidgee	1 511 1 154		8.0 7.7	6.4 6.7	989
J		148 621		6.5	
Murray	873 237	110 467	8.2 10.2	6.5 7.2	994 919
Far West		24 188	7.1	7.2 6.1	
Total(e)	45 215	6 396 703	7.1	6.1	1 007
Victoria					
Melbourne	21 423	3 413 894	6.5	5.7	1 025
Barwon	1 849	245 343	7.9	6.0	996
Western District	837	98 954	8.8	6.5	1 001
Central Highlands	1 135	137 221	8.4	6.8	989
Wimmera	505	51 453	10.2	6.3	1 006
Mallee	717	88 118	8.7	6.7	983
Loddon-Campaspe	1 298	161 263	8.2	6.3	999
Goulburn	1 454	186 500	7.8	6.1	992
Ovens-Murray	680	90 452	7.6	6.3	1 007
East Gippsland	717	80 652	8.6	6.5	985
Gippsland	1 230	153 740	8.0	6.5	983
Total(e)	31 918	4 707 590	6.9	5.9	1 016
Queensland					
Brisbane	9 930	1 598 916	6.2	5.9	1 011
Moreton	4 671	674 870	6.9	5.6	981
Wide Bay-Burnett	1 845	232 625	7.8	6.0	926
Darling Downs	1 556	201 133	7.5	6.2	982
South-West	194	25 671	7.6	7.4	961
Fitzroy	1 094	180 920	6.0	6.6	972
Central West	83	12 236	7.1	6.0	967
Mackay	626	125 781	5.0	6.1	984
Northern	1 255	196 995	6.5	6.9	984
Far North	1 290	222 107	5.6	6.6	977
North-West	193	35 627	5.3	8.7	941
Total(e)	22 849	3 506 881	6.5	6.0	988

⁽b) Per 1,000 population. It is the average crude death rate 1997–1999.

⁽c) Per 1,000 population. It is the average indirect standardised death rate 1997–1999.

⁽d) Socio-Economic Indexes for Areas as defined from the 1996 Census of Population and Housing. Recoded to 1999 Statistical Division boundaries for consistency.

⁽e) Includes not stated, no fixed abode or overseas residents.

4.5 REGIONAL PATTERNS OF MORTALITY continued

Estimated resident Crude Indirect SEIFA
Deaths population June death standardised index of 1999 1999(a) rate(b) death rate(c) disadvantage(d)

Statistical Division no. rate rate index

	Deaths 1999	population June 1999(a)	death rate(b)	standardised death rate(c)	index of disadvantage(d)
Statistical Division	no.	no.	rate	rate	index
South Australia	• • • • • • •		• • • • • • • •	• • • • • • • • •	• • • • • • • • • •
Adelaide	8 283	1 092 369	7.8	5.9	992
Outer Adelaide	713	1092 309	6.8	5.3	1 002
Yorke and Lower North	463	44 038	10.8	6.5	956
Murray Lands	545	68 404	7.9	5.9	940
South-East	444	62 877	7.1	6.0	977
Eyre	257	33 234	7.4	5.8	964
Northern	567	82 468	7.3	6.7	927
Total(e)	11 291	1 492 408	7.8	6.0	984
Western Australia					
Perth	8 027	1 361 675	6.0	5.7	1 019
South-West	1 194	182 500	6.4	5.8	965
Lower Great Southern	329	51 747	6.7	5.7	982
Upper Great Southern	126	19 696	6.9	6.0	1 004
Midlands	264	52 600	5.3	5.0	979
South-Eastern	292	58 669	4.6	7.4	981
Central	315	60 149	5.2	5.6	962
Pilbara	108	41 077	2.5	7.0	993
Kimberley	161	29 473	5.6	10.5	906
Total(e)	10 877	1 857 586	5.9	5.8	1 006
Tasmania					
Greater Hobart	1 581	194 389	8.1	6.7	1 000
Southern	242	34 730	6.9	6.3	942
Northern	1 111	133 169	8.0	6.3	967
Mersey-Lyell	834	108 515	7.7	6.6	945
Total(e)	3 783	470 803	7.9	6.5	974
Northern Territory					
Darwin	305	88 052	3.6	7.6	1 029
Northern Territory—Balance	495	104 672	5.0	12.1	903
Total(e)	832	192 724	4.4	10.1	962
Australian Capital Territory		000.07-			
Canberra	1 327	308 973	4.2	5.5	1 092
Total(e)	1 331	309 295	4.2	5.5	1 091
Australia	128 102	18 937 166	6.8	6.8	1 000.0

(a) Revised.

⁽b) Per 1,000 population. It is the average crude death rate 1997–1999.

⁽c) Per 1,000 population. It is the average indirect standardised death rate 1997–1999.

⁽d) Socio-Economic Indexes for Areas as defined from the 1996 Census of Population and Housing. Recoded to 1999 Statistical Division boundaries for consistency.

⁽e) Includes not stated, no fixed abode or overseas residents.

4.6 DEATHS, by Age, Sex and Marital Status

	MALES											
Age group (years)	Never married	Married	Widowed	Divorced s	Not stated(a)	Total	Never married	Married	Widowed	Divorced	Not stated(a)	Total
• • • • • • • • • •			• • • • • •	• • • • • •	• • • • •	• • • • • •			• • • • • •		• • • • • •	• • • • •
0	812	_	_	_	_	812	596	_	_	_	_	596
1–4	164	_	_	_	_	164	129	_	_	_	_	129
5–9	95	_	_	_	_	95	72	_	_	_	_	72
10–14	112	_	_	_	_	112	89	_	_	_	_	89
15–19	421	3	_	_	124	547	151	_	_	_	64	215
20-24	794	24	_	_	23	841	237	17	_	_	14	269
25-29	832	124	_	17	52	1 027	214	71	3	15	12	315
30–34	619	246	_	63	47	976	184	154	4	41	23	406
35–39	517	367	3	114	65	1 066	153	268	5	81	24	531
40-44	461	551	3	204	83	1 302	166	462	16	116	27	787
45-49	394	871	16	292	91	1 664	153	671	27	183	51	1 085
50-54	412	1 416	41	422	95	2 386	138	884	90	237	41	1 390
55–59	479	1 945	70	498	110	3 102	147	1 121	155	265	39	1 727
60-64	527	2 712	206	559	162	4 166	203	1 464	389	284	37	2 377
65–69	753	4 158	481	739	174	6 305	204	1 833	983	358	62	3 440
70–74	976	6 365	1 254	775	203	9 573	344	2 537	2 480	457	61	5 879
75–79	831	7 298	2 148	678	212	11 167	450	2 869	4 744	424	80	8 567
80–84	650	5 799	2 800	408	152	9 809	644	2 170	7 279	388	80	10 561
85–89	501	3 962	3 064	213	66	7 806	785	1 343	9 151	312	50	11 641
90-94	183	1 285	1 844	79	34	3 425	606	383	6 412	128	34	7 563
95–99	43	201	517	12	13	786	251	51	2 359	34	11	2 706
100 and over	_	14	71	_	_	87	57	9	448	8	6	528
Not stated	_	_	_	3	7	9	_	_	_	_	_	3
Total	10 578	37 340	12 521	5 075	1 713	67 227	5 973	16 307	34 545	3 332	718	60 875

 $[\]hbox{ (a) Includes de facto as only some States and Territories include this category as an option on the death certificate. } \\$

[—] nil or rounded to zero (including null cells)

4.7 AGE-SPECIFIC DEATH RATES(a), by Sex and Marital Status

	MALES				FEMALES	FEMALES				
Age group (years)	Never married	Married	Widowed	Divorced	Total	Never married	Married	Widowed	Divorced	Total
		• • • • • • •								
0	6.4	_	_	_	6.4	4.9	_	_	_	4.9
1–4	0.3	_	_	_	0.3	0.3	_	_	_	0.3
5–9	0.1	_	_	_	0.1	0.1	_	_	_	0.1
10–14	0.2	_	_	_	0.2	0.1	_	_	_	0.1
15–19	0.6	1.9	_	_	0.8	0.2	_	_	_	0.3
20–24	1.2	0.6	_	_	1.2	0.4	0.2	_	0.4	0.4
25-29	1.7	0.5	3.6	1.3	1.4	0.6	0.2	2.2	0.6	0.4
30-34	2.3	0.6	0.9	1.8	1.4	1.0	0.3	1.3	0.8	0.6
35–39	2.9	0.7	1.6	1.9	1.4	1.3	0.5	0.9	1.1	0.7
40–44	4.2	1.1	1.0	2.8	1.8	2.3	0.9	1.7	1.3	1.1
45–49	5.7	1.7	3.4	3.7	2.5	3.4	1.3	1.8	1.9	1.6
50-54	8.9	2.9	6.1	5.7	3.9	4.9	2.0	3.7	2.7	2.3
55–59	15.9	5.2	8.0	9.5	6.7	8.1	3.3	4.4	4.5	3.8
60-64	22.6	8.8	16.9	15.4	11.0	14.8	5.4	7.3	7.1	6.3
65–69	36.2	15.6	25.2	28.1	19.0	16.2	8.3	11.8	12.2	9.9
70–74	55.7	28.1	45.2	43.0	33.0	26.9	14.6	20.4	21.6	17.8
75–79	71.4	46.5	63.8	67.7	52.6	37.9	25.7	32.6	32.1	30.4
80–84	116.2	79.4	97.7	106.5	88.3	71.2	50.3	60.3	68.3	59.1
85 and over	185.3	147.7	182.2	166.7	166.1	159.7	95.4	138.6	161.5	136.1

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⁽a) Per 1,000 population.

[—] nil or rounded to zero (including null cells)

4.8 DEATHS, by Selected Countries of Birth—Males(a)

		Australia	China	Germany	Greece	India	Italy	Lebanon
Deaths	no.	46 910	411	708	734	259	1 979	213
Population(b)	'000	7 204.2	77.1	58.8	72.4	55.7	130.4	41.3
Crude death rate(c)	rate	6.5	5.3	12.1	10.1	4.6	15.2	5.2
Median age at death	years	74.6	76.2	70.4	72.1	74.7	74.9	69.8
Age at death (years)								
0	no.	809	_	_	_	_	_	_
1–4	no.	158	_	_	_	_	_	_
5–14	no.	191	_	_	_	_	_	_
15–24	no.	1 203	_	3	_	_	_	3
25–34	no.	1 660	5	6	3	4	7	9
35–44	no.	1 825	18	5	9	8	12	6
45–54	no.	2 815	14	73	38	17	71	33
55–64	no.	4 744	48	128	148	29	220	33
65–74	no.	10 587	100	237	254	73	688	56
75–84	no.	14 634	140	158	170	67	610	42
85 and over	no.	8 281	85	98	114	60	370	30
Not stated	no.	3	_	_	_	_	_	_
Leading causes of death(d)								
Malignant neoplasms (C00-C97)	rate	246	152	235	185	107	202	136
Ischaemic heart diseases (I20-I25)	rate	203	97	242	140	164	147	255
Cerebrovascular diseases (I60–I69)	rate	71	58	92	59	48	51	95
Chronic lower respiratory diseases (J40–J47)	rate	51	32	35	25	38	26	8
Accidents (V01–X59)	rate	41	20	44	21	18	31	21
Total causes	rate	890	515	901	641	565	689	784

⁽a) See Glossary for definitions of the terms used.

⁽b) Estimated male resident population by country of birth, June 1999 revised.

⁽c) Per 1,000 male estimated resident population by country of birth, June 1999 revised.

⁽d) ISDR per 100,000 population. Standardised using age-specific death rates for the 1999 Australian population.

⁻ nil or rounded to zero (including null cells)

4.8 DEATHS, by Selected Countries of Birth—Males(a) continued

New South United Malaysia Netherlands Zealand Philippines Viet Nam Africa Kingdom **Deaths** 88 754 820 89 141 7 361 175 no. Population(b) '000 43.5 47.7 183.0 36.4 615.9 86.5 44.7 Crude death rate(c) 2.0 15.8 4.5 2.0 3.9 12.0 2.0 rate Median age at death (d) 75.2 66.8 (d) 73.9 77.3 59.9 years Age at death (years) 0 no. 1-4 no. 3 5-14 no. 15–24 no. 6 26 5 32 17 25-34 5 72 4 91 13 no. 35-44 6 12 7 158 85 8 26 no. 45-54 13 38 91 6 18 357 19 no. 55-64 18 83 106 20 779 19 11 no. 65-74 no. 22 231 160 20 24 1 647 55 75-84 278 2 494 16 165 21 no. 85 and over no. 6 106 110 5 33 1 803 5 Not stated no. Leading causes of death(e) Malignant neoplasms (C00-C97) 161 281 196 148 124 179 237 rate Ischaemic heart diseases (I20–25) rate 158 183 167 116 156 172 45 Cerebrovascular diseases (I60–I69) 64 59 58 71 51 66 55 rate Chronic lower respiratory diseases (J40–J47) rate 7 41 38 25 24 42 18 Accidents (V01-X59) 40 15 24 32 29 rate 24 60 Total causes rate 524 871 814 475 610 772 450

ABS • DEATHS • 3302.0 • 1999

⁽a) See Glossary for definitions of the terms used.

⁽b) Estimated male resident population by country of birth, June 1999 revised.

⁽c) Per 1,000 male estimated resident population by country of birth, June 1999 revised.

⁽d) Not statistically reliable due to the small numbers involved.

⁽e) ISDR per 100,000 population. Standardised using age-specific death rates for the 1999 Australian population.

⁻ nil or rounded to zero (including null cells)

4.9 DEATHS, by Selected Countries of Birth—Females(a)

Australia China Germany Greece Lebanon Deaths no 44 865 303 658 465 261 1 326 131 Population(b) 7 314.0 82.4 61.2 69.9 48.2 114.7 37.6 1000 Crude death rate(c) 6.1 3.7 10.8 6.7 5.4 11.6 3.5 rate Median age at death 81.6 80.4 76.7 76.5 79.6 81.5 73.1 vears Age at death (years) 594 0 no. 1-4 123 5–14 150 no. 15-24 413 3 3 3 4 25-34 582 5 no. 35-44 7 8 7 4 no. 1 015 8 45-54 1 723 4 51 24 12 41 17 no. 55-64 23 78 120 2 819 46 19 17 no. 65-74 6 631 55 167 107 51 246 31 75-84 14 187 103 405 210 98 91 39 no. 85 and over no. 16 627 108 169 149 82 506 20 Not stated no. Leading causes of death(d) Malignant neoplasms (C00-C97) 145 100 161 114 111 117 rate 111 Ischaemic heart diseases (I20–I25) rate 117 46 97 75 117 88 147 Cerebrovascular diseases (I60–I69) 48 65 38 51 46 37 44 rate Chronic lower respiratory diseases (J40–J47) rate 24 7 19 6 21 8 13 Accidents (V01-X59) 23 rate 18 6 24 10 6 11 Total causes rate 565 289 544 386 459 454 511

⁽a) See Glossary for definitions of the terms used.

⁽b) Estimated female resident population by country of birth, June 1999 revised.

⁽c) Per 1,000 female estimated resident population by country of birth, June 1999 revised.

⁽d) ISDR per 100,000 population. Standardised using age-specific death rates for the 1999 Australian population.

[—] nil or rounded to zero (including null cells)

4.9 DEATHS, by Selected Countries of Birth—Females(a) continued

United New South Malaysia Netherlands Zealand Philippines Viet Nam **Deaths** 72 492 669 117 142 6 771 135 Population(b) '000 48.8 43.1 174.0 76.1 36.7 87.1 599.1 Crude death rate(c) 1.5 11.4 3.8 1.5 3.9 11.3 1.5 rate Median age at death 80.1 78.1 71.8 79.6 83.4 67.7 vears (d) Age at death (years) 0 no. 1-4 3 5-14 4 no. 15-24 3 14 3 3 10 8 25-34 3 21 3 29 no. 7 35-44 7 no. 6 33 9 3 85 8 45-54 5 26 71 20 206 12 11 no. 55-64 no. 12 40 64 11 11 452 20 65-74 9 84 82 21 22 962 32 no. 75-84 no. 27 187 165 39 39 2 014 36 85 and over 8 146 213 11 3 012 12 no. Not stated Leading causes of death(e) Malignant neoplasms (C00–C97) 145 99 92 Ischaemic heart diseases (I20–I25) 65 101 55 103 19 118 100 rate Cerebrovascular diseases (I60–I69) rate 41 52 72 30 29 55 45 Chronic lower respiratory diseases (J40-J47) rate 9 20 25 7 6 11 24 Accidents (V01-X59) rate 6 23 17 12 10 17 9 Total causes 339 314 534 282

⁽a) See Glossary for definitions of the terms used.

⁽b) Estimated female resident population by country of birth, June 1999 revised.

⁽c) Per 1,000 female estimated resident population by country of birth, June 1999 revised.

⁽d) Not statistically reliable due to the small numbers involved.

⁽e) ISDR per 100,000 population. Standardised using age-specific death rates for the 1999 Australian population.

