

**CAUSES OF DEATH**

AUSTRALIA

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I N Q U I R I E S

For further information about these and related statistics, contact the National Information and Referral Service on 1300 135 070.

NOTES

ABOUT THIS ISSUE

This publication brings together statistics and indicators for deaths, including perinatal deaths, registered in Australia in 2005. These statistics have been compiled from data made available to the Australian Bureau of Statistics (ABS) by the Registrar of Births, Deaths and Marriages in each state or territory.

All deaths registered in 2005 have been coded using the tenth revision of the *International Classification of Diseases and Related Health Problems (ICD-10)* as released by the *World Health Organisation*.

CHANGES TO THIS ISSUE

This issue now includes a publication and spreadsheets. The number of tables in the publication has been reduced and some tables have been changed. All publication tables are available in the spreadsheets. The spreadsheets also include the data that have been removed from the publication and additional time series information. From 2005 onwards, *Causes of Death, Australia (3303.0)* will include a publication and spreadsheets.

CAUTION

The quality of cause of death coding is affected by a range of factors including delays in finalising coronial processes. Paragraphs 27 to 29 of the Explanatory Notes explain some recent improvements in the quality of cause of death coding and highlight areas where both the level of recorded deaths attributed to certain causes, and observed changes over time in those causes, are likely to have been affected by delays in finalising a cause.

Brian Pink
Australian Statistician

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CHAPTER 1

UNDERLYING CAUSE OF DEATH

INTRODUCTION

All deaths registered in 2005 have been coded using the tenth revision of the *International Classification of Diseases and Related Health Problems (ICD-10)* as released by the *World Health Organization (WHO)*.

CAUSES OF DEATH

There were 130,714 deaths registered in 2005, a lower number of deaths than the 132,508 registered in 2004. The standardised death rate recorded in 2005 was 598 deaths per 100,000 population, lower than the standardised death rate of 626 deaths per 100,000 population in 2004 and 778 deaths per 100,000 population in 1995.

Males accounted for 67,241 (51.4%) deaths registered in 2005, similar to previous years with 68,395 (51.6%) in 2004 and 68,330 (51.7%) in 2003. Female deaths totalled 63,473 (48.6%) in 2005, 64,113 (48.4%) in 2004 and 63,962 (48.3%) in 2003.

The standardised death rate for males in 2005 was 728 deaths per 100,000, a decrease from 770 per 100,000 in 2004 and 983 deaths per 100,000 in 1995. Over the same period, female standardised death rates have also decreased, from 623 per 100,000 population in 1995 and 511 in 2004, to 490 per 100,000 in 2005.

The Northern Territory recorded the highest standardised death rate in 2005 (855 deaths per 100,000 population), while the ACT recorded the lowest rate (563 deaths per 100,000 population). The Northern Territory experienced an increase from 2004 when it was 822. South Australia and the ACT both experienced small increases. All other states decreased from 2004. Decreases for New South Wales and Queensland are partly due to delays in processing death registrations. (See Explanatory Note 12 for more information).

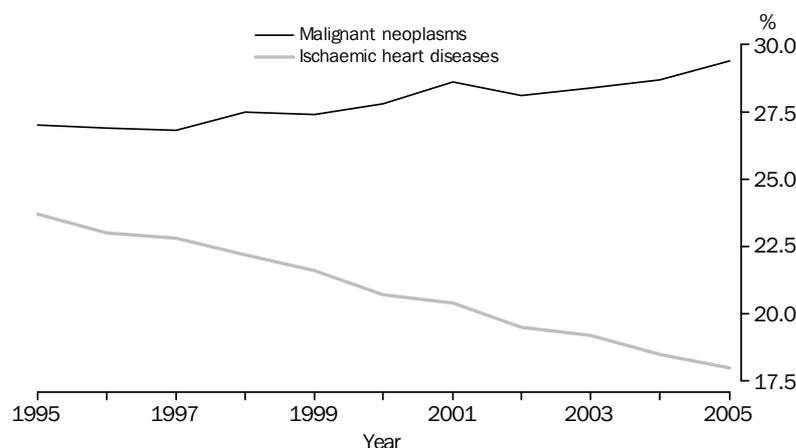
All states have experienced decreases in standardised death rates from 1995. The Northern Territory had the largest decrease from 1,143 to 855 deaths per 100,000 population and the ACT the smallest, from 655 to 563.

In 2005, Malignant neoplasms were the main underlying cause for 38,380 deaths, representing 29.4% of all deaths. This was an increase from the 37,989 (28.7%) deaths with Malignant neoplasms as the main underlying cause in 2004. Ischaemic heart disease was the underlying cause of 23,570 deaths in 2005, and 24,576 deaths in 2004. This cause accounted for 18.0% and 18.5% of all deaths in 2005 and 2004 respectively. As the graph below shows, the gap between the proportion of deaths due to Malignant neoplasms and Ischaemic heart disease continued to widen. The proportion of deaths due to Ischaemic heart disease has consistently decreased from 23.7% in 1995 to 18.0% in 2005. The proportion of deaths due to Malignant neoplasms has increased from 27.0% to 29.4% over the same period.

CAUSES OF DEATH

continued

SELECTED CAUSES OF DEATH AS A PROPORTION OF ALL DEATHS—AUSTRALIA



MALIGNANT NEOPLASMS

There have been decreases in rates for most types of cancers between 1995 and 2005. The standardised death rate from Malignant neoplasms was 178 deaths per 100,000 population in 2005 compared with 205 per 100,000 in 1995.

Deaths from cancers of the Digestive organs fell from 57 deaths per 100,000 population in 1995 to 49 per 100,000 in 2005. More specifically, the largest decrease was for Colon cancer, which fell from 21 deaths per 100,000 in 1995 to 12 deaths per 100,000 population in 2005.

Over the same period, there were marginal increases (less than 1 death per 100,000) in cancers of the Liver and intrahepatic bile ducts, Melanoma of skin and Rectosigmoid junction, rectum, anus and anal canal.

The standardised death rate for males from Malignant neoplasms decreased from 271 to 226 per 100,000 population between 1995 and 2005. The corresponding decrease for females was from 160 per 100,000 in 1995 to 141 per 100,000 in 2005.

There were other major decreases in the standardised death rate in particular types of cancers for males between 1995 and 2005. Deaths from cancers of the Digestive organs fell from 75 to 62 deaths per 100,000 population between 1995 and 2005. The standardised death rate from Prostate cancer fell from 41 per 100,000 in 1995 to 33 per 100,000 in 2005.

There was also a major decrease in male deaths from Trachea, bronchus and lung cancers, which fell from 64 per 100,000 in 1995 to 48 per 100,000 in 2005.

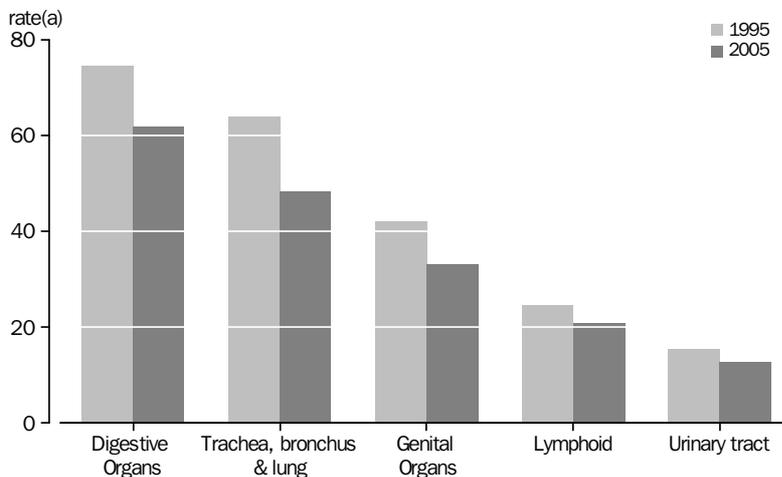
There were increases in the standardised death rate in particular types of cancers for males between 1995 and 2005. These include cancer of the Liver and intrahepatic bile ducts from 5 to 6 per 100,000 and Melanoma of skin from 8 to 9 per 100,000.

For females there was a decrease in deaths from Breast cancer, which fell from 31 deaths per 100,000 of the female population in 1995 to 24 deaths per 100,000 in 2005. Female deaths from cancers of the Digestive organs fell from 44 to 38 per 100,000 population between 1995 and 2005.

MALIGNANT NEOPLASMS
continued

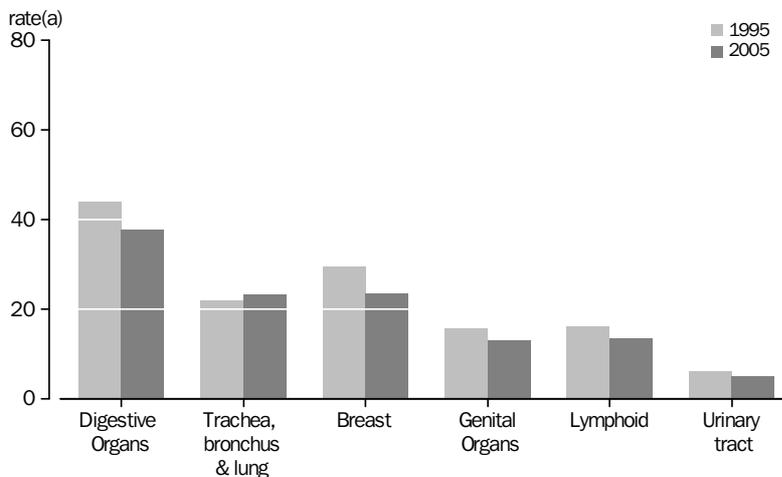
Between 1995 and 2005, the standardised death rate for Liver and intrahepatic bile ducts for females increased from 2 to 3 per 100,000 and Trachea, bronchus and lung from 22 to 23 per 100,000.

STANDARDISED DEATH RATES, Selected Malignant neoplasms—Males



(a) Per 100,000 estimated resident population.

STANDARDISED DEATH RATES, Selected Malignant neoplasms—Females



(a) Per 100,000 estimated resident population.

ISCHAEMIC HEART
DISEASE

The standardised death rate for Ischaemic heart disease was 106 deaths per 100,000 population in 2005 compared with 187 deaths per 100,000 in 1995.

The standardised death rate for Acute myocardial infarction, which in 2005 accounted for 50.3% of all Ischaemic heart disease deaths, fell from 115 deaths per 100,000 population in 1995 to 54 deaths per 100,000 in 2005.

The percentage decreases in Ischaemic heart disease for males and females over this period were similar at 23% and 17% respectively. However, the standardised death rates were different. In 2005, there were 137 male deaths per 100,000 males and 81 per 100,000 females compared with 248 per 100,000 for males and 141 per 100,000 for females, in 1995.

EXTERNAL CAUSES

Deaths from External causes include those from accidents, poisonings and violence. In 2005, External causes accounted for 8,015 deaths, or 6.1% of all registered deaths. This was a slight increase from 2004 when 7,966 deaths (6.0%) were attributed to external causes. The standardised death rate was 38 per 100,000 of population in 2005, a decrease from 39 in 2004 and from 42 per 100,000 population in 1995.

There were 2,101 deaths coded to Intentional self-harm (suicide) in 2005, more than the 2,098 deaths in 2004. The standardised death rate from suicide in 2005 was 16 per 100,000 males and 4 per 100,000 females, which were both decreases from the respective rates recorded in 2004.

It should be noted that there are a number of issues affecting the coding of intentional self harm (see Explanatory note 29).

DEATHS OF INDIGENOUS PEOPLE

Coverage of deaths of Aboriginal and Torres Strait Islander Australians is incomplete due to differential levels of recording of Indigenous status on death information forms across jurisdictions. Deaths by underlying cause by Indigenous status are presented for selected separate jurisdictions in Table 1.7 (see Explanatory Note 30).

Caution should be exercised in analysing these data, taking account of known coverage deficiencies. For recent analyses and advice on the preferred levels of jurisdictional analysis, users are referred to Chapter 9 of *"The Health and Welfare of Australia's Aboriginal and Torres Strait Islander Peoples 2005"* (ABS cat no 4704.0).

YEARS OF POTENTIAL LIFE LOST (YPLL)

Years of potential life lost is a measure of premature mortality for deaths occurring between the ages of 1 year and 78 years inclusive. (*Refer to the Technical Note for further detail*). In 2005, the estimates of years of potential life lost (YPLL) were 606,597 years for males and 328,904 years for females for all causes of death. This represents a decrease from 2004 for both males and females, when the estimated YPLL was 615,527 and 339,226 respectively.

There was a slight decrease in the proportion of the YPLL from Malignant Neoplasms from 30.4% for males in 2004 to 29.9% in 2005. In contrast, the proportion of the YPLL from Malignant Neoplasms for females increased slightly from 43.6% in 2004 to 44.4% in 2005. The proportion of the YPLL from Ischaemic heart disease for males decreased slightly from 13.4% in 2004 to 12.9% in 2005 however the proportion for females was 6.5% for both 2004 and 2005.

As years of potential life lost takes age at death into account, the proportion of YPLL for particular causes will vary compared to those causes as a proportion of deaths in the 1-78 years age group. Major contributors to YPLL are deaths in younger age groups and large numbers of deaths in older age groups within the 1-78 years group.

For males there is a difference between the proportion of the YPLL from Malignant Neoplasms (29.9%) and the proportion of all male deaths aged 1-78 years from the same underlying cause (38.3%). There is very little difference for females between the proportion of years of potential life lost (44.4%) and the proportion of all female deaths aged 1-78 years with Malignant neoplasms as the underlying cause (45.1%).

YEARS OF POTENTIAL
LIFE LOST (YPLL)
continued

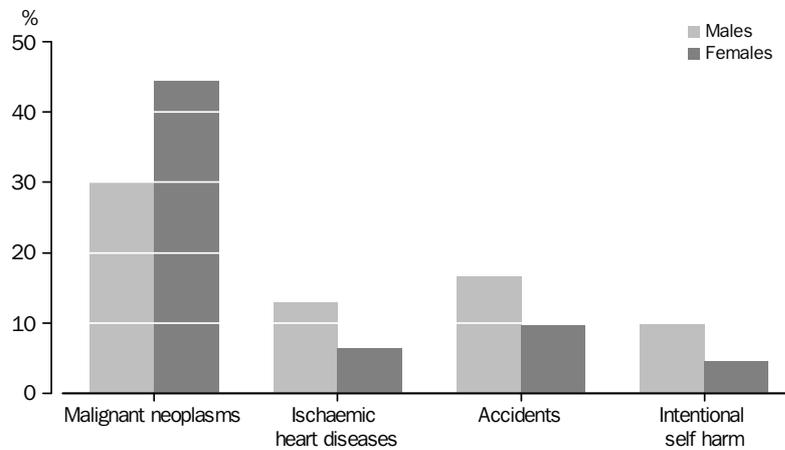
There were also significant variations when specific types of cancer are considered. Prostate cancer represented only 1.6% of the YPLL for males aged 1–78 years but was reported as the underlying cause in 3.5% of all male deaths within that age range.

In 2005, 71.7% of all Prostate cancer deaths were of males aged 65 years and over, with the 75-84 years age group accounting for 45.7% of all Prostate cancer deaths.

For females in 2005, Breast cancer represented 10.9% of YPLL while it was reported as the underlying cause in 8.6% of all deaths of females aged 1–78 years.

Nearly half (46.7%) of all Breast cancer deaths occurred among females aged under 65 years old and a further 17.9% occurred among females in the 65-74 years age group.

PERCENTAGE OF YEARS OF POTENTIAL LIFE LOST, Selected underlying causes



1.1**UNDERLYING CAUSE OF DEATH, Selected Causes —Australia**

<i>Cause of death and ICD Code</i>	<i>Males</i>	<i>Females</i>	<i>Persons</i>
All Causes	67 241	63 473	130 714
Chapter I Certain infectious and parasitic diseases (A00-B99)	905	796	1 701
Septicaemia (A40, A41)	505	548	1 053
Human immunodeficiency virus (HIV) disease (B20-B24)(a)	96	7	103
Chapter II Neoplasms (C00-D48)	22 039	17 183	39 222
Malignant neoplasms (C00-C97)	21 609	16 771	38 380
Digestive Organs (C15-C26)	5 974	4 626	10 600
Oesophagus (C15)	791	356	1 147
Stomach (C16)	699	391	1 090
Colon (C18)	1 395	1 242	2 637
Rectosigmoid junction, rectum, anus and anal canal (C19-C21)	935	599	1 534
Liver and intrahepatic bile ducts (C22)	596	346	942
Pancreas (C25)	963	1 055	2 018
Trachea, bronchus and lung (C33-C34)	4 694	2 705	7 399
Melanoma of skin (C43)	862	411	1 273
Breast (C50)	17	2 719	2 736
Female genital organs (C51-C58)	—	1 558	1 558
Ovary (C56)	—	884	884
Male genital organs (C60-C63)	2 984	—	2 984
Prostate (C61)	2 946	—	2 946
Urinary tract (C64-C68)	1 207	633	1 840
Kidney, except renal pelvis (C64)	508	339	847
Bladder (C67)	653	252	905
Brain (C71)	611	437	1 048
Lymphoid, haematopoietic and related tissue (C81-C96)	1 984	1 630	3 614
Leukaemia (C91-C95)	800	614	1 414
In situ and benign neoplasms and neoplasms of uncertain or unknown behaviour (D00-D48)	430	412	842
Chapter III Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50-D89)	213	285	498
Chapter IV Endocrine, nutritional and metabolic diseases (E00-E90)	2 424	2 565	4 989
Diabetes mellitus (E10-E14)	1 775	1 754	3 529
Chapter V Mental and behavioural disorders (F00-F99)	1 228	2 139	3 367
Organic, including symptomatic, mental disorders (F00-F09)	908	1 930	2 838
Chapter VI Diseases of the nervous system (G00-G99)	2 093	2 604	4 697
Alzheimer's disease (G30)	555	1 310	1 865
Chapter VII Diseases of the eye and adnexa (H00-H59)	np	np	4
Chapter VIII Diseases of the ear and mastoid process (H60-H95)	np	np	6
Chapter IX Diseases of the circulatory system (I00-I99)	21 957	24 177	46 134
All heart disease (I05-I09, I11, I13, I20-I25, I26, I27, I30-I52)	15 682	15 515	31 197
Acute rheumatic fever and chronic rheumatic heart diseases (I00-I09)	100	184	284
Hypertensive diseases (I10-I15)	508	937	1 445
Ischaemic heart disease (I20-I25)	12 433	11 137	23 570
Acute myocardial infarction (I21)	6 004	5 857	11 861
Pulmonary heart disease and diseases of pulmonary circulation and other forms of heart disease (I26-I52)	2 897	3 739	6 636
Heart Failure (I50)	835	1 390	2 225
Cerebrovascular diseases (I60-I69)	4 668	6 845	11 513
Diseases of arteries, arterioles and capillaries (I70-I79)	1 217	1 169	2 386
Atherosclerosis (I70)	122	216	338
Aortic aneurysm and dissection (I71)	707	532	1 239
Chapter X Diseases of the respiratory system (J00-J99)	5 703	5 113	10 816
Influenza and pneumonia (J10-J18)	1 331	1 703	3 034
Chronic lower respiratory diseases (J40-J47)	3 025	2 403	5 428
Emphysema (J43)	358	221	579
Asthma and status asthmaticus (J45, J46)	108	210	318

— nil or rounded to zero (including null cells)

(a) See Explanatory Notes, paragraph 21 for further information.

np not available for publication but included in totals where applicable, unless otherwise indicated

1.1 UNDERLYING CAUSE OF DEATH, Selected Causes —Australia *continued*

<i>Cause of death and ICD Code</i>	<i>Males</i>	<i>Females</i>	<i>Persons</i>
Chapter XI Diseases of the digestive system (K00-K93)	2 281	2 259	4 540
Diseases of oesophagus, stomach and duodenum (K20-K31)	261	329	590
Gastric and duodenal ulcer (K25-K27)	162	195	357
Diseases of liver (K70-K77)	1 002	425	1 427
Chapter XII Diseases of the skin and subcutaneous tissue (L00-L99)	161	205	366
Chapter XIII Diseases of the musculoskeletal system and connective tissue (M00-M99)	301	731	1 032
Arthropathies and systemic connective tissue disorders (M00-M36)	182	441	623
Chapter XIV Diseases of the genitourinary system (N00-N99)	1 316	1 717	3 033
Renal failure (N17-N19)	883	1 003	1 886
Chapter XV Pregnancy, childbirth and the puerperium (O00-O99)	—	9	9
Chapter XVI Certain conditions originating in the perinatal period (P00-P96)^(a)	376	300	676
Fetus and newborn affected by maternal factors and by complications of pregnancy, labour and delivery (P00-P04)	187	171	358
Chapter XVII Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	308	256	564
Congenital malformations of the circulatory system (Q20-Q28)	107	79	186
Chapter XVIII Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00-R99)	568	477	1 045
Chapter XX External causes of morbidity and mortality (V01-Y98)^(a)	5 364	2 651	8 015
Accidents (V01-X59)	3 317	1 950	5 267
Transport accidents (V01-V99)	1 224	414	1 638
Falls (W00-W19)	470	526	996
Accidental drowning and submersion (W65-W74)	147	45	192
Intentional self-harm (X60-X84)	1 657	444	2 101
Hanging, strangulation and suffocation (X70)	885	183	1 068
Assault (X85-Y09)	130	69	199

— nil or rounded to zero (including null cells)

(a) For information about data quality and breaks in series refer to Explanatory Notes paragraphs 23 to 29.

