



2004

3303.0

CAUSES OF DEATH

AUSTRALIA

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INQUIRIES

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 2004. 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 2004 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 publication now includes indirect standardised death rates for underlying cause of death by selected countries of birth (table 1.9). These were previously released in *Deaths, Australia (3302.0)*. From the 2004 collection and onwards, they will be released as part of this publication.

CAUTION

The quality of cause of death coding is affected by a range of factors including delays in finalising coronial processes. Paragraphs 22 to 29 of the Explanatory Notes explain some recent improvements in the quality of cause of death coding as well as highlighting 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.

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Australian Statistician

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CHAPTER 1

UNDERLYING CAUSE OF DEATH

INTRODUCTION

All deaths registered in 2004 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*.

CAUSES OF DEATH

There were 132,508 deaths registered in 2004, a higher number of deaths than the 132,292 registered in 2003. However, the standardised death rate recorded in 2004 was 626 deaths per 100,000 population, lower than the standardised death rate of 642 deaths per 100,000 population for 2003 and 1994 (813 deaths per 100,000 population).

Males accounted for 68,395 (51.6%) deaths registered in 2004, similar to the proportions in previous years with 68,330 (51.7%) in 2003 and 68,885 (51.5%) in 2002. Female deaths totalled 64,113 (48.4%) in 2004, 63,962 (48.3%) in 2003 and 64,822 (48.5%) in 2002.

The standardised death rate for males in 2004 was 770 deaths per 100,000, a decrease from 792 per 100,000 in 2003 and 1034 deaths per 100,000 in 1994. Over the same period, female standardised death rates have also decreased from 646 per 100,000 population in 1994 and 523 in 2003, to 511 per 100,000 in 2004.

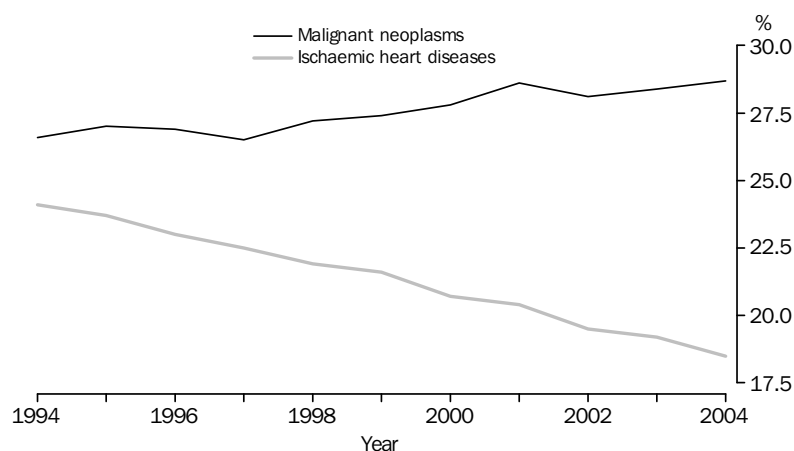
The Northern Territory recorded the highest standardised death rate (822 deaths per 100,000 population) in 2004, while the ACT recorded the lowest rate (562 deaths per 100,000 population). While the Northern Territory had the highest death rate, it also experienced the largest declines of any state or territory from 892 deaths per 100,000 population in 2003 and from 1,227 deaths per 100,000 population in 1994.

Malignant neoplasms were the main underlying cause for 37,989 deaths, accounting for 28.7% of all deaths in 2004. This was a slight increase from the 37,558 (28.4%) deaths with Malignant neoplasms as the main underlying cause in 2003. Ischaemic heart disease was the underlying cause of 24,576 deaths in 2004, and 25,439 deaths in 2003. This represents 18.5% and 19.2% of all deaths in 2004 and 2003 respectively. As the graph below shows, the gap between the proportion of deaths due to Malignant neoplasms and Ischaemic heart disease continues to widen. Since 1994, the proportion of deaths due to Ischaemic heart disease has consistently decreased from 24.1% to 18.5%, while the proportion of deaths due to Malignant neoplasms has increased from 26.6% to 28.7%.

CAUSES OF DEATH

continued

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



MALIGNANT NEOPLASMS

There have been decreases for most types of cancers between 1994 and 2004. The standardised death rate from Malignant neoplasms was 181 deaths per 100,000 population in 2004 compared with 210 per 100,000 in 1994.

Deaths from cancers of the Digestive organs fell from 59 deaths per 100,000 population in 1994 to 50 per 100,000 in 2004. More specifically, the largest decrease was for Colon cancer, which fell from 22 deaths per 100,000 in 1994 to 13 deaths per 100,000 population in 2004.

The standardised death rate increased 3 to 4 per 100,000 for cancer of the Liver and intrahepatic bile ducts from.

The standardised death rate for males from Malignant neoplasms decreased from 279 to 231 per 100,000 population between 1994 and 2004. The corresponding decrease for females was from 161 per 100,000 in 1994 to 143 per 100,000 in 2004.

There were other major decreases in the standardised death rate in particular types of cancers for males between 1994 and 2004. Deaths from cancers of the Digestive organs fell from 75 to 62 deaths per 100,000 population between 1994 and 2004. The standardised death rate from Prostate cancer fell from 43 per 100,000 in 1994 to 32 per 100,000 in 2004.

There was also a major decrease in male deaths from Trachea, bronchus and lung cancers, which fell from 67 per 100,000 in 1994 to 50 per 100,000 in 2004.

There were increases in the standardised death rate in particular types of cancers for males between 1994 and 2004. 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.

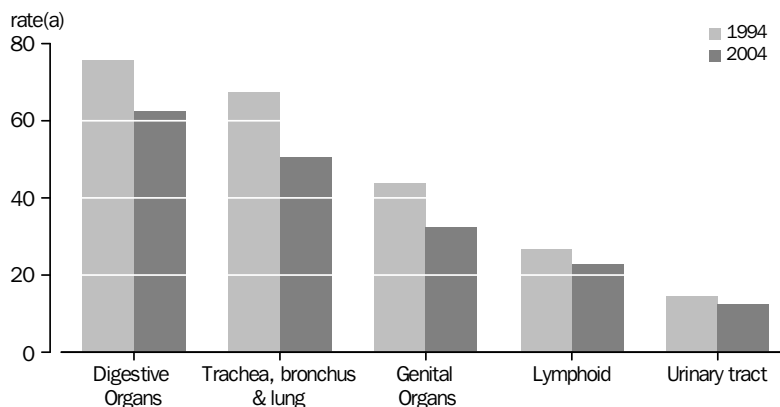
For females there was a decrease in deaths from Breast cancer, which fell from 31 deaths per 100,000 of the female population in 1994 to 23 deaths per 100,000 in 2004. Female deaths from cancers of the Digestive organs fell from 46 to 39 per 100,000 population between 1994 and 2004.