[—] nil or rounded to zero (including null cells)

4.10 DEATHS, by Country of Birth and Duration of Residence

DURATION OF RESIDENCE

Country of birth No. No.		0–4	5–9	10-19	20–29	30–39	40 and over	Not stated	Not applicable	Total	Median duration
New Zealand 107 10	Country of birth	no.	no.	no.	no.	no.	no.	no.	no.	no.	years
Fiji	Oceania and Antarctica		• • • • •	• • • • •	• • • • •		• • • • •		• • • • • • •	• • • • • •	• • • • • • •
Fig.	Australia (incl E T)								91 775	91 775	
New Zealand	,										14.5
Dither 164 165 1	•	107	90	331	183	127	396	255		1 489	23.4
Dither 164 165 1	Papua New Guinea	4	_	14	22	7	14	10		71	(a)
North-West Europe		29	20	40	15	4	12	52		172	11.4
Austria	Total	161	129	429	243	146	450	350	91 775	93 678	21.4
Denmark	North-West Europe										
France 4 — 5 20 18 39 15 102 (a) Germany 18 20 55 60 170 909 134 1366 45.2 Ireland 12 — 44 67 104 364 44.4 44.8 Netherlands 7 44 22 35 154 934 90 1.246 45.5 Switzerland 188 194 979 1615 2936 6985 1235 14 132 42.0 Other 6 4 10 20 529 922 213 40.3 Total 243 229 123 17 25 55 141 135 40.3 Total 7 7 7 63 142 195 22 99 20 20 141 43.3 39.3 Cyprus — — 5 52 22 90 5		4									44.7
Germany (reland) 18 20 55 60 170 909 134 1366 45.2 (reland) Netherlands 7 4 22 35 154 934 90 1246 44.8 (A.8) Netherlands 3 3 6 3 8.8 31 9 61 (a) United Kingdom 188 194 190 1615 2 936 6 985 1 235 14 132 42.0 Other 6 4 10 20 52 99 22 213 40.3 Total 243 229 1 128 1 834 3490 9577 1 614 18 115 42.3 Autal 18 11 — 23 172 25 55 99 (a) Coatia 7 7 7 7 63 142 195 22 443 39.3 Cyprus 4 - 23 80		_	3								
Ireland 12			_								. ,
Netherlands 7 4 22 35 154 934 90 1 246 45.5 Switzerland 3 3 6 3 8 31 9 61 (a) United Kingdom 188 194 979 1615 2 936 985 1235 14 132 42.0 Other 6 4 10 20 52 99 22 213 40.3 Total 6 4 10 20 52 99 22 213 40.3 Notal and Herzegovina 18 11 - 23 17 25 5 99 (a) Croatia 7 7 7 63 142 195 22 443 39.3 Cyprus - - - 5 25 22 90 5 148 47.2 Former Yugoslav Republic of Macedonia 6 5 23 80 100	•										
Switzerland 3 3 6 3 8 31 9 61 (a) United Kingdom 188 194 979 1615 2936 6985 1235 14 132 42.0 Other 6 6 4 10 20 52 99 22 213 40.3 Total 243 229 1128 1834 3490 9577 1614 18115 43.4 Southern and Eastern Europe Bosnia and Herzegovina 18 11 — 23 17 25 5 99 (a) Croatia 7 7 7 63 142 195 22 443 39.3 Cyprus — — 5 22 90 5 148 47.2 Former Yugoslav Republic of Macedonia 6 5 3 29 419 583 49 1199 40.2 Hungary 13 7 51											
United Kingdom 188 194 979 1 615 2 936 6 985 1 235 1 4 132 42.0 Other 6 4 10 20 52 99 22 213 40.3 Total 243 229 1 128 1 834 3 490 9 577 1 614 1 8115 43.4 Southern and Eastern Europe Bosnia and Herzegovina 18 11 — 23 1.7 25 5 99 (a) Coratia 7 7 7 63 142 195 52 443 39.3 Cyprus — — - 5 25 22 90 5 148 47.2 Former Yugoslav Republic of Macedonia 6 5 23 80 100 44 13 271 30.7 Greece 6 613 32 97 4419 583 49 1199 40.2 Hungary 3											
Other Total 6 4 10 20 52 99 22 . 213 40.3 Total 243 229 1128 1634 3490 9577 1614 . 2115 43.4 Southern and Eastern Europe Bosnia and Herzegovina 18 11 — 23 17 25 5 . 99 (a) Croatia 7 7 7 63 142 195 52 . 443 39.3 Cyprus — 6 5 23 80 100 44 13 . 271 30.7 Greece 6 13 32 97 419 583 49 . 199 40.2 Hungary 3 — 20 25 41 359 46 495 43.8 Italy 13 7 51 118 720 2267 129 . 3305 44.8 Malta — — 4											. ,
Southern and Eastern Europe	<u> </u>										
Southern and Eastern Europe Bosnia and Herzegovina 18 11 23 17 25 5 . 99 (a)											
Bosnia and Herzegovina 18	lotal	243	229	1 128	1 834	3 490	9577	1 614	• •	18 115	43.4
Croatia 7 7 7 63 142 195 22											
Cyprus — — 5 25 22 90 5		18			23						
Former Yugoslav Republic of Macedonia 6 5 23 80 100 44 13 . 271 30.7 Greece 6 13 32 97 419 583 49 . 1199 40.2 Hungary 3 . 20 25 41 359 46 . 495 43.8 Italy 13 7 51 118 720 2 267 129 . 3305 44.8 Malta		7	7								
Greece 6 13 32 97 419 583 49 1199 40.2 Hungary 3 — 20 25 41 359 46 495 43.8 Italy 13 7 51 118 720 2 267 129 3305 44.8 Malta — — 4 22 98 349 24 498 45.2 Poland 13 16 75 29 105 985 87 1310 49.5 Portugal — — 9 21 25 4 5 65 (a) Romania 7 11 18 10 16 67 5 134 41.8 Russian Federation 11 12 14 17 23 169 27 273 48.5 Spain Yugoslavia	31										
Hungary 3 — 20 25 41 359 46 495 43.8 Italy 13 7 51 118 720 2267 129 3305 44.8 Malta — 4 — 4 22 98 349 24 498 45.2 Poland 13 16 75 29 105 985 87 1310 49.5 Portugal — — 9 21 25 4 5 65 (a) Romania 7 11 18 10 16 67 5 134 41.8 Russian Federation 11 12 14 17 23 169 27 273 48.5 Spain 4 — 6 21 54 14 5 105 32.3 Yugoslavia, Federal Republic of 18 10 21 96 114 247 38 544 39.1 Other 30 35 52 46 89 1023 115 1390 49.7 Total 138 130 337 693 1985 6421 575 10 279 44.9 North Africa and the Middle East Egypt 5 5 5 18 50 100 188 22 388 40.6 Iran 5 3 12 13 3 7 44 (a) Israel — — 3 3 11 6 38 63 (a) Lebanon 3 20 44 101 54 90 32 344 29.3 Syria — 3 3 — 9 9 9 — — 2 25 (a) Turkey — 7 16 61 31 38 7 162 29.3 Other	· ·										
Italy											
Malta — — 4 22 98 349 24 498 45.2 Poland 13 16 75 29 105 985 87 1310 49.5 Portugal — — 9 21 25 4 5 65 (a) Romania 7 11 18 10 16 67 5 134 41.8 Russian Federation 11 12 14 17 23 169 27 273 48.5 Spain 4 — 6 21 54 14 5 105 32.3 Yugoslavia, Federal Republic of 18 10 21 96 114 247 38 544 39.1 Other 30 35 52 46 89 1023 115 1390 49.7 Total	<u> </u>										
Poland 13 16 75 29 105 985 87 1310 49.5 Portugal — — 9 21 25 4 5 65 (a) Romania 7 11 18 10 16 67 5 134 41.8 Russian Federation 11 12 14 17 23 169 27 273 48.5 Spain 4 — 6 21 54 14 5 105 32.3 Yugoslavia, Federal Republic of 18 10 21 96 114 247 38 544 39.1 Other 30 35 52 46 89 1023 115 1390 49.7 Total 138 130 337 693 1985 6421 575 10 279 44.9 B	,										
Portugal — — 9 21 25 4 5 65 (a) Romania 7 11 18 10 16 67 5 134 41.8 Russian Federation 11 12 14 17 23 169 27 273 48.5 Spain 4 — 6 21 54 14 5 105 32.3 Yugoslavia, Federal Republic of 18 10 21 96 114 247 38 544 39.1 Other 30 35 52 46 89 1 023 115 1 390 49.7 Total 138 130 337 693 1 985 6 421 575 10 279 44.9 North Africa and the Middle East Egypt 5 5 18 50 100 188 22											
Romania 7 11 18 10 16 67 5 134 41.8 Russian Federation 11 12 14 17 23 169 27 273 48.5 Spain 4 — 6 21 54 14 5 105 32.3 Yugoslavia, Federal Republic of Other 18 10 21 96 114 247 38 544 39.1 Other 30 35 52 46 89 1 023 115 1390 49.7 Total 138 130 337 693 1 985 6 421 575 10 279 44.9 North Africa and the Middle East Egypt 5 5 18 50 100 188 22 388 40.6 Iran 5 3 12 13 3 — 7		13	16								
Russian Federation 11 12 14 17 23 169 27	9	_	_	-							
Spain 4 — 6 21 54 14 5 105 32.3 Yugoslavia, Federal Republic of Other 18 10 21 96 114 247 38 544 39.1 Other 30 35 52 46 89 1 023 115 1390 49.7 Total 138 130 337 693 1 985 6 421 575 10279 44.9 North Africa and the Middle East Egypt 5 5 18 50 100 188 22 388 40.6 Iran 5 3 12 13 3 — 7 44 (a) Israel — — 3 11 6 38 — 63 (a) Lebanon 3 20 44 101 54 90 32 344 29.3 Syria — 3 —											
Yugoslavia, Federal Republic of Other 18 10 21 96 114 247 38 544 39.1 Other 30 35 52 46 89 1 023 115 1 390 49.7 Total 138 130 337 693 1 985 6 421 575 10 279 44.9 North Africa and the Middle East Egypt 5 5 18 50 100 188 22 388 40.6 Iran 5 3 12 13 3 7 44 (a) Israel - - 3 11 6 38 63 (a) Lebanon 3 20 44 101 54 90 32 344 29.3 Syria - 3 - 9 9 - - 25 (a) Turkey - 7 16											
Other Total 30 35 52 46 89 1 023 115 1 390 49.7 North Africa and the Middle East Egypt 5 5 18 50 100 188 22 388 40.6 Iran 5 3 12 13 3 7 44 (a) Israel - 3 11 6 38 63 (a) Lebanon 3 20 44 101 54 90 32 344 29.3 Syria - 3 - 9 9 - - 25 (a) Turkey - 7 16 61 31 38 7 162 29.3 Other 11 9 19 20 19 22 13 113 27.3	•										
North Africa and the Middle East 5 138 130 337 693 1 985 6 421 575 10 279 44.9 North Africa and the Middle East Segypt 5 5 18 50 100 188 22 388 40.6 Iran 5 3 12 13 3 - 7 44 (a) Israel - - 3 11 6 38 - 63 (a) Lebanon 3 20 44 101 54 90 32 344 29.3 Syria - 3 - 9 9 - - 25 (a) Turkey - 7 16 61 31 38 7 162 29.3 Other 11 9 19 20 19 22 13 113 27.3	•										
Egypt 5 5 18 50 100 188 22 388 40.6 Iran 5 3 12 13 3 — 7 44 (a) Israel — — 3 11 6 38 — 63 (a) Lebanon 3 20 44 101 54 90 32 344 29.3 Syria — 3 — 9 9 — — 25 (a) Turkey — 7 16 61 31 38 7 162 29.3 Other 11 9 19 20 19 22 13 113 27.3											
Egypt 5 5 18 50 100 188 22 388 40.6 Iran 5 3 12 13 3 — 7 44 (a) Israel — — 3 11 6 38 — 63 (a) Lebanon 3 20 44 101 54 90 32 344 29.3 Syria — 3 — 9 9 — — 25 (a) Turkey — 7 16 61 31 38 7 162 29.3 Other 11 9 19 20 19 22 13 113 27.3	North Africa and the Middle East										
Iran 5 3 12 13 3 - 7 44 (a) Israel - - 3 11 6 38 - 63 (a) Lebanon 3 20 44 101 54 90 32 344 29.3 Syria - 3 - 9 9 - - 25 (a) Turkey - 7 16 61 31 38 7 162 29.3 Other 11 9 19 20 19 22 13 113 27.3		5	5	18	50	100	188	22		388	40.6
Israel — — 3 11 6 38 — 63 (a) Lebanon 3 20 44 101 54 90 32 344 29.3 Syria — 3 — 9 9 — — 25 (a) Turkey — 7 16 61 31 38 7 162 29.3 Other 11 9 19 20 19 22 13 113 27.3											
Lebanon 3 20 44 101 54 90 32 344 29.3 Syria - 3 - 9 9 - - 25 (a) Turkey - 7 16 61 31 38 7 162 29.3 Other 11 9 19 20 19 22 13 113 27.3		_					38				. ,
Syria — 3 — 9 9 — — 25 (a) Turkey — 7 16 61 31 38 7 162 29.3 Other 11 9 19 20 19 22 13 113 27.3		3	20					32			
Turkey — 7 16 61 31 38 7 162 29.3 Other 11 9 19 20 19 22 13 113 27.3		_		_			_				
Other 11 9 19 20 19 22 13 113 27.3	•	_		16			38	7			
Total 28 46 114 265 222 379 85 1 139 31.8	· · · · · · · · · · · · · · · · · · ·	11						13			
	Total	28	46	114	265	222	379	85		1 139	31.8

⁽a) Not statistically reliable due to the small numbers involved.

^{. .} not applicable

⁻ nil or rounded to zero (including null cells)

4.10 DEATHS, by Country of Birth and Duration of Residence continued

DURATION OF RESIDENCE

	0–4	5–9	10–19	20–29	30–39	40 and over	Not stated a	Not applicable	Total	Median duration
Country of birth	no.	no.	no.	no.	no.	no.	no.	no.	no.	years
			• • • • •							
South-East Asia										
Cambodia	3	8	30	3	_	_	3		48	(a)
Indonesia	17	15	42	18	17	56	19		184	23.5
Laos	_	_	16	12	_	_	4		34	(a)
Malaysia	16	13	61	34	10	15	11		160	16.6
Philippines	24	29	93	28	9	3	22		206	12.3
Singapore	26	_	19	15	9	13	3		86	(a)
Thailand	4	4	10	6	_	3	3		31	(a)
Viet Nam	15	81	147	51	_	3	14		310	14.3
Other	4	3	8	27	23	16	3		84	(a)
Total	110	156	426	194	72	105	80		1 143	16.2
North-East Asia										
China (exc SARs & Taiwan Province)	61	70	250	101	45	131	56		714	17.3
Hong Kong (SAR of China)	4	7	27	12	7	15	15		87	(a)
Japan	10	3	8	_	5	12	16		54	(a)
Korea, Republic of (South)	13	8	33	14	_	_	16		84	(a)
Other	8	4	11	_	_	_	4		27	(a)
Total	96	92	329	127	57	158	107		966	16.4
Southern and Central Asia										
India	30	26	68	134	92	146	24		520	29.6
Pakistan	3	3	6	3	4	5	3		22	(a)
Sri Lanka	20	19	46	52	41	33	23		234	27.0
Other	5	8	11	6	_	_	_		33	(a)
Total	57	54	131	194	138	184	51		809	28.2
Americas										
Argentina	3	_	8	16	8	7	3		45	(a)
Canada	6	3	15	24	29	70	18		165	38.8
Caribbean	_	_	5	4	3	_	2		15	(a)
Central America	_	7	11	3	3	_	3		27	(a)
Chile	_	5	26	20	_	_	3		55	(a)
United States of America	13	12	28	56	42	77	50		278	30.6
Uruguay	3	3	12	19	_	_	5		41	(a)
Other	5	3	5	13	9	6	_		43	(a)
Total	29	33	110	155	96	161	85		669	28.3
Sub-saharan Africa										
Kenya	3	_	_	5	5	3	3		19	(a)
Mauritius	_	3	20	24	30	4	3		84	(a)
South Africa	20	10	82	38	40	64	29		283	22.8
Zimbabwe	4	3	9	3	8	3	5		32	(a)
Other	4	7	9	12	16	8	3		59	(a)
Total	31	21	122	82	99	79	43		477	26.1
Other and not stated	4	_	3	4	7	30	779		827	(a)
Total	897	890	3 129	3 791	6 312	17 544	3 769	91 770	128 102	41.8

......

⁽a) Not statistically reliable due to the small numbers involved.

^{..} not applicable

[—] nil or rounded to zero (including null cells)

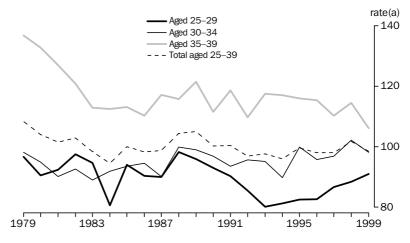
INTRODUCTION

Over the past 10 years, declining death rates have increased the Australian life-expectancy at birth by around 3 years for males and 2 years for females. While overall death rates have declined by around one-fifth since 1989, the death rates for people aged 25–39 years have not undergone the same general decline. In 1999, 4,300 deaths (3% of all deaths) occurred in this age group.

Since 1989, the age-specific death rate (ASDR) among 25–39 year olds decreased by 6% overall, from 105 per 100,000 in 1989 to 99 per 100,000 in 1999. The decrease in the male death rate (7%) was more than double that of the female death rate (3%). Those aged 30–34 years had the smallest improvement in the death rate over the 1989–99 period. Females aged 30–34 years were the only group for which death rates did not decline (increasing by 0.1%). The death rate for males in this age group decreased by just under 1%. Persons aged 25–29 years had the second smallest improvement, with death rates for both males and females decreasing by 5%.

The ASDR for persons aged 25–39 has not declined steadily over time. Since a peak of 108 deaths per 100,000 population in 1979, the death rate dropped to a low of 95 per 100,000 population in 1984 before rising again to 105 per 100,000 population in 1989. These continuing fluctuations mean that the death rates registered for this age group in 1999 are little different to those which occurred throughout much of the 1980s and 90s.

AGE-SPECIFIC DEATH RATES, Persons Aged 25-39-1979-1999

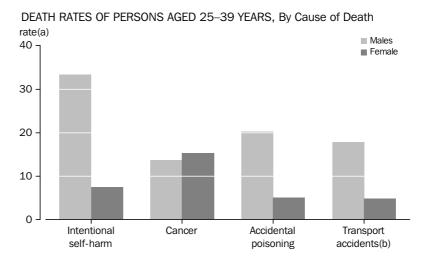


(a) ASDR per 100,000 population.

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LEADING CAUSES OF DEATH1

In 1999, the leading causes of death among 25–39 year olds were intentional self-harm (21% of all deaths), malignant neoplasms (cancer) (15% of all deaths), accidental poisoning by, and exposure to, noxious substances (accidental poisoning) (13% of all deaths) and transport accidents (excluding water, air and space accidents) (12% of all deaths). For each of these except cancer, the death rate for males was considerably higher than that for females, consistent with the fact that the ASDR for males in this age group was approximately two and a half times that for females.



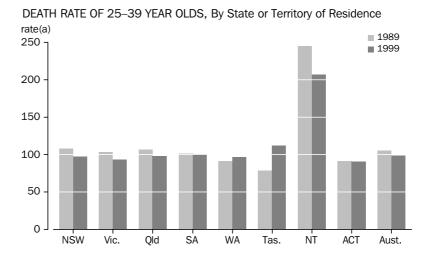
- (a) ASDR per 100,000 male or female population aged 25-39 years.
- (b) Excluding water, air and space accidents.

Overall, males accounted for more than 70% of all deaths in this age group. Among the leading causes of death, males comprised 82% of all deaths due to intentional self-harm, 80% of deaths due to accidental poisoning and 78% of deaths due to transport accidents, but less than half (47%) of all cancer deaths.

STATE OR TERRITORY

In 1999, death rates for 25–39 year olds varied among the States and Territories. The ASDR for this age group was lowest in the ACT (91 per 100,000 population) and Victoria (94 per 100,000 population), 8% and 5% lower than the Australian rate of 99 per 100,000 population. The highest death rate was recorded in the Northern Territory (207 per 100,000 population), which was more than twice the Australian rate despite a 15% decrease since 1989 (245 per 100,000 population). Tasmania had the second highest death rate in this age group, increasing 43% from 78 per 100,000 population in 1989 (the lowest death rate in that year) to 112 per 100,000 population in 1999. This was comprised of almost identical increases in both male and female death rates. Western Australia was the only other State to register an increase in the death rate over this period, rising from 91 per 100,000 population in 1989 to 96 per 100,000 in 1999. This increase reflected a 25% increase in the female death rate, rising from 43 per 100,000 female population to 54 per 100,000; the death rate for Western Australian males remained virtually unchanged.

ICD codes 10th revision: Intentional self-harm (X60–X84), cancer (C00–C97), transport accidents (excluding water, air and space accidents) (V01–V89), and accidental poisoning by, and exposure to, noxious substances (X40–X49).



(a) ASDR per 100,000 male or female population aged 25–39 years.

Consistent with the high national death rate for intentional self-harm, this was the leading cause of death for persons aged 25–39 years in most States and Territories during 1999. Tasmania had the highest rate at 31 per 100,000 population, compared with the Australian death rate of 20 per 100,000 population. Although deaths attributable to intentional self-harm were lowest in the ACT (17 per 100,000 population), it was still the leading cause of death in that region.