1.2 UNDERLYING CAUSE, Selected causes and age at death—Numbers and Rates(a)

	NUMBER OF DEATHS			RATES(a)		
	Males	Females	Persons	Males	Females	Persons
Under 1 year	714	588	1 302	5.4	4.7	5.0
Certain conditions originating in the perinatal period (P00-P96)(b)	372	295	667	2.8	2.3	2.6
Fetus and newborn affected by maternal factors and by complications of pregnancy, labour and delivery (P00-P04)	186	170	356	1.4	1.3	1.4
Disorders related to short gestation and low birth weight, not elsewhere classified (P07)	50	40	90	0.4	0.3	0.3
Respiratory and cardiovascular disorders specific to the perinatal period (P20-P29)	68	36	104	0.5	0.3	0.4
Infections specific to the perinatal period (P35-P39)	20	15	35	0.1	0.1	0.1
Haemorrhagic and haematological disorders of fetus and newborn (P50-P61)	16	11	27	0.1	0.1	0.1
Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	161	146	307	1.2	1.2	1.2
Congenital malformations of the nervous system (Q00-Q07)	19	28	47	0.1	0.2	0.2
Congenital malformations of the circulatory system (Q20-Q28)	47	39	86	0.4	0.3	0.3
Congenital malformations of the respiratory system (Q30-Q34)	16	7	23	0.1	0.1	0.1
Sudden infant death syndrome (R95)	47	40	87	0.4	0.3	0.3
1 year and over	66 527	62 885	129 412	665.9	622.9	644.3
Malignant neoplasms (C00-C97)	21 607	16 767	38 374	216.3	166.1	191.1
Digestive organs (C15-C26)	5 974	4 626	10 600	59.8	45.8	52.8
Colon (C18)	1 395	1 242	2 637	14.0	12.3	13.1
Trachea, bronchus, and lung (C33, C34)	4 694	2 705	7 399	47.0	26.8	36.8
Melanoma of skin (C43)	862	411	1 273	8.6	4.1	6.3
Breast (C50)	17	2 719	2 736	0.2	26.9	13.6
Malignant neoplasms of female genital organs (C51-C58)	—	1 558	1 558	—	15.4	7.8
Male genital organs (C60-C63)	2 984	—	2 984	29.9	—	14.9
Prostate (C61)	2 946	—	2 946	29.5	—	14.7
Brain (C71)	610	434	1 044	6.1	4.3	5.2
Lymphoid, haematopoietic and related tissue (C81-C96)	1 984	1 629	3 613	19.9	16.1	18.0
Leukaemia (C91-C95)	800	614	1 414	8.0	6.1	7.0
Endocrine, nutritional and metabolic diseases (E00-E90)	2 417	2 557	4 974	24.2	25.3	24.8
Diabetes mellitus (E10-E14)	1 775	1 754	3 529	17.8	17.4	17.6
Mental and behavioural disorders due to psychoactive linesubstance use (F10-F19)	267	99	366	2.7	1.0	1.8
Diseases of the nervous system (G00-G99)	2 078	2 591	4 669	20.8	25.7	23.2
Alzheimer's disease (G30)	555	1 310	1 865	5.6	13.0	9.3
Diseases of the circulatory system (I00-I99)	21 943	24 165	46 108	219.6	239.4	229.6
Ischaemic heart diseases (I20-I25)	12 433	11 136	23 569	124.5	110.3	117.3
Acute myocardial infarction (I21)	6 004	5 857	11 861	60.1	58.0	59.1
Cerebrovascular diseases (I60-I69)	4 665	6 844	11 509	46.7	67.8	57.3
Diseases of arteries, arterioles and capillaries (I70-I79)	1 217	1 169	2 386	12.2	11.6	11.9
Diseases of the respiratory system (J00-J99)	5 687	5 101	10 788	56.9	50.5	53.7
Chronic lower respiratory diseases (J40-J47)	3 025	2 403	5 428	30.3	23.8	27.0
Diseases of the digestive system (K00-K93)	2 276	2 254	4 530	22.8	22.3	22.6
Diseases of liver (K70-K77)	999	424	1 423	10.0	4.2	7.1
Diseases of the genitourinary system (N00-N99)	1 313	1 717	3 030	13.1	17.0	15.1
Renal failure (N17-N19)	883	1 003	1 886	8.8	9.9	9.4
External causes of morbidity and mortality (V01-Y98)(b)	5 347	2 637	7 984	53.5	26.1	39.8
Transport accidents (V01-V99)	1 221	414	1 635	12.2	4.1	8.1
Accidental drowning and submersion (W65-W74)	143	42	185	1.4	0.4	0.9
Intentional self-harm (X60-X84)	1 657	444	2 101	16.6	4.4	10.5

— nil or rounded to zero (including null cells)

(a) Deaths per 100,000 of the estimated mid-year population for each age group other than under 1 year; deaths per 1,000 live births for age under 1 year. See Glossary for further explanation.

(b) For information about data quality and breaks in series refer to Explanatory Notes paragraphs 23 to 29.

1.3**UNDERLYING CAUSE, Standardised death rates**

<i>Cause of death and ICD code</i>	<i>Males</i>	<i>Females</i>	<i>Persons</i>
All causes	728.1	490.2	597.6
Chapter 1 Certain infectious and parasitic diseases (A00-B99)	9.9	6.2	7.8
Septicaemia (A40, A41)	5.7	4.1	4.8
Human immunodeficiency virus (HIV) disease (B20-B24)(a)	0.9	0.1	0.5
Chapter II Neoplasms (C00-D48)	231.1	143.9	181.3
Malignant neoplasms (C00-C97)	226.4	140.8	177.5
Digestive organs (C5-C26)	61.9	37.9	49.0
Oesophagus (C15)	8.1	2.9	5.3
Stomach (C16)	7.3	3.2	5.0
Colon (C18)	14.6	10.1	12.1
Rectosigmoid junction, rectum, anus and anal canal (C19-C21)	9.6	5.0	7.1
Liver and intrahepatic bile ducts (C22)	6.1	2.9	4.4
Pancreas (C25)	9.9	8.7	9.3
Trachea, bronchus and lung (C33,C34)	48.3	23.2	34.3
Melanoma of skin (C43)	8.9	3.5	5.9
Breast (C50)	0.2	23.6	12.7
Female genital organs (C51-C58)	—	13.2	7.2
Ovary (C56)	—	7.5	4.1
Male genital organs(C60-C63)	33.2	—	13.7
Prostate (C61)	32.8	—	13.5
Urinary tract (C64-C68)	12.8	5.1	8.5
Kidney, except renal pelvis (C64)	5.3	2.8	3.9
Bladder (C67)	7.1	2.0	4.1
Brain (C71)	6.0	3.9	4.9
Lymphoid, haematopoietic and related tissue (C81-C96)	20.9	13.5	16.7
Leukaemia (C91-C95)	8.4	5.1	6.6
In situ and benign neoplasms and neoplasms of uncertain or unknown behaviour (D00-D48)	4.7	3.2	3.8
Chapter III Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50-D89)	2.3	2.2	2.3
Chapter IV Endocrine, nutritional and metabolic diseases (E00-E90)	26.2	19.7	22.7
Diabetes mellitus (E10-E14)	19.3	13.4	16.1
Chapter V Mental and behavioural disorders (F00-F99)	14.2	15.0	15.0
Organic, including symptomatic, mental disorders (F00-F09)	10.9	13.3	12.6
Chapter VI Disease of the Nervous System (G00-G99)	23.0	19.9	21.4
Alzheimer's disease (G30)	6.6	9.2	8.3
Chapter VII Diseases of the eye and adnexa (H00-H59)	—	—	—
Chapter VIII Diseases of the ear and mastoid process (H60-H95)	—	—	—
Chapter IX Diseases of the circulatory system (I00-I99)	244.7	175.3	207.7
All heart disease (I05–09, I11, I13, I20-I25, I26, I27, I30-I52)	173.4	112.6	140.7
Acute rheumatic fever and chronic rheumatic heart diseases (I00-I09)	1.1	1.5	1.3
Hypertensive diseases (I10-I15)	5.9	6.6	6.4
Ischaemic heart diseases (I20-I25)	136.9	80.7	106.3
Acute myocardial infarction (I21)	66.7	42.5	53.5
Pulmonary heart disease and diseases of pulmonary circulation and other forms of heart disease (I26-I52)	32.5	27.2	29.9
Heart Failure (I50)	9.9	9.6	9.9
Cerebrovascular diseases (I60-I69)	53.3	49.3	51.6
Diseases of the arteries, arterioles, and capillaries (I70-I79)	13.7	8.6	10.8
Atherosclerosis (I70)	1.5	1.5	1.5
Aortic aneurysm and dissection (I71)	7.7	4.1	5.6
Chapter X Diseases of the respiratory system (J00-J99)	64.4	38.7	49.0
Influenza and pneumonia (J10-J18)	15.8	12.0	13.5
Chronic lower respiratory diseases (J40-J47)	33.3	19.1	24.8
Emphysema (J43)	3.9	1.8	2.7
Asthma and status asthmaticus (J45, J46)	1.1	1.7	1.5

— nil or rounded to zero (including null cells)

(a) See Explanatory Notes, paragraph 21 for further information.

1.3**UNDERLYING CAUSE, Standardised death rates *continued***

<i>Cause of death and ICD code</i>	<i>Males</i>	<i>Females</i>	<i>Persons</i>
Chapter XI Diseases of the digestive system (K00-K93)	24.2	17.3	20.7
Diseases of oesophagus, stomach and duodenum (K20-K31)	2.9	2.4	2.7
Gastric and duodenal ulcer (K25-K27)	1.8	1.4	1.6
Diseases of liver (K70-K77)	9.8	3.8	6.7
Chapter XII Diseases of the skin and subcutaneous tissue (L00-L99)	1.8	1.5	1.6
Chapter XIII Diseases of the musculoskeletal system and connective tissue (M00-M99)	3.4	5.6	4.7
Arthropathies and systemic connective tissue disorders (M00-M99)	2.0	3.5	2.8
Chapter XIV Diseases of the genitourinary system (N00-N99)	15.3	12.5	13.6
Renal failure (N17-N19)	10.3	7.2	8.4
Chapter XV Pregnancy, childbirth and the puerperium (O00-O99)	—	0.1	—
Chapter XVI Certain conditions originating in the perinatal period (P00-P96)^(a)	3.8	3.2	3.5
Chapter XVII Congenital malformations, deformations, and chromosomal abnormalities (Q00-Q99)	3.2	2.6	2.8
Congenital malformations of the circulatory system (Q20-Q28)	1.1	0.8	0.9
Chapter XVIII Symptoms, signs, and abnormal clinical and laboratory findings, not elsewhere classified (R00-R99)	5.8	4.0	4.9
Chapter XX External causes of morbidity and mortality (V01-Y98)^(a)	54.8	22.4	38.3
Accidents (V01-X59)	34.3	15.9	25.0
Transport accidents (V01-V99)	12.1	3.9	8.0
Falls (W00-W19)	5.3	3.8	4.5
Accidental drowning and submersion (W65-W74)	1.5	0.4	0.9
Intentional self-harm (X60-X84)	16.4	4.3	10.3
Hanging, strangulation and suffocation (X70)	8.8	1.8	5.2
Assault (X85-Y09)	1.3	0.7	1.0

— nil or rounded to zero (including null cells)

(a) For information about data quality and breaks in series refer to Explanatory Notes paragraphs 23 to 29.

1.4 UNDERLYING CAUSE(a), State/Territory of usual residence—All Ages

Cause of death and ICD code(a)	NSW		VIC.		QLD		SA	
	Males	Females	Males	Females	Males	Females	Males	Females
All Ages(b)	23 051	21 845	16 350	16 256	12 372	11 209	6 179	5 805
Chapter I Certain infectious and parasitic diseases (A00-B99)	399	337	167	178	138	101	77	64
Chapter II Neoplasms (C00-D48)	7 595	5 887	5 436	4 425	4 064	3 084	1 910	1 483
Malignant neoplasms (C00-C97)	7 442	5 740	5 341	4 325	3 984	3 021	1 860	1 440
Trachea, bronchus and lung (C33,C34)	1 572	917	1 109	681	902	504	408	218
Melanoma of skin (C43)	332	156	159	86	185	87	53	25
Breast (C50)	7	907	4	703	np	492	—	245
Female genital organs (C51-C58)	—	549	—	398	—	292	—	121
Male genital organs (C60-C63)	1 061	—	748	—	561	—	258	—
Chapter III Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50-D89)	84	102	47	78	37	32	16	19
Chapter IV Endocrine, nutritional and metabolic diseases (E00-E90)	661	686	701	770	453	464	213	245
Diabetes mellitus (E10-E14)	474	473	532	517	317	314	156	155
Chapter V Mental and behavioural disorders (F00-F99)	418	761	318	550	187	294	137	259
Chapter VI Diseases of the nervous system (G00-G99)	684	805	570	691	333	417	173	226
Chapter IX Diseases of the circulatory system (I00-I99)	7 674	8 645	5 234	6 049	4 111	4 367	2 094	2 236
All heart disease (I05-I09, I11,I13, I20-I25, I26, I27, I30-I52)	5 396	5 457	3 755	3 914	2 920	2 780	1 541	1 408
Ischaemic heart disease (I20-I25)	4 217	3 830	2 980	2 799	2 401	2 139	1 228	1 013
Acute myocardial infarction (I21)	2 034	2 076	1 455	1 434	1 200	1 092	558	554
Cerebrovascular diseases (I60-I69)	1 675	2 516	1 119	1 702	916	1 253	413	659
Chapter X Diseases of the respiratory system (J00-J99)	2 051	1 797	1 340	1 271	1 039	924	573	534
Influenza and pneumonia (J10-J18)	467	596	290	392	263	304	183	234
Chronic lower respiratory diseases (J40-J47)	1 019	810	775	659	570	449	257	201
Chapter XI Diseases of the digestive system (K00-K93)	777	734	564	609	412	391	204	221
Diseases of liver (K70-K77)	349	137	220	97	180	82	86	41
Chapter XII Diseases of the skin and subcutaneous tissue (L00-L99)	76	92	29	44	29	30	11	17
Chapter XIII Diseases of the musculoskeletal system and connective tissue (M00-M99)	104	211	82	208	45	122	19	56
Chapter XIV Diseases of the genitourinary system (N00-N99)	474	614	320	425	206	302	146	166
Chapter XV Pregnancy, childbirth and the puerperium (O00-O99)	—	5	—	np	—	np	—	—
Chapter XVI Certain conditions originating in the perinatal period (P00-P96)(c)	130	99	90	77	78	66	26	18
Chapter XVII Congenital Malformations, deformations and chromosomal abnormalities (Q00-Q99)	95	79	94	73	59	51	24	17

— nil or rounded to zero (including null cells)

np not available for publication but included in totals where applicable, unless otherwise indicated

(a) Chapter VII Diseases of the eye and adnexa (H00-H59) and VIII Diseases of the ear and mastoid process (H60-H95) have been omitted from the table as numbers are too small for publication.

(b) Including age not stated

(c) For information about data quality and breaks in series refer to Explanatory Notes paragraphs 23 to 29.

1.4**UNDERLYING CAUSE(a), State/Territory of usual residence—All Ages *continued* . . .**

Cause of death and ICD code(a)	NSW		VIC.		QLD		SA	
	Males	Females	Males	Females	Males	Females	Males	Females
Chapter XVIII Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00-R99)	214	171	88	89	91	90	38	33
Chapter XX External causes of morbidity and mortality (V01-Y98)(b)	1 615	819	1 270	718	1 087	469	518	211
Transport accidents (V01-V99)	306	113	302	103	251	76	137	37
Falls (W00-W19)	117	134	190	236	81	67	20	16
Intentional self-harm (X60-X84)	438	111	393	112	360	99	182	49

(a) Chapter VII Diseases of the eye and adnexa (H00-H59) and VIII Diseases of the ear and mastoid process (H60-H95) have been omitted from the table as numbers are too small for publication.

(b) For information about data quality and breaks in series refer to Explanatory Notes paragraphs 23 to 29.

1.4 UNDERLYING CAUSE(a), State/Territory of usual residence—All Ages *continued* ...

Cause of death and ICD code(a)	WA		TAS.		NT		ACT	
	Males	Females	Males	Females	Males	Females	Males	Females
All Ages(b)	5 974	5 323	1 938	1 929	628	357	743	748
Chapter I Certain infectious and parasitic diseases (A00-B99)	76	79	23	20	15	8	10	9
Chapter II Neoplasms (C00-D48)	2 021	1 461	651	538	143	77	216	228
Malignant neoplasms (C00-C97)	1 987	1 430	637	522	142	74	213	219
Trachea, bronchus and lung (C33,C34)	469	253	161	88	39	16	34	28
Melanoma of skin (C43)	95	38	28	11	3	np	7	np
Breast (C50)	np	233	np	86	np	10	—	43
Female genital organs (C51-C58)	—	129	—	43	—	np	—	np
Male genital organs (C60-C63)	237	—	76	—	9	—	33	—
Chapter III Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50-D89)	21	33	np	12	np	5	np	4
Chapter IV Endocrine, nutritional and metabolic diseases (E00-E90)	229	239	105	112	30	20	32	29
Diabetes mellitus (E10-E14)	172	170	79	89	21	15	24	21
Chapter V Mental and behavioural disorders (F00-F99)	111	169	32	65	11	14	14	27
Chapter VI Diseases of the nervous system (G00-G99)	215	333	75	89	19	10	24	33
Chapter IX Diseases of the circulatory system (I00-I99)	1 870	1 874	590	676	150	82	232	248
All heart disease (I05-I09, I11,I13, I20-I25, I26, I27, I30-I52)	1 361	1 274	436	476	112	60	159	146
Ischaemic heart disease (I20-I25)	1 067	909	329	333	86	31	123	83
Acute myocardial infarction (I21)	538	500	146	154	32	18	41	29
Cerebrovascular diseases (I60-I69)	368	472	102	147	25	16	50	80
Chapter X Diseases of the respiratory system (J00-J99)	447	391	138	130	61	25	54	41
Influenza and pneumonia (J10-J18)	89	120	16	29	6	10	17	18
Chronic lower respiratory diseases (J40-J47)	242	172	98	85	38	10	26	17
Chapter XI Diseases of the digestive system (K00-K93)	191	186	65	59	35	24	33	35
Diseases of liver (K70-K77)	90	38	28	6	24	18	25	6
Chapter XII Diseases of the skin and subcutaneous tissue (L00-L99)	12	11	np	6	np	np	np	np
Chapter XIII Diseases of the musculoskeletal system and connective tissue (M00-M99)	26	70	22	44	np	6	np	14
Chapter XIV Diseases of the genitourinary system (N00-N99)	105	120	37	57	10	17	18	16
Chapter XV Pregnancy, childbirth and the puerperium (O00-O99)	—	—	—	np	—	—	—	—
Chapter XVI Certain conditions originating in the perinatal period (P00-P96)(c)	30	25	8	4	9	6	5	5
Chapter XVII Congenital Malformations, deformations and chromosomal abnormalities (Q00-Q99)	15	23	8	5	5	3	8	5

— nil or rounded to zero (including null cells)

np not available for publication but included in totals where applicable, unless otherwise indicated

(a) Chapter VII Diseases of the eye and adnexa (H00-H59) and VIII Diseases of the ear and mastoid process (H60-H95) have been omitted from the table as numbers are too small for publication.

(b) Including age not stated

(c) For information about data quality and breaks in series refer to Explanatory Notes paragraphs 23 to 29.

1.4UNDERLYING CAUSE(a), State/Territory of usual residence—All Ages *continued* . . .

Cause of death and ICD code(a)	WA		TAS.		NT		ACT	
	Males	Females	Males	Females	Males	Females	Males	Females
Chapter XVIII Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00-R99)	92	62	11	12	21	7	13	12
Chapter XX External causes of morbidity and mortality (V01-Y98)(b)	512	247	167	98	114	49	81	40
Transport accidents (V01-V99)	126	49	41	13	40	15	21	8
Falls (W00-W19)	41	42	15	22	np	4	np	5
Intentional self-harm (X60-X84)	169	34	52	22	37	8	26	9

np not available for publication but included in totals where applicable, unless otherwise indicated

(a) Chapter VII Diseases of the eye and adnexa (H00-H59) and VIII Diseases of the ear and mastoid process (H60-H95) have been omitted from the table as numbers are too small for publication.

(b) For information about data quality and breaks in series refer to Explanatory Notes paragraphs 23 to 29.

1.5 SELECTED CAUSES OF DEATH (ISDR) 2005(a), Selected countries of birth

	Australia(b)	China (c)	Germany	Greece	India	Indonesia	Italy	Lebanon
MALES (RATE)								
Malignant neoplasms (C00-C97)	232	161	216	160	124	171	223	190
Ischaemic heart diseases (I20-I25)	144	54	131	106	150	118	115	129
Cerebrovascular diseases (I60-I69)	57	46	50	48	35	24	46	48
Chronic lower respiratory diseases (J40-J47)	37	22	20	16	16	np	21	19
Accidents (V01-X59)(d)	36	16	54	25	25	np	26	30
All Causes	763	454	712	541	541	525	658	627
FEMALES (RATE)								
Malignant neoplasms (C00-C97)	144	114	140	103	95	127	121	101
Ischaemic heart diseases (I20-I25)	88	50	85	62	91	67	67	69
Cerebrovascular diseases (I60-I69)	52	43	57	39	47	45	35	49
Chronic lower respiratory diseases (J40-J47)	21	7	18	5	18	np	6	11
Accidents (V01-X59)	17	17	25	18	18	np	20	12
All Causes	519	351	500	382	457	365	431	417
PERSONS (RATE)								
Malignant neoplasms (C00-C97)	182	136	173	132	109	148	173	148
Ischaemic heart diseases (I20-I25)	110	52	103	84	117	91	90	99
Cerebrovascular diseases (I60-I69)	54	45	54	43	42	35	40	49
Chronic lower respiratory diseases (J40-J47)	28	13	19	11	17	15	13	15
Accidents (V01-X59)	26	16	37	22	22	4	23	22
All Causes	618	396	585	461	495	440	543	525
PERSONS (NUMBER)								
Total deaths	92 584	855	1 461	1 346	616	185	3 790	381

np not available for publication but included in totals where applicable, unless otherwise indicated

(a) Indirect Standardised Death Rates (ISDR) per 100,000 population. Standardised using age-specific death rates for the 2005 standard population.

(b) Includes not stated, at sea, not elsewhere classified, not applicable and inadequately described.

(c) Excludes Special Administrative Regions and Taiwan Province.

(d) For information about data quality and breaks in series refer to Explanatory Notes paragraphs 23 to 29.

1.5 SELECTED CAUSES OF DEATH (ISDR) 2005(a), Selected countries of birth

continued

	Netherlands	New Zealand	Philippines	United Kingdom	United States of America	Viet Nam	Total Overseas born	Total Australia
MALES (RATE)								
Malignant neoplasms (C00-C97)	240	169	106	231	188	152	207	223
Ischaemic heart diseases (I20-I25)	139	135	74	131	156	52	129	139
Cerebrovascular diseases (I60-I69)	61	42	63	50	67	39	49	54
Chronic lower respiratory diseases (J40-J47)	32	29	np	33	20	14	25	33
Accidents (V01-X59)(b)	30	33	31	33	26	np	30	34
All Causes	720	646	428	723	654	421	670	731
FEMALES (RATE)								
Malignant neoplasms (C00-C97)	134	139	115	150	115	63	132	141
Ischaemic heart diseases (I20-I25)	82	73	25	87	45	34	77	85
Cerebrovascular diseases (I60-I69)	44	57	52	50	43	32	46	50
Chronic lower respiratory diseases (J40-J47)	9	17	np	23	21	5	14	19
Accidents (V01-X59)	18	12	6	22	43	np	17	17
All Causes	463	455	283	518	492	239	461	502
PERSONS (RATE)								
Malignant neoplasms (C00-C97)	187	154	112	188	156	104	168	178
Ischaemic heart diseases (I20-I25)	108	101	39	106	108	42	100	107
Cerebrovascular diseases (I60-I69)	51	51	55	50	56	35	47	52
Chronic lower respiratory diseases (J40-J47)	20	23	6	28	20	9	19	25
Accidents (V01-X59)	24	23	15	27	34	11	23	25
All Causes	582	543	326	608	582	320	556	598
PERSONS (NUMBER)								
Total deaths	1 364	1 643	245	13 878	281	400	38 130	130 714

np not available for publication but included in totals where applicable, unless otherwise indicated

(a) Indirect Standardised Death Rates (ISDR) per 100,000 population. Standardised using age-specific death rates for the 2005 standard population.

(b) For information about data quality and breaks in series refer to Explanatory Notes paragraphs 23 to 29.