For females, the standardised death rate increased for Liver and intrahepatic bile ducts from 2 to 3 per 100,000, Bladder from 2 to 3 per 100,000 and Trachea, bronchus and lung from 21 to 22 per 100,000.

MALIGNANT NEOPLASMS

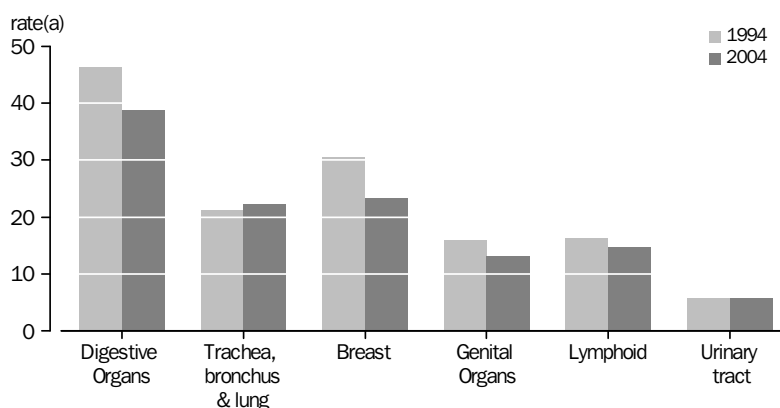
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STANDARDISED DEATH RATES, Selected Malignant neoplasms—Males



(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 115 deaths per 100,000 population in 2004 compared with 200 deaths per 100,000 in 1994.

The standardised death rate for Acute myocardial infarction, which in 2004 accounted for 51.9% of all Ischaemic heart disease deaths, fell from 124 deaths per 100,000 population in 1994 to 60 deaths per 100,000 in 2004.

The percentage decreases for males and females over this period were very similar but the standardised death rates were different. In 2004, there were 151 male deaths per 100,000 males and 86 per 100,000 females. This compares to the standardised death rates in 1994 which were 262 per 100,000 for males and 152 per 100,000 for females.

EXTERNAL CAUSES

External causes relate to deaths from accidents, poisonings and violence. In 2004, External causes accounted for 7,966 deaths, or 6.0% of all registered deaths. This was a slight increase from 2003 when 7,749 deaths (5.9%) were attributed to external causes. The standardised death rate was 39 per 100,000 of population in 2004, a decrease from the corresponding rate for 1994 (42 per 100,000).

EXTERNAL CAUSES

continued

Taking into account issues surrounding the coding of Intentional self-harm (*see Explanatory Note 27*), there were 2,098 deaths attributed to Intentional self-harm (suicide) in 2004, less than the 2,213 deaths in 2003. The standardised death rate from suicide in 2004 was 17 per 100,000 males and 4 per 100,000 females, which were both decreases from the respective rates recorded in 2003.

DEATHS OF INDIGENOUS PEOPLE

While data on deaths of Aboriginal and Torres Strait Islander Australians are considered to be affected by underenumeration (*see Explanatory Notes, paragraph 23, for further information*), a comparison of causes of Indigenous deaths with non-Indigenous deaths highlights some major differences.

Indigenous and non-Indigenous persons have the same two leading causes of death, although they are proportionally different. In 2004, Ischaemic heart diseases were the main cause of 16.3% of all Indigenous deaths compared to 18.6% of non-Indigenous deaths. Malignant neoplasms were the cause of 16.6% of all indigenous deaths and 29.0% of all non-Indigenous deaths.

Deaths due to Diabetes mellitus were higher among Indigenous persons (7.3%) than among non-Indigenous persons (2.6%). External causes accounted for 14.3% of Indigenous deaths compared with 5.8% of non-Indigenous deaths, with Intentional self-harm contributing 4.2% of all Indigenous deaths compared with 1.5% of all non-Indigenous deaths. (*see Explanatory Note 31 for more information on coding of Intentional self-harm in 2004*)

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 2004, the estimates of years of potential life lost (YPLL) were 615,527 years for males and 339,226 years for females for all causes of death. This represents a decrease from 2003 for both males and females, when the estimated YPLL was 637,067 and 349,445 respectively.

There was a slight increase in the proportion of the YPLL from Malignant Neoplasms from 30.1% for males in 2003 to 30.4% in 2004. In contrast, the proportion of the YPLL from Malignant Neoplasms for females decreased slightly from 44.2% in 2003 to 43.6% in 2004. The proportion of the YPLL from Ischaemic heart disease for males was 13.4% for both 2003 and 2004 however there was a slight decrease for females from 7.0% in 2003 to 6.5% in 2004.

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.

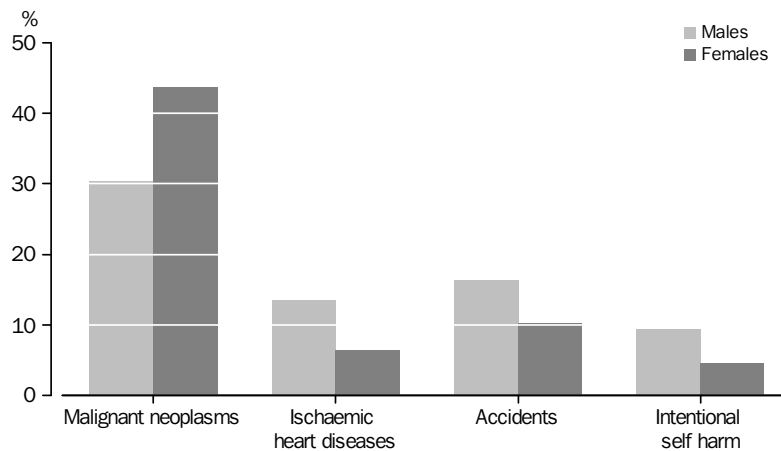
For males there is a difference between the proportion of the YPLL from Malignant Neoplasms (30.4%) and the proportion of all male deaths aged 1-78 years from the same underlying cause (37.5%). There is very little difference for females between the proportion of years of potential life lost (43.6%) and the proportion of all female deaths aged 1-78 years with Malignant neoplasms as the underlying cause (43.5%).

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 3.3% of all male deaths within that age range. The majority (65.2%) of Prostate cancer deaths are among males aged 70 years or over and only 7.3% are under 60 years.