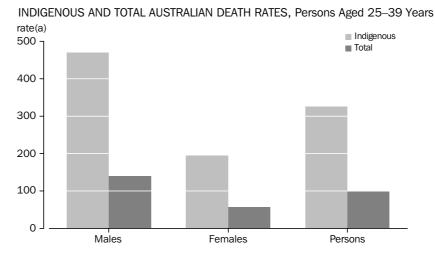
In Victoria, accidental poisoning by, and exposure to, noxious substances was the leading cause of death (21 per 100,000 population, compared with the Australian rate of 13 per 100,000 population). Victorian males and females each registered the highest rates for accidental poisoning, at 33 per 100,000 male population and 10 per 100,000 female population respectively. Transport accidents (excluding water, air and space accidents) were the leading cause of death in the Northern Territory at 27 per 100,000 population, more than double the Australian rate (11 per 100,000). This reflected a particularly high male death rate of 45 per 100,000 male population, compared with 18 per 100,000 for males in this age group Australia-wide.

For females, cancer was the leading cause of death in all States and Territories, accounting for between 14% (in the Northern Territory) and 41% (in the ACT) of all female deaths in this age group.

INDIGENOUS DEATHS1

The general contrast in the health and social conditions between the Indigenous and total population is highlighted by the significantly higher death rates among Indigenous Australians. Based on registered deaths in 1999, the ASDRs for Indigenous males and females aged 25–39 were more than three times higher than the corresponding ASDRs for total Australian males and females in this age group.

Rates in this section are calculated using the 1996-based Indigenous population projections (low series). See Experimental Projections of the Aboriginal and Torres Strait Islander Population 1996–2006 (Cat. no. 3231.0).



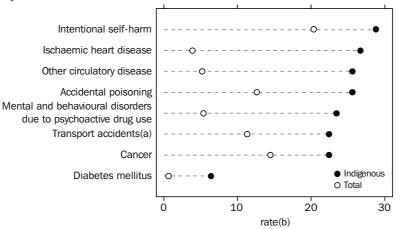
(a) ASDR per 100,000 male or female population aged 25-39 years.

The causes of Indigenous deaths are less concentrated than for total Australian deaths. Whereas 60% of all deaths of persons aged 25–39 could be attributed to four leading causes, the four top causes of Indigenous deaths accounted for just 32% of all Indigenous deaths. As with the total Australian population, intentional self-harm was the leading cause of death among Indigenous 25–39 year olds, accounting for 9% of all Indigenous deaths in this age group (11% of Indigenous male deaths and 4% of Indigenous female deaths). The 25–39 years ASDR for intentional self-harm was 29 deaths per 100,000 Indigenous population, compared with 20 deaths per 100,000 population in total.

The second leading cause of death among Indigenous 25–39 year olds was ischaemic heart disease, accounting for 8% of all Indigenous deaths. For Indigenous males, the ischaemic heart disease death rate was 49 deaths per 100,000 Indigenous male population, around 8 times the corresponding death rate for all males aged 25–39 years (6 per 100,000 male population). For Indigenous females, the ischaemic heart disease rate of 6 deaths per 100,000 Indigenous female population was almost four times greater than the rate for all females aged 25–39 years (2 per 100,000 female population). Overall, circulatory diseases (including ischaemic heart disease) were responsible for 16% of all deaths of Indigenous 25–39 year olds. In contrast, circulatory diseases caused 9% of total deaths in this age group.

Accidental poisoning by, and exposure to, noxious substances was the third leading cause of death for Indigenous persons aged 25–39, although the disparity between the Indigenous death rate and total death rate was less marked than for ischaemic heart disease. The accidental poisoning death rates for Indigenous males and females (43 per 100,000 male Indigenous population and 10 per 100,000 female Indigenous population, respectively) were each approximately double the corresponding death rates for all males and all females in this age group (20 per 100,000 male population and 5 per 100,000 female population, respectively). Indigenous persons also had relatively high death rates for mental and behavioural disorders due to psychoactive substance use, which was the fourth leading causing of death among Indigenous 25–39 year olds. The 25–39 years Indigenous death rate of 23 per 100,000 Indigenous population was more than four times that for all Australians in this age group (5 per 100,000 population).

INDIGENOUS AND TOTAL AUSTRALIAN DEATH RATES, Persons Aged 25–39 Years—By Cause of Death



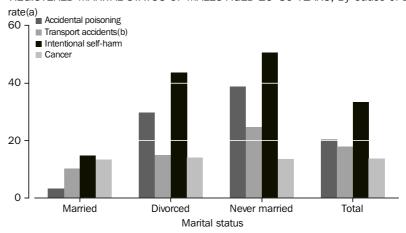
- (a) Excluding water, air and space accidents.
- (b) ASDR per 100,000 population aged 25-39 years.

MARITAL STATUS

Death rates for both males and females were highest among those who were never married or divorced. In 1999, married people comprised 57% of the population aged 25–39 years, while never married people made up 37% and divorced people made up 6%. Compared to the total male death rate for this age group, males who were never married had a death rate around 50% higher and divorced males had a death rate 29% higher. Among females, the death rate of the never married group was 43% higher than the overall female death rate, while the divorced female death rate was 60% higher. In contrast, males and females who were married had death rates that were 48% and 33% lower than the respective total death rates in this age group.

Among never married males, deaths due to accidental poisoning, transport accidents and intentional self-harm were each higher than the corresponding rates for other males (90%, 38% and 52% higher respectively than for all males in this age group). Deaths due to cancer were evenly distributed across each marital status group.

REGISTERED MARITAL STATUS OF MALES AGED 25-39 YEARS, By Cause of Death

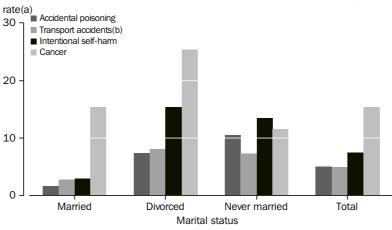


- (a) ASDR per 100,000 male population aged 25-39 years by marital status.
- (b) Excluding water, air and space accidents.

MARITAL STATUS continued

Divorced females had the highest overall female death rate, registering particularly high death rates for cancer (66% higher than the total female cancer death rate) and intentional self-harm (more than double the total rate). Never married females had the highest rate for deaths due to accidental poisoning, approximately double the rate for all females in this age group. Both divorced and never married females had death rates around one and a half times the overall female death rate for transport accident deaths. Cancer was the only major cause of death for which married females had a similar rate to the overall rate.

REGISTERED MARITAL STATUS OF FEMALES AGED 25-39 YEARS, By Cause of Death

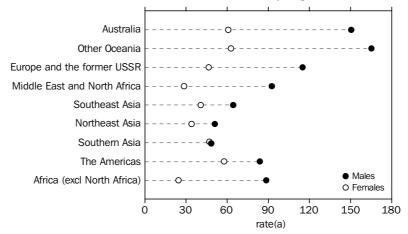


- (a) ASDR per 100,000 female population aged 25–39 years by marital status.
- (b) Excluding water, air and space accidents.

COUNTRY OF BIRTH

In 1999, Australian-born persons aged 25–39 years were slightly over-represented among death registrations. While 75% of the population aged 25–39 years were Australian-born, they comprised 81% of all deaths in this age group. Australian-born males comprised 81% of all male deaths and Australian-born females comprised 80% of all female deaths. Consequently, the death rate for Australian-born men was 151 per 100,000 Australian-born male population, around 8% higher than the overall male death rate of 140 deaths per 100,000 male population. Similarly, the death rate for Australian-born females (61 per 100,000 Australian-born female population) was almost 7% higher than the overall female death rate (57 per 100,000 female population).

DEATH RATES OF PERSONS AGED 25-39 YEARS, By Region of Birth

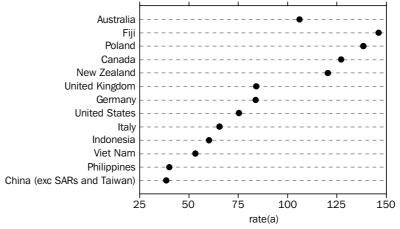


(a) ASDR per 100,000 male ore female population aged 25–39 years by region of birth.

COUNTRY OF BIRTH continued

Persons born in countries including New Zealand, Canada, Poland and Fiji had death rates in excess of those of Australian-born persons. The death rate for persons born in Fiji (146 per 100,000 Fijian-born) was 38% higher than the rate for Australian-born, and 48% higher than the total death rate in this age group. In contrast, persons from Asian countries generally had much lower death rates than the Australian-born population. For example China (39 per 100,000 Chinese-born population), the Philippines (40 per 100,000 Philippines-born population) and Viet Nam (53 per 100,000 Vietnamese-born population) were all well below the Australian-born rate of 106 per 100,000 Australian-born population.

DEATH RATES OF PERSONS AGED 25-39 YEARS, By Selected Countries of Birth



(a) ASDR per 100,000 population aged 25–39 years by country of birth.

The over-representation of Australian-born persons in deaths statistics is not limited to the 25–39 year old age group. Death registrations for 1999 indicate that the death rates of migrants living in Australia are generally lower than the death rates of the Australian-born population, and the population in total. This suggests that the strict eligibility criteria applied to immigrants contribute to the selection of a particularly healthy and resilient group of people (see Section 4).

SECTION 5

INFANT DEATHS

INFANT DEATHS

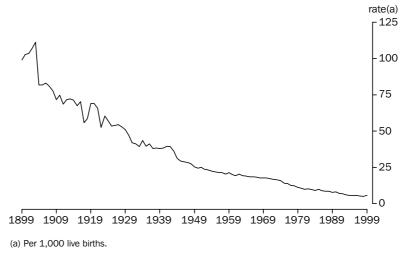
In 1999, 1,400 infants deaths (deaths of children less than one year of age) were registered in Australia. This was an increase of 12% on the number registered in 1998 (1,300). However, the long-term trend in infant deaths is one of decline. The number of infant deaths registered in 1999 was 30% lower than the number registered in 1989 (2,000), and 44% lower than in 1979 (2,500).

The infant mortality rate (IMR) of 5.7 deaths per 1,000 live births in 1999 was 14% higher than in 1998, reflecting the increase in the number of infant deaths in 1999, together with a decline in the number of births. The 1999 IMR was 29% lower than in 1989 (8.0 deaths per 1,000 live births), and 50% lower than in 1979 (11.4 deaths per 1,000 live births).

For the second consecutive year South Australia had the lowest IMR, 4.3 in 1999. The Northern Territory IMR of 11.7 was the highest of the States and Territories, but was below the 1998 level of 12.4. New South Wales, Tasmania and the Northern Territory had IMRs above the national level in 1999, while Queensland matched the national level. Compared to 1989, the largest decrease in the IMR (42%, from 7.4 to 4.3) occurred in South Australia, while the smallest decrease occurred in both Victoria and the ACT (each declining 14% from 6.5 to 5.6).

In the last 100 years, Australia's infant mortality has declined by 94%. In 1899, 1 in 10 infants born did not survive to their first birthday (IMR of 99). Today, only 1 in 177 infants born will not survive their first year of life (IMR of 5.7). The early decline in infant mortality has been linked to improvements in public sanitation and health education. Later declines may be a consequence of the introduction of universal health insurance (Medicare) and improvements in medical technology, such as neonatal intensive care units (Taylor et al. 1998).

INFANT MORTALITY RATE, 1899—1999



SEX

Over the last twenty years male infant deaths have consistently outnumbered female infant deaths. In 1999, male infant deaths (812) outnumbered female infant deaths (596) by 36%. However as male births outnumbered female births by 5% the difference in the IMR was 31%, with 6.4 male and 4.9 female deaths per 1,000 live births. In the last twenty years the male IMR has been consistently higher than the female IMR (by between 18% and 33%), reflecting the greater vulnerability of male infants to death (Waldron, 1983).

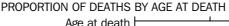
LEADING CAUSES OF INFANT DEATHS

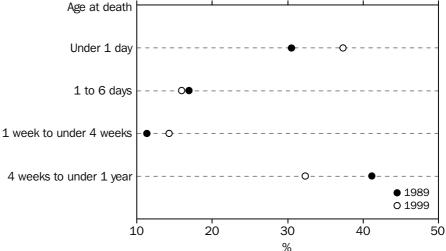
In 1999 the leading cause of infant deaths was the group of conditions classified as 'certain conditions originating in the perinatal period'. This group of causes (which includes disorders relating to short gestation, birth trauma and respiratory distress) was responsible for 640 deaths or 45% of the total infant deaths. Over half (56%) of these deaths were due to maternal conditions and complications of pregnancy, labour and delivery. Congenital malformations, deformations and chromosomal abnormalities were responsible for 30% (430) of infant deaths, while sudden infant death syndrome (SIDS) was responsible for 11% (160) of all infant deaths. In contrast, SIDS contributed to 23% of all infant deaths in 1989.

AGE AT DEATH

In 1999, 37% of all infant deaths occurred within the first day from birth, with a further 30% of all infant deaths occurring in the remainder of the neonatal period (first four weeks of life). Between 1989 and 1999, declines in infant deaths have not been uniform across different age-groups. Deaths that occurred between one month and one year of age experienced the greatest decline over the ten year period (45%), followed by deaths of infants aged one day to six days (34% decline). Smallest reductions were evident in the age groups one week to under four weeks (11% decline) and under one day (14% decline).

A higher proportion of infant deaths occurred within the first day of life in 1999 (37%) compared with 1989 (30%). Conversely, a lower proportion of deaths occurred between one month and one year of age in 1999 (32%) compared with 1989 (41%).





5.1 INFANT DEATHS, By Age at Death and Sex

	NEONAT	⁻ AL	POST NEONATAL	TOTAL							
	Early neonatal			Late neonatal	Total						
			Total	One week		Four weeks					
	Under	One day	under	and under	Under four	and under	Under				
Selected years	one day	to six days	one week	four weeks	weeks	one year	one year				
MALES											
1979	528	270	798	148	946	495	1 441				
1984	409	212	621	135	756	502	1 258				
1989	345	183	528	125	653	483	1 136				
1994	326	153	479	107	586	280	866				
1995	313	118	431	107	534	273	807				
1996	313	133	446	100	546	297	843				
1997	262	132	394	91	485	259	744				
1998	228	132	360	114	474	232	706				
1999	293	148	441	112	553	259	812				
	• • • • • •	• • • • • • • •	FEMALES		• • • • • • • •		• • • • • •				
1979	435	194	629	112	741	352	1 093				
1984	309	128	437	91	528	376	904				
1989	266	157	423	103	526	342	868				
1994	238	113	351	71	422	224	646				
1995	241	97	338	85	423	219	642				
1996	244	92	336	82	418	199	617				
1997	239	94	333	81	414	183	597				
1998	198	83	281	87	368	178	546				
1999	233	77	310	90	400	196	596				
	• • • • • •	• • • • • • • •	PERSONS		• • • • • • • •		• • • • • •				
1070	000	404	4 40=	200	4 007	0.4=	0.504				
1979	963	464	1 427	260	1 687	847	2 534				
1984	718	340	1 058	226	1 284	878	2 162				
1989	611	340	951	228	1 179	825	2 004				
1994	564	266	830	178	1 008	504	1 512				
1995	554	215	769	188	957	492	1 449				
1996	557	225	782	182	964	496	1 460				
1997	501	226	727	172	899	442	1 341				
1998	426	215	641	201	842	410	1 252				
1999	526	225	751	202	953	455	1 408				

...

5.2 INFANT MORTALITY RATES(a), By Age at Death and Sex

	POST NEONATAL	TOTAL								
	Early neona	tal		Late neonatal	Total					
			Total	One week		Four weeks				
	Under	One day	under	and under	Under four	and under	Under			
Selected years	one day	to six days	one week	four weeks	weeks	one year	one year			
MALES										
1979	4.6	2.4	7.0	1.3	8.3	4.3	12.6			
1984	3.4	1.8	5.2	1.1	6.3	4.2	10.5			
1989	2.7	1.4	4.1	1.0	5.1	3.8	8.8			
1994	2.5	1.2	3.6	0.8	4.4	2.1	6.5			
1995	2.4	0.9	3.3	0.8	4.1	2.1	6.1			
1996	2.4	1.0	3.4	0.8	4.2	2.3	6.5			
1997	2.0	1.0	3.1	0.7	3.8	2.0	5.8			
1998	1.8	1.0	2.8	0.9	3.7	1.8	5.5			
1999	2.3	1.2	3.5	0.9	4.3	2.0	6.4			
			FEMALES							
1979	4.0	1.8	5.8	1.0	6.8	3.2	10.1			
1984	2.7	1.1	3.8	0.8	4.6	3.3	7.9			
1989	2.2	1.3	3.5	0.8	4.3	2.8	7.1			
1994	1.9	0.9	2.8	0.6	3.4	1.8	5.2			
1995	1.9	0.8	2.7	0.7	3.4	1.8	5.1			
1996	2.0	0.7	2.7	0.7	3.4	1.6	5.0			
1997	1.9	0.8	2.7	0.7	3.4	1.5	4.9			
1998	1.6	0.7	2.3	0.7	3.0	1.5	4.5			
1999	1.9	0.6	2.6	0.7	3.3	1.6	4.9			
• • • • • • • • • • • • • • • • • •										
			PERSONS							
1979	4.3	2.1	6.4	1.2	7.6	3.8	11.4			
1984	3.1	1.5	4.5	1.0	5.5	3.8	9.2			
1989	2.4	1.4	3.8	0.9	4.7	3.3	8.0			
1994	2.2	1.0	3.2	0.7	3.9	2.0	5.9			
1995	2.2	0.8	3.0	0.7	3.7	1.9	5.7			
1996	2.2	0.9	3.1	0.7	3.8	2.0	5.8			
1997	2.0	0.9	2.9	0.7	3.6	1.8	5.3			
1998	1.7	0.9	2.6	0.8	3.4	1.6	5.0			
1999	2.1	0.9	3.0	0.8	3.8	1.8	5.7			

⁽a) Per 1,000 live births.

......

5.3 INFANT DEATHS, States and Territories

Selected years NSW Vic. Qld SA WA Tas. NT ACT Aust.(a)

 166
 249
 99

 152
 232
 84

 146
 195
 72

 2 534 41 2 162 27 2 004 50 41 21 1 512 1 449 1 460 16 1 341 73 123 42 1 252 1 408

5.4 INFANT MORTALITY RATES(a), States and Territories

Selected years	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust.(b)	
	• • • • • • •	• • • • • •	• • • • • • •	• • • • • •	• • • • • •	• • • • • • •		• • • • • •		
1979	11.6	11.0	10.7	9.0	12.1	14.6	21.8	11.3	11.4	
1984	9.2	8.8	9.0	7.6	10.7	11.8	13.8	10.0	9.2	
1989	8.7	6.5	8.5	7.4	7.8	10.6	14.5	6.5	8.0	
1994	6.3	5.1	6.2	4.7	5.6	7.5	11.3	4.7	5.9	
1995	5.7	4.9	6.3	5.8	5.1	5.8	13.3	4.8	5.7	
1996	5.8	5.0	6.4	4.9	6.5	4.5	11.5	5.7	5.8	
1997	5.2	4.9	5.8	4.7	5.3	6.5	12.5	3.8	5.3	
1998	4.3	4.7	6.4	4.0	5.0	5.7	12.4	6.0	5.0	
1999	5.8	5.6	5.7	4.3	4.7	7.6	11.7	5.6	5.7	

⁽a) Per 1,000 live births.

⁽a) Includes Other Territories.

⁽b) Includes Other Territories.