1.6 UNDERLYING CAUSE, Standardised death rates and state or territory of usual residence(a)

Cause of death and ICD code	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT
1995								
All Causes	793.8	778.3	755.5	756.9	749.0	850.8	1 143.0	654.5
Malignant neoplasms (C00-C97)	203.0	215.8	195.7	196.7	203.7	226.5	246.4	191.8
Trachea, bronchus and lung (C33,C34)	40.7	42.1	37.0	34.9	41.6	42.7	86.1	26.8
Diabetes mellitus (E10-E14)	13.4	22.9	13.6	17.8	17.7	14.3	51.7	10.8
Mental and behavioural disorders (F00-F99)	20.2	21.6	18.5	21.2	21.2	16.3	49.5	21.2
Diseases of the nervous system (G00-G99)	19.1	19.3	15.4	19.3	19.0	20.1	30.3	19.8
Diseases of the circulatory system (I00-I99)	359.3	326.7	335.1	338.0	318.9	373.7	360.2	279.1
Ischaemic heart disease (I20-I25)	194.0	179.6	193.3	182.1	180.5	193.5	154.2	145.6
Acute myocardial infarction (I21)	117.3	110.1	122.1	119.0	104.0	110.6	89.3	87.0
Cerebrovascular diseases (I60-I69)	90.0	74.3	80.4	83.9	76.0	86.9	87.1	63.2
Diseases of arteries, arterioles and capillaries (I70-I79)	19.5	19.5	17.9	18.4	17.8	27.3	16.6	19.1
Diseases of the Respiratory system (J00-J99)	61.1	59.4	55.7	52.9	56.7	66.9	152.1	40.7
Influenza and pneumonia (J10-J18)	9.7	11.5	11.8	9.3	14.3	9.4	38.3	6.5
Chronic lower respiratory diseases (J40-J47)	42.2	40.9	35.0	35.6	32.4	47.0	102.2	28.8
Diseases of the digestive system (K00-K93)	24.9	24.1	22.2	24.6	25.1	27.4	32.5	24.5
Accidents (V01-X59)(b)	24.8	23.6	31.5	24.2	28.7	29.7	60.5	17.9
Transport Accidents (V01-V99)	11.7	11.0	16.3	12.2	13.0	14.5	32.1	7.7
Intentional self-harm (X60-X84)	12.5	12.5	15.4	13.5	12.4	14.2	16.0	12.1
2005								
All Causes	593.3	586.0	598.3	621.3	578.9	683.2	855.2	562.5
Malignant neoplasms (C00-C97)	177.2	177.0	177.2	175.8	174.4	205.2	208.1	161.0
Trachea, bronchus and lung (C33,C34)	33.6	32.9	35.5	33.7	37.1	44.0	50.4	23.2
Diabetes mellitus (E10-E14)	12.4	18.7	16.0	16.0	17.6	29.1	29.9	17.8
Mental and behavioural disorders (F00-F99)	15.1	15.1	12.2	19.1	14.5	16.7	37.4	16.0
Diseases of the nervous system (G00-G99)	19.6	22.5	19.1	20.5	28.2	28.8	25.6	22.1
Diseases of the circulatory system (I00-I99)	211.0	198.6	215.3	215.3	192.9	219.7	223.2	188.5
Ischaemic heart disease (I20-I25)	104.5	102.0	115.1	112.4	101.8	114.5	106.3	79.8
Acute myocardial infarction (I21)	53.2	50.8	58.3	54.9	53.8	52.3	50.3	27.7
Cerebrovascular diseases (I60-I69)	53.7	49.4	55.2	52.3	43.4	43.5	43.3	51.6
Diseases of arteries, arterioles and capillaries (I70-I79)	11.4	10.0	11.0	10.1	9.7	12.4	9.6	14.1
Diseases of the Respiratory system (J00-J99)	50.0	46.2	50.2	55.7	43.3	46.9	87.6	37.4
Influenza and pneumonia (J10-J18)	13.5	11.8	14.4	20.5	10.8	7.7	11.4	14.1
Chronic lower respiratory diseases (J40-J47)	24.1	25.6	26.2	23.5	21.4	32.1	52.9	16.9
Diseases of the digestive system (K00-K93)	20.1	21.0	20.3	22.0	19.1	21.6	39.1	24.9
Accidents (V01-X59)(b)	23.8	24.6	24.5	26.7	24.9	32.3	60.8	24.0
Transport Accidents (V01-V99)	6.1	7.9	8.3	11.2	8.6	11.1	25.1	8.7
Intentional self-harm (X60-X84)(b)	8.0	9.9	11.6	14.8	10.0	15.6	22.5	10.6

(a) Standardised death rate per 100,000 of the mid year 2001 See Glossary for further explanation.

(b) For information about data quality and breaks in series refer to Explanatory Notes paragraphs 23 to 29.

1.7 UNDERLYING CAUSE, Indigenous origin(a)—Selected State/territory(b)

Cause of death and ICD code	INDIGENOUS				NON INDIGENOUS			
	Males	Females	Persons	Proportion of total deaths	Males	Females	Persons	Proportion of total deaths
	no.	no.	no.	%	no.	no.	no.	%
NEW SOUTH WALES								
All Causes	280	227	507	100.0	22 540	21 418	43 958	100.0
Malignant neoplasms (C00-C97)	51	55	106	20.9	7 323	5 643	12 966	29.5
Digestive organs (C15-C26)	13	11	24	4.7	2 009	1 534	3 543	8.1
Trachea, bronchus, lung (C33, C34)	9	13	22	4.3	1 542	896	2 438	5.5
Diabetes mellitus (E10-E14)	11	8	19	3.7	458	462	920	2.1
Mental and behavioural disorders (F00-F99)	5	5	10	2.0	410	750	1 160	2.6
Diseases of the circulatory system (I00-I99)	88	68	156	30.8	7 512	8 489	16 001	36.4
Ischaemic heart diseases (I20-I25)	46	28	74	14.6	4 118	3 766	7 884	17.9
Cerebrovascular diseases (I60-I69)	18	24	42	8.3	1 650	2 465	4 115	9.4
Diseases of the respiratory system (J00-J99)	19	20	39	7.7	2 005	1 756	3 761	8.6
Chronic lower respiratory diseases (J40-J47)	13	19	32	6.3	990	783	1 773	4.0
Diseases of the digestive system (K00-K93)	17	21	38	7.5	754	708	1 462	3.3
Diseases of liver (K70-K77)	13	12	25	4.9	334	124	458	1.0
Certain conditions originating in the perinatal period (P00-P96)(c)	6	5	11	2.2	124	92	216	0.5
Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	3	—	3	0.6	91	78	169	0.4
All other medical conditions (Remainder of A00-R99)	28	32	60	11.8	2 327	2 637	4 964	11.3
External causes of morbidity and mortality (V01-Y98)	52	13	65	12.8	1 536	803	2 339	5.3
Transport accidents (V01-V99)	np	np	12	2.4	np	np	397	0.9
Intentional self-harm (X60-X84)	np	np	14	2.8	np	np	527	1.2
Assault (X85-Y09)	7	—	7	1.4	38	20	58	0.1
Other external causes (remainder of V01-Y98)	23	9	32	6.3	791	566	1 357	3.1

— nil or rounded to zero (including null cells)

np not available for publication but included in totals where applicable, unless otherwise indicated

(a) Excludes Indigenous origin not stated

(b) Data on deaths identified as Indigenous are subject to the impact of differing coverage levels across states and territories. See Explanatory notes, paragraph 30 for further information.

(c) For information about data quality and breaks in series refer to Explanatory notes paragraphs 23-29.

1.7 UNDERLYING CAUSE, Indigenous origin(a)—Selected State/territory(b) *continued*

Cause of death and ICD code	INDIGENOUS				NON INDIGENOUS			
	Males	Females	Persons	Proportion of total deaths	Males	Females	Persons	Proportion of total deaths
	no.	no.	no.	%	no.	no.	no.	%
QUEENSLAND								
All Causes	300	219	519	100.0	11 937	10 863	22 800	100.0
Malignant neoplasms (C00-C97)	50	44	94	18.1	3 907	2 953	6 860	30.1
Digestive organs (C15-C26)	19	14	33	6.4	1 026	802	1 828	8.0
Trachea, bronchus, lung (C33, C34)	17	10	27	5.2	882	492	1 374	6.0
Diabetes mellitus (E10-E14)	19	22	41	7.9	294	286	580	2.5
Mental and behavioural disorders (F00-F99)	np	np	6	1.2	np	np	467	2.0
Diseases of the circulatory system (I00-I99)	75	64	139	26.8	4 000	4 251	8 251	36.2
Ischaemic heart diseases (I20-I25)	50	38	88	17.0	2 328	2 077	4 405	19.3
Cerebrovascular diseases (I60-I69)	14	11	25	4.8	897	1 226	2 123	9.3
Diseases of the respiratory system (J00-J99)	21	12	33	6.4	1 000	903	1 903	8.3
Chronic lower respiratory diseases (J40-J47)	13	10	23	4.4	550	435	985	4.3
Diseases of the digestive system (K00-K93)	23	9	32	6.2	383	377	760	3.3
Diseases of liver (K70-K77)	16	5	21	4.0	161	73	234	1.0
Certain conditions originating in the perinatal period (P00-P96)(c)	15	11	26	5.0	62	55	117	0.5
Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	np	np	5	1.0	np	np	104	0.5
All other medical conditions (Remainder of A00-R99)	34	31	65	12.5	1 046	1 259	2 305	10.1
External causes of morbidity and mortality (V01-Y98)	60	18	78	15.0	1 006	447	1 453	6.4
Transport accidents (V01-V99)	14	6	20	3.9	234	70	304	1.3
Intentional self-harm (X60-X84)	22	4	26	5.0	335	95	430	1.9
Assault (X85-Y09)	4	—	4	0.8	13	12	25	0.1
Other external causes (remainder of V01-Y98)	20	8	28	5.4	424	270	694	3.0

— nil or rounded to zero (including null cells)

np not available for publication but included in totals where applicable, unless otherwise indicated

(a) Excludes Indigenous origin not stated

(b) Data on deaths identified as Indigenous are subject to the impact of differing coverage levels across states and territories. See Explanatory notes, paragraph 30 for further information.

(c) For information about data quality and breaks in series refer to Explanatory notes paragraphs 23-29.

1.7 UNDERLYING CAUSE, Indigenous origin(a)—Selected State/territory(b) *continued*

Cause of death and ICD code	INDIGENOUS				NON INDIGENOUS			
	Males	Females	Persons	Proportion of total deaths	Males	Females	Persons	Proportion of total deaths
	no.	no.	no.	%	no.	no.	no.	%
SOUTH AUSTRALIA								
All Causes	93	49	142	100.0	5 966	5 672	11 638	100.0
Malignant neoplasms (C00-C97)	8	9	17	12.0	1 841	1 425	3 266	28.1
Digestive organs (C15-C26)	np	np	np	np	np	np	np	np
Trachea, bronchus, lung (C33, C34)	np	np	3	2.1	np	np	619	5.3
Diabetes mellitus (E10-E14)	4	6	10	7.0	152	148	300	2.6
Mental and behavioural disorders (F00-F99)	np	np	3	2.1	np	np	379	3.3
Diseases of the circulatory system (I00-I99)	25	11	36	25.4	2 025	2 195	4 220	36.3
Ischaemic heart diseases (I20-I25)	19	6	25	17.6	1 178	994	2 172	18.7
Cerebrovascular diseases (I60-I69)	np	np	np	np	np	np	np	np
Diseases of the respiratory system (J00-J99)	9	5	14	9.9	549	520	1 069	9.2
Chronic lower respiratory diseases (J40-J47)	np	—	np	np	np	200	np	np
Diseases of the digestive system (K00-K93)	np	np	7	4.9	np	np	409	3.5
Diseases of liver (K70-K77)	np	np	7	4.9	np	np	117	1.0
Certain conditions originating in the perinatal period (P00-P96)(c)	np	—	np	np	np	18	np	np
Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	—	—	—	—	24	16	40	0.3
All other medical conditions (Remainder of A00-R99)	13	7	20	14.1	568	693	1 261	10.8
External causes of morbidity and mortality (V01-Y98)	26	8	34	23.9	459	193	652	5.6
Transport accidents (V01-V99)	np	np	6	4.2	np	np	152	1.3
Intentional self-harm (X60-X84)	14	3	17	12.0	160	41	201	1.7
Assault (X85-Y09)	—	np	np	np	11	np	np	np
Other external causes (remainder of V01-Y98)	np	np	9	6.3	np	np	281	2.4

— nil or rounded to zero (including null cells)

np not available for publication but included in totals where applicable, unless otherwise indicated

(a) Excludes Indigenous origin not stated

(b) Data on deaths identified as Indigenous are subject to the impact of differing coverage levels across states and territories. See Explanatory notes, paragraph 30 for further information.

(c) For information about data quality and breaks in series refer to Explanatory notes paragraphs 23-29.

1.7 UNDERLYING CAUSE, Indigenous origin(a)—Selected State/territory(b) *continued*

Cause of death and ICD code	INDIGENOUS				NON INDIGENOUS			
	Males	Females	Persons	Proportion of total deaths	Males	Females	Persons	Proportion of total deaths
	no.	no.	no.	%	no.	no.	no.	%
WESTERN AUSTRALIA								
All Causes	217	189	406	100.0	5 708	5 096	10 804	100.0
Malignant neoplasms (C00-C97)	26	27	53	13.1	1 954	1 394	3 348	31.0
Digestive organs (C15-C26)	15	6	21	5.2	542	367	909	8.4
Trachea, bronchus, lung (C33, C34)	3	5	8	2.0	465	246	711	6.6
Diabetes mellitus (E10-E14)	20	23	43	10.6	151	147	298	2.8
Mental and behavioural disorders (F00-F99)	3	9	12	3.0	107	159	266	2.5
Diseases of the circulatory system (I00-I99)	51	46	97	23.9	1 802	1 817	3 619	33.5
Ischaemic heart diseases (I20-I25)	35	19	54	13.3	1 019	883	1 902	17.6
Cerebrovascular diseases (I60-I69)	6	13	19	4.7	358	458	816	7.6
Diseases of the respiratory system (J00-J99)	17	16	33	8.1	429	373	802	7.4
Chronic lower respiratory diseases (J40-J47)	12	9	21	5.2	230	162	392	3.6
Diseases of the digestive system (K00-K93)	12	9	21	5.2	177	177	354	3.3
Diseases of liver (K70-K77)	9	4	13	3.2	80	34	114	1.1
Certain conditions originating in the perinatal period (P00-P96)(c)	6	5	11	2.7	23	20	43	0.4
Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	np	np	np	np	np	np	np	np
All other medical conditions (Remainder of A00-R99)	43	31	74	18.2	591	768	1 359	12.6
External causes of morbidity and mortality (V01-Y98)(c)	38	22	60	14.8	460	219	679	6.3
Transport accidents (V01-V99)	14	9	23	5.7	109	37	146	1.4
Intentional self-harm (X60-X84)	np	np	9	2.2	np	np	188	1.7
Assault (X85-Y09)	np	np	9	2.2	np	np	10	0.1
Other external causes (remainder of V01-Y98)	13	6	19	4.7	186	149	335	3.1

np not available for publication but included in totals where applicable, unless otherwise indicated

(a) Excludes Indigenous origin not stated

(b) Data on deaths identified as Indigenous are subject to the impact of differing coverage levels across states and territories. See Explanatory notes, paragraph 30 for further information.

(c) For information about data quality and breaks in series refer to Explanatory notes paragraphs 23-29.

1.7UNDERLYING CAUSE, Indigenous origin(a)—Selected State/territory(b) *continued*

Cause of death and ICD code	INDIGENOUS				NON INDIGENOUS			
	Males	Females	Persons	Proportion of total deaths	Males	Females	Persons	Proportion of total deaths
	no.	no.	no.	%	no.	no.	no.	%
NORTHERN TERRITORY								
All Causes	264	190	454	100.0	358	165	523	100.0
Malignant neoplasms (C00-C97)	38	23	61	13.4	104	51	155	29.6
Digestive organs (C15-C26)	8	8	16	3.5	31	11	42	8.0
Trachea, bronchus, lung (C33, C34)	12	6	18	4.0	27	10	37	7.1
Diabetes mellitus (E10-E14)	np	np	27	5.9	np	np	9	1.7
Mental and behavioural disorders (F00-F99)	7	7	14	3.1	4	7	11	2.1
Diseases of the circulatory system (I00-I99)	67	51	118	26.0	82	31	113	21.6
Ischaemic heart diseases (I20-I25)	40	18	58	12.8	46	13	59	11.3
Cerebrovascular diseases (I60-I69)	10	7	17	3.7	15	9	24	4.6
Diseases of the respiratory system (J00-J99)	22	14	36	7.9	39	11	50	9.6
Chronic lower respiratory diseases (J40-J47)	10	6	16	3.5	28	4	32	6.1
Diseases of the digestive system (K00-K93)	18	16	34	7.5	16	8	24	4.6
Diseases of liver (K70-K77)	14	13	27	5.9	10	5	15	2.9
Certain conditions originating in the perinatal period (P00-P96)(c)	np	np	10	2.2	np	np	5	1.0
Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	np	np	4	0.9	np	np	4	0.8
All other medical conditions (Remainder of A00-R99)	39	31	70	15.4	37	32	69	13.2
External causes of morbidity and mortality (V01-Y98)	51	29	80	17.6	63	20	83	15.9
Transport accidents (V01-V99)	15	6	21	4.6	25	9	34	6.5
Intentional self-harm (X60-X84)	18	4	22	4.8	19	4	23	4.4
Assault (X85-Y09)	np	np	7	1.5	—	—	—	—
Other external causes (remainder of V01-Y98)	16	14	30	6.6	19	7	26	5.0
AUSTRALIA (d)								
All Causes(e)	1 227	914	2 141	100.0	65 219	61 827	127 046	100.0

— nil or rounded to zero (including null cells)

np not available for publication but included in totals where applicable, unless otherwise indicated

(a) Excludes Indigenous origin not stated

(b) Data on deaths identified as Indigenous are subject to the impact of differing coverage levels across states and territories. See Explanatory notes, paragraph 30 for further information.

(c) For information about data quality and breaks in series refer to Explanatory notes paragraphs 23-29.

(d) Includes Vic., Tas., and ACT data which are not published separately.

(e) The Australian total is affected by differing levels of coverage of deaths identified across states and territories and is likely to understate the total of actual indigenous deaths.

1.8 UNDERLYING CAUSE, Years of potential life lost (YPLL)(a)

Cause of death and ICD code	YEARS OF POTENTIAL LIFE LOST		PERCENTAGE OF DEATHS(b)		PERCENTAGE OF YPLL	
	Males	Females	Males	females	Males	Females
All Causes	606 597	328 904	100.0	100.0	100.0	100.0
Chapter 1 Certain infectious and parasitic diseases (A00-B99)	10 086	4 216	1.4	1.3	1.7	1.3
Human immunodeficiency virus (HIV) disease (B20-B24)(c)	2 894	232	0.3	—	0.5	0.1
Chapter II Neoplasms (C00-D48)	184 005	147 960	38.9	45.8	30.3	45.0
Malignant neoplasms (C00-C97)	181 579	146 165	38.3	45.1	29.9	44.4
Digestive organs (C15-C26)	54 126	29 862	11.3	11.0	8.9	9.1
Trachea, bronchus and lung (C33-C34)	36 920	21 359	9.0	8.1	6.1	6.5
Breast (C50)	133	35 718	—	8.6	—	10.9
Prostate (C61)	9 822	—	3.5	—	1.6	—
Lymphoid, haematopoietic and related tissue (C81-C96)	18 530	12 502	3.5	4.0	3.1	3.8
Chapter IV Endocrine, nutritional and metabolic line/diseases (E00-E90)	18 309	11 009	3.6	3.9	3.0	3.3
Diabetes mellitus (E10-E14)	11 269	6 154	2.6	2.6	1.9	1.9
Chapter V Mental and behavioural disorders (F00-F99)	6 680	3 275	1.2	1.2	1.1	1.0
Mental and behavioural disorders due to Psychoactive substance use (F10-F19)	5 019	1 604	0.6	0.3	0.8	0.5
Chapter VI Diseases of the nervous system (G00-G99)	18 722	12 791	2.8	3.8	3.1	3.9
Chapter IX Disease of the circulatory system (I00-I99)	125 002	50 689	26.8	22.2	20.6	15.4
Ischaemic heart disease (I20-I25)	78 238	21 396	16.5	10.3	12.9	6.5
Cerebrovascular diseases (I60-I69)	17 466	12 635	4.6	5.8	2.9	3.8
Diseases of the arteries, arterioles, and capillaries (I70-I79)	4 975	2 331	1.4	1.2	0.8	0.7
Chapter X Diseases of the respiratory system (J00-J99)	23 414	16 801	6.2	7.0	3.9	5.1
Influenza and pneumonia (J40-J47)	4 237	3 209	0.9	1.2	0.7	1.0
Chronic lower respiratory diseases (J40-J47)	13 333	10 742	3.9	4.7	2.2	3.3
Chapter XI Diseases of the digestive system (K00-K93)	24 715	11 507	3.9	3.4	4.1	3.5
Diseases of liver (K70-K77)	18 027	6 854	2.4	1.5	3.0	2.1
Chapter XIV Diseases of the genitourinary system (N00-N99)	3 575	3 212	1.1	1.6	0.6	1.0
Chapter XVII Congenital malformations, deformations, and chromosomal abnormalities (Q00-Q99)	4 498	2 761	0.3	0.4	0.7	0.8
Chapter XX External causes of morbidity and line/mortality (V01-Y98) (d)	169 779	51 460	12.0	6.6	28.0	15.6
Accidents (V01-X59)	100 824	31 804	7.0	4.1	16.6	9.7
Transport accidents (V01-V99)	48 595	14 481	3.1	1.6	8.0	4.4
Accidental poisoning by and exposure to noxious substances (X40-X84)	19 957	7 878	1.3	1.0	3.3	2.4
Intentional self-harm (X60-X84)	59 446	15 019	4.2	1.8	9.8	4.6

— nil or rounded to zero (including null cells)

(a) YPPL measures the extent of premature mortality which is assumed to be any death at ages 1-78 years inclusive. See Technical Note for further explanation.

(b) Percentage of deaths aged 1-78 years

(c) See Explanatory Notes, paragraph 21 for further information.

(d) For information about data quality and breaks in series refer to Explanatory Notes paragraphs 23 to 29.

CHAPTER 2

MULTIPLE CAUSE OF DEATH

INTRODUCTION

Multiple causes of death include all causes and conditions reported on the death certificate (i.e. both underlying and associated causes; see Glossary for further details). Deaths due to External causes are those which occur as a result of accidents, poisonings and/or violence. They are classified according to the event, leading to the fatal injury (such as an Accidental fall). Multiple cause data for External causes include the nature of injury or poisoning, as well as any other causes reported on the death certificate.

NUMBER OF MULTIPLE CAUSES

For the 130,714 deaths registered in 2005, there were 404,333 causes reported giving a mean of 3.1 causes per death. In 19.1% of all deaths, only one cause was reported, whereas 57.1% of deaths were reported with three or more causes. The mean number of causes reported per death varies with age, sex and underlying cause of death.

SELECTED MULTIPLE CAUSES

In 2005, Malignant neoplasms represented 29.4% of all underlying cause of death. When associated causes were included it contributed to 40.6% of all deaths as an underlying or associated cause. Similarly, 18.0% of all deaths had Ischaemic heart disease as the underlying cause, but it was found to contribute to 35.1% of all deaths as either an underlying or associated cause. The following table lists the top ten multiple causes of death (underlying and associated causes) appearing on death certificates for deaths registered in 2005, and their corresponding ranking in terms of underlying causes.