For females, Breast cancer represented 10.0% of YPLL while it was reported as the underlying cause in 8.1% of all female deaths. Almost half of breast cancer deaths among females were aged under 60 years old. (47.3%)

PERCENTAGE OF YEARS OF POTENTIAL LIFE LOST, Selected underlying causes



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

Cause of death and ICD code	2002		2003		2004	
	Males	Females	Males	Females	Males	Females
All Causes	68 885	64 822	68 330	63 962	68 395	64 113
Chapter I Certain infectious and parasitic diseases (A00-B99)	952	838	926	828	965	842
Septicaemia (A40, A41)	507	572	520	559	512	525
Human immunodeficiency virus (HIV) disease (B20-B24)(a)	119	12	114	12	112	8
Chapter II Neoplasms (C00-D48)	21 459	16 967	21 505	16 887	21 831	17 022
Malignant neoplasms (C00-C97)	21 041	16 581	21 081	16 477	21 383	16 606
Digestive Organs (C15-C26)	5 759	4 624	5 980	4 680	5 843	4 591
Oesophagus (C15)	684	323	771	362	772	321
Stomach (C16)	762	457	703	477	715	434
Colon (C18)	1 610	1 616	1 584	1 455	1 432	1 352
Rectosigmoid junction, rectum, anus and anal canal (C19-C21)	838	585	835	573	783	559
Liver and intrahepatic bile ducts (C22)	536	298	615	289	560	332
Pancreas (C25)	943	891	946	956	1 015	963
Trachea, bronchus and lung (C33-C34)	4 760	2 543	4 510	2 466	4 733	2 531
Melanoma of skin (C43)	716	339	759	373	821	388
Breast (C50)	18	2 698	9	2 713	20	2 641
Female genital organs (C51-C58)	—	1 527	—	1 410	—	1 496
Ovary (C56)	—	852	—	782	—	851
Male genital organs (C60-C63)	2 888	—	2 878	—	2 789	—
Prostate (C61)	2 852	—	2 842	—	2 761	—
Urinary tract (C64-C68)	1 193	646	1 123	622	1 129	689
Kidney, except renal pelvis (C64)	518	321	501	306	491	351
Bladder (C67)	644	282	589	280	602	308
Brain (C71)	652	492	652	471	634	447
Lymphoid, haematopoietic and related tissue (C81-C96)	2 126	1 665	2 074	1 638	2 096	1 724
Leukaemia (C91-C95)	843	581	808	596	842	606
In situ and benign neoplasms and neoplasms of uncertain or unknown behaviour (D00-D48)	418	386	424	410	448	416
Chapter III Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50-D89)	181	247	191	263	222	263
Chapter IV Endocrine, nutritional and metabolic diseases (E00-E90)	2 383	2 283	2 449	2 272	2 553	2 515
Diabetes mellitus (E10-E14)	1 771	1 558	1 807	1 582	1 869	1 730
Chapter V Mental and behavioural disorders (F00-F99)	1 254	1 918	1 243	1 998	1 234	2 180
Organic, including symptomatic, mental disorders (F00-F09)	841	1 706	889	1 807	904	1 975
Chapter VI Diseases of the nervous system (G00-G99)	2 145	2 477	1 916	2 408	2 046	2 515
Alzheimer's disease (G30)	565	1 286	481	1 131	533	1 233
Chapter VII Diseases of the eye and adnexa (H00-H59)	np	np	np	np	np	np
Chapter VIII Diseases of the ear and mastoid process (H60-H95)	np	np	np	np	np	np
Chapter IX Diseases of the circulatory system (I00-I99)	23 988	26 306	23 399	25 436	22 921	24 716
All heart disease (I05-I09, I11, I13, I20-I25, I26, I27, I30-I52)	17 278	16 895	16 838	16 223	16 442	15 696
Acute rheumatic fever and chronic rheumatic heart diseases (I00-I09)	83	191	97	190	83	174
Hypertensive diseases (I10-I15)	457	896	485	879	503	837
Ischaemic heart disease (I20-I25)	13 855	12 208	13 534	11 905	13 152	11 424
Acute myocardial infarction (I21)	7 474	6 844	6 938	6 511	6 666	6 091
Pulmonary heart disease and diseases of pulmonary circulation and other forms of heart disease (I26-I52)	3 117	4 023	2 989	3 678	2 973	3 674
Heart Failure (I50)	1 033	1 696	969	1 463	883	1 396
Cerebrovascular diseases (I60-I69)	4 969	7 564	4 835	7 405	4 826	7 215
Diseases of arteries, arterioles and capillaries (I70-I79)	1 382	1 259	1 335	1 207	1 263	1 214
Atherosclerosis (I70)	175	324	170	247	128	228
Aortic aneurysm and dissection (I71)	836	550	813	514	773	541

— nil or rounded to zero (including null cells)

(a) See Explanatory Notes, paragraph 17 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*

Cause of death and ICD code	2002		2003		2004	
	Males	Females	Males	Females	Males	Females
Chapter X Diseases of the respiratory system (J00-J99)	6 169	5 499	6 224	5 668	6 029	5 611
Influenza and pneumonia (J10-J18)	1 353	1 731	1 558	2 008	1 498	1 883
Chronic lower respiratory diseases (J40-J47)	3 567	2 689	3 373	2 612	3 187	2 598
Emphysema (J43)	461	282	418	237	390	255
Asthma and status asthmaticus (J45, J46)	158	239	108	206	108	205
Chapter XI Diseases of the digestive system (K00-K93)	2 217	2 242	2 289	2 212	2 298	2 255
Diseases of oesophagus, stomach and duodenum (K20-K31)	285	356	282	326	252	319
Gastric and duodenal ulcer (K25-K27)	189	232	181	194	160	200
Diseases of liver (K70-K77)	918	436	983	407	954	432
Chapter XII Diseases of the skin and subcutaneous tissue (L00-L99)	119	215	109	196	127	210
Chapter XIII Diseases of the musculoskeletal system and connective tissue (M00-M99)	347	668	316	683	337	702
Arthropathies and systemic connective tissue disorders (M00-M36)	208	410	179	410	187	420
Chapter XIV Diseases of the genitourinary system (N00-N99)	1 333	1 650	1 339	1 662	1 342	1 634
Renal failure (N17-N19)	919	1 006	960	1 026	928	967
Chapter XV Pregnancy, childbirth and the puerperium (O00-O99)	—	12	—	8	—	11
Chapter XVI Certain conditions originating in the perinatal period (P00-P96)^(a)	372	303	341	266	319	241
Fetus and newborn affected by maternal factors and by complications of pregnancy, labour and delivery (P00-P04)	193	170	219	175	134	110
Chapter XVII Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	316	279	316	281	305	276
Congenital malformations of the circulatory system (Q20-Q28)	125	99	124	95	104	95
Chapter XVIII Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00-R99)	375	365	488	409	573	428
Chapter XX External causes of morbidity and mortality (V01-Y98)^(a)	5 271	2 549	5 273	2 476	5 285	2 681
Accidents (V01-X59)	3 099	1 807	3 100	1 765	3 245	1 964
Transport accidents (V01-V99)	1 403	504	1 336	475	1 236	453
Falls (W00-W19)	334	295	379	330	421	452
Accidental drowning and submersion (W65-W74)	176	56	143	58	146	51
Intentional self-harm (X60-X84)	1 817	503	1 736	477	1 661	437
Hanging, strangulation and suffocation (X70)	846	199	820	176	822	176
Assault (X85-Y09)	187	104	196	82	103	61

— nil or rounded to zero (including null cells)

(a) For information about data quality and breaks in series refer to Explanatory Notes paragraphs 22 to 29.