5.5 INFANT DEATHS, By Age at Death and Sex—States and Territories

POST NEONATAL.... NEONATAL TOTAL Late Early neonatal..... neonatal Total Total One week Four weeks Under One day under and under Under four and under Under one day to six days one week four weeks weeks one year one year MALES
 166
 43
 209

 106
 24
 130

 80
 16
 96

 21
 3
 24
 New South Wales Victoria Queensland South Australia 15 35 6 14 — 11 4 6 4 Western Australia 17 Tasmania Northern Territory Australian Capital Territory Australia(a) FEMALES New South Wales Victoria Oueensland South Australia Western Australia Tasmania 5 3 8 Northern Territory Australian Capital Territory Australia(a) 77 310

[—] nil or rounded to zero (including null cells)

⁽a) Includes Other Territories.

5.6 INFANT MORTALITY RATES(a), By Age at Death—States and Territories

POST NEONATAL.... NEONATAL TOTAL Late Early neonatal..... neonatal Total Total One week Four weeks Under One day under and under Under four and under Under one day to six days one week four weeks weeks one year one year
 2.2
 1.0
 3.3
 0.8
 4.1
 1.7

 2.4
 0.9
 3.3
 0.7
 4.1
 1.5

 1.9
 0.8
 2.7
 0.7
 3.4
 2.3

 1.3
 0.4
 1.7
 0.4
 2.2
 2.2

 1.6
 0.8
 2.4
 0.8
 3.2
 1.5

 2.2
 1.5
 3.6
 1.8
 5.5
 2.2

 4.2
 1.1
 5.3
 2.8
 8.1
 3.6

 1.9
 1.2
 3.1
 1.6
 4.7
 0.9
 New South Wales 5.8 Victoria 5.6 Queensland 5.7 5.7 4.3 4.7 7.6 11.7 South Australia Tasmania
Northern Territory
Australias 0 Western Australia Australian Capital Territory 5.6 2.1 0.9 3.0 0.8 3.8 Australia(b) 1.8 5.7

 [—] nil or rounded to zero (including null cells)

⁽a) Per 1,000 live births.

⁽b) Includes Other Territories.

SECTION 6

INTRODUCTION

There were 1,980 deaths registered in 1999 where the deceased person was identified as being of Aboriginal, Torres Strait Islander or both origins (Indigenous). Although it is considered likely that most Indigenous deaths are registered, a significant proportion of these deaths are not registered as 'Indigenous'. Therefore, the 1,980 registered Indigenous deaths is an underestimate of the true number of such deaths. The issue and estimated extent of undercoverage of Indigenous deaths is addressed later in this section and summarised in table 6.1.

INDIGENOUS MORTALITY

In 1999, over two times more Indigenous deaths were registered than would have been expected if the age-specific death rates of the total Australian population were experienced throughout the Indigenous population. The indirect standardised death rate (ISDR) for the Indigenous population was 14 deaths per 1,000 population compared to 6 deaths per 1,000 for the total population. Due to the undercoverage of Indigenous deaths Australia-wide, estimates of the disparity between Indigenous and non-Indigenous mortality are likely to be conservative.

While overall mortality is higher among males than females, this difference was greater among the Indigenous population. The Indigenous male ISDR (18 per 1,000 population) was 65% higher than the Indigenous female ISDR (11 per 1,000). Among the total population the male IDSR (7 per 1,000) was 44% higher than the female ISDR (5 per 1,000).

EXPECTATION OF LIFE

Differences in Indigenous and total mortality are also reflected in significantly lower life expectancy among Indigenous people. Based on experimental life tables it is estimated that Indigenous males born in 1997–1999 could be expected to live to about 56 years, 20 years less than life expectancy for total males (76 years), while Indigenous females could be expected to live to about 63 years, around 18 years less than the life expectancy for all females (82 years). The 1997–1999 based Indigenous life expectancies at birth are similar to those experienced among the total male population in 1901–1910, (55 years) and the total female population in 1920–1922 (63 years).

The experimental life tables indicate that life expectancy at birth for Indigenous males in 1997–99 ranged from 54 years in South Australia to 56 years in most States. For Indigenous females, life expectancy at birth ranged from 62 years in the Northern Territory to 65 years in Victoria. From 1990–1992 to 1997–1999 there appears to be some improvement in life expectancy in South Australia, Western Australia and the Northern Territory.

EXPECTATION OF LIFE continued

EXPERIMENTAL ESTIMATES OF LIFE EXPECTANCY AT BIRTH, Indigenous(a)

	NSW(b)	Vic.	Qld	SA	WA	NT	Aust.(c)
		MAL	.ES				
1990-1992(d)	n.a.	n.a.	n.a.	51.2	53.4	54.1	n.a.
1990-1992(e)	n.a.	n.a.	n.a.	52.5	55.0	54.9	n.a.
1995–1997	n.a.	n.a.	n.a.	53.7	55.7	55.5	n.a.
1997–1999	55.6	56.1	55.9	54.4	54.9	56.3	55.6
		FEMA	LES				
1990-1992(d)	n.a.	n.a.	n.a.	57.7	58.7	58.3	n.a.
1990-1992(e)	n.a.	n.a.	n.a.	59.3	60.9	59.7	n.a.
1995–1997	n.a.	n.a.	n.a.	62.8	62.3	61.5	n.a.
1997-1999	64.0	65.2	62.5	62.5	62.8	61.4	63.0

n.a. not available

- (a) See Section 7 and Appendix 1 for a detailed discussion of Indigenous life tables.
- (b) Based on deaths for 1998 and 1999.
- (c) Excludes Tasmania and the Australian Capital Territory.
- (d) Derived using the experimental Indigenous ERP at June 1991 (1991 Census based) as the mid-year population.
- (e) Derived using the experimental Indigenous ERP at June 1991 (1996 Census based) as the mid-year population.

While the experimental Indigenous lifetables show change over-time care should be taken drawing inferences from this data. See Section 7 and Appendix 1 for further information about the experimental Indigenous life tables.

AGE AT DEATH

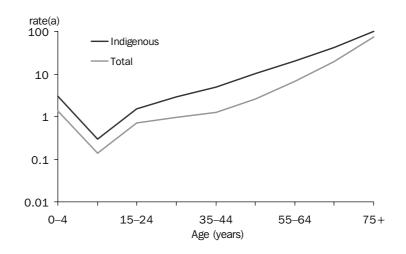
A high proportion of registered Indigenous deaths in 1999 were among young people. The median age at death for Indigenous people was 53 years in 1999, around 25 years less than the median age at death of total persons (78 years). Indigenous males had a median age at death of 49 years, 10 years less than Indigenous female (59 years).

The median age at death among Indigenous males in 1999 was highest in New South Wales (51 years), while the median age at death among Indigenous females was highest in Victoria (65 years). The lowest median age at death among both Indigenous males and females was experienced in South Australia (47 years and 51 years respectively).

Age-specific death rates for the Indigenous population were substantially higher than for the total population in all age groups in 1999. The greatest difference in the rates was in the age group 45–54 years, where the Indigenous age-specific death rate was nearly 300% greater than the total Australian age-specific death rate.

AGE AT DEATH continued

AGE-SPECIFIC DEATH RATES



(a) Logarithmic scale.

It is difficult to assess trends in Indigenous mortality over time, due to changes in coverage of Indigenous deaths. Combining data for South Australia, Western Australia and the Northern Territory only, where coverage is estimated to have been reasonably high, indicates that compared with 5 years ago age-specific death rates for Indigenous deaths have declined in all age groups except 15–24 years and 45–54 years. In these age groups death rates have increased by 19% and 1% respectively since 1994.

AGE-SPECIFIC DEATH RATES, Indigenous(a)

	1994	1999
• • • • • • • • • • • • • •		
0–4	4.4	3.9
5–14	0.4	0.4
15–24	1.8	2.2
25–34	4.4	4.0
35–44	8.1	7.1
45–54	15.0	15.2
55–64	34.0	26.2
65–74	62.9	48.7
75 and over	116.9	102.7

(a) For South Australia, Western Australia and the Northern Territory combined.

INFANT DEATH

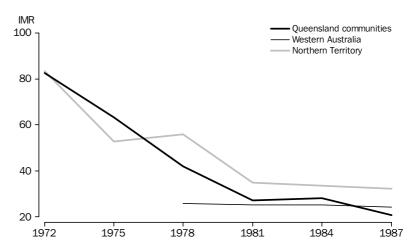
As with other age groups, the Indigenous infant mortality rate was higher than the total infant mortality rate. The 1999 Indigenous infant mortality rate (IMR) was 14.1 deaths per 1,000 live births, two and a half times the total IMR (5.7), and was comparable with the IMR experienced in Eastern Europe (14) (PRB, 2000). The highest Indigenous IMRs were experienced in the Northern Territory (19.0), Victoria (17.3) and Western Australia (16.7), while the lowest Indigenous IMR was experienced in South Australia (7.8).

INFANT DEATHS continued

The statistical coverage of Indigenous births throughout Australia has similar deficiencies as the deaths collection, although the level of 1999 births coverage is estimated to be around 106% on 1991 based expectancies and 90% on the 1996 based expectancies (*Births Australia* 1999, ABS Cat no. 3301.0). Given that the level of estimated Indigenous births coverage is higher than the deaths coverage on both 1991 and 1996 Census based projections, the Indigenous IMRs presented here may be a conservative estimate.

Although remaining at high levels in comparison to total infant mortality, studies indicate that Indigenous infant mortality has declined over time. From a rate of around 138 infant deaths per 1,000 live births in 1965, Indigenous infant mortality declined to around 26 per 1,000 in 1981. This major decline in Indigenous infant mortality may have coincided with improvements in community infrastructure and the development, in the 1970s, of intensive Indigenous health programs and services, many of which included a focus on maternal and child health (Taylor, 1997).

INDIGENOUS INFANT MORTALITY RATES(a)



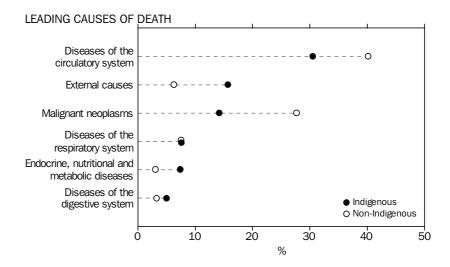
(a) Infant deaths per 1,000 live births. Data are based on the three years surrounding the year labelled, except for 1972 which relates to the two year period 1972–73.

Source: Thomson, N. (1990).

CAUSES OF DEATH

The high mortality of the Indigenous population is evident through all leading causes of death. The leading causes of death for the Indigenous population differ from the total population, reflecting the different health experience of Indigenous Australians. For example, external causes of death contributed a far greater proportion of Indigenous deaths, and deaths from diabetes and diseases of the liver were proportionally more prevalent among Indigenous than the non-Indigenous deaths.

CAUSES OF DEATH continued



The leading causes of death category among the Indigenous population was diseases of the circulatory system, accounting for 31% of all Indigenous deaths in 1999. Ischaemic heart disease was responsible for 56% of deaths within this category, while cerebrovascular disease (stroke) was responsible for 19%.

External causes (including accidents, assault and intentional self-harm) were the second leading cause of death category among the Indigenous population in 1999, accounting for almost 16% of all Indigenous deaths. In contrast, external causes accounted for 7% of deaths among the total population. Intentional self-harm accounted for 3% of all Indigenous deaths, while transport accidents (excluding water, air and space accidents) accounted for 4%. The median age at death for external causes among Indigenous people was 28.4 years, over ten years less than the median age at death for external causes among the total population.

LEADING CAUSES OF INDIGENOUS DEATHS

	Indigenous deaths	Total deaths	Indigenous median age at death	Total median age at death	Indigenous SMR(a)
Cause of death	no.	no.	years	years	rate
• • • • • • • • • • • • • • • • • • • •		• • • • • •			• • • • • •
Diseases of the circulatory system (I00–I99)	603	51 303	61.8	81.8	2.7
External causes (V01–Y98)	311	8 361	28.4	41.2	2.3
Malignant neoplasms (C00-C97)	281	35 053	62.8	73.2	1.3
Diseases of the respiratory system					
(J00–J99)	150	9 613	64.8	79.6	3.4
Endocrine, nutritional, and metabolic					
diseases (E00-E90)	146	4 100	62.1	77.0	6.2
Diseases of the digestive system					
(K00-K93)	98	4 221	48.0	77.8	4.0
All causes	1 976	128 102	52.6	77.8	2.1

(a) Standardised using the age-specific death rates of the Australian population at June 1999, in five year age groups from 0–4 years to 75 years and over. The SMR is derived using the ratio of observed deaths to expected deaths. Due to the undercoverage of Indigenous observed deaths, the SMRs presented here are likely to be conservative estimates. Further, undercoverage of Indigenous observed deaths may vary by cause of death.

CAUSES OF DEATH continued

Malignant neoplasms (cancer) were the third leading cause of death category, accounting for 14% of Indigenous deaths. Malignant neoplasms of the digestive organs and malignant neoplasms of the trachea, bronchus and lung together accounted for half of all malignant neoplasm deaths.

Diseases of the respiratory system were responsible for 8% of all Indigenous deaths in 1999, while endocrine, nutritional and metabolic disorders accounted for 7%. Of these deaths, 87% were the result of diabetes. The Indigenous population had at least eight times the number of deaths due to diabetes than would have been expected from the age-specific death rates of the total population, indicating the impact of diabetes on the Indigenous population.

The sixth leading cause of death category among Indigenous people was diseases of the digestive system, accounting for 5% of deaths. Two-thirds of these deaths were from liver diseases. Indigenous mortality from diseases of the digestive system were at least four times as high as would be expected if the Indigenous population had experienced the age-specific death rates of the total population.

PROPENSITY TO IDENTIFY AS INDIGENOUS

The coverage of Indigenous deaths is affected by the extent to which people are identified as Indigenous. There are several different forms on which Indigenous status is asked. These forms include the Census of Population and Housing and other Australian Bureau of Statistics (ABS) collections, and administrative forms used for birth and death registrations. Due to a number of factors, the results of this question are not always consistent. The likelihood that a person will identify, or be identified, as Indigenous on a specific form is known as their propensity to identify as Indigenous. Propensity to identify as Indigenous can be thought of as the proportion of the total, unknown, number of Indigenous people who identify as such on a specific form.

Propensity to identify as Indigenous is determined by a range of factors, including who completes the form (e.g. the person in question, a relative, or an official); the perception of how the information will be used; education programs about identifying as Indigenous; and emotional reaction to identifying as Indigenous.

There are three estimates of the number of Indigenous deaths reproduced in table 6.1. Each is based on a different collection, with a different propensity to identify as Indigenous:

- 1991 Census-based projections: These data are estimated using mortality levels based on 1986–1991 Indigenous life tables, and the Indigenous population based on the 1991 Census. These are published in *Experimental Projections of the Aboriginal and Torres Strait Islander Population*, 30 June 1991 30 June 2001 (Cat. no. 3231.0).
- 1996 Census-based estimates and projections: Estimates prior to 1996 are derived by backdating estimates of the 1996 Indigenous population. The level of mortality is based on the 1991–1996 experimental life tables published in *Experimental Projections of the Aboriginal and Torres Strait Islander Population, 30 June* 1996 30 June 2006 (Cat. no. 3231.0).
- Death registrations: This publication is based on the registration of deaths by each
 State and Territories' Registrar of Births, Deaths and Marriages.

PROPENSITY TO IDENTIFY AS INDIGENOUS continued

Propensity to identify as Indigenous in the Census can be seen as a social issue, partly reflecting the social attitude Indigenous people have about making what amounts to public statements about their heritage. Propensity to identify on death registration forms is considerably lower than in the Census because the person completing the death certificate (usually a funeral director or doctor) may not know if the deceased is of Indigenous origin, and may be reluctant or unable to ask relatives.

NUMBERS OF DEATHS—COVERAGE

The total number of Indigenous deaths registered in 1999 (1,980) is around 85% of the number expected from the 1991 Census-based experimental projections, and 56% of the number of deaths expected from the 1996 Census-based experimental projections (table 6.1). This represents a decrease of around 8% on the registration coverage estimated in 1998. The variation between the estimated 1991 and 1996 Census-based coverages can be primarily attributed to two factors: the change in propensity to identify as Indigenous on census forms between the 1991 and 1996 Censuses, and the method used to estimate the death rates applied in the projections. In particular, the method used to estimate the death rates is very sensitive to the inputs used so that the resulting projected deaths are quite volatile.

Given this volatility, and the experimental nature of the base populations, the estimates of coverage in table 6.1 are only indicative. For example, the 350 Indigenous deaths registered in Western Australia in 1999 have an estimated coverage of 86% using 1991 Census-based projections and 68% using 1996 Census-based projections. Therefore, actual coverage of death registrations is likely to lie within the 68%–86% range, although possibly outside it. Given this uncertainty, over-precise analysis based on either death registrations or projected deaths should be avoided.

While overall there was an estimated 56–85% coverage of Indigenous deaths in 1999, there is a high degree of variability in the coverage among the States and Territories. Prior to 1998, only South Australia, Western Australia, and the Northern Territory had a relatively high level of coverage. In 1998, Queensland's coverage of Indigenous deaths approached the level of coverage in the areas with traditionally high coverage, following the introduction of a new *Death Information Form* in 1996–97 which included an Indigenous status question. Coverage in New South Wales and Victoria has also improved markedly from previous years. While Tasmania has not provided adequate Indigenous deaths data to date, it is expected that a new *Notice of Death* form will help address this problem when it is introduced in 2000. The ongoing efforts to improve the level of identification on death certificates (such as improved form design and awareness raising) should see further improvement in the coverage of Indigenous death registrations.

In this chapter the number of registered deaths for usual residents in each State and Territory has been published (table 6.1). However, because of the data quality issues described above, more detailed breakdowns of Indigenous deaths are provided for New South Wales, Victoria, Queensland, South Australia and Western Australia only.

DELAY IN REGISTRATION

All data in this chapter are based on period of registration, i.e. deaths registered in 1999, regardless of when they occurred. One reason for this is the delay in registration of some deaths. The allowable time to register a death varies between States and Territories, usually either 28 or 60 days after the death.

Of all deaths registered in 1999, only 1.3% were registered more than two months after death, and less than 0.1% more than 12 months after the death. However, 16.3% of Indigenous deaths registered in 1999 were registered more than two months after death, and 2.6% more than 12 months after death occurrence.