SELECTED MULTIPLE CAUSES OF DEATH

Cause of death and ICD code	MULTIPLE CAUSES		UNDERLYING CAUSE		
	no	%	rank	%	rank
Malignant neoplasms (C00-C97)	53 066	40.6	1	29.4	1
Ischaemic heart disease (I20-I25)	45 831	35.1	2	18.0	2
Cerebrovascular diseases (I60-I69)	22 870	17.5	3	8.8	3
Influenza and pneumonia (J10-J18)	17 442	13.3	4	2.3	7
Heart Failure (I50)	16 763	12.8	5	1.7	10
Hypertensive diseases (I10-I15)	16 115	12.3	6	1.1	15
Renal failure (N17-N19)	15 103	11.6	7	1.4	12
Chronic lower respiratory diseases (J40-J47)	13 977	10.7	8	4.2	4
Organic, including symptomatic, mental disorders (F00-F09)	11 940	9.1	9	2.2	8
Diabetes mellitus (E10-E14)	11 874	9.1	10	2.7	6
Deaths from all causes	404 333	100.0	—	100.0	—

— nil or rounded to zero (including null cells)

RELATIONSHIP OF CAUSES

The following table illustrates relationships between the various causes of death in 2005. Malignant neoplasms, the most prevalent underlying cause (38,380 deaths), was reported alone in 36.8% of cases and is less likely to be reported with other more prevalent causes. In contrast, Renal failure was reported alone as the underlying cause in only

RELATIONSHIP OF CAUSES *continued* 6.3%(1,886) of deaths attributed to this cause. It was reported more frequently with associated causes of Ischaemic heart disease and Heart failure.

SELECTED UNDERLYING CAUSES WITH ASSOCIATED CAUSE

SELECTED UNDERLYING CAUSE	REPORTED WITH SELECTED ASSOCIATED CAUSE								
	Total no of deaths	Reported alone	Malignant neoplasms (C00-C97)	Ischaemic heart diseases (I20-I25)	Cerebro-vascular diseases (I60-I69)	Chronic lower respiratory diseases (J40-J47)	Influenza and pneumonia (J10-J18)	Heart failure (I50)	Renal failure (N17-N19)
	no	%	%	%	%	%	%	%	%
Malignant neoplasms (C00-C97)	38 380	36.8	—	8.3	3.9	6.3	7.6	3.5	5.9
Ischaemic heart diseases (I20-I25)	23 570	11.4	6.3	—	10.4	10.0	6.0	24.3	11.2
Cerebrovascular diseases (I60-I69)	11 513	14.8	4.9	11.3	—	4.0	15.1	5.0	4.5
Chronic lower respiratory diseases (J40-J47)	5 428	7.6	7.6	19.5	5.4	—	32.9	17.5	7.9
Influenza and pneumonia (J10-J18)	3 034	28.0	1.1	16.9	2.3	1.4	—	10.3	11.3
Heart failure (I50)	2 225	12.8	6.3	0.5	8.2	11.9	23.0	—	21.0
Renal failure (N17-N19)	1 886	6.3	5.9	29.2	9.6	7.5	12.8	29.6	—

— nil or rounded to zero (including null cells)

EXTERNAL CAUSES

In 2005, there were 8,015 deaths due to External causes, with an average of 3.3 causes coded per each of these deaths. The average number of multiple causes coded due to Accidental Falls was 4.5 and reflects the number of injuries sustained. In 2005, Transport accidents accounted for 21.2% of all injuries due to External causes, with 43.6% of these injuries being to the head or thorax. Intentional self-harm accounted for 23.8% of total injuries due to External causes, and of these injuries, Asphyxiation was the most common (42.7%).

2.1**UNDERLYING AND NUMBER OF CAUSES OF DEATH REPORTED**

<i>Underlying cause of death and ICD code</i>	<i>Reported alone</i>	<i>One Other cause</i>	<i>Two other causes</i>	<i>Three other causes</i>	<i>Four or more other causes</i>	<i>Mean number of causes</i>
All Causes	24 928	31 203	28 872	20 876	24 835	3.1
CHAPTER I Certain infectious and parasitic diseases (A00-B99)	204	343	392	292	470	3.6
Septicaemia (A40, A41)	109	219	253	179	293	3.6
Human immunodeficiency virus (HIV) disease (B20-B24)	39	30	14	4	8	2.2
CHAPTER II Neoplasms (C00-D48)	14 272	9 364	7 147	4 215	4 224	2.4
Malignant neoplasms (C00-C97)	14 141	9 187	6 951	4 065	4 036	2.4
Digestive Organs (C15-C26)	4 269	2 447	1 785	1 084	1 015	2.3
Oesophagus (C15)	467	274	190	115	101	2.3
Stomach (C16)	500	245	165	90	90	2.2
Colon (C18)	1 056	609	443	272	257	2.4
Rectosigmoid junction, rectum, anus and anal canal (C19-C21)	606	343	257	156	172	2.4
Liver and intrahepatic bile ducts (C22)	274	232	189	127	120	2.7
Pancreas (C25)	964	450	318	161	125	2.1
Trachea, bronchus and lung (C33-C34)	2 479	1 955	1 392	844	729	2.4
Melanoma of skin (C43)	564	293	200	103	113	2.2
Breast (C50)	1 165	626	470	238	237	2.3
Female genital organs (C51-C58)	688	343	261	143	123	2.2
Ovary (C56)	415	204	133	72	60	2.1
Male genital organs (C60-C63)	999	726	578	309	372	2.5
Prostate (C61)	984	718	573	303	368	2.5
Urinary tract (C64-C68)	602	419	372	204	243	2.6
Kidney, except renal pelvis (C64)	294	197	161	95	100	2.6
Bladder (C67)	283	197	191	102	132	2.7
Brain (C71)	620	217	129	44	38	1.7
Lymphoid, haematopoietic and related tissue (C81-C96)	925	842	762	508	577	2.9
Leukaemia (C91-C95)	303	358	302	211	240	3.0
In situ and benign neoplasms and neoplasms of uncertain or unknown behaviour (D00-D48)	131	177	196	150	188	3.3
CHAPTER III Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50-D89)	23	64	133	102	176	4.1
CHAPTER IV Endocrine, nutritional and metabolic diseases (E00-E90)	71	436	1 168	1 347	1 967	4.3
Diabetes mellitus (E10-E14)	31	298	837	1 025	1 338	4.3
CHAPTER V Mental and behavioural disorders (F00-F99)	439	1 133	795	529	471	3.0
Organic, including symptomatic, mental disorders (F00-F09)	385	1 049	677	412	315	2.8
CHAPTER VI Diseases of the nervous system (G00-G99)	843	1 358	1 115	670	711	2.9
Alzheimer's disease (G30)	427	604	399	238	197	2.6
CHAPTER VII Diseases of the eye and adnexa (H00-H59)	—	np	np	np	np	3.5
CHAPTER VIII Diseases of the ear and mastoid process (H60-H95)	—	np	np	np	np	4.2
CHAPTER IX Diseases of the circulatory system (I00-I99)	5 629	10 051	11 628	8 765	10 061	3.3
All heart disease (I05-I09, I11, I13, I20-I25, I26, I27, I30-I52)	3 582	6 230	7 755	6 223	7 407	3.5
Acute rheumatic fever and chronic rheumatic heart diseases (I00-I09)	10	28	65	77	104	4.3
Hypertensive diseases (I10-I15)	152	335	378	293	287	3.3
Ischaemic heart disease (I20-I25)	2 693	4 573	5 898	4 751	5 655	3.5
Acute myocardial infarction (I21)	831	2 629	3 199	2 461	2 741	3.5
Pulmonary heart disease and diseases of pulmonary circulation and other forms of heart disease (I26-I52)	764	1 437	1 632	1 284	1 519	3.4
Heart Failure (I50)	284	593	627	378	343	3.1
Cerebrovascular diseases (I60-I69)	1 703	3 011	3 046	1 887	1 866	3.1
Diseases of arteries, arterioles and capillaries (I70-I79)	296	546	560	422	562	3.4
Atherosclerosis (I70)	25	93	101	66	53	3.2
Aortic aneurysm and dissection (I71)	244	341	282	169	203	2.9

— nil or rounded to zero (including null cells)

np not available for publication but included in totals where applicable, unless otherwise indicated

2.1 UNDERLYING AND NUMBER OF CAUSES OF DEATH REPORTED *continued*

<i>Underlying cause of death and ICD code</i>	<i>Reported alone</i>	<i>One Other cause</i>	<i>Two other causes</i>	<i>Three other causes</i>	<i>Four or more other causes</i>	<i>Mean number of causes</i>
CHAPTER X Diseases of the respiratory system (J00-J99)	1 514	2 640	2 733	1 882	2 047	3.2
Influenza and pneumonia (J10-J18)	850	915	671	345	253	2.5
Chronic lower respiratory diseases (J40-J47)	412	1 156	1 434	1 111	1 315	3.5
Emphysema (J43)	49	158	157	99	116	3.3
Asthma and status asthmaticus (J45, J46))	48	43	90	64	73	3.4
CHAPTER XI Diseases of the digestive system (K00-K93)	441	855	979	905	1 360	3.8
Diseases of oesophagus, stomach and duodenum (K20-K31)	55	98	143	123	171	3.7
Gastric and duodenal ulcer (K25-K27)	48	76	90	71	72	3.3
Diseases of liver (K70-K77)	170	346	303	281	327	3.4
CHAPTER XII Diseases of the skin and subcutaneous tissue (L00-L99)	np	np	88	91	141	4.2
CHAPTER XIII Diseases of the musculoskeletal system and connective tissue (M00-M99)	34	154	248	223	373	4.1
Arthropathies and systemic connective tissue disorders (M00-M36)	25	104	157	122	215	4.0
CHAPTER XIV Diseases of the genitourinary system (N00-N99)	149	490	764	677	953	3.9
Renal failure (N17-N19)	119	333	491	405	538	3.7
CHAPTER XV Pregnancy, childbirth and the puerperium (O00-O99)	np	5	np	np	—	2.8
CHAPTER XVI Certain conditions originating in the perinatal period (P00-P96)	286	189	114	54	33	2.1
Fetus and newborn affected by maternal factors and by complications of pregnancy, labour and delivery (P00-P04)	122	111	75	35	15	2.2
CHAPTER XVII Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	76	181	125	78	104	3.1
Congenital malformations of the circulatory system (Q20-Q28)	30	58	44	23	31	3.0
CHAPTER XVIII Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00-R99)	942	77	21	3	np	1.1
CHAPTER XX External causes of morbidity and mortality (V01-Y98)	—	3 819	1 419	1 040	1 737	3.3
Accidents (V01-X59)	—	2 126	974	771	1 396	3.6
Transport accidents (V01-V99)	—	1 068	344	119	107	2.6
Falls (W00-W19)	—	152	182	217	445	4.5
Accidental drowning and submersion (W65-W74)	—	142	32	9	9	2.4
Intentional self-harm (X60-X84)	—	1 501	324	158	118	2.5
Hanging, strangulation and suffocation (X70)	—	839	149	48	32	2.3
Assault (X85-Y09)	—	123	45	22	9	2.6

— nil or rounded to zero (including null cells)

np not available for publication but included in totals where applicable, unless otherwise indicated

2.2 UNDERLYING AND MULTIPLE CAUSES, Numbers and Ratios

Cause of death and ICD code	UNDERLYING CAUSE			MULTIPLE CAUSE(a)			RATIO(b)
	Males	Females	Persons	Males	Females	Persons	Persons
All Causes	67 241	63 473	130 714	207 464	196 869	404 333	3.1
CHAPTER I Certain infectious and parasitic diseases (A00-B99)							
Septicaemia (A40, A41)	505	548	1 053	3 826	3 661	7 487	7.1
Human immunodeficiency virus (HIV) disease(B20-B24)	89	6	95	97	7	104	1.1
CHAPTER II Neoplasms (C00-D48)	22 039	17 183	39 222	31 118	23 854	54 972	1.4
Malignant neoplasms (C00-C97)	21 609	16 771	38 380	30 107	22 959	53 066	1.4
Digestive Organs (C15-C26)	5 974	4 626	10 600	6 732	5 125	11 857	1.1
Oesophagus (C15)	791	356	1 147	847	384	1 231	1.1
Stomach (C16)	699	391	1 090	761	408	1 169	1.1
Colon (C18)	1 395	1 242	2 637	1 636	1 443	3 079	1.2
Rectosigmoid junction, rectum, anus and anal canal (C19-C21)	935	599	1 534	1 057	658	1 715	1.1
Liver and intrahepatic bile ducts (C22)	596	346	942	651	370	1 021	1.1
Pancreas (C25)	963	1 055	2 018	1 005	1 097	2 102	1.0
Trachea, bronchus and lung (C33,C34)	4 694	2 705	7 399	5 016	2 878	7 894	1.1
Melanoma of skin (C43)	862	411	1 273	945	471	1 416	1.1
Breast (C50)	17	2 719	2 736	23	3 432	3 455	1.3
Female genital organs (C51-C58)	—	1 558	1 558	—	1 767	1 767	1.1
Ovary (C56)	—	884	884	—	947	947	1.1
Male genital organs (C60-C63)	2 984	—	2 984	4 289	—	4 289	1.4
Prostate (C61)	2 946	—	2 946	4 240	—	4 240	1.4
Urinary tract (C64-C68)	1 207	633	1 840	1 562	772	2 334	1.3
Kidney, except renal pelvis (C64)	508	339	847	603	385	988	1.2
Bladder (C67)	653	252	905	904	342	1 246	1.4
Brain (C71)	611	437	1 048	630	448	1 078	1.0
Lymphoid, haematopoietic and related tissue (C81-C96)	1 984	1 630	3 614	2 597	2 056	4 653	1.3
Leukaemia (C91-C95)	800	614	1 414	1 021	783	1 804	1.3
In situ and benign neoplasms and neoplasms of uncertain or unknown behaviour (D00-D48)	430	412	842	1 011	895	1 906	2.3
CHAPTER III Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50-D89)	213	285	498	2 051	2 164	4 215	8.5
CHAPTER IV Endocrine, nutritional and metabolic diseases (E00-E90)	2 424	2 565	4 989	9 793	10 133	19 926	4.0
Diabetes mellitus (E10-E14)	1 775	1 754	3 529	6 332	5 542	11 874	3.4
CHAPTER V Mental and behavioural disorders (F00-F99)	1 228	2 139	3 367	8 298	10 006	18 304	5.4
Organic, including symptomatic, mental disorders (F00-F09)	908	1 930	2 838	4 416	7 524	11 940	4.2
CHAPTER VI Diseases of the nervous system (G00-G99)	2 093	2 604	4 697	6 021	6 504	12 525	2.7
Alzheimer's disease (G30)	555	1 310	1 865	1 248	2 616	3 864	2.1
CHAPTER VII Diseases of the eye and adnexa (H00-H59)	np	np	4	182	304	486	121.5
CHAPTER VIII Diseases of the ear and mastoid process (H60-H95)	np	np	6	60	75	135	22.5

— nil or rounded to zero (including null cells)

np not available for publication but included in totals where applicable, unless otherwise indicated

(a) Total mentions of cause on death certificates. See Glossary for further explanation. Excludes injury codes (ICD codes S000-T983).

(b) Ratio of multiple (underlying and associated) to underlying cause.

2.2 UNDERLYING AND MULTIPLE CAUSES, Numbers and Ratios *continued*

Cause of death and ICD code	UNDERLYING CAUSE			MULTIPLE CAUSE(a)			RATIO(b)
	Males	Females	Persons	Males	Females	Persons	Persons
CHAPTER IX Diseases of the circulatory system (I00-I99)	21 957	24 177	46 134	70 204	73 182	143 386	3.1
All heart disease (I05-I09, I11, I13, I20-I25, I26, I27, I30-I52)	15 682	15 515	31 197	48 407	46 025	94 432	3.0
Acute rheumatic fever and chronic rheumatic heart diseases (I00-I09)	100	184	284	274	480	754	2.7
Hypertensive diseases (I10-I15))	508	937	1 445	6 787	9 328	16 115	11.2
Ischaemic heart disease (I20-I25)	12 433	11 137	23 570	24 918	20 913	45 831	1.9
Acute myocardial infarction (I21)	6 004	5 857	11 861	8 192	7 700	15 892	1.3
Pulmonary heart disease and diseases of pulmonary circulation and other forms of heart disease (I26-I52)	2 897	3 739	6 636	22 827	24 090	46 917	7.1
Heart Failure (I50)	835	1 390	2 225	7 478	9 285	16 763	7.5
Cerebrovascular diseases (I60-I69)	4 668	6 845	11 513	9 896	12 974	22 870	2.0
Diseases of arteries, arterioles and capillaries (I70-I79)	1 217	1 169	2 386	4 280	4 168	8 448	3.5
Atherosclerosis (I70)	122	216	338	1 639	1 993	3 632	10.7
Aortic aneurysm and dissection (I71))	707	532	1 239	1 139	761	1 900	1.5
CHAPTER X Diseases of the respiratory system (J00-J99)	5 703	5 113	10 816	27 549	23 556	51 105	4.7
Influenza and pneumonia (J10-J18)	1 331	1 703	3 034	8 577	8 865	17 442	5.7
Chronic lower respiratory diseases (J40-J47)	3 025	2 403	5 428	8 206	5 771	13 977	2.6
Emphysema (J43)	358	221	579	983	517	1 500	2.6
Asthma and status asthmaticus (J45, J46)	108	210	318	428	778	1 206	3.8
CHAPTER XI Diseases of the digestive system (K00-K93)	2 281	2 259	4 540	8 059	7 220	15 279	3.4
Diseases of oesophagus, stomach and duodenum (K20-K31)	261	329	590	1 071	1 133	2 204	3.7
Gastric and duodenal ulcer (K25-K27)	162	195	357	452	457	909	2.5
Diseases of liver (K70-K77)	1 002	425	1 427	3 208	1 547	4 755	3.3
CHAPTER XII Diseases of the skin and subcutaneous tissue (L00-L99)	161	205	366	732	978	1 710	4.7
CHAPTER XIII Diseases of the musculoskeletal system and connective tissue (M00-M99)	301	731	1 032	2 004	4 119	6 123	5.9
Arthropathies and systemic connective tissue disorders (M00-M36)	182	441	623	1 149	2 122	3 271	5.3
CHAPTER XIV Diseases of the genitourinary system (N00-N99)	1 316	1 717	3 033	9 772	9 255	19 027	6.3
Renal failure (N17-N19)	883	1 003	1 886	8 043	7 060	15 103	8.0
CHAPTER XV Pregnancy, childbirth and the puerperium (O00-O99)	—	9	9	—	21	21	2.3
CHAPTER XVI Certain conditions originating in the perinatal period (P00-P96)(c)	376	300	676	880	695	1 575	2.3
Fetus and newborn affected by maternal factors and by complications of pregnancy, labour and delivery (P00-P04)	187	171	358	332	297	629	1.8
CHAPTER XVII Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	308	256	564	556	477	1 033	1.8
Congenital malformations of the circulatory system (Q20-Q28)	107	79	186	177	155	332	1.8
CHAPTER XVIII Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00-R99)	568	477	1 045	7 572	8 795	16 367	15.7

— nil or rounded to zero (including null cells)

(a) Total mentions of cause on death certificates. See Glossary for further explanation. Excludes injury codes (ICD codes S000-T983).

(b) Ratio of multiple (underlying and associated) to underlying cause.

(c) A number of data quality issues have been identified when coding the cause for 2005. See Explanatory notes, paragraphs 27-29 for further information.

2.2**UNDERLYING AND MULTIPLE CAUSES, Numbers and Ratios** *continued*

Cause of death and ICD code	UNDERLYING CAUSE			MULTIPLE CAUSE(a)			RATIO(b)
	Males	Females	Persons	Males	Females	Persons	Persons
CHAPTER XX External causes of morbidity and mortality (V01-Y98)	5 364	2 651	8 015	8 487	5 509	13 996	1.7
Accidents (V01-X59)	3 317	1 950	5 267	4 573	3 294	7 867	1.5
Transport accidents (V01-V99)	1 224	414	1 638	1 242	417	1 659	1.0
Falls (W00-W19)	470	526	996	597	681	1 278	1.3
Accidental drowning and submersion (W65-W74)	147	45	192	154	47	201	1.0
Intentional self-harm (X60-X84)	1 657	444	2 101	1 718	464	2 182	1.0
Hanging, strangulation and suffocation (X70)	885	183	1 068	889	184	1 073	1.0
Assault (X85-Y09)	130	69	199	136	74	210	1.1

(a) Total mentions of cause on death certificates. See Glossary for further explanation. Excludes injury codes (ICD codes S000-T983).

(b) Ratio of multiple (underlying and associated) to underlying cause.