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

Cause of death and ICD code	NUMBER OF DEATHS			RATES (a)		
	Males	Females	Persons	Males	Females	Persons
Under 1 year	678	506	1 184	5.2	4.1	4.7
Certain conditions originating in the perinatal period (P00-P96)(b)	318	238	556	2.4	1.9	2.2
Fetus and newborn affected by maternal factors and by complications of pregnancy, labour and delivery (P00-P04)	134	110	244	1.0	0.9	1.0
Disorders related to short gestation and low birth weight, not elsewhere classified (P07)	55	30	85	0.4	0.2	0.3
Respiratory and cardiovascular disorders specific to the perinatal period (P20-P29)	56	50	106	0.4	0.4	0.4
Infections specific to the perinatal period (P35-P39)	24	12	36	0.2	0.1	0.1
Haemorrhagic and haematological disorders of fetus and newborn (P50-P61)	21	13	34	0.2	0.1	0.1
Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	164	123	287	1.3	1.0	1.1
Congenital malformations of the nervous system (Q00-Q07)	35	25	60	0.3	0.2	0.2
Congenital malformations of the circulatory system (Q20-Q28)	47	32	79	0.4	0.3	0.3
Congenital malformations of the respiratory system (Q30-Q34)	17	9	26	0.1	0.1	0.1
Sudden infant death syndrome (R95)	43	16	59	0.3	0.1	0.2
1-14 years	340	229	569	17.8	12.6	15.3
Malignant neoplasms (C00-C97)	60	47	107	3.1	2.6	2.9
Brain (C71)	15	16	31	0.8	0.9	0.8
Lymphoid, haematopoietic and related tissue (C81-C96)	21	16	37	1.1	0.9	1.0
Leukaemia (C91-C95)	19	13	32	1.0	0.7	0.9
Diseases of the nervous system (G00-G99)	33	29	62	1.7	1.6	1.7
Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	27	19	46	1.4	1.0	1.2
External causes of morbidity and mortality (V01-Y98)(b)	127	76	203	6.6	4.2	5.4
Transport accidents (V01-V99)	57	28	85	3.0	1.5	2.3
Accidental drowning and submersion (W65-W74)	26	15	41	1.4	0.8	1.1
15-24 years	940	410	1 350	66.4	30.4	48.9
Malignant neoplasms (C00-C97)	73	44	117	5.2	3.3	4.2
Lymphoid, haematopoietic and related tissue (C81-C96)	21	12	33	1.5	0.9	1.2
Leukaemia (C91-C95)	11	8	19	0.8	0.6	0.7
Mental and behavioural disorders due to psychoactive substance use (F10-F19)	np	np	7	np	np	0.3
Diseases of the nervous system (G00-G99)	36	21	57	2.5	1.6	2.1
External causes of morbidity and mortality (V01-Y98)(b)	702	250	952	49.6	18.6	34.5
Transport accidents (V01-V99)	312	116	428	22.0	8.6	15.5
Intentional self-harm (X60-X84)	196	69	265	13.8	5.1	9.6

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

(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 22 to 29.

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

continued

Cause of death and ICD code	NUMBER OF DEATHS			RATES(a)		
	Males	Females	Persons	Males	Females	Persons
25–34 years	1 520	566	2 086	105.6	39.4	72.5
Malignant neoplasms (C00-C97)	137	137	274	9.5	9.5	9.5
Digestive organs (C15-C26)	31	19	50	2.2	1.3	1.7
Melanoma of skin (C43)	16	12	28	1.1	0.8	1.0
Breast (C50)	np	np	30	np	np	1.0
Brain (C71)	28	27	55	1.9	1.9	1.9
Lymphoid, haematopoietic and related tissue (C81-C96)	31	17	48	2.2	1.2	1.7
Mental and behavioural disorders due to psychoactive substance use (F10-F19)	26	5	31	1.8	0.3	1.1
Diseases of the circulatory system (I00-I99)	105	54	159	7.3	3.8	5.5
Ischaemic heart diseases (I20-I25)	43	14	57	3.0	1.0	2.0
Acute myocardial infarction (I21)	23	8	31	1.6	0.6	1.1
Diseases of the digestive system (K00-K93)	20	14	34	1.4	1.0	1.2
Diseases of liver (K70-K77)	13	5	18	0.9	0.3	0.6
External causes of morbidity and mortality (V01-Y98)(b)	1 011	225	1 236	70.2	15.6	43.0
Transport accidents (V01-V99)	248	43	291	17.2	3.0	10.1
Intentional self-harm (X60-X84)	393	78	471	27.3	5.4	16.4
35–44 years	2 136	1 193	3 329	142.9	79.0	110.8
Malignant neoplasms (C00-C97)	402	492	894	26.9	32.6	29.8
Digestive organs (C15-C26)	119	94	213	8.0	6.2	7.1
Melanoma of skin (C43)	42	26	68	2.8	1.7	2.3
Breast (C50)	—	159	159	—	10.5	5.3
Brain (C71)	52	32	84	3.5	2.1	2.8
Lymphoid, haematopoietic and related tissue (C81-C96)	64	36	100	4.3	2.4	3.3
Mental and behavioural disorders due to psychoactive substance use (F10-F19)	23	13	36	1.5	0.9	1.2
Diseases of the circulatory system (I00-I99)	396	152	548	26.5	10.1	18.2
Ischaemic heart diseases (I20-I25)	236	60	296	15.8	4.0	9.9
Acute myocardial infarction (I21)	80	30	110	5.4	2.0	3.7
Diseases of the digestive system (K00-K93)	107	65	172	7.2	4.3	5.7
Diseases of liver (K70-K77)	88	50	138	5.9	3.3	4.6
External causes of morbidity and mortality (V01-Y98)(b)	869	268	1 137	58.1	17.8	37.8
Transport accidents (V01-V99)	170	56	226	11.4	3.7	7.5
Intentional self-harm (X60-X84)	382	91	473	25.6	6.0	15.7
45–54 years	4 087	2 532	6 619	298.2	182.7	240.1
Malignant neoplasms (C00-C97)	1 473	1 400	2 873	107.5	101.0	104.2
Digestive organs (C15-C26)	489	298	787	35.7	21.5	28.6
Colon (C18)	87	84	171	6.3	6.1	6.2
Trachea, bronchus, and lung (C33, C34)	289	184	473	21.1	13.3	17.2
Breast (C50)	—	421	421	—	30.4	15.3
Lymphoid, haematopoietic and related tissue (C81-C96)	116	89	205	8.5	6.4	7.4
Diseases of the circulatory system (I00-I99)	1 017	370	1 387	74.2	26.7	50.3
Ischaemic heart diseases (I20-I25)	706	147	853	51.5	10.6	30.9
Acute myocardial infarction (I21)	274	64	338	20.0	4.6	12.3
Cerebrovascular diseases (I60-I69)	126	110	236	9.2	7.9	8.6
Diseases of the respiratory system (J00-J99)	123	76	199	9.0	5.5	7.2
Diseases of the digestive system (K00-K93)	273	113	386	19.9	8.2	14.0
Diseases of liver (K70-K77)	217	81	298	15.8	5.8	10.8
External causes of morbidity and mortality (V01-Y98)(b)	687	248	935	50.1	17.9	33.9
Transport accidents (V01-V99)	144	59	203	10.5	4.3	7.4
Intentional self-harm (X60-X84)	257	89	346	18.8	6.4	12.6