6.1 DEATHS OF INDIGENOUS PEOPLE, Summary

•••••		•••••	• • • • • • •	• • • • • • •	• • • • • • • •				• • • • • •
	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust.(a)
			DEATHS REC	GISTERED A	S INDIGEN	ous	• • • • • • •		• • • • • •
1989	189	29	3	139	329	3	422	_	1 115
1990	201	42	4	118	322	_	393	_	1 082
1991	206	50	_	135	401	3	412	_	1 208
1992	165	53	_	107	346	5	397	_	1 074
1993	194	50	_	111	386	6	376	9	1 134
1994	207	50	_	123	377	3	380	10	1 153
1995	224	50	_	121	384	3	387	9	1 182
1996	177	49	258	118	370	_	328	5	1 306
1997	88	93	531	132	351	5	458	4	1 662
1998	462	123	593	127	378	13	415	3	2 114
1999	435	130	529	116	350	11	399	6	1 976
• • • • • • • • •	• • • • • • • • •	• • • • • • •					• • • • • • •	• • • • • • •	• • • • • •
		(1991			DUS DEATH: nental proje				
		(1001	0011000 501	зой охротт	ionital proje	00101107(8)			
1994	509	111	595	124	382	52	368	9	2 152
1995	518	113	604	126	385	54	374	10	2 185
1996	528	114	613	128	390	56	379	10	2 220
1997	537	116	623	131	394	57	386	11	2 257
1998	547	118	634	133	400	59	391	11	2 295
1999	556	121	644	135	406	61	397	12	2 334
		• • • • • • •	• • • • • • • •		• • • • • • • •	• • • • • • •	• • • • • • •		
	(1	006 Canau			US DEATHS		iana)		
	(1	996 Censu	is-based ex	perimentai	estimates	and project	ions)		
1994(c)	916	206	874	183	484	115	439	16	3 239
1995(c)	932	209	887	186	488	119	446	18	3 289
1996(c)	950	211	900	189	494	124	452	18	3 341
1997(d)	966	215	915	193	499	126	460	20	3 397
1998(d)	984	219	936	199	509	130	471	21	3 472
1999(d)	1 010	222	960	202	518	133	482	22	3 552
		• • • • • • •	• • • • • • • •	• • • • • • •	• • • • • • • •	• • • • • • •	• • • • • • •		• • • • • •
					IDIGENOUS				
		(1	1991 Censu	is-based ex	pectancies) (%)			
1994	41	45	_	99	99	6	103	111	54
1995	43	44	_	96	100	6	103	90	54
1996	34	43	42	92	95	_	87	50	59
1997	16	80	85	101	89	9	119	36	74
1998	84	104	94	95	95	22	106	27	92
1999	78	107	82	86	86	18	101	50	85
					NDIGENOUS xpectancies				
		(.	TO 90 CE1121	us-baseu e	rpecialicies	7 (70)			
1994	23	24	_	67	78	3	87	61	36
1995	24	24	_	65	79	3	87	50	36
1996	19	23	29	63	75	_	73	28	39
1997	9	43	58	68	70	4	100	20	49
1998	47	56	63	64	74	10	88	14	61
1999	43	59	55	57	68	8	83	27	56
						-			

Nil or rounded to zero (including null cells)

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ABS • DEATHS • 3302.0 • 1999 81

⁽a) Includes 'Other Territories' from 1993.

⁽b) Source: Experimental Projections of the Aboriginal and Torres Strait Islander Population, 1991–2001 (Cat. no. 3231.0), medium series.

⁽c) Source: Experimental Estimates of the Aboriginal and Torres Strait Islander Population, 1991–1996, unpublished data.

⁽d) Source: Experimental Projections of the Aboriginal and Torres Strait Islander Population, 1996–2006 (Cat. no. 3231.0). Low Series.

6.2 MEDIAN AGE AT DEATH, Males(a)

	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust.(b)		
			• • • • • • •	INDIGENOU	S(c)		• • • • • • •	• • • • • • •	• • • • • •		
1989	n.p.	n.p.	n.p.	43.5	50.1	n.p.	49.3	n.p.	47.3		
1990	n.p.	n.p.	n.p.	42.0	52.0	n.p.	46.4	n.p.	47.5		
1991	n.p.	n.p.	n.p.	41.8	49.3	n.p.	46.8	n.p.	46.2		
1992	n.p.	n.p.	n.p.	37.5	51.8	n.p.	49.3	n.p.	49.7		
1993	n.p.	n.p.	n.p.	40.5	48.5	n.p.	47.0	n.p.	47.7		
1994	n.p.	n.p.	n.p.	51.3	51.8	n.p.	46.6	n.p.	48.3		
1995	n.p.	n.p.	n.p.	45.3	49.3	n.p.	50.1	n.p.	48.6		
1996	n.p.	n.p.	49.3	47.3	48.5	n.p.	47.0	n.p.	47.9		
1997	n.p.	n.p.	50.6	50.3	48.6	n.p.	48.7	n.p.	49.8		
1998	50.3	56.5	46.9	44.0	45.0	n.p.	45.5	n.p.	47.7		
1999	51.3	51.0	48.9	46.5	49.3	n.p.	47.5	n.p.	48.9		
			N	ON-INDIGE	NOUS						
				0.1							
1989	72.2	72.4	72.2	73.6	72.1	72.5	54.6	66.6	72.3		
1990	71.9	72.4	71.9	72.3	72.0	72.4	56.6	66.9	72.0		
1991	72.1	72.6	71.9	73.7	72.8	73.1	58.1	67.3	72.3		
1992	72.5	73.2	72.1	73.5	72.9	74.1	59.2	69.1	72.7		
1993	72.9	73.5	72.6	73.8	73.1	73.2	57.4	69.8	73.0		
1994	73.6	74.1	73.2	74.4	73.6	74.0	59.9	69.4	73.6		
1995	73.7	73.9	73.0	74.4	73.6	73.8	58.1	70.6	73.6		
1996	74.2	74.7	73.4	74.7	74.2	74.2	57.4	71.4	74.2		
1997	74.4	74.7	73.6	75.4	74.2	75.2	61.7	72.6	74.4		
1998	74.7	75.1	74.4	75.6	74.1	75.0	56.3	72.7	74.7		
1999	75.0	75.3	74.5	76.0	74.8	75.5	60.4	72.4	75.0		
				TOTAL							
				101712							
1989	72.2	72.4	72.2	73.5	71.6	72.4	51.5	66.6	72.2		
1990	71.9	72.4	71.9	72.2	71.5	72.4	51.4	66.9	71.9		
1991	72.0	72.6	71.9	73.5	72.2	73.1	53.3	67.3	72.2		
1992	72.5	73.2	72.1	73.4	72.5	74.1	54.2	69.1	72.6		
1993	72.8	73.5	72.6	73.7	72.6	73.1	53.5	69.8	72.9		
1994	73.5	74.0	73.2	74.3	73.1	74.0	53.8	69.3	73.5		
1995	73.7	73.9	73.0	74.3	73.3	73.8	54.0	70.5	73.5		
1996	74.1	74.7	73.2	74.5	73.7	74.2	54.1	71.4	74.0		
1997	74.3	74.7	73.3	75.2	73.6	75.2	56.3	72.5	74.2		
1998	74.5	75.0	74.0	75.4	73.7	75.0	52.2	72.7	74.5		
1999	74.8	75.2	74.2	75.8	74.3	75.4	55.5	72.3	74.8		
	. 1.0	. 3.2		. 5.0	. 1.0	. 3. 1	55.5	. 2.0	, ,,,		

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n.p. not available for publication, but included in totals where applicable, unless otherwise indicated.

⁽a) Median age at death does not adjust for the age structure of the populations involved.

⁽b) Includes Other Territories.

⁽c) See table 6.1 estimated coverage of Indigenous deaths.

6.3 MEDIAN AGE AT DEATH, Females(a)

	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust.(b)		
• • • • • • • •		• • • • • • • •	• • • • • • •	INDIGENOU	IS(c)	• • • • • • • •	• • • • • • •	• • • • • • •	• • • • • •		
				INDIGENOU	3(0)						
1989	n.p.	n.p.	n.p.	56.0	57.3	n.p.	58.0	n.p.	57.9		
1990	n.p.	n.p.	n.p.	57.0	53.0	n.p.	56.7	n.p.	56.1		
1991	n.p.	n.p.	n.p.	49.0	59.4	n.p.	52.8	n.p.	55.5		
1992	n.p.	n.p.	n.p.	56.0	58.1	n.p.	55.6	n.p.	56.8		
1993	n.p.	n.p.	n.p.	56.0	61.5	n.p.	52.0	n.p.	57.4		
1994	n.p.	n.p.	n.p.	49.5	62.7	n.p.	60.2	n.p.	59.7		
1995	n.p.	n.p.	n.p.	52.0	59.3	n.p.	56.6	n.p.	57.6		
1996	n.p.	n.p.	59.0	55.0	58.0	n.p.	54.0	n.p.	57.7		
1997	n.p.	n.p.	57.7	52.5	57.8	n.p.	52.3	n.p.	56.8		
1998	58.0	63.3	59.3	50.5	57.0	n.p.	49.7	n.p.	57.0		
1999	60.8	65.0	60.3	50.5	55.3	n.p.	56.3	n.p.	58.8		
			N	ON-INDIGE	NOUS						
				ON INDIGE	11000						
1989	79.0	79.2	78.1	78.9	78.7	78.4	61.5	76.2	78.8		
1990	78.7	79.2	78.0	79.0	78.8	78.7	60.5	75.6	78.8		
1991	78.8	79.1	78.4	79.7	78.9	78.9	57.0	74.7	78.9		
1992	79.3	80.1	78.7	79.9	79.4	79.4	68.2	75.3	79.4		
1993	79.5	80.1	79.0	80.0	80.1	79.0	66.0	77.4	79.6		
1994	80.2	80.6	79.7	81.0	80.1	79.3	69.6	78.2	80.2		
1995	80.2	80.9	79.7	80.8	80.6	79.7	66.0	75.9	80.4		
1996	80.7	81.3	80.2	81.2	81.2	79.8	65.3	77.6	80.8		
1997	81.1	81.4	80.7	81.6	81.2	80.2	66.0	78.9	81.1		
1998	81.0	81.8	80.6	82.1	81.1	80.9	68.0	78.7	81.2		
1999	81.4	81.8	81.4	82.2	81.8	80.5	71.3	79.5	81.6		
• • • • • • • • •		• • • • • • • • •		TOTAL	• • • • • • • •				• • • • • • •		
				TOTAL							
1989	78.9	79.2	78.1	78.8	78.4	78.4	58.2	76.2	78.7		
1990	78.7	79.2	78.0	79.0	78.4 78.4	78.7	58.0	75.6	78.7		
1991	78.8	79.2 79.1	78.4	79.5	78.4 78.4	78.9	54.1	74.7	78.8		
1991	79.3	80.1	78.7	79.5 79.8	79.0	79.4	59.4	75.3	79.3		
1993 1994	79.5	80.1	79.0	79.9	79.8	79.0	56.7	77.3	79.5		
	80.1	80.6	79.7	80.9	79.7	79.3	63.9	78.3	80.2		
1995	80.2	80.9	79.7	80.7	80.3	79.7	60.3	75.9	80.3		
1996	80.6	81.3	80.1	81.1	80.8	79.8	60.8	77.5	80.7		
1997	81.1	81.4	80.4	81.5	80.8	80.2	57.5	78.8	81.0		
1998	80.9	81.7	80.3	82.0	80.8	80.9	58.0	78.8	81.0		
1999	81.3	81.8	81.2	82.2	81.5	80.5	61.7	79.5	81.4		

 $\hbox{n.p. not available for publication, but included in totals where applicable, unless otherwise indicated.}\\$

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⁽a) Median age at death does not adjust for the age structure of the populations involved.

⁽b) Includes Other Territories.

⁽c) See table 6.1 for estimated coverage of Indigenous deaths.

6.4 INDIGENOUS, NON-INDIGENOUS & TOTAL DEATHS, Australia(a)

		INDIGEN	ous		NON- INDIGENOUS	TOTAL(b)
						,
		Males	Females	Persons	Persons	Persons
Total deaths	no.	1 142	834	1 976	122 268	128 102
Age at death (years)						
0	no.	82	67	149	1 186	1 408
1–14	no.	29	26	55	577	661
15–24	no.	93	26	119	1 683	1 872
25–34	no.	139	58	197	2 421	2 724
35–44	no.	161	79	240	3 311	3 686
45–54	no.	182	117	299	6 005	6 525
55–64	no.	165	134	299	10 740	11 372
65 and over	no.	291	327	618	96 336	99 843
Not stated	no.	_	_	_	9	11
Median age at death	years	48.9	58.8	52.6	78.0	77.8
Indirect standardised death rate (ISDR)(c)	rate	18.3	11.1	14.3	5.8	6.0
Infant mortality rate(d)	rate	15.5	12.7	14.1	5.0	5.7
Leading causes of death						
Malignant neoplasms (C00-C97)	no.	151	130	281	33 832	35 053
Digestive organs (C15-C26)	no.	47	18	65	9 582	9 912
Trachea, bronchus and lung (C33,C34)	no.	46	34	80	6 537	6 803
Diabetes mellitus (E10–E14)	no.	61	67	128	2 762	2 947
Mental and behavioural disorders (F00-F99)	no.	39	11	50	2 658	2 808
Diseases of the circulatory system (I00–I99)	no.	344	259	603	49 155	51 303
Ischaemic heart diseases (I20–I25)	no.	212	127	339	26 462	27 609
Cerebrovascular diseases (I60–I69)	no.	60	52	112	11 780	12 266
Diseases of the respiratory system (J00–J99)	no.	82	68	150	9 134	9 613
Influenza and pneumonia (J10–J18)	no.	14	11 45	25	1 815	1 898
Chronic lower respiratory diseases (J40–J47)	no.	54	45	99	5 790	6 096
Diseases of the digestive system (K00–K93)	no.	59	39	98	3 983	4 221
Diseases of the liver (K70–K77)	no.	41	26	67	1 131	1 243
Certain conditions originating in the perinatal		40	26	66	542	641
period (P00–P96)	no.				0.2	0.2
Congenital malformations, deformations and	110.	22	22	44	640	715
chromosomal abnormalities (Q00–Q99)	no.				010	710
All other medical conditions (remainder of	110.	120	125	245	11 820	12 440
(A00–R99)	no.	120	125	243	11 020	12 440
()						
External causes of morbidity and mortality		224	87	311	7 742	8 361
(V01–Y98)	no.					
Transport accidents (V01–V99)	no.	58	24	82	1 854	2 011
Intentional self-harm (X60–X84)	no.	58	7	65	2 330	2 492
Assault (X85–Y09)	no.	19	14	33	256	300
Other external causes (remainder of (VO1–Y98		89	42	131	3 302	3 558
34.5. 3.45a. 322333 (Johnshide) 51 (101 100	,	23			3 3 3 2	2 223

[—] nil or rounded to zero (including null cells)

......

⁽a) 1999 coverage of Indigenous deaths Australia-wide has been estimated at 85% on 1991 Census-based projections and 56% on 1996 Census-based projections. See Table 6.1.

⁽b) Includes not stated.

⁽c) Per 1,000 population. See Glossary. The Indigenous population used for the ISDR is the 1999 Indigenous population from the Experimental Projections of the Aboriginal and Torres Strait Islander Population, 30 June 1996 – 30 June 2006 (Cat. no. 3231.0), low series. Standardised using age-specific death rates for the 1991 Australian population in 5 year age groups from 0–4 years to 75 years and over. The ISDR is derived using the ratio of observed deaths to expected deaths. Due to the undercoverage of Indigenous observed deaths, the ISDRs presented here are likely to be conservative estimates.

⁽d) Per 1,000 live births.

6.5 INDIGENOUS, NON-INDIGENOUS & TOTAL DEATHS, New South Wales(a)

NON-INDIGENOUS.....INDIGENOUS TOTAL(b)

		INDIG	LIVOUS		INDIGENOUS	TOTAL(D)
		Males	Females	Persons	Persons	Persons
• • • • • • • • • • • • • • • • • • • •	• • • • • •	• • • • • •	• • • • • •	• • • • • •	• • • • • • • • • • • •	• • • • • • • • • •
Total deaths	no.	257	178	435	41 415	45 215
Age at death (years)						
0	no.	17	24	41	394	504
1–14	no.	8	6	14	169	206
15–24	no.	15	4	19	530	598
25–34	no.	36	8	44	771	891
35–44	no.	32	13	45	1 081	1 238
45–54	no.	29	21	50	1 990	2 225
55–64	no.	48	30	78	3 715	4 086
65 and over	no.	72	72	144	32 759	35 459
Not stated	no.	_	_	_	6	8
Median age at death	years	51.3	60.8	55.8	77.9	77.7
Indirect standardised death rate (ISDR)(c)	rate	14.9	8.4	11.3	5.6	6.1
Infant mortality rate(d)	rate	11.1	15.8	13.4	4.7	5.8
Leading causes of death						
Malignant neoplasms (C00–C97)	no.	37	32	69	11 074	11 994
Diabetes mellitus (E10–E14)	no.	8	10	18	746	816
Mental and behavioural disorders (F00–F99)	no.	14	_	15	924	1 019
Diseases of the circulatory system (I00–I99)	no.	90	54	144	17 387	18 901
Ischaemic heart diseases (I20–I25)	no.	57	32	89	9 137	9 948
Cerebrovascular diseases (I60–I69)	no.	14	7	21	4 231	4 581
Diseases of the respiratory system (J00–J99)	no.	21	17	38	3 045	3 352
Chronic lower respiratory diseases (J40–J47)	no.	16	11	27	1 975	2 185
Diseases of the digestive system (K00–K93) External causes of morbidity and mortality	no.	15	4	19	1 328	1 470
(V01–Y98)	no.	45	22	67	2 467	2 766

⁻ nil or rounded to zero (including null cells)

ABS • DEATHS • 3302.0 • 1999 85

⁽a) 1999 coverage of Indigenous deaths in New South Wales has been estimated at 78% on 1991 Census-based projections and 43% on 1996 Census-based projections. See Table 6.1.

⁽b) Includes not stated.

⁽c) Per 1,000 population. See Glossary. The Indigenous population used for the ISDR is the 1999 Indigenous population from the Experimental Projections of the Aboriginal and Torres Strait Islander Population, 30 June 1996 - 30 June 2006 (Cat. no. 3231.0), low series. Standardised using age-specific death rates for the 1991 Australian population in 5 year age groups from 0-4 years to 75 years and over. The ISDR is derived using the ratio of observed deaths to expected deaths. Due to the undercoverage of Indigenous observed deaths, the ISDRs presented here are likely to be conservative estimates.

⁽d) Per 1,000 live births.

6.6 INDIGENOUS, NON-INDIGENOUS & TOTAL DEATHS, Victoria(a)

NON-INDIGENOUS..... INDIGENOUS TOTAL(b) Males Females Persons Persons Persons **Total deaths** no. 80 50 130 31 769 31 918 Age at death (years) 0 5 4 9 322 331 no. 1_14 no. 148 149 15-24 9 9 429 no. 418 25-34 13 5 18 650 671 no. 35-44 no. 10 12 844 856 45-54 7 1 470 1 490 10 17 no. 55-64 5 6 11 2 644 2 656 no. 65 and over 28 25 53 25 272 25 335 no. Not stated no. Median age at death 65.0 54.7 78.3 78.2 51.0 vears Indirect standardised death rate (ISDR)(c) 20.4 10.1 14.6 5.8 5.9 rate Infant mortality rate(d) rate 19.0 15.5 17.3 5.6 5.6 Leading causes of death Malignant neoplasms (C00-C97) no. 12 11 23 8 989 9 0 1 6 Diabetes mellitus (E10-E14) no. 3 971 975 Mental and behavioural disorders (F00–F99) 3 3 4 730 734 no. Diseases of the circulatory system (I00–I99) 22 17 39 12 162 12 206 no. Ischaemic heart diseases (I20-I25) 15 23 6 494 6 520 Cerebrovascular diseases (I60-I69) 4 5 9 2 893 2 903 no. Diseases of the respiratory system (J00-J99) 4 6 2 331 2 338 no. Chronic lower respiratory diseases (J40–J47) 3 4 no. 6 1 506 1 512 Diseases of the digestive system (K00-K93) 4 5 1 018 1 024 no. External causes of morbidity and mortality (V01-Y98) 4 2 023 2 059 24 28 no.

⁻ nil or rounded to zero (including null cells)

⁽a) 1999 coverage of Indigenous deaths in Victoria has been estimated at 107% on 1991 Census-based projections and 59% on 1996 Census-based projections. See Table 6.1.