2.3 UNDERLYING CAUSE AND MOST COMMON ASSOCIATED CAUSES

<i>Underlying cause/associated cause and ICD code</i>	MALES		FEMALES		PERSONS	
	<i>no.</i>	<i>%</i>	<i>no.</i>	<i>%</i>	<i>no.</i>	<i>%</i>
Malignant neoplasms (C00-C97)	21 609	100.0	16 771	100.0	38 380	100.0
Reported alone	7 618	35.3	6 523	38.9	14 141	36.8
Reported with						
Septicaemia (A40, A41)	847	3.9	591	3.5	1 438	3.7
Diabetes mellitus (E10-E14)	1 241	5.7	754	4.5	1 995	5.2
Ischaemic heart diseases (I20-I25)	2 149	9.9	1 048	6.2	3 197	8.3
Heart failure (I50)	700	3.2	654	3.9	1 354	3.5
Cerebrovascular diseases (I60-I69)	876	4.1	636	3.8	1 512	3.9
Influenza and pneumonia (J10-J18)	1 808	8.4	1 093	6.5	2 901	7.6
Chronic lower respiratory diseases (J40-J47)	1 583	7.3	827	4.9	2 410	6.3
Diseases of liver (K70-K77)	751	3.5	415	2.5	1 166	3.0
Renal failure (N17-N19)	1 445	6.7	804	4.8	2 249	5.9
Diabetes mellitus (E10-E14)	1 775	100.0	1 754	100.0	3 529	100.0
Reported alone	13	0.7	18	1.0	31	0.9
Reported with						
Septicaemia (A40, A41)	149	8.4	151	8.6	300	8.5
Organic, including symptomatic, mental disorders (F00-F09)	169	9.5	256	14.6	425	12.0
Ischaemic heart diseases (I20-I25)	1 015	57.2	857	48.9	1 872	53.0
Heart failure (I50)	329	18.5	359	20.5	688	19.5
Cerebrovascular diseases (I60-I69)	380	21.4	398	22.7	778	22.0
Influenza and pneumonia (J10-J18)	163	9.2	154	8.8	317	9.0
Chronic lower respiratory diseases (J40-J47)	150	8.5	85	4.8	235	6.7
Renal failure (N17-N19)	489	27.5	446	25.4	935	26.5
Organic, including symptomatic, mental disorders (F00-F09)	908	100.0	1 930	100.0	2 838	100.0
Reported alone	92	10.1	293	15.2	385	13.6
Reported with						
Ischaemic heart diseases (I20-I25)	74	8.1	137	7.1	211	7.4
Heart failure (I50)	54	5.9	121	6.3	175	6.2
Influenza and pneumonia (J10-J18)	400	44.1	707	36.6	1 107	39.0
Renal failure (N17-N19)	70	7.7	102	5.3	172	6.1
Diseases of the nervous system (G00-G99)	2 093	100.0	2 604	100.0	4 697	100.0
Reported alone	313	15.0	530	20.4	843	17.9
Reported with						
Ischaemic heart diseases (I20-I25)	232	11.1	211	8.1	443	9.4
Heart failure (I50)	87	4.2	126	4.8	213	4.5
Cerebrovascular diseases (I60-I69)	226	10.8	289	11.1	515	11.0
Influenza and pneumonia (J10-J18)	557	26.6	651	25.0	1 208	25.7
Ischaemic heart diseases (I20-I25)	12 433	100.0	11 137	100.0	23 570	100.0
Reported alone	1 776	14.3	917	8.2	2 693	11.4
Reported with						
Malignant neoplasms (C00-C97)	943	7.6	540	4.8	1 483	6.3
Diabetes mellitus (E10-E14)	1 331	10.7	1 036	9.3	2 367	10.0
Organic, including symptomatic, mental disorders (F00-F09)	659	5.3	1 265	11.4	1 924	8.2
Diseases of the nervous system (G00-G99)	704	5.7	762	6.8	1 466	6.2
Heart failure (I50)	2 683	21.6	3 045	27.3	5 728	24.3
Cerebrovascular diseases (I60-I69)	1 162	9.3	1 291	11.6	2 453	10.4
Influenza and pneumonia (J10-J18)	727	5.8	695	6.2	1 422	6.0
Chronic lower respiratory diseases (J40-J47)	1 449	11.7	917	8.2	2 366	10.0
Renal failure (N17-N19)	1 479	11.9	1 154	10.4	2 633	11.2

2.3**UNDERLYING CAUSE AND MOST COMMON ASSOCIATED CAUSES** *continued*

<i>Underlying cause/associated cause and ICD code</i>	MALES		FEMALES		PERSONS	
	<i>no.</i>	<i>%</i>	<i>no.</i>	<i>%</i>	<i>no.</i>	<i>%</i>
Heart failure (I50)	835	100.0	1 390	100.0	2 225	100.0
Reported alone	92	11.0	192	13.8	284	12.8
Reported with						
Diabetes mellitus (E10-E14)	63	7.5	95	6.8	158	7.1
Organic, including symptomatic, mental disorders (F00-F09)	80	9.6	181	13.0	261	11.7
Cerebrovascular diseases (I60-I69)	81	9.7	102	7.3	183	8.2
Influenza and pneumonia (J10-J18)	199	23.8	312	22.4	511	23.0
Chronic lower respiratory diseases (J40-J47)	123	14.7	142	10.2	265	11.9
Renal failure (N17-N19)	210	25.1	257	18.5	467	21.0
Cerebrovascular diseases (I60-I69)	4 668	100.0	6 845	100.0	11 513	100.0
Reported alone	631	13.5	1 072	15.7	1 703	14.8
Reported with						
Malignant neoplasms (C00-C97)	316	6.8	249	3.6	565	4.9
Diabetes mellitus (E10-E14)	392	8.4	437	6.4	829	7.2
Diseases of the nervous system (G00-G99)	550	11.8	683	10.0	1 233	10.7
Ischaemic heart diseases (I20-I25)	645	13.8	656	9.6	1 301	11.3
Heart failure (I50)	210	4.5	369	5.4	579	5.0
Influenza and pneumonia (J10-J18)	782	16.8	951	13.9	1 733	15.1
Diseases of arteries, arterioles and capillaries (I70-I79)	1 217	100.0	1 169	100.0	2 386	100.0
Reported alone	176	14.5	120	10.3	296	12.4
Reported with						
Septicaemia (A40, A41)	139	11.4	126	10.8	265	11.1
Hypertensive diseases (I10-I15)	162	13.3	189	16.2	351	14.7
Ischaemic heart diseases (I20-I25)	261	21.4	183	15.7	444	18.6
Heart failure (I50)	110	9.0	143	12.2	253	10.6
Cerebrovascular diseases (I60-I69)	119	9.8	128	10.9	247	10.4
Influenza and pneumonia (J10-J18)	65	5.3	92	7.9	157	6.6
Renal failure (N17-N19)	188	15.4	132	11.3	320	13.4
Influenza and pneumonia (J10-J18)	1 331	100.0	1 703	100.0	3 034	100.0
Reported alone	334	25.1	516	30.3	850	28.0
Reported with						
Septicaemia (A40, A41)	169	12.7	148	8.7	317	10.4
Diabetes mellitus (E10-E14)	81	6.1	95	5.6	176	5.8
Ischaemic heart diseases (I20-I25)	245	18.4	268	15.7	513	16.9
Heart failure (I50)	125	9.4	189	11.1	314	10.3
Renal failure (N17-N19)	174	13.1	168	9.9	342	11.3
Chronic lower respiratory diseases (J40-J47)	3 025	100.0	2 403	100.0	5 428	100.0
Reported alone	208	6.9	204	8.5	412	7.6
Reported with						
Malignant neoplasms (C00-C97)	282	9.3	133	5.5	415	7.6
Diabetes mellitus (E10-E14)	215	7.1	144	6.0	359	6.6
Ischaemic heart diseases (I20-I25)	598	19.8	463	19.3	1 061	19.5
Heart failure (I50)	497	16.4	455	18.9	952	17.5
Cerebrovascular diseases (I60-I69)	183	6.0	109	4.5	292	5.4
Influenza and pneumonia (J10-J18)	1 027	34.0	761	31.7	1 788	32.9
Renal failure (N17-N19)	260	8.6	171	7.1	431	7.9
Renal failure (N17-N19)	883	100.0	1 003	100.0	1 886	100.0
Reported alone	52	5.9	67	6.7	119	6.3
Reported with						
Septicaemia (A40, A41)	100	11.3	92	9.2	192	10.2
Diabetes mellitus (E10-E14)	90	10.2	103	10.3	193	10.2
Ischaemic heart diseases (I20-I25)	282	31.9	268	26.7	550	29.2
Heart failure (I50)	256	29.0	303	30.2	559	29.6
Cerebrovascular diseases (I60-I69)	96	10.9	85	8.5	181	9.6
Influenza and pneumonia (J10-J18)	120	13.6	122	12.2	242	12.8

2.4 ASSOCIATED CAUSE OF DEATH AND UNDERLYING CAUSE

<i>Multiple cause/underlying cause and ICD code</i>	MALES		FEMALES		PERSONS	
	<i>no.</i>	<i>%</i>	<i>no.</i>	<i>%</i>	<i>no.</i>	<i>%</i>
Septicaemia (A40-A41)	3 815	100.0	3 658	100.0	7 473	100.0
Reported as an underlying cause	505	13.2	548	15.0	1 053	14.1
Reported in association with an underlying cause of						
Malignant neoplasms (C00-C97)	847	22.2	591	16.2	1 438	19.2
Diabetes mellitus (E10-E14)	149	3.9	151	4.1	300	4.0
Ischaemic heart diseases (I20-I25)	171	4.5	158	4.3	329	4.4
Cerebrovascular diseases (I60-I69)	117	3.1	99	2.7	216	2.9
Influenza and pneumonia (J10-J18)	169	4.4	148	4.0	317	4.2
Malignant neoplasms (C00-C97)	24 671	100.0	18 755	100.0	43 426	100.0
Reported as an underlying cause	21 609	87.6	16 771	89.4	38 380	88.4
Reported in association with an underlying cause of						
Ischaemic heart diseases (I20-I25)	943	3.8	540	2.9	1 483	3.4
Cerebrovascular diseases (I60-I69)	316	1.3	249	1.3	565	1.3
Diabetes mellitus (E10-E14)	6 325	100.0	5 539	100.0	11 864	100.0
Reported as an underlying cause	1 775	28.1	1 754	31.7	3 529	29.7
Reported in association with an underlying cause of						
Malignant neoplasms (C00-C97)	1 241	19.6	754	13.6	1 995	16.8
Ischaemic heart diseases (I20-I25)	1 331	21.0	1 036	18.7	2 367	20.0
Cerebrovascular diseases (I60-I69)	392	6.2	437	7.9	829	7.0
Organic, including symptomatic, mental disorders (F00-F09)	4 395	100.0	7 499	100.0	11 894	100.0
Reported as an underlying cause	908	20.7	1 930	25.7	2 838	23.9
Reported in association with an underlying cause of						
Malignant neoplasms (C00-C97)	392	8.9	397	5.3	789	6.6
Ischaemic heart diseases (I20-I25)	659	15.0	1 265	16.9	1 924	16.2
Heart failure (I50)	80	1.8	181	2.4	261	2.2
Chronic lower respiratory diseases (J40-J47)	203	4.6	173	2.3	376	3.2
Diseases of the nervous system (G00-G99)	5 619	100.0	6 150	100.0	11 769	100.0
Reported as an underlying cause	2 093	37.2	2 604	42.3	4 697	39.9
Reported in association with an underlying cause of						
Malignant neoplasms (C00-C97)	663	11.8	495	8.0	1 158	9.8
Ischaemic heart diseases (I20-I25)	704	12.5	762	12.4	1 466	12.5
Cerebrovascular diseases (I60-I69)	550	9.8	683	11.1	1 233	10.5
Hypertensive diseases (I10-I15)	6 741	100.0	9 280	100.0	16 021	100.0
Reported as an underlying cause	508	7.5	937	10.1	1 445	9.0
Reported in association with an underlying cause of						
Malignant neoplasms (C00-C97)	1 073	15.9	1 053	11.3	2 126	13.3
Ischaemic heart diseases (I20-I25)	2 103	31.2	2 561	27.6	4 664	29.1
Diseases of arteries, arterioles and capillaries (I70-I79)	162	2.4	189	2.0	351	2.2
Chronic lower respiratory diseases (J40-J47)	202	3.0	224	2.4	426	2.7
Ischaemic heart diseases (I20-I25)	20 111	100.0	17 115	100.0	37 226	100.0
Reported as an underlying cause	12 433	61.8	11 137	65.1	23 570	63.3
Reported in association with an underlying cause of						
Malignant neoplasms (C00-C97)	2 149	10.7	1 048	6.1	3 197	8.6
Diabetes mellitus (E10-E14)	1 015	5.0	857	5.0	1 872	5.0
Cerebrovascular diseases (I60-I69)	645	3.2	656	3.8	1 301	3.5
Chronic lower respiratory diseases (J40-J47)	598	3.0	463	2.7	1 061	2.9
Heart failure (I50)	7 444	100.0	9 247	100.0	16 691	100.0
Reported as an underlying cause	835	11.2	1 390	15.0	2 225	13.3
Reported in association with an underlying cause of						
Malignant neoplasms (C00-C97)	700	9.4	654	7.1	1 354	8.1
Diabetes mellitus (E10-E14)	329	4.4	359	3.9	688	4.1
Ischaemic heart diseases (I20-I25)	2 683	36.0	3 045	32.9	5 728	34.3
Cerebrovascular diseases (I60-I69)	210	2.8	369	4.0	579	3.5
Chronic lower respiratory diseases (J40-J47)	497	6.7	455	4.9	952	5.7
Renal failure (N17-N19)	256	3.4	303	3.3	559	3.3

2.4 ASSOCIATED CAUSE OF DEATH AND UNDERLYING CAUSE *continued*

<i>Multiple cause/underlying cause and ICD code</i>	MALES		FEMALES		PERSONS	
	<i>no.</i>	<i>%</i>	<i>no.</i>	<i>%</i>	<i>no.</i>	<i>%</i>
Cerebrovascular diseases (I60-I69)	9 041	100.0	11 590	100.0	20 631	100.0
Reported as an underlying cause	4 668	51.6	6 845	59.1	11 513	55.8
Reported in association with an underlying cause of						
Malignant neoplasms (C00-C97)	876	9.7	636	5.5	1 512	7.3
Diabetes mellitus (E10-E14)	380	4.2	398	3.4	778	3.8
Ischaemic heart diseases (I20-I25)	1 162	12.9	1 291	11.1	2 453	11.9
Diseases of arteries, arterioles and capillaries (I70-I79)	3 914	100.0	3 861	100.0	7 775	100.0
Reported as an underlying cause	1 217	31.1	1 169	30.3	2 386	30.7
Reported in association with an underlying cause of						
Malignant neoplasms (C00-C97)	276	7.1	142	3.7	418	5.4
Ischaemic heart diseases (I20-I25)	1 079	27.6	1 015	26.3	2 094	26.9
Cerebrovascular diseases (I60-I69)	466	11.9	667	17.3	1 133	14.6
Influenza and pneumonia (J10-J18)	8 548	100.0	8 841	100.0	17 389	100.0
Reported as an underlying cause	1 331	15.6	1 703	19.3	3 034	17.4
Reported in association with an underlying cause of						
Malignant neoplasms (C00-C97)	1 808	21.2	1 093	12.4	2 901	16.7
Organic, including symptomatic, mental disorders (F00-F09)	400	4.7	707	8.0	1 107	6.4
Diseases of the nervous system (G00-G99)	557	6.5	651	7.4	1 208	6.9
Ischaemic heart diseases (I20-I25)	727	8.5	695	7.9	1 422	8.2
Heart failure (I50)	199	2.3	312	3.5	511	2.9
Cerebrovascular diseases (I60-I69)	782	9.1	951	10.8	1 733	10.0
Chronic lower respiratory diseases (J40-J47)	1 027	12.0	761	8.6	1 788	10.3
Chronic lower respiratory diseases (J40-J47)	8 051	100.0	5 597	100.0	13 648	100.0
Reported as an underlying cause	3 025	37.6	2 403	42.9	5 428	39.8
Reported in association with an underlying cause of						
Malignant neoplasms (C00-C97)	1 583	19.7	827	14.8	2 410	17.7
Ischaemic heart diseases (I20-I25)	1 449	18.0	917	16.4	2 366	17.3
Cerebrovascular diseases (I60-I69)	259	3.2	202	3.6	461	3.4
Diseases of liver (K70-K77)	2 652	100.0	1 308	100.0	3 960	100.0
Reported as an underlying cause	1 002	37.8	425	32.5	1 427	36.0
Reported in association with an underlying cause of						
Malignant neoplasms (C00-C97)	751	28.3	415	31.7	1 166	29.4
Ischaemic heart diseases (I20-I25)	182	6.9	66	5.0	248	6.3
Renal failure (N17-N19)	7 265	100.0	6 436	100.0	13 701	100.0
Reported as an underlying cause	883	12.2	1 003	15.6	1 886	13.8
Reported in association with an underlying cause of						
Malignant neoplasms (C00-C97)	1 445	19.9	804	12.5	2 249	16.4
Diabetes mellitus (E10-E14)	489	6.7	446	6.9	935	6.8
Ischaemic heart diseases (I20-I25)	1 479	20.4	1 154	17.9	2 633	19.2
Heart failure (I50)	210	2.9	257	4.0	467	3.4
Cerebrovascular diseases (I60-I69)	251	3.5	272	4.2	523	3.8
Chronic lower respiratory diseases (J40-J47)	260	3.6	171	2.7	431	3.1

2.5 NATURE OF INJURY, Persons—By External Causes(a)

ACCIDENTS

<i>Nature of injury or poisoning and ICD code</i>	<i>Transport accidents (V01-V99)</i>	<i>Accidental Falls (W00-W19)</i>	<i>Accidental drowning and submersion (W65-W74)</i>	<i>Exposure to smoke, fire and flames (X00-X09)</i>	<i>Accidental poisonings ((X40-X49)</i>	<i>Other Accidents</i>	<i>Total Accidents</i>
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PERCENT

Total Injuries (S00-T98)	100.0						
Injuries to the head (S00-S09)	28.9	41.4	np	np	0.5	18.2	21.8
Fracture of skull and facial bones (S02)	3.4	2.5	—	—	—	1.9	2.0
Injuries to the thorax (S20-S29)	14.7	5.6	—	np	—	np	7.4
Injuries to the abdomen, lower back, lumbar spine and pelvis (S30-S39)	6.0	3.9	np	—	—	np	4.1
Injuries to the hip and thigh (S70-S79)	0.4	22.6	—	—	—	26.0	11.6
Fracture of femur (S72)	0.4	22.4	—	—	—	25.1	11.3
Unspecified multiple injuries (T07)	33.6	2.0	—	np	—	np	12.4
Burns and corrosions (T20-T32)	1.2	np	—	49.6	—	np	1.3
Poisoning by drugs, medicaments and biological substances (T36-T50)	0.1	np	np	—	83.0	0.6	15.3
Poisoning by narcotics and psychodysleptics (hallucinogens) (T40)	—	—	np	—	35.8	np	6.6
Toxic effects of substances chiefly nonmedicinal as to source(T51-T65)	0.4	np	np	44.4	13.6	0.2	3.5
Toxic effect of carbon monoxide (T58)	—	—	—	5.3	1.9	—	0.4
Other and unspecified effects of external causes (T66-T78)	2.4	0.9	91.4	—	0.7	9.5	6.3
Asphyxiation (T71)	1.0	np	—	—	np	5.9	2.0
Certain early complications of trauma (T79)	1.4	5.8	np	np	0.3	3.0	2.5

NUMBER

Total Injuries (S00-T98)	2 252	1 371	210	133	1 323	2 051	7 340
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— nil or rounded to zero (including null cells)
 np not available for publication but included in totals where applicable, unless otherwise indicated

(a) A number of data quality issues have been identified when coding this cause for 2005. See Explanatory notes, paragraphs 23-29 for further information.

2.5 NATURE OF INJURY, Persons—By External Causes(a) *continued*

Nature of injury or poisoning and ICD code	INTENTIONAL INJURY				TOTAL EXTERNAL CAUSES
	<i>Intentional Self-harm (X60-X84)</i>	<i>Assault (X85-Y09)</i>	<i>Other intentional injury</i>	<i>Total intentional injury</i>	
PERCENT					
Total Injuries (S00-T98)	100.0	100.0	100.0	100.0	100.0
Injuries to the head (S00-S09)	7.9	28.1	4.3	9.0	17.8
Fracture of skull and facial bones (S02)	0.3	np	np	0.4	1.5
Injuries to the thorax (S20-S29)	2.2	25.6	2.5	4.1	6.4
Injuries to the abdomen, lower back, lumbar spine and pelvis (S30-S39)	0.4	10.4	0.8	1.3	3.3
Injuries to the hip and thigh (S70-S79)	np	np	0.8	0.2	8.1
Fracture of femur (S72)	—	—	0.8	0.1	7.9
Unspecified multiple injuries (T07)	4.6	3.7	2.1	4.2	9.9
Burns and corrosions (T20-T32)	0.9	np	np	0.8	1.2
Poisoning by drugs, medicaments and biological substances (T36-T50)	18.8	2.2	17.3	17.2	15.9
Poisoning by narcotics and psychodysleptics (hallucinogens) (T40)	3.5	np	np	3.5	5.6
Toxic effects of substances chiefly nonmedicinal as to source (T51-T65)	15.9	np	np	12.6	6.3
Toxic effect of carbon monoxide (T58)	np	—	np	9.9	3.4
Other and unspecified effects of external causes (T66-T78)	45.2	10.7	5.3	36.5	15.6
Asphyxiation (T71)	42.7	9.6	1.0	33.8	11.8
Certain early complications of trauma (T79)	0.3	np	np	0.3	1.8

NUMBER					
Total Injuries (S00-T98)	2 522	270	486.0	3 278.0	10 618.0

— nil or rounded to zero (including null cells) (a) A number of data quality issues have been identified when coding this cause for 2005. See Explanatory notes, paragraphs 23-29 for further information.

np not available for publication but included in totals where applicable, unless otherwise indicated

INTRODUCTION

Perinatal deaths comprise stillbirths (fetal deaths) and deaths of infants within the first 28 days of life (neonatal deaths). In this publication (and in previous editions since 1997), these deaths are defined to include infants and fetuses weighing at least 400 grams or having a gestational age of 20 weeks.

The exception to this is Table 3.1, which is based on the World Health Organisation (WHO) recommended definition and includes infants and fetuses weighing at least 500 grams or having a gestational age of 22 weeks. Refer to Explanatory Notes, paragraphs 6-10 for further information on perinatal death statistics. Further tables based on either definition are available from the ABS.

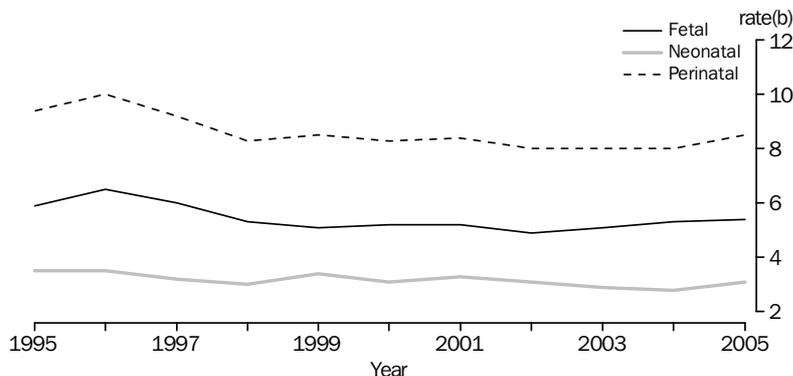
TRENDS IN PERINATAL DEATHS

In 2005, there were 2,213 perinatal deaths registered in Australia, compared with 2,048 registered in 2004. The number of fetal deaths in 2005 was 1,411, an increase of 4.8% on the number registered in 2004 (1,347). Neonatal deaths have increased 14.4% from 701 in 2004 to 802 in 2005. Compared with 1995, the number of registered perinatal deaths is 8.6% lower (207). The proportion of perinatal deaths where birth weight was less than 1000 grams was 49.5% in 2005, while 48.8% of deaths had a gestational period of less than 28 weeks.

In 2005, there were 117 male perinatal deaths for every 100 female perinatal deaths, compared with a ratio of 128 in 2004.

The perinatal death rate increased from 8.0 deaths per 1,000 total relevant births in 2004 to 8.5 deaths per 1,000 total relevant births in 2005 (see Glossary, death rates for further information). The perinatal death rate was higher ten years ago in 1995 at 9.4 per 1,000 total relevant births. Over the same period, the fetal rate also decreased from 5.9 to 5.4 per 1,000 total relevant births and the neonatal rate decreased from 3.5 to 3.1 deaths per 1,000 total relevant births.

TRENDS IN PERINATAL DEATHS (a)



(a) Based on 400 grams/20 weeks.
 (b) Per 1,000 total relevant births.

TRENDS IN PERINATAL DEATHS *continued*

Northern Territory had the highest perinatal death rate in 2005 (14.6 per 1,000 total relevant births), while South Australia had the lowest rate (7.3 per 1,000 total relevant births).

AGE OF MOTHER

The highest perinatal death rates in 2005 occurred in the under 20 years age group at 17.7 per 1,000 total relevant births and the 40 years and over age group at 12.5.

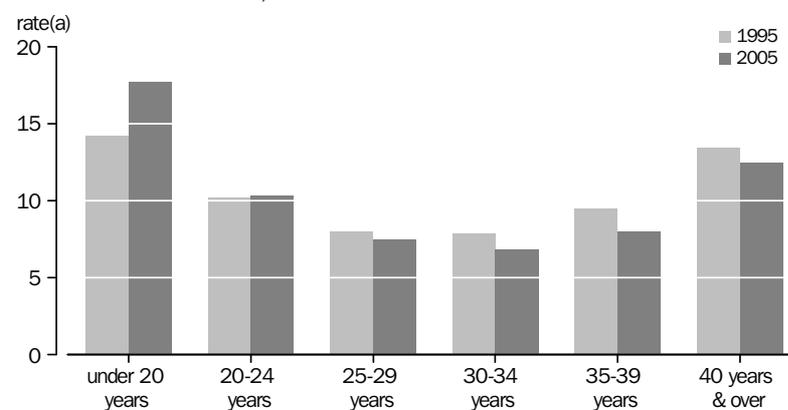
The numbers of deaths for these age groups were small. Mothers aged 40 years and over accounted for the lowest proportion of births (3.4%) and perinatal deaths (5.0%). The youngest group of mothers (aged under 20 years) accounted for 4.1% of all births and 8.7% of all perinatal deaths.