— nil or rounded to zero (including null cells)

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

(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 22 to 29.

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

continued

Cause of death and ICD code	NUMBER OF DEATHS			RATES(a)		
	Males	Females	Persons	Males	Females	Persons
55–64 years	7 525	4 439	11 964	707.7	425.0	567.6
Malignant neoplasms (C00-C97)	3 434	2 533	5 967	323.0	242.5	283.1
Digestive organs (C15-C26)	1 099	551	1 650	103.4	52.8	78.3
Colon (C18)	231	139	370	21.7	13.3	17.6
Trachea, bronchus, and lung (C33, C34)	856	467	1 323	80.5	44.7	62.8
Breast (C50)	5	555	560	0.5	53.1	26.6
Female genital organs (C51-C58)	—	297	297	—	28.4	14.1
Male genital organs (C60-C63)	201	—	201	18.9	—	9.5
Diseases of the circulatory system (I00-I99)	2 114	698	2 812	198.8	66.8	133.4
Ischaemic heart diseases (I20-I25)	1 460	326	1 786	137.3	31.2	84.7
Acute myocardial infarction (I21)	658	162	820	61.9	15.5	38.9
Cerebrovascular diseases (I60-I69)	244	159	403	22.9	15.2	19.1
Diseases of the respiratory system (J00-J99)	379	303	682	35.6	29.0	32.4
Chronic lower respiratory diseases (J40-J47)	230	221	451	21.6	21.2	21.4
Diseases of the digestive system (K00-K93)	325	148	473	30.6	14.2	22.4
External causes of morbidity and mortality (V01-Y98)(b)	472	187	659	44.4	17.9	31.3
65–74 years	13 621	8 201	21 822	2 033.5	1 163.3	1 587.3
Malignant neoplasms (C00-C97)	5 847	3 652	9 499	872.9	518.0	690.9
Digestive organs (C15-C26)	1 676	1 010	2 686	250.2	143.3	195.4
Colon (C18)	431	294	725	64.3	41.7	52.7
Trachea, bronchus, and lung (C33, C34)	1 537	651	2 188	229.5	92.3	159.2
Breast (C50)	3	541	544	0.4	76.7	39.6
Prostate (C61)	588	—	588	87.8	—	42.8
Lymphoid, haematopoietic and related tissue (C81-C96)	526	385	911	78.5	54.6	66.3
Endocrine, nutritional and metabolic diseases (E00-E90)	643	377	1 020	96.0	53.5	74.2
Diabetes mellitus (E10-E14)	498	267	765	74.3	37.9	55.6
Diseases of the nervous system (G00-G99)	355	296	651	53.0	42.0	47.4
Alzheimer's disease (G30)	61	68	129	9.1	9.6	9.4
Diseases of the circulatory system (I00-I99)	4 133	2 065	6 198	617.0	292.9	450.8
Ischaemic heart diseases (I20-I25)	2 622	1 010	3 632	391.4	143.3	264.2
Acute myocardial infarction (I21)	1 307	551	1 858	195.1	78.2	135.1
Cerebrovascular diseases (I60-I69)	706	521	1 227	105.4	73.9	89.2
Diseases of the respiratory system (J00-J99)	1 053	790	1 843	157.2	112.1	134.1
Chronic lower respiratory diseases (J40-J47)	699	565	1 264	104.4	80.1	91.9
Diseases of the digestive system (K00-K93)	471	257	728	70.3	36.5	53.0

— 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 22 to 29.

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

continued

Cause of death and ICD code	NUMBER OF DEATHS			RATES(a)		
	Males	Females	Persons	Males	Females	Persons
75–84 years	22 911	19 989	42 900	5 698.0	3 754.4	4 590.7
Malignant neoplasms (C00-C97)	7 253	5 293	12 546	1 803.8	994.1	1 342.5
Digestive organs (C15-C26)	1 823	1 610	3 433	453.4	302.4	367.4
Colon (C18)	475	456	931	118.1	85.6	99.6
Trachea, bronchus, and lung (C33, C34)	1 604	901	2 505	398.9	169.2	268.1
Breast (C50)	9	575	584	2.2	108.0	62.5
Male genital organs (C60-C63)	1 243	—	1 243	309.1	—	133.0
Prostate (C61)	1 240	—	1 240	308.4	—	132.7
Lymphoid, haematopoietic and related tissue (C81-C96)	761	617	1 378	189.3	115.9	147.5
Endocrine, nutritional and metabolic diseases (E00-E90)	898	931	1 829	223.3	174.9	195.7
Diabetes mellitus (E10-E14)	684	679	1 363	170.1	127.5	145.9
Organic, including symptomatic, mental disorders (F00-F09)	332	539	871	82.6	101.2	93.2
Diseases of the nervous system (G00-G99)	736	788	1 524	183.0	148.0	163.1
Alzheimer's disease (G30)	234	392	626	58.2	73.6	67.0
Diseases of the circulatory system (I00-I99)	8 430	7 825	16 255	2 096.5	1 469.7	1 739.4
Ischaemic heart diseases (I20-I25)	4 629	3 639	8 268	1 151.2	683.5	884.7
Acute myocardial infarction (I21)	2 500	2 031	4 531	621.8	381.5	484.9
Cerebrovascular diseases (I60-I69)	2 004	2 333	4 337	498.4	438.2	464.1
Diseases of arteries, arterioles and capillaries (I70-I79)	538	426	964	133.8	80.0	103.2
Diseases of the respiratory system (J00-J99)	2 577	1 907	4 484	640.9	358.2	479.8
Chronic lower respiratory diseases (J40-J47)	1 464	1 005	2 469	364.1	188.8	264.2
Diseases of the digestive system (K00-K93)	660	706	1 366	164.1	132.6	146.2
Diseases of the genitourinary system (N00-N99)	596	549	1 145	148.2	103.1	122.5
External causes of morbidity and mortality (V01-Y98)(b)	579	495	1 074	144.0	93.0	114.9
Falls (W00-W19)	130	122	252	32.3	22.9	27.0

— 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 22 to 29.