⁽b) Includes not stated.

⁽c) Per 1,000 population. See Glossary. The Indigenous population used for the ISDR is the 1999 Indigenous population from the *Experimental Projections of the Aboriginal and Torres Strait Islander Population, 30 June* 1996 – 30 June 2006 (Cat. no. 3231.0), low series. Standardised using age-specific death rates for the 1991 Australian population in 5 year age groups from 0–4 years to 75 years and over. The ISDR is derived using the ratio of observed deaths to expected deaths. Due to the undercoverage of Indigenous observed deaths, the ISDRs presented here are likely to be conservative estimates.

⁽d) Per 1,000 live births.

75

1 531

1 610

19

6.7 INDIGENOUS, NON-INDIGENOUS & TOTAL DEATHS, Queensland(a)

NON-INDIGENOUS..... INDIGENOUS TOTAL(b) Males Females Persons Persons Persons **Total deaths** no. 305 224 529 22 304 22 849 Age at death (years) 0 32 7 39 227 266 no. 1-14 no. 7 7 14 124 138 15-24 27 no. 5 32 326 358 485 25-34 24 15 39 444 no. 35-44 no. 42 22 64 627 692 45-54 1 265 54 33 87 1 176 no. 55-64 no. 32 46 78 2 098 2 177 65 and over 87 89 176 17 282 17 468 no. Not stated no. Median age at death 48.9 60.3 53.6 77.7 77.4 vears Indirect standardised death rate (ISDR)(c) 17.8 10.9 14.0 6.1 6.2 rate Infant mortality rate(d) rate 21.7 4.7 13.1 5.3 5.7 Leading causes of death Malignant neoplasms (C00-C97) no. 53 39 92 6 151 6 248 Diabetes mellitus (E10–E14) no. 24 22 46 460 507 Mental and behavioural disorders (F00–F99) no. 3 3 402 406 Diseases of the circulatory system (I00–I99) 87 82 169 9 1 2 9 9 301 no. Ischaemic heart diseases (I20-I25) 57 38 95 5 218 5 315 Cerebrovascular diseases (I60-I69) 14 22 36 2 136 2 173 no. Diseases of the respiratory system (J00–J99) 16 17 33 1 644 1 678 no. Chronic lower respiratory diseases (J40–J47) 1 102 no. 9 14 23 1 126 Diseases of the digestive system (K00–K93) 17 31 750 14 718 no. External causes of morbidity and mortality

no.

(V01-Y98)

[—] nil or rounded to zero (including null cells)

⁽a) 1999 coverage of Indigenous deaths in Queensland has been estimated at 82% on 1991 Census-based projections and 55% on 1996 Census-based projections. See Table 6.1.

⁽b) Includes not stated.

⁽c) Per 1,000 population. See Glossary. The Indigenous population used for the ISDR is the 1999 Indigenous population from the Experimental Projections of the Aboriginal and Torres Strait Islander Population, 30 June 1996 - 30 June 2006 (Cat. no. 3231.0), low series. Standardised using age-specific death rates for the 1991 Australian population in 5 year age groups from 0-4 years to 75 years and over. The ISDR is derived using the ratio of observed deaths to expected deaths. Due to the undercoverage of Indigenous observed deaths, the ISDRs presented here are likely to be conservative estimates.

⁽d) Per 1,000 live births.

6.8 INDIGENOUS, NON-INDIGENOUS & TOTAL DEATHS, South Australia(a)

		INDIG	ENOUS		NON- INDIGENOUS	TOTAL(b
		Males	Females	Persons	Persons	Persons
	• • • • • •	• • • • • •			• • • • • • • • • • • •	• • • • • • • • •
Total deaths	no.	62	54	116	10 854	11 291
Age at death (years)						
0	no.	3	3	5	72	78
1–14	no.	_	_	3	40	42
15–24	no.	4	3	7	120	135
25–34	no.	8	5	13	183	210
35–44	no.	14	8	22	273	306
45–54	no.	14	9	23	461	498
55–64	no.	12	7	19	841	883
65 and over	no.	8	18	26	8 864	9 139
Not stated	no.	_	_	_	_	_
Median age at death	years	46.5	50.5	48.5	78.7	78.5
Indirect standardised death rate (ISDR)(c)	rate	17.2	12.6	14.7	5.6	5.8
Infant mortality rate(d)	rate	6.0	9.8	7.8	4.2	4.3
Leading causes of death						
Malignant neoplasms (C00–D97)	no.	6	7	13	2 998	3 072
Diabetes mellitus (E10–E14)	no.	6	3	8	260	270
Mental and behavioural disorders (F00–F99)	no.	3	3	5	258	279
Diseases of the circulatory system (I00–I99)	no.	20	16	36	4 455	4 620
Ischaemic heart diseases (I20-I25)	no.	16	8	24	2 412	2 498
Cerebrovascular diseases (I60–I69)	no.	_	3	5	1 074	1 112
Diseases of the respiratory system (J00–J99)	no.	4	6	10	945	998
Chronic lower respiratory diseases (J40–J47)	no.	_	3	4	448	469
Diseases of the digestive system (K00–K93) External causes of morbidity and mortality	no.	3	3	5	371	385
(V01–Y98)	no.	15	6	21	546	595

[—] nil or rounded to zero (including null cells)

⁽a) 1999 coverage of Indigenous deaths in South Australia has been estimated at 86% on 1991 Census-based projections and 57% on 1996 Census-based projections. See Table 6.1.

⁽b) Includes not stated.

⁽c) Per 1,000 population. See Glossary. The Indigenous population used for the ISDR is the 1999 Indigenous population from the Experimental Projections of the Aboriginal and Torres Strait Islander Population, 30 June 1996 – 30 June 2006 (Cat. no. 3231.0), low series. Standardised using age-specific death rates for the 1991 Australian population in 5 year age groups from 0–4 years to 75 years and over. The ISDR is derived using the ratio of observed deaths to expected deaths. Due to the undercoverage of Indigenous observed deaths, the ISDRs presented here are likely to be conservative estimates.

⁽d) Per 1,000 live births.

6.9 INDIGENOUS, NON-INDIGENOUS & TOTAL DEATHS, Western Australia(a)

NON-INDIGENOUS..... INDIGENOUS TOTAL(b) Males Females Persons Persons Persons **Total deaths** no. 208 142 350 10 406 10 877 Age at death (years) 0 10 16 26 88 117 no. 1-14 no. 9 4 13 62 80 15-24 4 no. 21 25 187 221 10 25-34 21 31 239 280 no. 35-44 no. 27 15 42 303 355 45-54 62 630 41 21 552 no. 55-64 no. 34 24 58 909 979 65 and over 45 48 93 8 065 8 214 no. Not stated no. 3 Median age at death 49.3 55.3 52.1 77.9 77.4 vears Indirect standardised death rate (ISDR)(c) 22.3 12.9 17.2 5.7 5.9 rate Infant mortality rate(d) rate 13.0 20.3 16.7 3.8 4.7 Leading causes of death Malignant neoplasms (C00-C97) no. 22 13 35 3 087 3 139 Diabetes mellitus (E10–E14) no. 12 19 31 213 246 Mental and behavioural disorders (F00–F99) no. 10 3 13 238 254 Diseases of the circulatory system (I00–I99) 57 3 928 4 059 41 98 no. Ischaemic heart diseases (I20-I25) 29 20 49 2 106 2 173 Cerebrovascular diseases (I60-I69) 14 21 961 990 7 no. Diseases of the respiratory system (J00–J99) 14 22 728 764 no. 8 Chronic lower respiratory diseases (J40–J47) 486 no. 11 6 17 463 Diseases of the digestive system (K00–K93) 7 17 362 383 10 no. External causes of morbidity and mortality (V01-Y98) 744 838 44 17 61 no.

⁻ nil or rounded to zero (including null cells)

⁽a) 1999 coverage of Indigenous deaths in Western Australia has been estimated at 86% on 1991 Census-based projections and 68% on 1996 Census-based projections. See Table 6.1.

⁽b) Includes not stated.

⁽c) Per 1,000 population. See Glossary. The Indigenous population used for the ISDR is the 1999 Indigenous population from the Experimental Projections of the Aboriginal and Torres Strait Islander Population, 30 June 1996 – 30 June 2006 (Cat. no. 3231.0), low series. Standardised using age-specific death rates for the 1991 Australian population in 5 year age groups from 0–4 years to 75 years and over. The ISDR is derived using the ratio of observed deaths to expected deaths. Due to the undercoverage of Indigenous observed deaths, the ISDRs presented here are likely to be conservative estimates.

⁽d) Per 1,000 live births.

6.10 INDIGENOUS, NON-INDIGENOUS & TOTAL DEATHS, Northern Territory(a)

NON-INDIGENOUS..... INDIGENOUS TOTAL(b) Males Females Persons Persons Persons **Total deaths** no. 221 178 399 419 832 Age at death (years) 0 15 12 27 15 42 no. 1-14 no. 4 7 11 3 13 15-24 17 no. 10 27 25 25-34 35 15 50 30 81 no. 35-44 no. 34 18 52 32 85 45-54 34 99 26 60 38 no. 55-64 no. 34 20 54 88 144 65 and over 48 70 118 189 314 no. Not stated no. Median age at death 62.8 47.5 56.3 50.5 57.7 vears Indirect standardised death rate (ISDR)(c) 25.8 17.8 21.5 6.4 9.9 rate Infant mortality rate(d) rate 21.0 17.0 19.0 7.1 Leading causes of death Malignant neoplasms (C00–C97) no. 21 25 46 125 173 Diabetes mellitus (E10–E14) no. 8 13 21 12 33 Mental and behavioural disorders (F00–F99) 6 3 9 11 20 no. Diseases of the circulatory system (I00–I99) 65 48 225 113 108 no. Ischaemic heart diseases (I20-I25) 38 20 58 65 123 Cerebrovascular diseases (I60-I69) 11 19 21 42 8 no. Diseases of the respiratory system (J00–J99) 24 39 24 64 no. 15 Chronic lower respiratory diseases (J40–J47) 20 no. 14 7 21 41 Diseases of the digestive system (K00–K93) 9 10 19 17 37 no. External causes of morbidity and mortality (V01-Y98) 65 38 18 56 124 no.

⁻ nil or rounded to zero (including null cells)

⁽a) 1999 coverage of Indigenous deaths in the Northern Territory has been estimated at 101% on 1991 Census -based projections and 83% on 1996 Census-based projections. See Table 6.1.

⁽b) Includes not stated.

⁽c) Per 1,000 population. See Glossary. The Indigenous population used for the ISDR is the 1999 Indigenous population from the *Experimental Projections of the Aboriginal and Torres Strait Islander Population, 30 June* 1996 – 30 *June* 2006 (Cat. no. 3231.0), low series. Standardised using age-specific death rates for the 1991 Australian population in 5 year age groups from 0–4 years to 75 years and over. The ISDR is derived using the ratio of observed deaths to expected deaths. Due to the undercoverage of Indigenous observed deaths, the ISDRs presented here are likely to be conservative estimates.

⁽d) Per 1,000 live births.

SECTION 7

LIFE TABLES

THE LIFE TABLE

A life table is a statistical model used to show the levels of mortality of a population at different ages. In its simplest form, a life table is generated from age-specific mortality rates and the resulting values are used to measure mortality, survivorship and life expectancy. However, it is a powerful tool with many applications beyond the measurement of mortality.

The life tables in this publication are current or period life tables, based on mortality rates for a short period of time during which mortality has remained much the same. Mortality rates for the Australian, State and Territory, and Indigenous life tables are based on 1997–1999 data.

Life tables may be complete or abridged, depending on the age interval used in their compilation. Complete life tables such as those for Australian population contain data by single years of age, while abridged life tables, such as those for the Indigenous population, contain data for five-year age groups. Life tables are presented separately for each sex.

The life table depicts the mortality experience of a hypothetical group of newborn babies throughout their entire lifetime. It is based on the assumption that this group is subject to the age-specific mortality rates of the reference period. Typically this hypothetical group is 100,000 in size.

To construct a life table, data on population, deaths and births are needed. Mortality rates have been smoothed to avoid fluctuations in the data. The life tables presented here contain four columns of interrelated information. These functions are:

 q_x — the mortality rate. The probability of dying between exact ages x and x+1. All other functions of the life table are derived from q_x :

 l_x — the number of survivors to exact age x;

 L_x — the number of person-years lived within the age interval x and x+1;

 e_x^0 — life expectancy. The average remaining lifetime (in years) for persons who survive to exact age x.

EXPECTATION OF LIFE

In 1997–1999 life expectancy at birth was 76.2 years for males and 81.8 years for females, an increase of 0.4 and 0.3 years respectively over the 1996–1998 life expectancies at birth. Male life expectancy was highest in the Australian Capital Territory (77.9 years), while female life expectancy was highest in Western Australia (82.1 years). The lowest life expectancy was in the Northern Territory where a boy born in 1997–1999 could be expected to live an average of 70.6 years, and a girl, 75.1 years.

Life expectancy calculations assume that the mortality rates prevailing over the reference period will continue indefinitely. As future reductions in mortality rates are probable, the actual average life expectancy of boys and girls born in the 1997–1999 period is likely to be higher than figures given here.

EXPECTATION OF LIFE continued

Since 1979, life expectancy at birth has increased by 5.4 years for males and 3.9 years for females. Life expectancy of 65 year olds has increased by 2.9 years for males and 2.3 years for females over the 1979–1999 period to 16.6 years for males and 20.2 years for females. It is assumed that by the year 2051 life expectancy at birth will be around 83.3 years for males and 86.6 years for females. This assumption is based on the average annual increase from 1970–1998 for male and female life expectancy at birth, of 0.30 years and 0.22 years respectively, continuing until 2003 and then gradually declining over time.

Assuming that the mortality levels prevailing in the Australian population over the 1997–1999 period were to continue, a boy born in this period would have a 30% chance of living to age 85, while a girl would have a 49% chance of living to age 85. At age 100, these chances would be 1% for males and 2.8% for females.

INDIGENOUS LIFE EXPECTANCY

The Indigenous life expectancy estimates presented in this publication are described as *experimental* because of deficiencies in deaths, births and population data. Consequently, there is uncertainty about the accuracy of death rates. The life expectancy estimates are sensitive to the inputs used and over-precise analysis is cautioned. They should be used only as an indicative summary measure of the level of mortality of the Indigenous population (see appendix 1 for a detailed description of Indigenous life tables).

7.1 AUSTRALIAN LIFE TABLE, 1997–1999—Males

 I_X number of persons at exact age x

qx proportion dying between exact age x and exact age x + 1

Lx $\,$ number of persons years lived within the age interval x to x + 1 $\,$

 $e^{\circ}x$ expectation of life at exact age x

7.2 AUSTRALIAN LIFE TABLE, 1997–1999—Females

• • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • •	• • • • • • • • • • • • • •	• • • • • • • •	• • • • • • •	• • • • • • •	• • • • •
Age	lx	qx	Lx	e°x	Age	lx	qx	Lx	e°x
• • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • • •	• • • •		• • • • • • •	• • • • • • •	• • • • • • • •	• • • • •
0	100 000	0.00483	99 576	81.77	50	96 708	0.00216	96 605	33.53
1	99 517	0.00483	99 494	81.17	50 51	96 499	0.00210	96 386	32.60
2	99 475	0.00045	99 462	80.21	52	96 270	0.00260	96 147	31.68
3	99 450	0.00023	99 439	79.23	53	96 020	0.00285	95 886	30.76
4	99 429	0.00018	99 420	78.24	54	95 747	0.00312	95 600	29.84
	00 120	0.00010	00 120	10.21		00 1 11	0.00012	00 000	20.01
5	99 411	0.00016	99 403	77.26	55	95 448	0.00343	95 287	28.94
6	99 395	0.00013	99 389	76.27	56	95 121	0.00377	94 944	28.03
7	99 382	0.00011	99 377	75.28	57	94 762	0.00414	94 569	27.14
8	99 371	0.00010	99 367	74.29	58	94 370	0.00455	94 159	26.25
9	99 362	0.00009	99 357	73.29	59	93 941	0.00499	93 710	25.37
10	99 353	0.00009	99 349	72.30	60	93 472	0.00548	93 220	24.49
11	99 344	0.00010	99 340	71.31	61	92 960	0.00601	92 684	23.62
12	99 335	0.00010	99 329	70.31	62	92 401	0.00659	92 101	22.76
13	99 323	0.00016	99 315	69.32	63	91 792	0.00723	91 465	21.91
14	99 307	0.00010	99 297	68.33	64	91 129	0.00723	90 773	21.07
	00 00.	0.00021	00 201	00.00		01 120	0.00.02	00 0	22.0.
15	99 287	0.00026	99 274	67.35	65	90 407	0.00869	90 020	20.23
16	99 261	0.00032	99 245	66.36	66	89 621	0.00955	89 199	19.40
17	99 229	0.00036	99 212	65.38	67	88 765	0.01053	88 304	18.59
18	99 194	0.00039	99 174	64.41	68	87 830	0.01165	87 326	17.78
19	99 155	0.00041	99 134	63.43	69	86 806	0.01293	86 254	16.98
20	99 114	0.00042	99 093	62.46	70	85 684	0.01440	85 077	16.20
21	99 073	0.00041	99 052	61.48	71	84 450	0.01608	83 782	15.43
22	99 032	0.00040	99 012	60.51	72	83 092	0.01799	82 357	14.67
23	98 992	0.00040	98 972	59.53	73	81 597	0.02016	80 788	13.93
24	98 953	0.00040	98 933	58.56	74	79 953	0.02260	79 063	13.21
٥٦	00.040	0.00044	00.000	F7 F0	75	70.440	0.00504	77 474	40.50
25	98 913	0.00041	98 893	57.58	75 70	78 146	0.02534	77 171	12.50
26	98 873	0.00042	98 852	56.60	76 77	76 166	0.02841	75 099	11.81
27	98 831	0.00043	98 810	55.63	77	74 002	0.03189	72 839	11.14
28	98 789	0.00045	98 767	54.65	78	71 642	0.03584	70 376	10.49
29	98 745	0.00047	98 722	53.68	79	69 074	0.04036	67 699	9.86
30	98 698	0.00049	98 675	52.70	80	66 286	0.04551	64 797	9.26
31	98 650	0.00051	98 625	51.73	81	63 269	0.05138	61 664	8.68
32	98 599	0.00054	98 573	50.75	82	60 019	0.05802	58 297	8.12
33	98 546	0.00057	98 518	49.78	83	56 537	0.06551	54 702	7.59
34	98 489	0.00061	98 460	48.81	84	52 833	0.07390	50 896	7.08
35	98 429	0.00065	98 398	47.84	85	48 928	0.08326	46 904	6.61
36	98 365	0.00070	98 331	46.87	86	44 854	0.09363	42 763	6.16
37	98 297	0.00075	98 260	45.90	87	40 655	0.10505	38 523	5.75
38	98 223	0.00073	98 184	44.93	88	36 384	0.11756	34 243	5.36
39	98 144	0.00087	98 102	43.97	89	32 107	0.13112	29 993	5.01
40	98 059	0.00093	98 014	43.01	90	27 897	0.14541	25 852	4.69
41	97 968	0.00101	97 919	42.05	91	23 840	0.16005	21 909	4.41
42 42	97 869	0.00109	97 816	41.09	92	20 025	0.17486	18 245	4.15
43	97 762	0.00118	97 705	40.13	93	16 523	0.18914	14 927	3.93
44	97 646	0.00128	97 585	39.18	94	13 398	0.20222	12 008	3.73
45	97 521	0.00140	97 454	38.23	95	10 689	0.21405	9 510	3.55
46	97 385	0.00152	97 312	37.28	96	8 401	0.22518	7 424	3.39
47	97 237	0.00166	97 157	36.34	97	6 509	0.23633	5 712	3.23
48	97 076	0.00181	96 989	35.40	98	4 971	0.24815	4 331	3.08
49	96 900	0.00198	96 806	34.46	99	3 737	0.26069	3 230	2.94
					100	2 763	0.27324	2 369	2.80