In contrast, the perinatal death rate for mothers aged 30-34 years was the lowest (6.8 per 1,000 total relevant births) while mothers in this age group accounted for the highest proportion of births (34.3%) and perinatal deaths (27.6%).

While the overall perinatal death rate has decreased between 1995 and 2005, this is not consistent across all age groups. In 2005, the perinatal death rate for mothers aged less than 20 years was 17.7 per 1,000 total relevant births, an increase from 14.2 per 1,000 total relevant births in 1995.

The perinatal death rate for mothers aged 40 years or more was 12.5 per 1,000 total relevant births in 2005, a decrease from 13.4 per 1,000 total relevant births in 1995.

PERINATAL DEATHS, RATES—AGE OF MOTHER



(a) Per 1,000 total relevant births.

CONDITION IN FETUS/INFANT

In 2005, nearly a third (29.8%) of all perinatal deaths were not assigned a specific cause of death in the fetus/infant. Most of these were fetal deaths. While 44.9% of all fetal deaths registered in 2005 reported no specific cause, the corresponding figure for neonatal deaths was 3.2%.

Congenital malformations, deformations and chromosomal abnormalities accounted for 18.8% of perinatal deaths, while Respiratory and cardiovascular disorders specific to the perinatal period contributed a further 15.5% and Disorders related to length of gestation and fetal growth contributed 14.0%.

Congenital malformations, deformations and chromosomal abnormalities was also the most commonly reported cause for fetal deaths (14.2%) and neonatal deaths (26.9%).

CONDITION IN
FETUS/INFANT *continued*

Other conditions reported in fetal deaths registered in 2005 included Respiratory and cardiovascular disorders specific to the perinatal period (12.1%), and more specifically Intrauterine hypoxia (11.3%). Disorders related to length of gestation and fetal growth accounted for 8.2% including Extremely low birth weight (4.3% of fetal deaths).

Disorders related to length of gestation and fetal growth accounted for 24.1% of neonatal deaths in 2005, more specifically Extremely low birth weight (22.8%). Respiratory and cardiovascular disorders specific to the perinatal period accounted for 21.3% of neonatal deaths.

Condition in mother

Perinatal deaths differ from general deaths because a condition may be reported in the record for the fetus/infant, the mother, or for both. A maternal condition was reported in 1,292 (58.4%) of the 2,213 perinatal deaths registered in 2005. Complications of placenta, cord and membranes was the most frequently reported maternal cause, accounting for 533 or 24.1% of all perinatal deaths, followed by Maternal conditions that may be unrelated to present pregnancy (342 or 15.5% of perinatal deaths) and Maternal complications of pregnancy (335 or 15.1% of perinatal deaths).

3.1 FETAL, NEONATAL AND PERINATAL DEATHS, 500 grams/22 weeks(a)

Year	FETAL DEATHS			NEONATAL DEATHS			TOTAL PERINATAL DEATHS		
	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons
NUMBER									
1995	681	602	1 283	467	344	811	1 148	946	2 094
2001	543	506	1 049	427	265	692	970	771	1 741
2002	552	468	1 020	373	300	673	925	768	1 693
2003	568	481	1 049	352	267	619	920	748	1 668
2004	536	466	1 002	364	238	602	900	704	1 604
2005	511	497	1 008	390	293	683	901	790	1 691
RATE (b)									
1995	5.2	4.8	5.0	3.6	2.8	3.2	8.7	7.5	8.1
2001	4.3	4.2	4.2	3.4	2.2	2.8	7.7	6.4	7.0
2002	4.3	3.8	4.0	2.9	2.5	2.7	7.2	6.3	6.7
2003	4.4	3.9	4.2	2.7	2.2	2.5	7.1	6.1	6.6
2004	4.1	3.8	3.9	2.8	1.9	2.4	6.9	5.7	6.3
2005	3.8	3.9	3.9	2.9	2.3	2.6	6.7	6.2	6.5

(a) See Explanatory Notes, paragraphs 6-10 for further information.

(b) Rates are per 1,000 total relevant births. See Glossary for further information.

3.2 FETAL, NEONATAL AND PERINATAL DEATHS, 400 grams/20 weeks(a)

Year	FETAL DEATHS			NEONATAL DEATHS			TOTAL PERINATAL DEATHS		
	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons
NUMBER									
1995	805	707	1 512	514	394	908	1 319	1 101	2 420
2001	686	604	1 290	484	318	802	1 170	922	2 092
2002	682	558	1 240	426	353	779	1 108	911	2 019
2003	701	587	1 288	414	318	732	1 115	905	2 020
2004	732	615	1 347	418	283	701	1 150	898	2 048
2005	741	670	1 411	453	349	802	1 194	1 019	2 213
RATE (b)									
1995	6.1	5.6	5.9	3.9	3.2	3.5	10.0	8.8	9.4
2001	5.4	5.0	5.2	3.8	2.6	3.3	9.2	7.6	8.4
2002	5.3	4.5	4.9	3.3	2.9	3.1	8.6	7.4	8.0
2003	5.4	4.8	5.1	3.2	2.6	2.9	8.6	7.4	8.0
2004	5.6	4.9	5.3	3.2	2.3	2.8	8.8	7.2	8.0
2005	5.5	5.3	5.4	3.4	2.8	3.1	8.9	8.0	8.5

(a) See Explanatory Notes, paragraphs 6-10 for further information.

(b) Rates are per 1,000 total relevant births. See Glossary for further information.

3.3

PERINATAL DEATHS(a), By state/territory of usual residence of mother

Year	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust.
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NUMBER

1995	785	582	459	192	235	64	62	41	2 420
2001	664	510	464	147	191	36	47	33	2 092
2002	626	515	422	148	168	78	39	23	2 019
2003	587	542	380	145	199	69	58	39	2 020
2004	617	576	422	118	189	40	40	46	2 048
2005	645	628	455	130	203	54	54	44	2 213

RATE (b)

1995	8.9	9.2	9.8	9.9	9.3	9.7	16.3	9.2	9.4
2001	7.8	8.7	9.7	8.5	7.9	5.6	12.2	8.3	8.4
2002	7.2	8.3	8.8	8.3	7.1	12.9	10.4	5.6	8.0
2003	6.8	8.8	7.8	8.3	8.2	11.9	15.2	9.4	8.0
2004	7.2	9.2	8.4	6.9	7.4	6.9	11.2	11.0	8.0
2005	7.4	9.9	8.8	7.3	7.7	8.5	14.6	10.4	8.5

(a) Based on 400 grams/20 weeks definition. See Explanatory Notes, paragraphs 6-10 for further information.

(b) Rates are per 1,000 total relevant births. See Glossary for further information.

3.4 PERINATAL DEATHS(a), By age of mother

Year	<i>Under</i>		25-29	30-34	35-39	<i>40 and over</i>	<i>Not stated</i>	<i>Total</i>
	20	20-24						
NUMBER								
1995	181	487	670	614	289	67	112	2 420
2001	186	332	548	562	341	83	40	2 092
2002	144	334	524	550	308	98	61	2 019
2003	158	349	521	595	277	92	28	2 020
2004	193	327	505	593	305	96	29	2 048
2005	192	377	523	611	360	110	40	2 213
RATE (b)								
1995	14.2	10.2	8.0	7.9	9.5	13.4	..	9.4
2001	15.7	8.9	7.4	7.0	9.2	11.6	..	8.4
2002	12.4	9.0	7.3	6.5	7.9	12.7	..	8.0
2003	14.5	9.6	7.5	6.9	6.9	11.4	..	8.0
2004	17.6	9.0	7.3	6.8	7.2	11.1	..	8.0
2005	17.7	10.3	7.5	6.8	8.0	12.5	..	8.5

.. not applicable

(a) Based on 400 grams/20 weeks definition. See Explanatory Notes, paragraphs 6-10 for further information.

(b) Rates are per 1,000 total relevant births. See Glossary for further information.

3.5 MAIN CAUSES OF FETAL, NEONATAL AND PERINATAL DEATHS(a)

Cause of Death and ICD code	FETAL DEATHS		NEONATAL DEATHS		TOTAL PERINATAL DEATHS	
	Males	Females	Males	Females	Males	Females
	TOTAL					
All Causes	741	670	453	349	1 194	1 019
MAIN CONDITION IN FETUS/INFANT						
Certain conditions originating in the perinatal period (P00-P96)	629	575	298	241	927	816
Disorders related to length of gestation and fetal growth (P05-P08)	73	43	110	83	183	126
Extremely low birth weight (P07.0)	43	17	103	80	146	97
Respiratory and cardiovascular disorders specific to the perinatal period (P20-P29)	88	83	94	77	182	160
Intrauterine hypoxia (P20)	81	79	3	—	84	79
Birth asphyxia (P21)	—	—	33	30	33	30
Cardiovascular disorders originating in the perinatal period (P29)	6	4	9	8	15	12
Infections specific to the perinatal period (P35-P39)	11	14	18	16	29	30
Haemorrhagic and haematological disorders of fetus and newborn (P50-P61)	12	14	43	24	55	38
Intracranial nontraumatic haemorrhage of fetus and newborn (P52)	np	—	np	21	38	21
Other disorders originating in the perinatal period (P90-P96)	428	406	13	30	441	436
Fetal death of unspecified cause (P95)	151	160	—	—	151	160
Condition originating in the perinatal period, unspecified (P96.9)	167	156	10	16	177	172
Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	109	91	125	91	234	182
Congenital malformations of the nervous system (Q00-Q07)	23	18	14	14	37	32
Anencephaly and similar malformations (Q00)	3	5	4	—	7	5
Congenital hydrocephalus (Q03)	5	np	3	np	8	7
Spina bifida (Q05)	6	np	4	np	10	7
Congenital malformations of the circulatory system (Q20-Q28)	16	9	34	22	50	31
Congenital Malformations of the heart (Q20-Q24)	15	9	26	19	41	28
Congenital malformations of aortic and mitral valves (Q23)	4	np	9	np	13	9
Congenital malformations of lung (Q33)	4	—	14	12	18	12
Congenital malformations of the urinary system (Q60-Q64)	13	6	14	3	27	9
Congenital malformations and deformations of the musculoskeletal system (Q65-Q79)	12	8	14	7	26	15
Congenital diaphragmatic hernia (Q79.0)	np	np	np	np	7	9
Down's syndrome (Q90)	11	np	5	np	16	10
Edwards' syndrome and Patau's syndrome (Q91)	6	9	11	13	17	22

— nil or rounded to zero (including null cells)

np not available for publication but included in totals where applicable, unless otherwise indicated

(a) Based on 400 grams/20 weeks definition. See Explanatory Notes, paragraphs 6-10 for further information.

3.5 MAIN CAUSES OF FETAL, NEONATAL AND PERINATAL DEATHS (a) *continued*

Cause of Death and ICD code	FETAL DEATHS		NEONATAL DEATHS		TOTAL PERINATAL DEATHS	
	Males	Females	Males	Females	Males	Females
MAIN CONDITION IN MOTHER						
Maternal conditions that may be unrelated to present pregnancy (P00)	157	139	26	20	183	159
Maternal hypertensive disorders (P00.0)	8	19	9	5	17	24
Maternal complications of pregnancy (P01)	76	52	121	86	197	138
Incompetent cervix (P01.0)	10	7	11	13	21	20
Premature rupture of membranes (P01.1)	22	12	26	15	48	27
Multiple pregnancy (P01.5)	22	26	47	39	69	65
Complications of placenta, cord and membranes (P02)	199	180	80	74	279	254
Placenta praevia and other forms of placental separation and haemorrhage (P02.0-P02.1)	59	57	34	29	93	86
Other and unspecified morphological and functional abnormalities of placenta (P02.2)	28	29	3	3	31	32
Prolapsed cord (P02.4)	np	np	np	np	8	9
Other compression of umbilical cord (P02.5)	48	np	—	np	48	34
Chorioamnionitis (P02.7)	20	21	31	28	51	49
Complications of labour and delivery (P03)	28	22	18	6	46	28
Breech delivery and extraction (P03.0)	—	—	3	np	3	np
Noxious influences transmitted via placenta or breast milk (P04)	np	np	np	np	5	3
No maternal condition reported	278	275	206	162	484	437

— nil or rounded to zero (including null cells)

np not available for publication but included in totals where applicable, unless otherwise indicated

(a) Based on 400 grams/20 weeks definition. See Explanatory Notes, paragraphs 6-10 for further information.

3.6 PERINATAL DEATHS(a), by birthweight

Cause of Death and ICD code	BIRTHWEIGHT (GRAMS)						Total(b)
	400-499	500-999	1000-1999	2000-2999	3000-3999	4000 or more	
TOTAL							
All Causes	509	587	326	347	300	46	2 213
MAIN CONDITION IN FETUS/INFANT							
Certain conditions originating in the perinatal period (P00-P96)	419	479	251	255	236	39	1 743
Disorders related to length of gestation and fetal growth (P05-P08)	125	129	22	np	np	—	309
Extremely low birth weight (P07.0)	119	114	—	—	—	—	243
Respiratory and cardiovascular disorders specific to the perinatal period (P20-P29)	16	93	56	62	73	25	342
Intrauterine hypoxia (P20)	9	26	28	44	38	15	163
Birth asphyxia (P21)	3	9	11	8	21	5	63
Cardiovascular disorders originating in the perinatal period (P29)	np	8	3	7	4	np	27
Infections specific to the perinatal period (P35-P39)	8	19	13	np	11	—	59
Haemorrhagic and haematological disorders of fetus and newborn (P50-P61)	4	51	17	9	8	—	93
Intracranial nontraumatic haemorrhage of fetus and newborn (P52)	np	41	9	np	np	—	59
Other disorders originating in the perinatal period (P90-P96)	261	169	126	157	136	12	877
Fetal death of unspecified cause (P95)	21	61	59	74	84	5	311
Condition originating in the perinatal period, unspecified (P96.9)	54	93	66	75	48	5	349
Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	88	102	72	80	43	6	416
Congenital malformations of the nervous system (Q00-Q07)	22	19	8	10	5	—	69
Anencephaly and similar malformations (Q00)	—	4	3	5	—	—	12
Congenital hydrocephalus (Q03)	4	4	np	np	3	—	15
Spina bifida (Q05)	7	5	np	np	—	—	17
Congenital malformations of the circulatory system (Q20-Q28)	13	9	12	18	20	4	81
Congenital malformations of the heart (Q20-Q24)	13	8	10	15	15	3	69
Congenital malformations of aortic and mitral valves (Q23)	5	np	np	6	4	np	22
Congenital malformations of lung (Q33)	np	11	5	8	np	—	30
Congenital malformations of the urinary system (Q60-Q64)	np	9	10	7	np	—	36
Congenital malformations and deformations of the musculoskeletal system (Q65-Q79)	8	9	8	9	np	np	41
Congenital diaphragmatic hernia (Q79.0)	np	np	—	6	3	np	16
Down's syndrome (Q90)	8	9	np	4	np	—	26
Edwards' syndrome and Patau's syndrome (Q91)	6	8	11	11	—	—	39

— nil or rounded to zero (including null cells)
 np not available for publication but included in totals where applicable, unless otherwise indicated

(a) Based on 400 grams/20 weeks definition. See Explanatory Notes, paragraphs 6-10 for further information.
 (b) Including deaths of fetus/infants where birthweight is not stated but death meets gestation criterion.

3.6 PERINATAL DEATHS(a), by birthweight *continued*

Cause of Death and ICD code	BIRTHWEIGHT (GRAMS)						Total(b)
	400-499	500-999	1000-1999	2000-2999	3000-3999	4000 or more	
MAIN CONDITION IN MOTHER							
Maternal conditions that may be unrelated to present pregnancy (P00)	202	46	36	27	19	7	342
Maternal hypertensive disorders (P00.0)	np	11	14	6	np	np	41
Maternal complications of pregnancy (P01)	77	158	42	22	np	np	335
Incompetent cervix (P01.0)	18	18	—	—	—	—	41
Premature rupture of membranes (P01.1)	21	38	6	np	np	—	75
Multiple pregnancy (P01.5)	22	64	25	np	np	—	134
Complications of placenta, cord and membranes (P02)	92	158	101	94	66	7	533
Placenta praevia and other forms of placental separation and haemorrhage (P02.0-P02.1)	33	48	38	32	np	np	179
Other and unspecified morphological and functional abnormalities of placenta (P02.2)	np	19	17	13	9	—	63
Prolapsed cord (P02.4)	np	7	np	np	np	np	17
Other compression of umbilical cord (P02.5)	3	11	14	33	17	np	82
Chorioamnionitis (P02.7)	30	45	12	np	np	np	100
Complications of labour and delivery (P03)	34	20	4	np	6	np	74
Breech delivery and extraction (P03.0)	—	np	np	—	np	—	4
Noxious influences transmitted via placenta or breast milk (P04)	np	4	np	np	—	—	8
No maternal condition reported	102	201	142	202	197	27	921

— nil or rounded to zero (including null cells)
 np not available for publication but included in totals where applicable, unless otherwise indicated

(a) Based on 400 grams/20 weeks definition. See Explanatory Notes, paragraphs 6-10 for further information.
 (b) Including deaths of fetus/infants where birthweight is not stated but death meets gestation criterion.

3.7 PERINATAL DEATHS(a), By period of gestation

Cause of death and ICD code	PERIOD OF GESTATION (COMPLETED WEEKS)						Total(b)
	Under 22	22-27	28-31	32-36	37-41	42 and over	
TOTAL							
All Causes	225	853	211	338	485	5	2 213
MAIN CONDITION IN FETUS/INFANT							
Certain conditions originating in the perinatal period (P00-P96)	153	724	176	237	391	3	1 743
Disorders related to length of gestation and fetal growth (P05-P08)	55	197	20	13	14	—	309
Extremely low birth weight (P07.0)	51	182	—	—	—	—	243
Respiratory and cardiovascular disorders specific to the perinatal period (P20-P29)	np	103	32	49	128	np	342
Intrauterine hypoxia (P20)	np	25	15	36	77	—	163
Birth asphyxia (P21)	np	12	5	8	28	np	63
Cardiovascular disorders originating in the perinatal period (P29)	—	10	4	np	9	—	27
Infections specific to the perinatal period (P35-P39)	5	22	6	7	15	—	59
Haemorrhagic and haematological disorders of fetus and newborn (P50-P61)	—	57	12	9	11	—	93
Intracranial nontraumatic haemorrhage of fetus and newborn (P52)	—	44	6	np	np	—	59
Other disorders originating in the perinatal period (P90-P96)	np	326	86	152	214	np	877
Fetal death of unspecified cause (P95)	np	57	47	68	118	np	311
Condition originating in the perinatal period, unspecified (P96.9)	23	114	35	80	86	—	349
Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	69	125	np	91	75	np	416
Congenital malformations of the nervous system (Q00-Q07)	21	23	np	15	np	—	69
Anencephaly and similar malformations (Q00)	—	np	—	5	np	—	12
Congenital hydrocephalus (Q03)	5	4	np	np	np	—	15
Spina bifida (Q05)	8	5	—	np	—	—	17
Congenital malformations of the circulatory system (Q20-Q28)	7	17	9	9	30	—	81
Congenital Malformations of the heart (Q20-Q24)	7	16	8	8	22	—	69
Congenital malformations of aortic and mitral valves (Q23)	np	5	np	np	10	—	22
Congenital malformations of lung (Q33)	—	11	4	12	np	—	30
Congenital malformations of the urinary system (Q60-Q64)	8	8	np	14	np	—	36
Congenital malformations and deformations of the musculoskeletal system (Q65-Q79)	7	12	3	8	11	—	41
Congenital diaphragmatic hernia (Q79.0)	—	4	—	5	7	—	16
Down's syndrome (Q90)	6	12	np	3	np	—	26
Edwards' syndrome and Patau's syndrome (Q91)	—	12	np	10	11	np	39

— nil or rounded to zero (including null cells)
 np not available for publication but included in totals where applicable, unless otherwise indicated

(a) Based on 400 grams/20 weeks definition. See Explanatory Notes, paragraphs 6-10 for further information.
 (b) Including deaths of fetus/infants where gestation is not stated but death meets birthweight criterion.

3.7 PERINATAL DEATHS(a), By period of gestation *continued*

Cause of death and ICD code	PERIOD OF GESTATION (COMPLETED WEEKS)						Total(b)
	Under 22	22-27	28-31	32-36	37-41	42 and over	
MAIN CONDITION IN MOTHER							
Maternal conditions that may be unrelated to present pregnancy (P00)	51	192	26	32	37	—	342
Maternal hypertensive disorders (P00.0)	—	12	8	12	np	—	41
Maternal complications of pregnancy (P01)	45	195	22	44	np	np	335
Incompetent cervix (P01.0)	np	28	—	—	—	—	41
Premature rupture of membranes (P01.1)	14	46	7	np	np	—	75
Multiple pregnancy (P01.5)	6	80	8	29	6	—	134
Complications of placenta, cord and membranes (P02)	32	211	66	87	126	—	533
Placenta praevia and other forms of placental separation and haemorrhage (P02.0-P02.1)	12	72	23	38	29	—	179
Other and unspecified morphological and functional abnormalities of placenta (P02.2)	—	13	14	14	22	—	63
Prolapsed cord (P02.4)	—	11	—	np	np	—	17
Other compression of umbilical cord (P02.5)	np	np	5	24	40	—	82
Chorioamnionitis (P02.7)	16	62	6	—	10	—	100
Complications of labour and delivery (P03)	30	29	np	np	9	—	74
Breech delivery and extraction (P03.0)	np	np	np	np	np	—	4
Noxious influences transmitted via placenta or breast milk (P04)	np	3	np	np	np	—	8
No maternal condition reported	66	223	93	172	296	4	921

— nil or rounded to zero (including null cells)

np not available for publication but included in totals where applicable, unless otherwise indicated

(a) Based on 400 grams/20 weeks definition. See Explanatory Notes, paragraphs 6-10 for further information.

(b) Including deaths of fetus/infants where gestation is not stated but death meets birthweight criterion.

INTRODUCTION

Information contained in the preceding chapters of this publication refer to deaths registered during the 2005 calendar year. In this chapter, death statistics are based on a year of occurrence, i.e. the year in which the death actually occurred.

Some countries publish death statistics on a year of registration basis, some on a year of occurrence basis, and others on both. Although some deaths can be registered many years after their date of occurrence, the international standard for publishing on a year of occurrence basis is to include deaths registered within the relevant occurrence year and the year immediately following. Accordingly, this practice has been adopted for the presentation of year of occurrence data in this publication to facilitate international comparisons. Analysis of deaths in Australia has shown that the number of deaths registered after the second year are not significant (less than 0.1%).

Year of occurrence data allow for seasonal analysis, and data are not distorted by the effects of late registrations or changes in time lags in processing registrations. In those countries where registration systems are complete and timely, there is not a significant difference between the number of deaths derived on a registration basis and those on a year of occurrence basis. For Australia, approximately 95% of deaths occurring in a particular year are registered in that year. However, variations can occur in certain subsets of the population and for particular causes of death. For instance, while 96.1% of the total 132,230 deaths that occurred in 2004 were registered in 2004, only 90.0% of the 2,092 Indigenous deaths and 93.3% of deaths due to External causes that occurred in 2004 were registered in that year. More detailed data for specific causes or population groups are available from the ABS on request.