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

continued

Cause of death and ICD code	NUMBER OF DEATHS			RATES (a)		
	Males	Females	Persons	Males	Females	Persons
85 years and over	14 631	26 047	40 678	15 635.9	12 892.7	13 761.1
Malignant neoplasms (C00-C97)	2 702	3 003	5 705	2 887.6	1 486.4	1 930.0
Digestive organs (C15-C26)	600	1 007	1 607	641.2	498.4	543.6
Colon (C18)	175	346	521	187.0	171.3	176.3
Pancreas (C25)	93	156	249	99.4	77.2	84.2
Trachea, bronchus, and lung (C33, C34)	398	270	668	425.3	133.6	226.0
Breast (C50)	np	np	363	np	np	122.8
Male genital organs (C60-C63)	710	—	710	758.8	—	240.2
Prostate (C61)	706	—	706	754.5	—	238.8
Lymphoid, haematopoietic and related tissue (C81-C96)	278	376	654	297.1	186.1	221.2
Endocrine, nutritional and metabolic diseases (E00-E90)	510	903	1 413	545.0	447.0	478.0
Diabetes mellitus (E10-E14)	373	595	968	398.6	294.5	327.5
Organic, including symptomatic, mental disorders (F00-F09)	473	1 359	1 832	505.5	672.7	619.8
Diseases of the nervous system (G00-G99)	491	1 073	1 564	524.7	531.1	529.1
Alzheimer's disease (G30)	228	761	989	243.7	376.7	334.6
Diseases of the circulatory system (I00-I99)	6 660	13 508	20 168	7 117.4	6 686.2	6 822.7
Ischaemic heart diseases (I20-I25)	3 447	6 223	9 670	3 683.8	3 080.3	3 271.3
Acute myocardial infarction (I21)	1 820	3 244	5 064	1 945.0	1 605.7	1 713.1
Pulmonary heart disease and diseases of pulmonary circulation and other forms of heart disease (I26-I52)	952	2 030	2 982	1 017.4	1 004.8	1 008.8
Heart failure (I50)	415	958	1 373	443.5	474.2	464.5
Cerebrovascular diseases (I60-I69)	1 670	4 032	5 702	1 784.7	1 995.8	1 928.9
Diseases of arteries, arterioles and capillaries (I70-I79)	351	611	962	375.1	302.4	325.4
Diseases of the respiratory system (J00-J99)	1 785	2 449	4 234	1 907.6	1 212.2	1 432.3
Influenza and pneumonia (J10-J18)	662	1 224	1 886	707.5	605.9	638.0
Chronic lower respiratory diseases (J40-J47)	701	734	1 435	749.1	363.3	485.5
Diseases of the digestive system (K00-K93)	418	935	1 353	446.7	462.8	457.7
Diseases of the genitourinary system (N00-N99)	514	869	1 383	549.3	430.1	467.9
Renal failure (N17-N19)	358	505	863	382.6	250.0	291.9
External causes of morbidity and mortality (V01-Y98)(b)	420	706	1 126	448.8	349.5	380.9
Falls (W00-W19)	135	254	389	144.3	125.7	131.6

— nil or rounded to zero (including null cells)

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

(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 22 to 29.