Ix number of persons at exact age x

qx proportion dying between exact age x and exact age x + 1

Lx number of person years lived within the age interval x to $x\,+\,1$

e⁰x expectation of life at exact age x

7.3 EXPECTATION OF LIFE, Australia(a)

	AGE (YE	EARS)								
	,	-,								
Selected years	0	1	10	20	30	40	50	60	70	80
• • • • • • • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •			
	MALES									
1979	70.86	70.76	62.04	52.49	43.24	33.82	24.93	17.13	10.80	6.28
1984	72.46	72.22	63.46	53.83	44.48	35.02	25.93	17.86	11.26	6.52
1989	73.32	72.97	64.17	54.53	45.52	35.87	26.67	18.37	11.53	6.59
1994	75.00	74.53	65.70	56.00	46.60	37.21	27.99	19.43	12.29	6.95
1993-95	74.95	74.48	65.66	55.94	46.57	37.19	27.97	19.45	12.35	6.99
1994–96	75.22	74.70	65.86	56.15	46.79	37.41	28.18	19.62	12.45	7.04
1995–97	75.57	75.04	66.20	56.50	47.15	37.77	28.53	19.93	12.69	7.20
1996-98	75.86	75.31	66.48	56.77	47.43	38.05	28.80	20.18	12.86	7.32
1997–99	76.22	75.68	66.84	57.12	47.79	38.41	29.16	20.50	13.10	7.50
• • • • • • • • • • •										
				FEN	1ALES					
1979	77.88	77.67	68.93	59.13	49.43	39.78	30.52	21.89	14.18	7.94
1984	78.95	78.58	69.77	59.96	50.22	40.54	31.19	22.43	14.64	8.26
1989	79.60	79.17	70.36	60.53	50.79	41.09	31.68	22.81	14.87	8.46
1994	80.94	80.36	71.91	62.04	52.25	42.52	33.03	24.01	15.70	8.80
1993–95	80.84	80.28	71.43	61.59	51.81	42.11	32.64	23.68	15.56	8.85
1994–96	81.05	80.46	71.60	61.76	51.98	42.28	32.80	23.83	15.67	8.92
1995–97	81.27	80.68	71.81	61.79	52.20	42.50	33.01	24.03	15.84	9.02
1996-98	81.52	80.91	72.04	62.20	52.43	42.73	33.25	24.25	16.01	9.13
1997–99	81.77	81.17	72.30	62.46	52.70	43.01	33.53	24.49	16.20	9.26

⁽a) Based on Annual Life Tables calculated by the Australian Statistician until 1994 and from 1999. From 1995 to 1998 the life tables have been produced as a joint venture between the Australian Bureau of Statistics and the Australian Government Actuary. See paragraph 12 of the Explanatory Notes for more information.

7.4 EXPERIMENTAL LIFE TABLE OF INDIGENOUS PEOPLE, 1997–1999—Australia(a)

Lx e°x lx qx Age lx ax Males Females 0 100 000 0.02442 97 851 55.62 100 000 0.01957 98 278 1-4 1–4 97 558 0.00484 389 002 56.01 98 043 0.00311 391 391 63.25 97 086 0.00284 484 741 52.28 96 811 0.00284 483 366 47.42 5–9 5–9 59.45 10-14 10-14 54.58 15-19 96 536 0.01661 478 669 42.55 15-19 97 235 0.00663 484 562 49.73 20-24 94 932 0.02471 468 795 38.22 20-24 96 590 0.00819 480 973 45.04 25-29 25-29 92 586 0.03277 455 344 34.13 95 799 0.01390 475 666 40.39 89 552 0.04494 0.01648 30-34 437 696 30-34 35.93 30.20 94 467 468 446 35-39 85 527 0.05609 415 642 26.50 35-39 92 911 0.02643 458 416 31.49 22.93 40-44 80 730 0.07189 40-44 0.03744 389 141 90 456 443 811 27.28 45-49 74 927 0.09749 356 370 19.51 45-49 87 069 0.05947 422 399 23.24 16.35 50-54 67 622 0.12583 316 836 50-54 81 891 0.07624 393 845 19.55 55-59 59 113 0.17579 269 586 13.34 55–59 75 647 0.12269 355 033 15.96 48 721 0.26253 35 931 0.31937 10.65 60-64 211 630 60-64 66 366 0.18977 300 344 12.84 0.19754 65-69 150 965 8.56 65–69 53 771 242 303 10.26 6.40 70-74 24 455 0.41445 96 938 70-74 43 150 0.32891 180 267 7.17 75 and 75 and over 14 320 1.00000 59 512 4.16 over 28 957 1.00000 129 200 4.46

⁽a) excludes Tasmania and the Australian Capital Territory.

lx number of persons at exact age x

qx proportion dying between exact age x and exact age x + n, where n is the age interval

Lx $\,$ number of person years lived within the age interval x to x+n

e°x expectation of life at exact age x

7.5 EXPERIMENTAL LIFE TABLE OF INDIGENOUS PEOPLE, 1998-1999—New South Wales

Lx e°x lx qx Age lx ax Males Females 0 100 000 0.02442 97 851 55.61 100 000 0.01957 98 278 388 879 56.00 1-4 1-4 97 558 0.00529 98 043 0.00203 391 686 64.30 97 042 0.00209 484 703 52.29 96 839 0.00174 483 775 47.39 97 844 0.00290 488 512 97 561 0.00165 487 402 5–9 5–9 60.42 10-14 10-14 55.59 15-19 96 671 0.01468 479 806 42.47 15-19 97 400 0.00684 485 335 50.68 20-24 95 252 0.02075 471 317 38.07 20-24 96 734 0.00801 481 733 46.01 25-29 25-29 93 275 0.04251 456 462 33.82 95 959 0.01295 476 691 41.36 0.01245 89 310 0.05130 30-34 435 097 30-34 36.87 30.21 94 717 470 636 35-39 84 729 0.05672 411 629 26.71 35-39 93 537 0.02376 462 132 32.31 23.17 0.02772 40-44 79 923 0.05954 387 718 40-44 450 248 28.03 91 315 45-49 75 164 0.09102 358 718 19.47 45-49 88 784 0.05752 431 152 23.76 16.17 50-54 68 323 0.09894 324 715 50-54 83 677 0.06288 405 231 20.06 55-59 61 563 0.18816 278 857 12.67 55–59 78 415 0.12408 367 753 16.23 210 858 49 980 0.31245 34 364 0.34705 60-64 60-64 68 686 0.19238 310 396 13.18 0.14363 142 003 8.46 90 890 6.62 65-69 65-69 55 472 257 443 10.72 70-74 22 438 0.37968 70-74 47 505 0.34191 196 918 7.10 75 and 75 and over 13 918 1.00000 57 672 4.14 over 31 262 1.00000 140 525 4.50

lx number of persons at exact age x

qx proportion dying between exact age x and exact age x + n, where n is the age interval

Lx $\,$ number of persons years lived within the age interval x to x+n

 $e^{\circ}x$ expectation of life at exact age x

7.6 EXPERIMENTAL LIFE TABLE OF INDIGENOUS PEOPLE, 1997–1999—Victoria

Lx e°x qx Age lx ax Males Females 0 100 000 0.02442 97 851 56.08 100 000 0.01957 98 278 65.22 388 817 56.48 1-4 1-4 97 558 0.00552 98 043 0.00278 391 480 65.52 97 019 0.00204 484 603 52.78 96 822 0.00174 483 687 47.89 97 770 0.00205 488 350 97 570 0.00248 487 243 5–9 5–9 61.70 10-14 10-14 56.82 15-19 96 653 0.02511 477 199 42.97 15-19 97 327 0.00289 485 934 51.95 464 767 20-24 94 226 0.02702 39.01 20-24 97 046 0.00323 484 448 47.10 91 680 0.02735 89 173 0.05333 25-29 25-29 452 133 35.02 96 733 0.01519 479 991 42.24 0.01893 471 807 30-34 433 974 30-34 37.85 30.94 95 263 35-39 84 417 0.05220 411 069 27.54 35-39 93 459 0.02678 461 041 33.54 80 011 0.04400 76 490 0.08079 23.92 0.01369 40-44 40-44 29.39 391 251 90 957 451 671 45-49 367 001 19.90 45-49 89 712 0.03150 441 493 24.76 70 311 0.12920 16.43 50-54 328 843 50-54 86 886 0.06270 420 810 20.49 55-59 61 227 0.15821 281 916 13.50 55–59 81 438 0.09244 388 371 16.69 228 860 166 205 10.57 60-64 60-64 73 910 0.20873 330 983 13.14 0.13189 58 483 65-69 65-69 7.89 273 133 10.94 97 778 5.64 70-74 26 503 0.52427 70-74 50 770 0.32836 212 173 7.22 75 and 75 and over 12 608 1.00000 51 702 4.10 over 34 099 1.00000 154 562 4.53

lx number of persons at exact age x

qx proportion dying between exact age x + n, where n is the age interval

Lx $\,$ number of person years lived within the age interval x to x+n

 $e^{\circ}x$ expectation of life at exact age x

7.7 EXPERIMENTAL LIFE TABLE OF INDIGENOUS PEOPLE, 1997–1999—Queensland

Age	lx	qx	Lx	e°x	Age	lx	qx	Lx	e°x
			• • • • • • •						
		Males					Females		
0	100 000	0.02442	97 851	55.88	0	100 000	0.01957	98 278	62.48
1–4	97 558	0.00455	389 081	56.28	1–4	98 043	0.00357	391 264	62.73
5–9	97 114	0.00329	484 773	52.53	5–9	97 693	0.00227	487 908	58.95
10-14	96 795	0.00258	483 350	47.69	10-14	97 471	0.00221	486 815	54.08
15–19	96 545	0.01661	478 718	42.81	15–19	97 255	0.00502	485 055	49.19
20–24	94 942	0.02827	468 000	38.49	20–24	96 767	0.00796	481 908	44.43
25-29	92 258	0.02812	454 805	34.54	25-29	95 996	0.01611	476 117	39.76
30-34	89 664	0.03201	441 145	30.47	30-34	94 450	0.01573	468 536	35.37
35–39	86 794	0.04724	423 721	26.39	35–39	92 964	0.02141	459 845	30.90
40–44	82 694	0.07695	397 563	22.58	40–44	90 974	0.04269	445 158	26.52
45–49	76 331	0.09975	362 620	19.25	45-49	87 090	0.05323	423 858	22.59
50-54	68 717	0.14545	318 597	16.11	50-54	82 454	0.08051	395 673	18.72
55–59	58 722	0.18340	266 685	13.42	55–59	75 815	0.14838	350 954	15.14
60-64	47 952	0.21103	214 463	10.87	60–64	64 566	0.20771	289 303	12.34
65–69	37 833	0.34530	156 506	8.11	65–69	51 155	0.22724	226 714	9.92
70–74	24 769	0.46065	95 321	6.07	70–74	39 531	0.33411	164 635	7.11
75 and					75 and				
over	13 359	1.00000	55 117	4.13	over	26 323	1.00000	116 357	4.42

lx number of persons at exact age x

qx proportion dying between exact age x + n, where n is the age interval

Lx $\,$ number of person years lived within the age interval x to x + n

 $e^{\circ}x$ expectation of life at exact age x

7.8 EXPERIMENTAL LIFE TABLE OF INDIGENOUS PEOPLE, 1997-1999—South Australia

Lx e°x qx Age ax Males Females 0 100 000 0.02442 97 851 54.41 100 000 0.01957 98 278 1-4 1-4 389 380 54.76 97 558 0.00344 98 043 0.00342 391 304 62.74 485 299 97 707 0.00173 488 114 97 538 0.00388 486 747 5–9 97 222 0.00334 5–9 50.95 58.95 97 222 0.00334 485 299 50.95 96 898 0.00174 484 066 46.11 10-14 10-14 54.05 15-19 96 729 0.02805 476 861 41.19 15-19 97 160 0.01129 483 060 49.25 20-24 94 016 0.01617 466 276 37.30 20-24 96 064 0.00252 479 713 44.78 25-29 25-29 92 495 0.04201 452 760 32.88 95 822 0.01683 475 077 39.89 0.01563 467 364 88 609 0.06959 30-34 427 631 30-34 35.53 29.21 94 209 35-39 82 443 0.05841 400 177 26.21 35-39 92 736 0.04451 453 364 31.05 0.03437 22.68 40-44 77 628 0.09308 40-44 435 432 27.39 370 073 88 609 45-49 70 402 0.08730 336 645 19.75 45-49 85 564 0.09976 406 479 23.27 50-54 64 256 0.15379 296 575 16.40 50-54 77 028 0.08921 367 961 20.57 55-59 54 374 0.16451 249 507 13.92 55-59 70 156 0.07024 338 462 17.34 11.17 60-64 60-64 45 429 0.23188 200 809 65 229 0.15259 301 260 13.46 34 895 0.28242 0.17337 65-69 149 836 8.79 98 009 6.26 149 836 8.79 65–69 55 275 252 420 10.44 70-74 25 040 0.43434 70-74 45 693 0.34048 189 569 7.10 75 and 75 and 14 164 1.00000 over 58 797 4.15 over 30 135 1.00000 134 977 4.48

Ix number of persons at exact age x

qx proportion dying between exact age x and exact age x + n, where n is the age interval

Lx $\,$ number of person years lived within the age interval x to x + n

e°x expectation of life at exact age x

7.9 EXPERIMENTAL LIFE TABLE OF INDIGENOUS PEOPLE, 1997-1999—Western Australia

Lx e°x qx Age lx ax Males Females 0 100 000 0.02442 97 851 54.92 100 000 0.01957 98 278 1-4 1-4 97 558 0.00592 388 707 55.29 98 043 0.00126 391 895 63.08 96 980 0.00293 484 191 51.62 96 696 0.00390 482 538 46.76 97 920 0.00062 489 447 97 859 0.00512 488 041 5–9 5–9 59.16 10-14 10-14 54.20 15-19 96 319 0.01568 477 820 41.93 15-19 97 357 0.00642 485 226 49.46 20-24 94 809 0.03107 466 681 37.56 20-24 96 733 0.01254 480 631 44.77 25-29 25-29 91 864 0.02847 452 779 33.69 95 519 0.01138 474 880 40.30 0.01677 89 248 0.04823 30-34 435 479 30-34 468 206 35.74 29.60 94 433 35-39 84 943 0.06178 411 598 25.97 35-39 92 850 0.02633 458 136 31.30 0.04240 442 441 40-44 79 696 0.08521 40-44 90 405 381 500 22.52 27.08 45-49 72 904 0.10225 345 885 19.38 45-49 86 572 0.04412 423 310 23.17 50-54 65 450 0.12836 306 245 16.31 50-54 82 752 0.09310 394 501 19.13 55-59 57 048 0.18810 258 414 13.34 55-59 75 048 0.12244 352 270 15.83 196 726 46 317 0.30106 32 373 0.25724 10.85 60-64 60-64 65 860 0.18606 298 663 12.69 0.25619 65-69 65-69 141 046 9.45 53 606 233 695 10.02 141 046 9.45 99 222 6.86 24 045 0.34943 70-74 70-74 39 872 0.26589 172 857 7.61 75 and 75 and

over

29 270 1.00000 130 734

4.47

over

65 613

4.19

15 643 1.00000

lx number of persons at exact age x

qx proportion dying between exact age x and exact age x + n, where n is the age interval

Lx $\,$ number of person years lived within the age interval x to x + n

e°x expectation of life at exact age x

7.10 EXPERIMENTAL LIFE TABLE OF INDIGENOUS PEOPLE, 1997–1999—Northern Territory

Lx e°x qx Age lx ax Males Females 0 100 000 0.02442 97 851 56.25 100 000 0.01957 98 278 1-4 1-4 97 558 0.00353 389 357 56.65 98 043 0.00552 390 733 61.60 97 213 0.00352 96 871 0.00293 485 211 97 502 0.00283 486 819 97 226 0.00436 485 068 5–9 5–9 52.85 57.94 485 211 52.85 483 646 48.03 10-14 10-14 53.10 15-19 96 588 0.01377 479 613 43.16 15-19 96 802 0.00922 481 778 48.32 20-24 95 258 0.02121 471 236 38.73 20-24 95 909 0.00866 477 471 43.74 25-29 25-29 93 237 0.02631 460 052 34.51 95 079 0.01229 472 472 39.10 90 784 0.04059 0.02499 30-34 444 708 30-34 34.56 30.38 93 910 463 682 35-39 87 099 0.06668 420 978 26.56 35-39 91 563 0.03472 449 866 30.38 0.05407 81 292 0.07732 40-44 390 745 40-44 429 971 26.38 23.28 88 384 45-49 75 006 0.11627 353 229 20.02 45-49 83 605 0.08965 399 288 22.75 50-54 66 285 0.13093 309 730 17.32 50-54 76 110 0.07906 365 508 19.74 55-59 57 606 0.13135 269 115 14.56 55-59 70 093 0.10292 332 430 16.22 221 201 11.38 60-64 60-64 62 879 0.16595 288 308 12.80 0.22571 65-69 65-69 38 441 0.27968 165 327 9.06 52 444 232 628 9.85 27 690 0.38978 111 467 6.61 70-74 70-74 40 607 0.35154 167 347 6.99 75 and 75 and over 16 897 1.00000 71 437 4.23 over 26 332 1.00000 116 399 4.42

lx number of persons at exact age x

qx proportion dying between exact age x and exact age x + n, where n is the age interval

Lx $\,$ number of person years lived within the age interval x to x + n

e°x expectation of life at exact age x

EXPLANATORY NOTES

INTRODUCTION

- **1** The registration of deaths is the responsibility of the individual State and Territory Registrars and is based on information supplied by a relative or other person acquainted with the deceased, or an official of the institution where the death occurred and on information supplied by a medical practitioner as to the cause of death. This information is supplied to the Australian Bureau of Statistics (ABS) by individual Registrars for compilation into the aggregate statistics in this publication.
- **2** In the main, statistics in this publication refer to deaths registered by the State and Territory Registrars during the calendar year shown. There is usually an interval between the occurrence and registration of a death and, as a result of delays in registration, some deaths occurring in one year are not registered until the following year or even later.

DEATHS REGISTERED IN THE SAME YEAR AS THEY OCCURRED

Year	%	Year	%
1988	92.9	1994	95.6
1989	93.8	1995	95.2
1990	92.8	1996	95.2
1991	93.6	1997	95.6
1992	94.3	1998	96.0
1993	94.8	1999	95.8

3 For deaths data, cell values less than three have been randomly allocated a value of zero or three to assist in the preservation of confidentiality of information.

STATES AND TERRITORIES

- **4** Statistics for States and Territories have been compiled and presented in respect of the State or Territory of usual residence of the deceased, regardless of where in Australia the death occurred and was registered.
- **5** Table 2.2 shows the number of deaths cross-classified by State or Territory of usual residence and State or Territory of registration.