COMPARISON OF YEAR OF OCCURRENCE AND YEAR OF REGISTRATION DATA FOR 2004

The following table shows the percentage differences for selected underlying causes of death and indigenous deaths, presented on a year of occurrence and year of registration basis in 2004. In 2004, the percentage differences were small. The biggest differences occurred with Accidents followed by Intentional self harm and Influenza and pneumonia.

COMPARISON OF YEAR OF
OCCURRENCE AND YEAR
OF REGISTRATION DATA
FOR 2004 *continued*

SELECTED UNDERLYING CAUSES OF DEATH

	YEAR OF REGISTRATION	YEAR OF OCCURRENCE - 2004 (a)	DIFFERENCE (b)
	Year of occurrence 2004 (c)	Total 2004(d)	
INDIGENOUS			
All Causes	1 883	2 136	2 092 -2.1
TOTAL			
All Causes	127 014	132 508	132 230 -0.2
Malignant neoplasms (C00-C97)	36 593	37 989	38 004 —
Ischaemic heart diseases (I20-I25)	23 578	24 576	24 541 -0.1
Cerebrovascular diseases (I60-I69)	11 580	12 041	12 015 -0.2
Chronic lower respiratory diseases (J40-J47)	5 573	5 785	5 789 0.1
Accidents (V01-X59)	4 844	5 209	5 176 -0.6
Diabetes mellitus (E10-E14)	3 422	3 599	3 564 -1.0
Influenza and pneumonia (J10-J18)	3 255	3 381	3 363 -0.5
Diseases of arteries, arterioles and capillaries (I70-I79)	2 384	2 477	2 472 -0.2
Heart failure (I50)	2 185	2 279	2 255 -1.1
Intentional self-harm (X60-X84)	1 953	2 098	2 109 0.5
External causes of morbidity and mortality (V01-Y98)	7 414	7 966	7 948 -0.2
All other causes	31 030	32 415	32 279 -0.4

— nil or rounded to zero (including null cells)

(a) Deaths occurring in 2004, registered in 2004 and in 2005.

(b) A positive percentage difference indicates that more deaths occurred than were registered in the calendar year.

(c) Deaths occurring in 2004, registered in 2004.

(d) Includes deaths occurring in years prior to 2004.

4.1 YEAR OF OCCURRENCE(a), Selected underlying causes

Cause of death and ICD Code	2000	2001	2002	2003	2004
All Causes	128 784	128 657	133 047	131 784	132 230
Chapter I Certain infectious and parasitic diseases (A00-B99)	1 658	1 699	1 776	1 742	1 801
Septicaemia (A40, A41)	948	990	1 070	1 066	1 031
Human immunodeficiency virus (HIV) disease (B20-B24)(b)	168	150	131	124	126
Chapter II Neoplasms (C00-D48)	36 567	37 459	38 269	38 266	38 869
Malignant neoplasms (C00-C97)	35 825	36 709	37 458	37 445	38 004
Digestive Organs (C15-C26)	10 096	10 394	10 340	10 593	10 439
Oesophagus (C15)	971	1 039	1 004	1 130	1 087
Stomach (C16)	1 189	1 209	1 219	1 168	1 145
Colon (C18)	3 435	3 327	3 200	3 012	2 789
Rectosigmoid junction, rectum, anus and anal canal (C19-C21)	1 283	1 427	1 401	1 417	1 333
Liver and intrahepatic bile ducts (C22)	741	777	849	891	896
Pancreas (C25)	1 748	1 811	1 839	1 881	1 998
Trachea, bronchus and lung (C33-C34)	6 911	7 041	7 245	6 986	7 259
Melanoma of skin (C43)	971	1 074	1 053	1 145	1 200
Breast (C50)	2 542	2 620	2 698	2 720	2 683
Female genital organs (C51-C58)	1 405	1 527	1 499	1 415	1 486
Ovary (C56)	780	837	841	781	851
Male genital organs (C60-C63)	2 703	2 760	2 857	2 869	2 820
Prostate (C61)	2 665	2 718	2 820	2 834	2 792
Urinary tract (C64-C68)	1 653	1 834	1 822	1 739	1 818
Kidney, except renal pelvis (C64)	767	844	834	798	851
Bladder (C67)	819	908	917	871	903
Brain (C71)	1 088	1 064	1 143	1 111	1 080
Lymphoid, haematopoietic and related tissue (C81-C96)	3 754	3 628	3 799	3 699	3 803
Leukaemia (C91-C95)	1 363	1 364	1 441	1 384	1 445
In situ and benign neoplasms and neoplasms of uncertain or unknown behaviour (D00-D48)	742	750	811	821	865
Chapter III Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50-D89)	406	410	437	444	483
Chapter IV Endocrine, nutritional and metabolic diseases (E00-E90)	4 178	4 333	4 621	4 772	5 033
Diabetes mellitus (E10-E14)	3 009	3 093	3 296	3 425	3 564
Chapter V Mental and behavioural disorders (F00-F99)	3 077	2 696	3 157	3 238	3 402
Organic, including symptomatic, mental disorders (F00-F09)	2 125	2 128	2 560	2 689	2 876
Chapter VI Diseases of the nervous system (G00-G99)	4 056	4 221	4 589	4 321	4 541
Alzheimer's disease (G30)	1 563	1 605	1 855	1 614	1 744
Chapter VII Diseases of the eye and adnexa (H00-H59)	np	4	np	7	9
Chapter VIII Diseases of the ear and mastoid process (H60-H95)	np	8	np	6	10
Chapter IX Diseases of the circulatory system (I00-I99)	49 833	49 534	49 977	48 603	47 530
All heart disease (I05-I09, I11, I13, I20-I25, I26, I27, I30-I52)	34 017	33 787	33 937	32 869	32 075
Acute rheumatic fever and chronic rheumatic heart diseases (I00-I09)	259	253	262	284	258
Hypertensive diseases (I10-I15)	1 207	1 224	1 357	1 357	1 332
Ischaemic heart disease (I20-I25)	26 606	26 304	25 884	25 295	24 541
Acute myocardial infarction (I21)	14 668	14 483	14 192	13 367	12 706
Pulmonary heart disease and diseases of pulmonary circulation and other forms of heart disease (I26-I52)	6 530	6 630	7 089	6 633	6 614
Heart Failure (I50)	2 633	2 639	2 711	2 432	2 255
Cerebrovascular diseases (I60-I69)	12 346	12 201	12 459	12 209	12 015
Diseases of arteries, arterioles and capillaries (I70-I79)	2 612	2 632	2 634	2 532	2 472
Atherosclerosis (I70)	510	460	501	413	357
Aortic aneurysm and dissection (I71)	1 344	1 337	1 381	1 316	1 311
Chapter X Diseases of the respiratory system (J00-J99)	10 988	10 622	11 640	11 828	11 626
Influenza and pneumonia (J10-J18)	2 939	2 717	3 063	3 561	3 363
Chronic lower respiratory diseases (J40-J47)	5 998	5 913	6 246	5 925	5 789
Emphysema (J43)	720	689	742	650	636
Asthma and status asthmaticus (J45, J46)	452	416	403	301	317

np not available for publication but included in totals where applicable, unless otherwise indicated

(a) For each year of occurrence, data are based on registrations in the year of occurrence and the year immediately following.

(b) See Explanatory Notes, paragraph 20 for further information.

4.1 YEAR OF OCCURRENCE(a), Selected underlying causes *continued*

<i>Cause of death and ICD Code</i>	2000	2001	2002	2003	2004
Chapter XI Diseases of the digestive system (K00-K93)	4 145	4 053	4 485	4 494	4 522
Diseases of oesophagus, stomach and duodenum (K20-K31)	685	633	638	612	561
Gastric and duodenal ulcer (K25-K27)	471	442	413	380	356
Diseases of liver (K70-K77)	1 172	1 170	1 373	1 375	1 379
Chapter XII Diseases of the skin and subcutaneous tissue (L00-L99)	244	269	336	307	333
Chapter XIII Diseases of the musculoskeletal system and connective tissue (M00-M99)	856	897	1 013	1 010	1 027
Arthropathies and systemic connective tissue disorders (M00-M36)	578	566	611	596	598
Chapter XIV Diseases of the genitourinary system (N00-N99)	2 671	2 846	2 977	2 980	2 970
Renal failure (N17-N19)	1 704	1 726	1 934	1 967	1 886
Chapter XV Pregnancy, childbirth and the puerperium (O00-O99)	13	12	13	8	12
Chapter XVI Certain conditions originating in the perinatal period (P00-P96)	647	657	654	603	576
Fetus and newborn affected by maternal factors and by complications of pregnancy, labour and delivery (P00-P04)	319	369	350	388	259
Chapter XVII Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	622	601	578	596	583
Congenital malformations of the circulatory system (Q20-Q28)	216	214	216	221	198
Chapter XVIII Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00-R99)	641	528	731	886	955
Chapter XX External causes of morbidity and mortality (V01-Y98)	8 173	7 808	7 786	7 673	7 948
Accidents (V01-X59)	5 191	4 773	4 877	4 875	5 176
Transport accidents (V01-V99)	2 027	2 008	1 905	1 768	1 685
Falls (W00-W19)	577	630	627	717	873
Accidental drowning and submersion (W65-W74)	239	242	237	192	194
Intentional self-harm (X60-X84)	2 388	2 456	2 319	2 155	2 109
Hanging, strangulation and suffocation (X70)	996	1 075	1 028	981	1 003
Assault (X85-Y09)	303	304	286	257	158

(a) For each year of occurrence, data are based on registrations in the year of occurrence and the year immediately following.

EXPLANATORY NOTES

INTRODUCTION

1 This publication contains summary statistics on causes of death for the general population, together with selected statistics on perinatal deaths. The registration of deaths is the responsibility of the individual state and territory Registrars of Births, Deaths and Marriages. As part of the registration process, information about the cause of death is supplied by the medical practitioner certifying the death or by a coroner. Other information about the deceased is supplied by a relative or other person acquainted with the deceased, or by an official of the institution where the death occurred. This information is provided to the Australian Bureau of Statistics (ABS) by individual Registrars for coding and compilation into aggregate statistics shown in this publication. In addition, the ABS supplements this data with information from the National Coroners Information Service (NCIS). Statistics of perinatal deaths for years prior to 1994 were published separately in *Perinatal Deaths, Australia* (cat. no. 3304.0).

2 The data presented in this publication are also included in a series of spreadsheets that are available on the ABS website. Any references to tables in the Explanatory Notes also refers to these spreadsheets.

SCOPE AND COVERAGE

3 The statistics in chapters 1, 2 and 3 relate to the number of deaths registered, not those which actually occurred, in the years shown. About 4% to 6% of deaths occurring in one year are not registered until the following year or later. Statistics in chapter 4 relate to deaths by year of occurrence.

4 The scope of the collection is all births and deaths registered in Australia for the reference year, two years prior to the current year and the first quarter of the subsequent year. It should be noted that records received by the ABS during the March quarter of 2006 which were initially registered in 2005 (but not fully completed until 2006) are assigned to the 2005 processing year. Any registrations relating to 2005 which are received by the ABS after the end of the March quarter are assigned to the 2006 processing year.

Tourism related deaths

5 The ABS deaths collection includes all deaths that occurred and were registered in Australia including deaths of persons whose usual residence is overseas. Deaths of Australian residents that occurred outside Australia may be registered by individual Registrars, but are not included in ABS statistics.

Perinatal death statistics

6 The perinatal death statistics contained in this publication, unless otherwise stated, include all fetuses and infants delivered weighing at least 400 grams or (when birthweight is unavailable) the corresponding gestational age (20 weeks), whether alive or dead. This definition recognises the availability of reliable 400 grams/20 weeks data from all state and territory Registrars of Births, Deaths and Marriages. The ABS has adopted the legal requirement for registration of a perinatal death as the statistical standard as it meets the requirements of major users in Australia.

7 For 1996 and previous editions of this publication, data relating to perinatal deaths were based upon the *World Health Organization (WHO)* recommended definition for compiling national perinatal statistics. The WHO definition of perinatal deaths included infants and fetuses weighing at least 500 grams or having a gestational age of 22 weeks or body length of 25 centimetres crown-heel.

*Perinatal death statistics
continued*

8 The birth statistics used to calculate the perinatal and neonatal death rates in this publication are shown in Appendix 2. Appendix tables A2.1-A2.3 detail registered live birth statistics and stillbirth statistics adjusted to exclude infants who are known to have weighed under 400 grams. Such births are identified from the medical certificate of perinatal death, which records birthweight. Appendix table A2.4 shows similar adjusted information but it is based on the 500 grams definition.

9 The adjusted birth statistics differ from the birth statistics used to derive the infant death rates in this publication. The statistics used to calculate infant death rates include all registered live births regardless of birthweight. These statistics are shown in table A1.1 of Appendix 1.

10 The adjusted birth statistics also differ from the statistics published in *Births, Australia* (cat. no. 3301.0), which are unadjusted for birthweight, i.e. births known to have weighed less than 400 grams are included in that publication. For years 1993 to 1996, births which occurred in Other Territories were excluded from adjusted live births used in calculating perinatal rates.

STATISTICS FOR STATES AND
TERRITORIES

11 Cause of death statistics for states and territories in this publication have been compiled in respect of the state or territory of usual residence of the deceased, regardless of where in Australia the death occurred and was registered. The state or territory of usual residence for a perinatal death is determined by the state or territory of usual residence of the mother.

12 Information from the New South Wales and Queensland *Registrars of Births, Deaths and Marriages* indicates that decreases in death registered in 2005 for these states are partly due to delays in processing death registrations for 2005. Combined, these states had 2,600 fewer death registrations than were reported in 2004. As a result, the number of deaths registered for Australia overall for 2005 may be underestimated. It is expected that as the backlog in registrations is processed, the number of deaths registered in subsequent periods will increase. Preliminary death figures for March quarter 2006 for New South Wales and Queensland show increases of 11.1% and 14.2% respectively compared to the number of deaths registered in the March quarter 2005.

13 Statistics compiled on a state or territory of registration basis are available on request.

14 The Australian Standard Geographical Classification versions used since 1993 have a category 'Other Territories' comprising Jervis Bay, Christmas Island and Cocos (Keeling) Islands. Prior to 1997, Jervis Bay was included with Australian Capital Territory and the two island territories were included in Off-Shore Areas and Migratory. Statistics for 'Other Territories' are now included in the Australian totals.

CAUSE OF DEATH
CLASSIFICATION USED

15 The tenth revision of the International Classification of Diseases and Health Related Problems (ICD-10) was adopted for Australian use for deaths registered from 1 January 1999. However, to identify changes between the ninth and tenth revisions, deaths for 1997 and 1998 were coded to both revisions.

16 The extensive nature of the ICD enables classification of causes of death at various levels of detail. For the purpose of this publication, two summary classifications are used. They are:

- the ICD at the chapter level (with further disaggregation for major causes of death)
- selected causes of death for age groups.

17 Tables 1.1, 1.3, 1.4, 2.1, 2.2 and 4.1 present statistics at the ICD chapter level with further disaggregation for major causes of death. Background on this summary classification is given in Volume 1 of the ICD.

CAUSE OF DEATH
CLASSIFICATION USED
continued

18 Tables 1.2 and 1.4 present data for main causes of death for age groups. For each age group, a summary classification of the selected causes of death relevant to the age group has been used. These consist of causes of death significant in that age group, at the chapter level, with further disaggregation below the chapter level where appropriate.

19 To enable the reader to see the relationship between the various summary classifications used in this publication, all tables show in brackets the ICD codes which constitute the causes of death covered.

20 As ICD-9 did not directly accommodate the coding of Acquired Immune Deficiency Syndrome (AIDS) and AIDS-related deaths, cases where AIDS was the underlying cause were coded to ICD-9 deficiency of cell-mediated immunity (279.1), from 1988 to 1995. In 1996, ABS adopted ICD-9 Clinically Modified (CM) for coding of AIDS and AIDS-related deaths. Hence, for 1996 to 1998, all AIDS-related deaths (i.e. deaths where AIDS was mentioned in any place on the death certificate) were coded to HIV infection (042-044). ICD-10 adopted from 1999 allows for the coding of AIDS and AIDS-related deaths (B20-B24).

21 All data in this publication refer to AIDS-related deaths rather than only those deaths where AIDS is the underlying cause. Hence in table 1.1 and 1.3, AIDS-related deaths differ from the data provided for all other causes in that table since for all other causes, only data for underlying cause are given.

Perinatal statistics

22 For perinatal deaths, both the main condition in the fetus/infant, and the main condition in the mother are coded to the full four-digit level of the tenth revision of ICD. Causes selected for publication in this issue are those categories which were responsible for a significant proportion of perinatal deaths.

EXTERNAL CAUSES OF DEATH

23 Deaths that are classified as External Causes are generally of the kind that are reported to coroners for investigation. Although what constitutes a reportable death varies across jurisdictions, they are generally reported in circumstances such as where the person died:

- unexpectedly and the cause of death is unknown
- in a violent or unnatural manner
- during or as a result of an anaesthetic while 'held in care' or in custody immediately before they died, or
- where the identity of the person who has died is unknown.

24 Where an accidental or violent death occurs, the underlying cause is classified according to the circumstances of the fatal injury, rather than the nature of the injury which is coded separately.

DATA QUALITY

25 In compiling causes of death statistics, the ABS employs a variety of quality control measures which include:

- providing certifiers with certification booklets for guidance in reporting cause of death on medical certificates
- seeking additional information, where necessary, from medical practitioners, from coroners and from the National Coroners Information Service (NCIS)
- check-coding of cause of death, and
- editing checks at the individual record and aggregate levels.

26 The quality of causes of death coding can be affected by changes in the way information is reported by certifiers, by lags in completion of coroner cases and the processing of the findings. While changes in reporting and lags in coronial processes can affect coding of all causes of death, those coded to *Chapter XVIII: Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified* and *Chapter XX: External causes of morbidity and mortality* are more likely to be affected because the code assigned within the chapter may vary depending on the coroner's findings.

Specific issues for 2005 data

RECENT IMPROVEMENTS

27 FALLS (W00-W19) - To reduce risk factors for falls in nursing homes in Victoria, all deaths where the medical certificate mentions falls are now referred to the coroner for verification, and the Coroner Clinical Liaison Service implemented a falls awareness campaign mid 2003. The number of deaths due to falls recorded in Victoria increased significantly in 2003 (up 50%), 2004 (over 100%) and 2005 (14.1%) whereas in previous years the deaths may have been attributed to other causes such as hypostatic pneumonia.

ANALYSING SMALL NUMBERS

28 PERINATALS (P00-P96) - There is some variability over time across a range of the perinatal death categories and where the numbers are small, caution should be applied in drawing inferences about change over time.

QUALITY AFFECTED BY DELAYS

29 SUICIDE (X60-X84) - Where coroners' cases are not finalised and the findings are not available to the ABS in time for publication of causes of death statistics, deaths are coded to other accidental, ill-defined or unspecified causes rather than suicide. The causes of death statistics are not revised once a coronial enquiry is finalised.

Indigenous deaths

30 All states and territories have provision for the identification of Indigenous deaths on their death registration forms. However, the coverage of deaths identified as Indigenous varies across states and territories and over time. This publication presents in Table 1.7 Indigenous deaths data for 2005 for all states and territories except Victoria, Tasmania and the Australian Capital Territory, which are not separately published due to a combination of comparatively small numbers, and relatively low coverage of reported Indigenous deaths. A higher proportion of Indigenous deaths are due to external cause than non-Indigenous deaths. It is advised that users should refer to Explanatory note 22 when interpreting 2005 data.

Confidentialisation

31 The ABS does not publish and disseminate statistics in a manner that is likely to enable the identification of a particular person or organisation. To maintain the confidentiality of individuals in this publication, affected cells are replaced with *np*, which indicates that the relevant statistic is not for publication.

EFFECTS OF ROUNDING

32 Where figures have been rounded, discrepancies may occur between totals and sums of the component items.

BIRTHS DATA

33 Appendix 1 provides details of the number of live births registered which have been used to calculate the infant death rates shown in this publication. Appendix 2 provides data on adjusted births used for calculating perinatal death rates. These also enable further rates to be calculated.

ACKNOWLEDGMENT

34 The 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.

RELATED PRODUCTS

35 Other ABS products which may be of interest include:
Australian Social Trends, cat. no. 4102.0 - issued annually
Births, Australia, cat. no. 3301.0 - issued annually
Causes of Deaths, Australia: Summary Tables cat. no. 3303.0.55.001 - issued irregularly
Causes of Infant and Child Deaths, Australia, 1982-96, cat. no. 4398.0 - issued irregularly - discontinued
Deaths, Australia, cat. no. 3302.0 - issued annually
Deaths due to Diseases and Cancers of the Respiratory System, Australia, 1979-1994, cat.

RELATED PRODUCTS *continued*

no. 3314.0 - issued irregularly

Drug Induced Deaths, cat. no. 3321.0.55.001 - single issue

Information Paper: Drug-induced Deaths - A Guide to ABS Causes of Death Data, cat. no. 4809.0 - single issue

Information Paper: External Causes of Death, Data Quality, 2005, cat. no. 3317.0.55.001 - planned for release April 2007

Information Paper: Multiple Cause of Death Analysis, cat. no. 3319.0.55.001 - single issue

Mortality Atlas Australia 1997-2000, cat. no. 3318.0 - single issue

Suicides, Australia, 1921-1998, cat. no. 3309.0 - issued irregularly

Suicides: Recent Trends Australia, 1993-2003 cat. no. 3309.0.55.001 - issued irregularly

The Health and Welfare of Australia's Aboriginal and Torres Strait Islander Peoples, 2005, cat. no. 4704.0 - issued biennially

36 The ABS has a web based information service called *Statistics* (previously known as *AusStats*) which provides the ABS full standard product range on line. It allows users to conveniently access a large range of ABS statistical and reference information, free of charge. It also includes companion data in multidimensional datasets in SuperTable format, and time series spreadsheets.

37 Current publications and other products released by the ABS are listed in the *Catalogue of Publications and Products* (cat. no. 1101.0). The catalogue is available from any ABS office or the ABS web site at <<http://www.abs.gov.au>>. The ABS also issues a daily Release Advice on the web site which details products to be released in the week ahead.

ADDITIONAL STATISTICS
AVAILABLE

38 As well as the statistics included in this and related products, additional information is available from the ABS web site at <<http://www.abs.gov.au>> by accessing the topics listed at Themes>People. The ABS may also have other relevant data available on request. Inquiries should be made to the National Information and Referral Service on 1300 135 070 or by sending an email to client.services@abs.gov.au.

APPENDIX 1

DATA USED IN CALCULATING RATES

DATA INPUT

The following tables contain data used in calculating the various rates referred to in this publication. Table A1.1 is used to calculate infant death rates while table A1.2 is used to calculate age-specific death rates.

LIVE BIRTHS REGISTERED(a), By usual residence of mother - 2005

	NSW	Vic.	Q/d	SA	WA	Tas.	NT	ACT	Aust(b)
Males	44 542	32 309	26 702	9 092	13 525	3 230	1 889	2 127	133 428
Females	42 047	30 978	24 959	8 708	12 728	3 078	1 770	2 079	126 363
Persons	86 589	63 287	51 661	17 800	26 253	6 308	3 659	4 206	259 791

(a) Used to calculate infant death rates.