1.3 UNDERLYING CAUSE, Selected years—Standardised death rates(a)

Cause of death and ICD code	1994			1999		
	Males	Females	Persons	Males	Females	Persons
All causes	1 034.3	645.9	812.5	884.9	565.9	705.5
Chapter I Certain infectious and parasitic diseases (A00-B99)	8.3	5.2	6.6	11.0	7.1	8.8
Septicaemia (A40, A41)	3.9	2.8	3.2	5.8	4.2	4.8
Human immunodeficiency virus (HIV) disease (B20-B24)(b)	8.2	0.5	4.3	1.3	0.1	0.7
Chapter II Neoplasms (C00-D48)	283.5	164.2	213.0	256.2	152.8	195.7
Malignant neoplasms (C00-C97)	279.3	161.1	209.5	250.4	149.2	191.3
Digestive organs (C15-C26)	75.3	46.2	59.2	69.9	41.6	54.2
Oesophagus (C15)	8.2	3.4	5.6	8.0	2.9	5.1
Stomach (C16)	12.0	5.2	8.2	9.4	4.3	6.6
Colon (C18)	26.1	19.1	22.2	22.3	15.0	18.2
Rectosigmoid junction, rectum, anus and anal canal (C19-C21)	9.6	4.6	6.9	9.0	5.0	6.8
Liver and intrahepatic bile ducts (C22)	4.9	2.2	3.4	5.4	2.3	3.7
Pancreas (C25)	11.0	7.7	9.2	10.9	8.2	9.4
Trachea, bronchus and lung (C33, C34)	67.1	21.2	41.0	57.1	21.4	36.9
Melanoma of skin (C43)	8.3	3.2	5.5	7.7	3.6	5.4
Breast (C50)	0.2	30.6	16.7	0.3	25.4	13.8
Female genital organs (C51-C58)	—	15.9	8.7	—	12.9	7.1
Ovary (C56)	—	8.5	4.6	—	7.3	4.0
Male genital organs (C60-C63)	43.8	—	16.9	35.5	—	14.0
Prostate (C61)	43.3	—	16.7	34.9	—	13.8
Urinary tract (C64-C68)	14.5	5.8	9.4	14.5	5.8	9.4
Kidney, except renal pelvis (C64)	6.0	3.2	4.5	5.9	3.1	4.4
Bladder (C67)	8.2	2.3	4.6	8.0	2.4	4.6
Brain (C71)	6.9	4.8	5.8	6.7	4.4	5.5
Lymphoid, haematopoietic and related tissue (C81-C96)	26.7	16.4	20.8	24.4	15.5	19.4
Leukaemia (C91-C95)	10.5	5.9	7.8	9.6	5.6	7.3
In situ and benign neoplasms and neoplasms of uncertain or unknown behaviour (D00-D48)	4.2	3.0	3.5	5.8	3.6	4.4
Chapter III Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50-D89)	8.5	2.9	5.7	2.6	2.4	2.5
Chapter IV Endocrine, nutritional and metabolic diseases (E00-E90)	27.1	19.7	22.8	25.8	19.7	22.6
Diabetes mellitus (E10-E14)	21.6	14.8	17.6	19.5	13.7	16.2
Chapter V Mental and behavioural disorders (F00-F99)	20.9	18.5	20.0	17.3	13.7	15.6
Organic, including symptomatic, mental disorders (F00-F09)	14.5	16.0	15.7	10.4	11.2	11.0
Class VI Disease of the nervous system (G00-G99)	22.2	16.8	19.0	24.5	19.1	21.5
Alzheimer's disease (G30)	6.9	7.3	7.2	7.6	8.9	8.5
Chapter VII Diseases of the eye and adnexa (H00-H59)	np	np	—	np	np	—
Chapter VIII Diseases of the ear and mastoid process (H60-H95)	np	np	—	np	np	—
Chapter IX Diseases of the circulatory system (I00-I99)	441.5	300.3	362.7	345.0	237.6	285.5
All heart disease (I05-I09, I11, I13, I20-I25, I26, I27, I30-I52)	318.3	198.7	251.2	248.3	154.9	196.4
Acute rheumatic fever and chronic rheumatic heart diseases (I00-I09)	1.6	2.5	2.2	1.1	1.7	1.4
Hypertensive diseases (I10-I15)	7.0	7.4	7.4	6.1	6.7	6.6
Ischaemic heart diseases (I20-I25)	262.0	151.7	199.7	201.9	114.8	153.2
Acute myocardial infarction (I21)	161.1	94.5	123.5	109.4	64.5	84.1
Pulmonary heart disease and diseases of pulmonary circulation and other forms of heart disease (I26-I52)	51.1	39.9	45.0	42.4	34.7	38.3
Heart failure (I50)	20.8	19.6	20.3	15.6	14.9	15.3
Cerebrovascular diseases (I60-I69)	91.4	81.5	86.4	71.1	65.8	68.6
Diseases of arteries, arterioles and capillaries (I70-I79)	26.8	15.7	20.3	20.8	12.4	15.9
Atherosclerosis (I70)	6.2	5.4	5.8	3.5	3.7	3.7
Aortic aneurysm and dissection (I71)	14.6	5.9	9.4	11.9	5.2	8.0

— nil or rounded to zero (including null cells)

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

(a) Standardised death rate per 100,000 of the mid year 2004 population. See Glossary for further explanation.

(b) See Explanatory Notes, paragraph 17 for further information.

1.3 UNDERLYING CAUSE, Selected years—Standardised death rates(a) *continued*

Cause of death and ICD code	1994			1999		
	Males	Females	Persons	Males	Females	Persons
Chapter X Diseases of the respiratory system (J00-J99)	95.8	45.3	64.5	73.5	39.8	53.2
Influenza and pneumonia (J10-J18)	15.8	10.7	12.7	11.8	9.9	10.7
Chronic lower respiratory diseases (J40-J47)	66.7	28.1	42.7	48.8	23.5	33.5
Emphysema (J43)	9.2	3.3	5.6	7.7	3.0	4.9
Asthma and status asthmaticus (J45, J46)	5.0	5.5	5.2	2.0	2.6	2.3
Chapter XI Diseases of the digestive system (K00-K93)	29.9	20.7	25.0	27.4	19.5	23.3
Diseases of oesophagus, stomach and duodenum (K20-K31)	6.3	4.3	5.1	4.4	3.0	3.6
Gastric and duodenal ulcer (K25-K27)	4.9	3.5	4.0	2.9	2.1	2.5
Diseases of liver (K70-K77)	10.3	4.2	7.1	9.9	3.9	6.7
Chapter XII Diseases of the skin and subcutaneous tissue (L00-L99)	1.5	1.4	1.5	1.5	1.6	1.6
Chapter XIII Diseases of the musculoskeletal system and connective tissue (M00-M99)	3.8	5.9	5.1	4.1	5.2	4.8
Arthropathies and systemic connective tissue disorders (M00-M36)	2.3	4.0	3.3	2.8	3.4	3.1
Chapter XIV Diseases of the genitourinary system (N00-N99)	18.3	12.2	14.2	18.8	13.8	15.5
Renal failure (N17-N19)	12.2	7.1	8.9	13.0	8.2	9.9
Chapter XV Pregnancy, childbirth and the puerperium (O00-O99)	—	0.2	0.1	—	0.1	0.1
Chapter XVI Certain conditions originating in the perinatal period (P00-P96)(b)	4.0	3.1	3.5	3.8	2.8	3.3
Chapter XVII Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	4.4	3.6	4.0	4.1	3.4	3.7
Congenital malformations of the circulatory system (Q20-Q28)	1.9	1.5	1.7	1.4	1.2	1.3
Chapter XVIII Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00-R99)	3.5	2.9	3.2	3.8	2.7	3.2
Chapter XX External causes of morbidity and mortality (V01-Y98)(b)	61.0	23.2	41.6	65.5	24.7	44.5
Accidents (V01-X59)	36.9	16.7	26.4	39.7	17.5	28.3
Transport accidents (V01-V99)	17.8	7.0	12.3	15.6	5.9	10.6
Falls (W00-W19)	3.6	1.6	2.5	4.0	1.9	2.9
Accidental drowning and submersion (W65-W74)	2.3	0.4	1.4	2.2	0.8	1.5
Intentional self-harm (X60-X84)	21.0	4.8	12.8	21.6	5.1	13.2
Hanging, strangulation and suffocation (X70)	6.1	1.2	3.6	9.3	1.7	5.4
Assault (X85-Y09)	2.3	1.3	1.8	2.1	1.0	1.6

— nil or rounded to zero (including null cells)

(a) Standardised death rate per 100,000 of the mid year 2004 population. See Glossary for further explanation.

(b) For information about data quality and breaks in series refer to Explanatory Notes paragraphs 22 to 29.