STATES AND TERRITORIES continued

6 In 1999 there were 390 overseas usual residents deaths registered in Australia. These have been included in this publication and classified according to the State or Territory in which the death was registered. Australian residents who die overseas are not included, these deaths are registered in the country in which the death occurred.

Deaths of overseas visitors						
State or Territory of registration	1994	1995	1996	1997	1998	1999
• • • • • • • • • • • • • • • • • • • •	• • • • • •	• • • • •	• • • • • •	• • • • • •	• • • • • •	• • • • •
New South Wales	123	108	135	130	120	145
Victoria	50	52	61	55	49	64
Queensland	94	92	106	98	91	90
South Australia	19	19	22	16	21	14
Western Australia	43	48	48	55	61	50
Tasmania	3	4	4	4	4	7
Northern Territory	13	_	15	11	17	16
Australian Capital Territory	7	6	2	6	8	4
Other Territories	_	_	_	_	_	_
Australia	352	329	393	375	371	390

7 Following the 1992 amendments to the Acts Interpretation Act to include the Indian Ocean Territories of Christmas Island and Cocos (Keeling) Islands as part of the geography of Australia, population estimates commencing with September quarter 1993 include estimates for these two Territories. To reflect this change, another category of the State and Territory level has been created, known as Other Territories. Other Territories include Jervis Bay Territory, previously included with the Australian Capital Territory, as well as Christmas Island and the Cocos (Keeling) Islands, previously excluded from population estimates for Australia. Before 1997, cause of death data do not include deaths of persons usually resident in Other Territories. From 1997, cause of death data for residents of Other Territories are included in the total for Australia.

EXCLUSIONS

- **8** Figures in this publication do not include fetal deaths (stillbirths). Statistics on fetal deaths are given in *Causes of Death, Australia* (Cat. no. 3303.0).
- **9** Deaths of Australian residents which took place outside Australia are not included in the statistics.

CAUSES OF DEATH

10 For deaths registered in 1999, the 10th revision of the World Health Organisation's International Classification of Diseases (ICD-10) was introduced for the coding of causes of death. Causes of death descriptions and corresponding codes used in this publication relate to particular causes or groups of causes as classified in ICD-10. The introduction of ICD-10 has broken the underlying cause of death series, particularly at the more detailed level of classification. For information on the differences between ICD-9 and ICD-10, please refer to *Causes of Death, Australia* (Cat. no. 3303.0).

Deaths registered prior to 1999 are coded on the 9th version of the World Health Organisation's International Classification of Diseases (ICD-9). For cause of death tables, time-series data has been included up to 1998 on ICD-9 and new tables have been constructed commencing from 1999 on ICD-10.

The time-series summary table (table 3.2) includes causes of death data. The 1999 data is coded to ICD-10 and is not directly comparable with previous years presented in the table. The 1999 data in this table relates to:

Malignant neoplasms (C00-C99)

Ischaemic heart diseases (I20-I25)

Cerebrovascular diseases (I60–I69)

Chronic lower respiratory diseases (J40–J47)

Accidents (V01–X59)

from the ICD-10 classification.

AUSTRALIAN LIFE TABLES

11 The 1997–1999 life tables are produced by the ABS. The tables differ from those published prior to the 1995 edition of this publication in a number of important respects. Firstly, they are based on three years of population and deaths data. This is designed to reduce the impact of year-to-year statistical variations, particularly at younger ages where there is a small number of deaths and at very old ages where the population at risk is small. Secondly, the population and deaths data are based on Australian residents who are physically present in Australia over the three-year period i.e. Australian residents temporarily overseas are excluded. Thirdly, they have been actuarially graduated on the same principles as those used for the quinquennial Australian life tables prepared by the Australian Government Actuary. Life tables for States and Territories are produced on the same principles as these tables and are available on request or in the *Demography, State* publications (Cat. nos 3311.1–8).

TIME SERIES

- **12** Time series data from 1901 to 1995 is available in the 1995 issue of *Deaths*, *Australia* (Cat. no. 3302.0) and in *Australian Demographic Trends*, 1997 (Cat. no. 3102.0).
- **13** ABS publications draw extensively on information provided freely by individuals, businesses, governments and other organisations. Their continued cooperation is very much appreciated: without it, the wide range of statistics published by the ABS would not be available. Information received by the ABS is treated in strict confidence as required by the *Census and Statistics Act 1905*.

RELATED PUBLICATIONS

- **14** Other ABS publications which may be of interest to users include: Australian Demographic Statistics (Cat. no. 3101.0) issued quarterly Australian Demographic Trends (Cat. no. 3102.0) issued irregularly Births, Australia (Cat. no. 3301.0) issued annually Causes of Death, Australia (Cat. no. 3303.0) issued annually Perinatal Deaths, Australia (Cat. no. 3304.0) issued annually to 1993 Population Projections, Australia 1999–2101(Cat. no. 3222.0) Experimental Projections of the Aboriginal and Torres Strait Islander Population (Cat no. 3231.0) issued irregularly.
- **15** A compendium of all demographic data for each State and Territory has been released in State or Territory specific publications, *Demography, State* (Cat. nos 3311.1–8). These publications are released each year for each State or Territory and contain a variety of demographic data.
- **16** From 1994 detailed State and Territory data for deaths and causes of death are available in *Causes of Death, Australia* (Cat. no. 3301.0). For the years 1990 to 1993 inclusive, additional data on deaths for each State are available in *Deaths* (Cat. nos 3312.1–6).
- **17** Current publications produced by the ABS are listed in the *Catalogue of Publications and Products* (Cat. no. 1101.0). The ABS also issues, on Tuesdays and Fridays, a *Release Advice* (Cat. no. 1105.0) which lists publications to be released in the next few days. Both are available from any ABS office.
- **18** As well as the statistics included in this and related publications, additional information is available from the ABS Website at http://www.abs.gov.au and accessing Themes/Demography.

ADDITIONAL STATISTICS AVAILABLE

19 The ABS can also make available information which is not published. The following table lists the characteristics processed by the ABS for deaths registered. A charge is made for providing unpublished information.

CHARACTERISTICS OF DEATH REGISTRATIONS

Characteristic(a)	Notes on coverage and quality		
Related to the death			
Date of death	Day, month and year		
Date of registration	Month and year available for all States		
Cause of death	Multiple cause of death introduced in 1997		
State of registration	·		
Usual residence at death	Available for statistical local area		
Related to the person			
Age			
Sex			
Date of birth	NSW, NT, ACT, SA and WA.		
Marital status			
Occupation	Poor quality		
Date of marriage	WA and NT only		
Age at marriage	Not available in Vic.; age at last marriage for Tas. For		
	other States is either first or subsequent marriage		
Number of children			
Country of birth			
Duration of residence in Australia	Relates to overseas-born population		
Indigenous status	Variable quality		

(a) State or Territory of registration, not of usual residence. Available nationally unless otherwise stated.

APPENDIX **1**

INDIGENOUS LIFE TABLES

METHOD

Experimental Indigenous abridged life tables were produced for the periods 1990–1992, 1995–1997 and 1997–1999. During these periods, only South Australia, Western Australia and the Northern Territory had a relatively high coverage of Indigenous deaths. For this reason experimental Indigenous life tables for these three States and Territory were produced for all three periods. Experimental life tables were also produced for New South Wales, Victoria and Queensland but only for 1997–1999 as the coverage of Indigenous deaths has improved considerably for Victoria and Queensland in 1997–1999 and for New South Wales in 1998–1999. Because of the small number of registered Indigenous deaths and/or very low coverage, Indigenous life tables were not produced for Tasmania and the Australian Capital Territory. Experimental Indigenous life tables for all of Australia were produced only for the period 1997–1999. Indigenous deaths registered in Tasmania and the Australian Capital Territory were excluded from the Australian tables. This exclusion would have only a minimal effect on the Australia level Indigenous life expectancy.

The 1990–1992, 1995–1997 and 1997–1999 life tables used mortality rates based on an average annual number of Indigenous deaths registered in 1990–1992, 1995–1997 and 1997–1999 respectively. Deaths were averaged over the three-year periods to smooth out the year to year irregularities in the number of registered deaths in many areas and age groups. The only exception was the New South Wales life tables which were based on the average deaths registered only in 1998–1999.

Experimental estimated resident Indigenous population (ERP) at June 1991 (both 1991 and 1996 Census based estimates), experimental estimated resident Indigenous population at June 1996 and experimental projected resident Indigenous population at June 1998 were used as mid-year populations to calculate mortality rates for 1990–1992, 1995–1997 and 1997–1999 respectively.

Adjustment

Two sets of experimental Indigenous life tables were produced. One set was based on the number of registered deaths which were not adjusted for under-coverage. There is under-coverage of Indigenous deaths to some degree in all States and Territories. To compensate for under-coverage, the other set was produced after inflating the number of registered deaths in the State or Territory by the respective adjustment factor. This is the set published in section 7 of this publication.

The ABS calculates, for each State and Territory and Australia, the coverage of Indigenous deaths by dividing the number of deaths registered by the number of deaths projected from the 1996 and 1991 Census-based experimental estimates. The projected deaths are derived using mortality levels based on the 1991–1996 experimental Indigenous life tables. The 1996 Census-based (low series) coverage estimates were used to obtain an average coverage of Indigenous deaths for the periods 1990–1992, 1995–1997 and 1997–1999. The reciprocal of the average coverage was then used as an adjustment factor to obtain adjusted deaths. No separate adjustment factor

ADJUSTMENT continued

was derived for Australia, instead the number of adjusted deaths in New South Wales, Victoria, Queensland, South Australia, Western Australia and the Northern Territory were combined together to construct life tables for Australia.

RESULTS

At the national level the life expectancy at birth in the period 1997–1999 was estimated to be about 55.6 years for Indigenous males. This compares to the life expectancy of Indigenous males of 56.9 years previously estimated for 1991–1996, a decrease of 1.3 years. The life expectancy at birth of Indigenous females in the 1997–1999 period was estimated to be 63.0 years, 1.3 years more than that in 1991-1996. There are several possible explanations for the apparent decrease in Indigenous male life expectancy. It could be due to improved recording of Indigenous deaths, particularly male deaths, including the introduction of a question on Indigenous status on the Queensland death registration forms in 1996. It could also be due to the differences in the method used. The previous Indigenous life tables used the Preston-Hill method to estimate the coverage of Indigenous deaths registered in the 1991-1996 intercensal period. The present analysis used coverage estimates which were derived by dividing the number of deaths registered by the number of deaths projected from the 1996 Census-based experimental projections. For these reasons, comparison of life expectancy estimates presented in this publication with estimates from other sources should only be undertaken with extreme caution. The lower male life expectancy in 1997-1999 than in 1991-1996 does not necessarily mean that the Indigenous male mortality has increased during this period.

RESULTS continued

EXPERIMENTAL ESTIMATES OF LIFE EXPECTANCY AT BIRTH, Indigenous							
	NSW(a)	Vic.	Qld	SA	WA	NT	Aust.(b)
• • • • • • • • • • • • • •	OBSE	RVED LIF	E EXPEC	CTANCY			
		MA	LES				
1990-1992(c)	n.a.	n.a.	n.a.	58.0	57.8	55.4	n.a.
1990-1992(d)	n.a.	n.a.	n.a.	60.0	59.4	56.5	n.a.
1995–1997	n.a.	n.a.	n.a.	60.1	59.8	57.6	n.a.
1997-1999	65.8	64.5	62.9	61.6	60.0	57.8	62.5
			=				
		FEM	IALES				
1990-1992(c)	n.a.	n.a.	n.a.	64.2	62.4	59.3	n.a.
1990-1992(d)	n.a.	n.a.	n.a.	65.8	64.6	60.9	n.a.
1995–1997	n.a.	n.a.	n.a.	68.4	65.6	63.3	n.a.
1997–1999	71.4	71.6	68.5	68.0	66.6	62.4	68.2
• • • • • • • • • • • • • •							
	ADJU	STED LIF	E EXPEC	TANCY			
		N 1 A	LES				
1990-1992(c)	n.a.	n.a.	n.a.	51.2	53.4	54.1	n.a.
1990–1992(d)	n.a.	n.a.	n.a.	52.5	55.0	54.1	n.a.
1995–1997	n.a.	n.a.	n.a.	53.7	55.7	55.5	n.a.
1997–1999	55.6	56.1	55.9	54.4	54.9	56.3	55.6
1557 1555	55.0	30.1	33.3	54.4	54.5	30.5	55.0
FEMALES							
1990-1992(c)	n.a.	n.a.	n.a.	57.7	58.7	58.3	n.a.
1990-1992(d)	n.a.	n.a.	n.a.	59.3	60.9	59.7	n.a.
1995-1997	n.a.	n.a.	n.a.	62.8	62.3	61.5	n.a.
1997–1999	64.0	65.2	62.5	62.5	62.8	61.4	63.0

n.a. not available

The observed life expectancies are higher than the adjusted life expectancies in all States and Territory, for both sexes. The observed life expectancies are based on the actual number of registered deaths. As Indigenous deaths are under-registered to some extent in all States/Territories, the observed life expectancies are over-estimates of the true life expectancies. The adjusted life expectancies, on the other hand, are based on the number of deaths which are obtained after inflating the observed number of deaths by an adjustment factor and hence are expected to be closer to reality than the observed life expectancies.

⁽a) Based on deaths for 1998-1999.

⁽b) Excludes Tasmania and the Australian Capital Territory.

⁽c) Derived using the experimental Indigenous ERP at June 1991 (1991 Census based) as the mid-year population.

⁽d) Derived using the experimental Indigenous ERP at June 1991 (1996 Census based) as the mid-year

GLOSSARY

Age-specific death rate

Age-specific death rates are the number of deaths registered (or occurred) during the calendar year at a specified age per 1,000 of the estimated resident population of the same age at mid-point of the year (30 June). Pro rata adjustment is made in respect of deaths for which the age of the deceased is not given.

Country of birth

The classification of countries is the Standard Australian Classification of Countries (SACC). For more detailed information refer to the Standard Australian Classification of Countries (SACC) (Cat. no. 1269.0).

This classification replaces the Australian Standard Classification of Couintries for Social Statistics (ASCCSS).

Crude death rate

The crude death rate is the number of deaths registered during the calendar year per 1,000 estimated resident population at 30 June. For years prior to 1992, the crude death rate was based on the mean estimated resident population for the calendar year.

Death

For the purposes of the Deaths and Causes of Death collections conducted by the ABS, a death refers to any death which occurs in, or en route to Australia and is registered with a State or Territory Registry of Births, Deaths and Marriages.

Estimated resident population

Estimated resident population (ERP) are estimates of the Australian population obtained by adding to the estimated population at the beginning of each period the components of natural increase (on a usual residence basis) and net overseas migration. For the States and Territories, account is also taken of estimated interstate movements involving a change of usual residence.

Estimates of the resident population are based on adjusted (for underenumeration) census counts by place of usual residence, to which are added the number of Australian residents estimated to have been temporarily overseas at the time of the Census. Overseas visitors in Australia are excluded from this calculation.

After each census, estimates for the preceding intercensal period are revised by incorporating an additional adjustment (intercensal discrepancy) to ensure that the total intercensal increase agrees with the difference between the ERPs at the two respective census dates.

The concept of ERP links people to a place of usual residence within Australia. Usual residence is that place where each person has lived or intends to live for six months or more from the reference date for data collection.

Indigenous status

Persons who identify as being of Aboriginal or Torres Strait Islander origin.

Indigenous death

The death of a person who is identified as being of Aboriginal or Torres Strait Islander origin on the death information form.

Infant death

An infant death is the death of a live-born child who dies before reaching his/her first birthday.

Infant mortality rate

The number of deaths of children under one year of age in a calendar year per 1,000 live births in the same calendar year.

Intercensal discrepancy

Intercensal discrepancy is the difference between two estimates of a census year population, the first based on the latest census and the second arrived at by updating the previous census date estimate with intercensal components of population change which take account of information available from the latest census. It is caused by errors in the start and/or finish population estimates and/or in estimates of births, deaths or migration in the intervening period which cannot be attributed to a particular source.

Life expectancy

Life expectancy refers to the average number of additional years a person of a given age and sex might expect to live if the age-specific death rates of the given period continued throughout his/her lifetime.

Life table death rate

The life table death rate represents the annual number of deaths (per 1,000 population) that would occur based on the death rates and population structure of the life table.

Marital status

Two separate concepts are measured by the Australian Bureau of Statistics. These are registered marital status and social marital status. They have different personal characteristics and are independent variables with separate classifications. Marital status relates to registered marital status which refers to formally registered marriages or divorces for which the partners hold a certificate. Four categories of marital status are identified: never married, married, widowed and divorced.

Median value

For any distribution the median value (age, duration, interval) is that value which divides the relevant population into two equal parts, half falling below the value, and half exceeding it. Where the value for a particular record has not been stated, that record is excluded from the calculation.

Natural Increase

Excess of births over deaths.

Neonatal death

For neonatal deaths a birthweight and period of gestation criterion apply:

- A neonatal death is the death within 28 days of birth of a child weighing at least 500 grams at delivery (or of at least 22 weeks gestation, if birthweight was unavailable) who after delivery, breathes or shows any evidence of life such as a heartbeat. Applies to data collected prior to 1997.
- A neonatal death is the death within 28 days of birth of a child weighing at least 400 grams at delivery (or of at least 20 weeks gestation, if birthweight was unavailable) who after delivery, breathes or shows any evidence of life such as a heartbeat. Applies to data collected from 1997 onwards.

Wherever used, the definition adopted is indicated.

Sex ratio

The sex ratio relates to the number of males per 100 females. The sex ratio is defined for total population, at birth, at death and among age groups by appropriately selecting the numerator and denominator of the ratio.

Standardised death rate (SDR)

Standardised death rates enable the comparison of death rates between populations with different age structures by relating them to a standard population. The ABS standard populations relate to the years ending in 1 (e.g. 1991). The current standard population is all persons in the 1991 Australian population. They are expressed per 1,000 or 100,000 persons. There are two methods of calculating standardised death rates:

- The *direct method*—this is used when the populations under study are large and the age-specific death rates are reliable. It is the overall death rate that would have prevailed in the standard population if it had experienced at each age the death rates of the population under study.
- The *indirect method*—this is used when the populations under study are small and the age-specific death rates are unreliable or not known. It is an adjustment to the crude death rate of the standard population to account for the variation between the actual number of deaths in the population under study and the number of deaths which would have occurred if the population under study had experienced the age-specific death rates of the standard population.

Wherever used, the definition adopted is indicated.

Standardised mortality ratio

(SMR)

The ratio of the actual number of deaths in the population under study and the number of deaths which would have occurred if the population under study had experienced the age-specific death rates of the standard population (see also - Standardised death rate, *The indirect method*).

State or Territory of registration

State or Territory of registration refers to the State or Territory in which the event was registered.

State or Territory of usual

residence

Refers to the State or Territory of usual residence of the population in estimated resident population and to the State or Territory of usual residence of the deceased.

Total fertility rate

The sum of age-specific fertility rates (live births at each age of mother per female population of that age). It represents the number of children a woman would bear during her lifetime if she experienced current age-specific fertility rates at each age of her reproductive life.

Year of occurrence

Data presented on year of occurrence basis relate to the date the death occurred.

Year of registration

Data presented on year of registration basis relate to the date the death was registered.

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