(b) Includes Other Territories. See Explanatory Notes, paragraph 10 for further information.

ESTIMATED RESIDENT POPULATION AT 30 JUNE 2005, by age

Sex	Under 1	1-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 and over	All ages
Male	131 126	1 911 383	1 438 097	1 445 227	1 502 102	1 391 194	1 103 212	684 110	414 040	100 947	10 121 438
Female	123 567	1 814 056	1 363 573	1 435 365	1 514 010	1 408 574	1 089 625	717 696	539 899	211 956	10 218 321
Persons	254 693	3 725 439	2 801 670	2 880 592	3 016 112	2 799 768	2 192 837	1 401 806	953 939	312 903	20 339 759

400 GRAMS/20 WEEKS
GESTATION

The following tables contain births data used in calculating perinatal death rates. Tables A2.1, A2.2, and A2.3 are used to calculate perinatal death rates based on the 400 grams/20 weeks gestation definition for fetal deaths. This definition has been predominantly used since 1997 and will be used in future issues.

ADJUSTED BIRTHS(a), By sex of child and usual residence of mother

	STATE OR TERRITORY OF USUAL RESIDENCE								
	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust.(b)
Live Births									
Males	44 527	32 308	26 665	9 084	13 511	3 228	1 887	2 126	133 348
Females	42 035	30 977	24 931	8 699	12 714	3 077	1 770	2 077	126 296
Stillbirths(c)									
Male	186	228	154	48	74	19	18	14	741
Female	189	200	135	36	60	23	16	11	670
Total									
Males	44 713	32 536	26 819	9 132	13 585	3 247	1 905	2 140	134 089
Females	42 224	31 177	25 066	8 735	12 774	3 100	1 786	2 088	126 966
Persons	86 937	63 713	51 885	17 867	26 359	6 347	3 691	4 228	261 055

(a) Registered Births adjusted to conform to WHO criteria for the calculation of perinatal death rates. See Glossary for further information.

(b) Includes Other Territories. See Explanatory Notes, paragraph 10 for further information.

(c) Including those where heartbeat ceased before or after the delivery is not known.

ADJUSTED BIRTHS(a), By sex and age of mother

	AGE OF MOTHER (YEARS)							Total
	Under 20	20-24	25-29	30-34	35-39	40 and over	Not stated	
Live Births								
Males	5 515	18 812	35 730	45 572	23 010	4 494	215	133 348
Females	5 216	17 652	33 656	43 544	21 828	4 237	163	126 296
Stillbirths(b)								
Male	76	133	181	201	117	np	np	741
Female	70	111	166	169	112	np	np	670
Total								
Males	5 591	18 945	35 911	45 773	23 127	4 522	220	134 089
Females	5 286	17 763	33 822	43 713	21 940	4 278	164	126 966
Persons	10 877	36 708	69 733	89 486	45 067	8 800	384	261 055

np not available for publication but included in totals where applicable, unless otherwise indicated

(a) Registered births adjusted to conform to WHO criteria for the calculation of perinatal death rates. See Glossary for further information.

(b) Including those where heartbeat ceased before or after the delivery is not known.

400 GRAMS/20 WEEKS
GESTATION *continued*

ADJUSTED BIRTHS (a), By sex

	LIVE BIRTHS			STILLBIRTHS (b)			TOTAL		
	<i>Males</i>	<i>Females</i>	<i>Persons</i>	<i>Males</i>	<i>Females</i>	<i>Persons</i>	<i>Males</i>	<i>Females</i>	<i>Persons</i>
1995	131 428	124 748	256 176	805	707	1 512	132 233	125 455	257 688
2001	126 273	120 059	246 332	686	604	1 290	126 959	120 663	247 622
2002	128 613	122 350	250 963	682	558	1 240	129 295	122 908	252 203
2003	129 175	121 951	251 126	701	587	1 288	129 876	122 538	252 414
2004	130 582	123 630	254 212	732	615	1 347	131 314	124 245	255 559
2005	133 348	126 296	259 644	741	670	1 411	134 089	126 966	261 055

- (a) Registered births adjusted to conform to the 400 grams/20 weeks definition for the calculation of perinatal death rates. See Glossary and explanatory notes, paragraph 6-10 for further information.
- (b) Including those where heartbeat ceased before or after delivery is not known.

500 GRAMS/22 WEEKS
GESTATION

Table A2.4 contains births data used in the calculation of perinatal death rates based on the WHO definition of 500 grams/22 weeks gestation for fetal deaths. This definition was used by the ABS in publications up to and including 1996.

ADJUSTED BIRTHS (a), By sex

	LIVE BIRTHS			STILLBIRTHS (b)			TOTAL		
	<i>Males</i>	<i>Females</i>	<i>Persons</i>	<i>Males</i>	<i>Females</i>	<i>Persons</i>	<i>Males</i>	<i>Females</i>	<i>Persons</i>
1995	131 403	124 723	256 126	681	602	1 283	132 084	125 325	257 409
2001	126 241	120 029	246 270	543	506	1 049	126 784	120 535	247 319
2002	128 587	122 334	250 921	552	468	1 020	129 139	122 802	251 941
2003	129 150	121 918	251 068	568	481	1 049	129 718	122 399	252 117
2004	130 554	123 616	254 170	536	466	1 002	131 090	124 082	255 172
2005	133 292	126 257	259 549	511	497	1 008	133 803	126 754	260 557

- (a) Registered births adjusted to conform to WHO criteria for the calculation of perinatal death rates, based on the 500 grams/22 weeks definition. See Glossary and Explanatory notes, paragraphs 6-10 for further information.
- (b) Including those whose heartbeat ceased before or after the delivery is not known.

MULTIPLE CAUSES OF DEATH
STATISTICS

Since 1997, the ABS has coded multiple causes of death. Prior to 1997, the ABS produced causes of death statistics where each death was assigned a single underlying cause. World Health Organisation (WHO) has encouraged the use of multiple cause coding and analysis in relation to cause of death.

The underlying cause is defined as the 'disease or injury which initiated the train of morbid events leading directly to death, or the circumstances of the accident or violence which produced the fatal injury'. The medical certificate of cause of death recommended by WHO for international use, was designed to facilitate the selection of the underlying cause. When more than one condition is entered on the death certificate the underlying cause is selected using the coding rules of the relevant version of the ICD. The underlying cause is selected so that preventive strategies can be instituted to address that particular cause. Since its adoption in 1948, statistics based on the underlying cause concept have served the purpose of summarising international cause-specific mortality statistics into a single index, which has been used to assess trends in causes of death.

The current main causes of death are now very different from those that prevailed when the single underlying cause concept was adopted. The main causes of death in most countries have shifted from infectious and parasitic diseases to chronic and degenerative diseases, and from infant and child deaths to deaths among the elderly. As the population continues to age, chronic diseases become increasingly prevalent. Deaths from chronic conditions occur with a number of concurrent or coexisting conditions, whose initiating condition is often difficult to isolate. Some deaths cannot occur without the influence of more than one cause. The ability of the single underlying cause statistics alone to accurately summarise the mortality pattern of a population has, therefore, been questioned.

When only a single underlying cause is selected for tabulating cause-specific statistics, other information provided on the death certificate is lost, for instance, immediate cause of death, causes and conditions that intervene between the underlying and immediate causes of death and many other contributory causes that were involved, but did not directly influence the death. The information lost may be important to the understanding of the process of death. Since the introduction of multiple cause coding, data suggest that, on average, 2 causes (and conditions) would be lost per death if only the single underlying cause was recorded. The loss of information is a particular problem for deaths attributed to external causes (injury, poisoning and violence) which are classified to the circumstances of death, rather than according to the nature of injury.

In response to the change in coding structure, the ABS has from 1997 calendar year data, coded all causes and conditions reported on each death certificate using software developed by the National Center for Health Statistics (NCHS) of the United States of America. The NCHS software has three major components: MICAR (Medical Indexing, Classification and Retrieval System), ACME (Automatic Classification of Medical Entities) and TRANSAX (Translation of Axes). These three components have been developed to read the textual entries and convert them into a file containing multiple causes of death in accordance with ICD coding rules.

MULTIPLE CAUSES OF DEATH
STATISTICS *continued*

The automation of cause of death coding has brought a number of benefits, including improved data quality and timeliness. It will facilitate policy relevant epidemiological and demographic research by focusing on competing risks and disease interactions which are not possible from the cause of death statistics solely based on underlying cause.

The introduction of automatic coding of causes of death has introduced a break in time series data in 1997. Appendix 4 provides comparability factors to assist with the linking of manually and automatically coded data.

INTRODUCTION

Comparability of mortality statistics over time is affected by a number of factors. These include issues relating to the collection, classification and processing of the data. In the late 1990's, there were two major changes within Australia, namely, the introduction of the tenth revision of the International Classification of Diseases (ICD-10) for classifying deaths registered from 1 January 1999 and the introduction of the Automated Coding System (ACS) for processing deaths registered from 1 January 1997.

INTRODUCTION OF AUTOMATED CODING AND ICD-10

Years	Coding Method	ICD revision	COMMENTS
1979-1996	Manual	ICD-9	Prior to 1979, manual coding under relevant ICD revisions.
1997-1998	Automated	ICD-9	Comparability factors between manual and automated ICD-9 coding were produced, based on a sample of dual coded 1997 data.
1997-1998	Automated	ICD-10	1997 and 1998 data coded to ICD-10 following its introduction.
1999-	Automated	ICD-10 only	Comparability factors between ICD-9 (manually coded) and ICD-10 (automatically coded) based on 1997 backcoded data.

TIMES SERIES

As a consequence of the coding of deaths registered in 1997 and 1998 to ICD-10 as well as ICD-9, there is now a single break in time series outlined in table A4.2.

TIME SERIES

Years	Coding method	ICD revision
1979-1996	Manual	ICD-9
1997-onwards	Automated	ICD-10

To support this single break in series table A4.3 provides concordances and comparability factors for all groupings in this publication. The concordance illustrates the conceptual differences between ICD-9 and ICD-10 classifications. The comparability factors are derived from the movements in the underlying causes of death coded in ICD-9 compared to ICD-10. Groupings with very small numbers have been annotated with an asterisk (*). Caution should be exercised when comparing the two versions of ICD for these groupings.

Additional concordance tables at the three and four digit level between records coded to ICD-9 and ICD-10 are available on request. Further information or clarification on the concordance between these revisions is available from the ABS on 1800 620 963.

COMPARISON OF NINTH AND TENTH REVISIONS OF ICD

The introduction of ICD-10 has resulted in changes to the interpretation and resultant coding of a number of causes, as outlined in the WHO publication *International Statistical Classification of Diseases and Related Health Problems Tenth Revision, Volume 2*. Causes most affected are Asthma, Mental and behavioural disorders and Diseases of the nervous system.

COMPARISON OF NINTH AND
TENTH REVISIONS OF ICD
continued

Under ICD-10, Asthma more clearly links with Chronic lower respiratory diseases, especially Bronchitis and Emphysema. Where these conditions are present, Chronic lower respiratory diseases takes precedence, resulting in a decrease in the reporting of asthma as the underlying cause.

The Chapters covering Mental and behavioural disorders and Diseases of the nervous system have undergone compensatory changes between ICD-9 and ICD-10 mainly due to Alzheimer's disease and certain dementias moving between these Chapters.

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CONCORDANCE AND COMPARABILITY FACTORS

<i>Cause of Death</i>	<i>ICD-10 Code</i>	<i>ICD-9 Code</i>	<i>Comparability factor</i>
All causes	A00-Y98	001-999	1.00
Chapter I Certain infectious and parasitic diseases	A00-B99	001-139	1.25
Septicaemia	A40, A41	038	1.28
Human immunodeficiency virus (HIV) disease	B20-B24	042-044	1.03
Chapter II Neoplasms	C00-D48	140-239	1.00
Malignant neoplasms	C00-C97	140-208	1.00
Digestive organs	C15-C26	150-157,159	0.99
Oesophagus	C15	150	1.00
Stomach	C16	151	0.99
Colon	C18	153	0.98
Rectosigmoid junction, rectum, anus and anal canal	C19-C21	154	0.98
Liver and intrahepatic bile ducts	C22	155	1.07
Pancreas	C25	157	0.99
Respiratory and intrathoracic organs	C30-C39	160-165	0.94
Trachea, bronchus and lung	C33, C34	162	0.97
Melanoma of skin	C43	172	0.98
Breast	C50	174,175	0.98
Female genital organs	C51-C58	179-184	0.99
Ovary	C56	1 830	0.98
Male genital organs	C60-C63	185-187	0.99
Prostate	C61	185	0.98
Urinary tract	C64-C68	188, 189	0.96
Kidney, except renal pelvis	C64	1 890	0.96
Bladder	C67	188	0.95
Eye, brain and other parts of central nervous system	C69-C72	190-192	0.97
Brain	C71	191	0.97
Lymphoid, haematopoietic and related tissue	C81-C96	200-208	0.97
Leukaemia	C91-C95	204-208	0.94
In situ and benign neoplasms and neoplasms of uncertain or unknown behaviour	D00-D48	210-239	1.18
Chapter III Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism	D50-D89	279,280-289	1.07
Chapter IV Endocrine, nutritional and metabolic diseases	E00-E90	240-278	1.01
Diabetes mellitus	E10-E14	250	0.99
Chapter V Mental and behavioural disorders	F00-F99	290-319	0.78
Psychoactive substance use	F10-F19	291,292, 303,304,305	1.09
Organic, including symptomatic, mental disorders	F00-F09	290	0.69
Chapter VI Diseases of the nervous system	G00-G99	320-359	1.20
Extrapyramidal and movement disorders	G20-G26	332-333	0.95
Alzheimer's disease	G30	3 310	1.48

CONCORDANCE AND COMPARABILITY FACTORS *continued*

<i>Cause of Death</i>	<i>ICD-10 Code</i>	<i>ICD-9 Code</i>	<i>Comparability factor</i>
Chapter VII Diseases of the eye and adnexa	H00-H59	360-379	*
Chapter VIII Diseases of the ear and mastoid process	H60-H95	380-389	*
Chapter IX Disease of the circulatory system	I00-I99	390-459	1.00
All heart disease	I05-I09,I11, I13,I20-I25, I26,I27, I30-I52	393-398,402, 404,410-414, 415,416, 420-429	1.01
Acute rheumatic fever and chronic rheumatic heart diseases	I00-I09	390-398	0.69
Hypertensive diseases	I10-I15	401-405	1.00
Ischaemic heart diseases	I20-I25	410-414	1.01
Acute myocardial infarction	I21	410	0.96
Pulmonary heart disease and diseases of pulmonary circulation and other forms of heart disease	I26-I52	415-429	1.06
Cerebrovascular diseases	I60-I69	430-438	0.97
Diseases of arteries, arterioles and capillaries	I70-I79	440-448	0.97
Atherosclerosis	I70	440	0.98
Aortic aneurysm	I71	441	0.97
Chapter X Diseases of the respiratory system	J00-J99	460-519	0.91
Influenza and pneumonia	J10-J18	480-487	0.87
Chronic lower respiratory diseases	J40-J47	490-496	0.91
Emphysema	J43	492	0.86
Asthma and status asthmaticus	J45, J46	493	0.75
Chapter XI Diseases of the digestive system	K00-K93	520-579	1.05
Diseases of oesophagus, stomach and duodenum	K20-K31	530-537	1.04
Gastric and duodenal ulcer	K25-K27	531-533	0.99
Diseases of liver	K70-K77	570-573	1.02
Chapter XII Diseases of the skin and subcutaneous tissue	L00-L99	680-709	1.06
Chapter XIII Diseases of the musculoskeletal system and connective tissue	M00-M99	710-739	1.15
Arthropathies and systemic connective tissue disorders	M00-M36	710-719	1.19
Chapter XIV Diseases of the genitourinary system	N00-N99	580-629	1.14
Renal failure	N17-N19	584-586	1.05
Chapter XV Pregnancy, childbirth and the puerperium	O00-O99	630-676	*
Chapter XVI Certain conditions originating in the perinatal period	P00-P96	760-779	0.96
Disorders related to short gestation and low birthweight, not elsewhere classified	P07	765	*
Infections specific to the perinatal period	P35-P39	771	*
Haemorrhagic and haematological disorders of fetus and newborn	P50-P61	772-774,776	*
Chapter XVII Congenital malformations, deformations and chromosomal abnormalities	Q00-Q99	740-759	1.03
Congenital malformations of the nervous system	Q00-Q07	740-742	1.00
Congenital malformations of the circulatory system	Q20-Q28	745-747	1.12
Congenital malformations of the respiratory system	Q30-Q34	748	0.90
Chapter XVIII Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	R00-R99	780-799	0.76
Sudden infant death syndrome	R95	7 980	0.94

CONCORDANCE AND COMPARABILITY FACTORS *continued*

<i>Cause of Death</i>	<i>ICD-10 Code</i>	<i>ICD-9 Code</i>	<i>Comparability factor</i>
Chapter XX External causes of morbidity and mortality	V01-Y98	E800-E999	1.06
Accidents	V01-X59	E800-E949	1.05
Transport accidents	V01-V99	E800-E848	1.03
Falls	W00-W19	E880-E886,E888	1.10
Accidental drowning and submersion	W65-W74	E910	1.03
Intentional self-harm	X60-X84	E950-E959	0.97
Hanging, strangulation and suffocation	X70	E953	0.97
Assault	X85-Y09	E960-E969	1.02

TECHNICAL NOTE

YEARS OF POTENTIAL LIFE
LOST

1 YPLL measures the extent of 'premature' mortality, which is assumed to be any death at ages of 1–78 years inclusive, and aids in assessing the significance of specific diseases or trauma as a cause of premature death.

2 Estimates of YPLL were calculated for deaths of persons aged 1–78 years based on the assumption that deaths occurring at these ages are untimely. The inclusion of deaths under one year would bias the YPLL calculation because of the relatively high mortality rate for that age, and 79 years was the median age at death when this series of YPLL was calculated using 2001 as the standard year. As shown below, the calculation uses a standard population which is the 2001 census. This standard is revised every 10 years.

3 A number of variables are used in calculating YPLL. YPLL is derived from:

$$YPLL = \sum_x (D_x(79 - A_x))$$

where:

A_x = adjusted age at death. As age at death is only available in completed years the midpoint of the reported age is chosen (e.g. age at death 34 years was adjusted to 34.5).

D_x = registered number of deaths at age x due to a particular cause of death.

YPLL is standardised for age using the following formula:

$$YPLL_s = \sum_x (D_x(79 - A_x)C_x)$$

where the age correction factor C_x is defined for age x as:

$$C_x = \frac{N_{xs}}{N_s} \cdot \frac{1}{N_x} \cdot N$$

where:

N = estimated number of persons resident in Australia aged 1–78 years at 30 June 2005

N_x = estimated number of persons resident in Australia aged x years at 30 June 2005

N_{xs} = estimated number of persons resident in Australia aged x years at 30 June 2001 (standard population)

N_s = estimated number of persons resident in Australia aged 1–78 years 30 June 2001 (standard population)

GLOSSARY

Adjusted births	Registered births adjusted by removing all stillbirths and neonatal deaths where birthweight was known to be less than 400 grams. This is the denominator used in calculating perinatal death rates in this publication. This adjustment is made in order to enable meaningful perinatal death rates to be calculated. See Explanatory Notes, paragraph 6.
Associated causes	All causes listed on a death certificate other than the underlying cause.
Country of birth	The classification of countries is the Standard Australian Classification of Countries (SACC). For more detailed information refer to the Standard Australian of Countries (SACC)(cat.no.1269.0).
Death rates	<p>Three forms of death rate are shown in the general deaths section in this publication. These are standardised death rates, age-specific death rates and infant death rates, as defined below:</p> <ul style="list-style-type: none">■ <i>Standardised death rates</i> enable the comparison of death rates between populations with different age structures by relating them to a standard population, in this case all persons in the 2001 Australian population. They are expressed per 100,000 persons. The standardised death rate 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 — see tables 1.3, 1.8 and 1.9. The standardised death rates in this publication are calculated using both the <i>direct method</i> and <i>indirect method</i>.■ 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.■ <i>Age-specific death rates</i> relate to deaths for age groups other than under one year and are the number of deaths per 100,000 of the mid-year estimated resident population as at 30 June of that year in a particular age/sex group — see table 1.2.■ <i>Infant death rates</i> relate to deaths of children under one year of age and are the number of deaths per 1,000 live births in the year — see table 1.2. <p>For comparison and measuring purposes, perinatal deaths in this publication have also been expressed as rates. These rates are defined as follows:</p> <ul style="list-style-type: none">■ for fetal deaths and total perinatal deaths, the rates represent the number of deaths per 1,000 total relevant births which comprises live births and fetal deaths combined (where birthweight was at least 400 grams).■ for neonatal deaths, the rates represent the number of deaths per 1,000 live births (where birthweight was at least 400 grams).
Fetal death	A fetal death is the delivery of a child, who did not, at any time after delivery, breathe or show any other evidence of life such as a heartbeat. (A birthweight criterion applies. See Explanatory Notes, paragraphs 6-10).

ICD	International Statistical Classification of Diseases and Related Health Problems. The purpose of the ICD is to permit the systematic recording, analysis, interpretation and comparison of mortality and morbidity data collected in different countries or areas and at different times. The ICD, which is endorsed by the World Health Organisation (WHO), is primarily designed for the classification of diseases and injuries with a formal diagnosis. See Explanatory Notes, paragraphs 15-21 and Appendix 4 for more information on ICD. Further information also is available from the WHO website <<www.who.int>>.
Infant death	The death of a child before its first birthday.
Live births	A live birth is the birth of a child, who, after delivery, breathes or shows any other evidence of life such as a heartbeat. (A birthweight criterion applies. See Explanatory Notes, paragraphs 8-10).
Multiple causes of death	All morbid conditions, diseases and injuries entered on the death certificate. These include those involved in the morbid train of events leading to death which were classified as either the underlying cause, the immediate cause, or any intervening causes and those conditions which contributed to death, but were not related to the disease or condition causing death. For deaths where the underlying cause was identified as an external cause (injury or poisoning) multiple causes include circumstances of injury, the nature of injury as well as any other conditions reported on the death certificate.
Neonatal death	A neonatal death is the death within 28 days of birth of any child who, after delivery, breathed or showed any other evidence of life such as a heartbeat. (A birthweight criterion applies. See Explanatory Notes, paragraphs 6-8).
Perinatal death	A perinatal death is a fetal death or neonatal death. (A birthweight criterion applies. See Explanatory Notes, paragraphs 6-8).
Period of gestation	Period of gestation is measured from the first day of the last normal menstrual period to the date of birth and is expressed in completed weeks.
Total Relevant Births	Total Relevant Births comprises live births and fetal deaths combined (where birthweight was at least 400 grams)
Stillbirth	See Fetal death.
Underlying cause of death	The disease or injury which initiated the train of morbid events leading directly to death. Accidental and violent deaths are classified according to the external cause, that is, to the circumstances of the accident or violence which produced the fatal injury rather than to the nature of the injury.
Years of potential life lost (YPLL)	YPLL measures the extent of 'premature' mortality, where 'premature' mortality is assumed to be any death at ages of 1-78 years inclusive. By estimating YPLL for deaths of people aged 1-78 years it is possible to assess the significance of specific diseases or trauma as a cause of premature death. See Technical Note for an explanation of the calculation of YPLL.

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