1.3 UNDERLYING CAUSE, Selected years—Standardised death rates(a) *continued*

Cause of death and ICD code	2003			2004		
	Males	Females	Persons	Males	Females	Persons
All causes	791.5	523.0	642.3	769.6	511.2	626.2
Chapter I Certain infectious and parasitic diseases (A00-B99)	10.7	6.8	8.5	10.9	6.8	8.6
Septicaemia (A40, A41)	6.3	4.5	5.2	6.1	4.1	4.9
Human immunodeficiency virus (HIV) disease (B20-B24)(b)	1.2	0.1	0.6	1.1	0.1	0.6
Chapter II Neoplasms (C00-D48)	239.4	148.8	187.2	236.5	146.3	184.7
Malignant neoplasms (C00-C97)	234.4	145.4	183.2	231.3	143.0	180.7
Digestive organs (C15-C26)	65.5	40.5	51.9	62.3	38.8	49.6
Oesophagus (C15)	8.3	3.1	5.5	8.1	2.7	5.2
Stomach (C16)	7.8	4.1	5.8	7.7	3.6	5.5
Colon (C18)	17.5	12.6	14.8	15.5	11.3	13.2
Rectosigmoid junction, rectum, anus and anal canal (C19-C21)	9.1	5.0	6.9	8.2	4.8	6.4
Liver and intrahepatic bile ducts (C22)	6.6	2.5	4.4	5.9	2.9	4.3
Pancreas (C25)	10.3	8.3	9.3	10.7	8.2	9.4
Trachea, bronchus and lung (C33, C34)	49.1	22.2	34.1	50.3	22.2	34.6
Melanoma of skin (C43)	8.2	3.4	5.5	8.7	3.4	5.8
Breast (C50)	0.1	24.6	13.3	0.2	23.4	12.6
Female genital organs (C51-C58)	—	12.7	6.9	—	13.1	7.1
Ovary (C56)	—	7.1	3.8	—	7.5	4.0
Male genital organs (C60-C63)	34.6	—	14.0	32.3	—	13.2
Prostate (C61)	34.2	—	13.8	32.0	—	13.0
Urinary tract (C64-C68)	12.7	5.3	8.5	12.4	5.7	8.6
Kidney, except renal pelvis (C64)	5.4	2.7	3.9	5.2	2.9	4.0
Bladder (C67)	6.9	2.3	4.2	6.8	2.5	4.3
Brain (C71)	6.8	4.4	5.5	6.4	4.2	5.2
Lymphoid, haematopoietic and related tissue (C81-C96)	23.1	14.2	18.1	22.8	14.6	18.2
Leukaemia (C91-C95)	9.0	5.2	6.9	9.2	5.2	6.9
In situ and benign neoplasms and neoplasms of uncertain or unknown behaviour (D00-D48)	5.0	3.4	4.0	5.2	3.3	4.1
Chapter III Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50-D89)	2.2	2.1	2.2	2.5	2.1	2.3
Chapter IV Endocrine, nutritional and metabolic diseases (E00-E90)	28.3	18.7	22.9	28.7	20.1	23.9
Diabetes mellitus (E10-E14)	20.9	12.9	16.5	21.0	13.8	17.0
Chapter V Mental and behavioural disorders (F00-F99)	15.6	14.9	15.6	15.1	15.9	15.9
Organic, including symptomatic, mental disorders (F00-F09)	11.8	13.2	12.9	11.6	14.2	13.3
Class VI Disease of the nervous system (G00-G99)	22.5	19.5	21.0	23.4	19.9	21.5
Alzheimer's disease (G30)	6.3	8.5	7.7	6.6	9.0	8.2
Chapter VII Diseases of the eye and adnexa (H00-H59)	np	np	—	np	np	—
Chapter VIII Diseases of the ear and mastoid process (H60-H95)	np	np	—	np	np	—
Chapter IX Diseases of the circulatory system (I00-I99)	281.8	197.3	235.5	266.9	186.1	223.0
All heart disease (I05-I09, I11, I13, I20-I25, I26, I27, I30-I52)	201.0	126.1	159.6	189.7	118.3	150.6
Acute rheumatic fever and chronic rheumatic heart diseases (I00-I09)	1.1	1.6	1.4	1.0	1.4	1.2
Hypertensive diseases (I10-I15)	5.9	6.7	6.6	6.1	6.2	6.2
Ischaemic heart diseases (I20-I25)	160.8	92.5	122.8	151.0	86.1	115.2
Acute myocardial infarction (I21)	82.9	50.8	64.9	77.1	45.9	59.8
Pulmonary heart disease and diseases of pulmonary circulation and other forms of heart disease (I26-I52)	36.4	28.5	32.2	34.9	27.8	31.1
Heart failure (I50)	12.7	10.9	11.6	11.1	10.1	10.6
Cerebrovascular diseases (I60-I69)	59.9	57.0	58.9	57.8	53.9	56.2
Diseases of arteries, arterioles and capillaries (I70-I79)	16.2	9.4	12.3	14.8	9.3	11.6
Atherosclerosis (I70)	2.3	1.8	2.0	1.6	1.6	1.7
Aortic aneurysm and dissection (I71)	9.5	4.2	6.4	8.8	4.3	6.2

— nil or rounded to zero (including null cells)

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

(a) Standardised death rate per 100,000 of the mid year 2004 population. See Glossary for further explanation.

(b) See Explanatory Notes, paragraph 17 for further information.

1.3 UNDERLYING CAUSE, Selected years—Standardised death rates(a) *continued*

Cause of death and ICD code	2003			2004		
	Males	Females	Persons	Males	Females	Persons
Chapter X Diseases of the respiratory system (J00-J99)	75.7	45.4	57.5	70.9	44.0	54.7
Influenza and pneumonia (J10-J18)	20.0	15.1	17.1	18.6	13.8	15.7
Chronic lower respiratory diseases (J40-J47)	40.1	21.8	29.1	36.5	21.4	27.3
Emphysema (J43)	4.8	2.0	3.2	4.4	2.2	3.1
Asthma and status asthmaticus (J45, J46)	1.2	1.8	1.5	1.2	1.7	1.5
Chapter XI Diseases of the digestive system (K00-K93)	26.0	18.0	21.8	25.3	17.9	21.5
Diseases of oesophagus, stomach and duodenum (K20-K31)	3.4	2.5	2.9	2.9	2.4	2.7
Gastric and duodenal ulcer (K25-K27)	2.2	1.5	1.8	1.9	1.5	1.7
Diseases of liver (K70-K77)	10.1	3.8	6.8	9.6	3.9	6.6
Chapter XII Diseases of the skin and subcutaneous tissue (L00-L99)	1.3	1.5	1.5	1.5	1.6	1.6
Chapter XIII Diseases of the musculoskeletal system and connective tissue (M00-M99)	3.8	5.5	4.8	4.0	5.5	4.9
Arthropathies and systemic connective tissue disorders (M00-M36)	2.1	3.4	2.9	2.2	3.4	2.9
Chapter XIV Diseases of the genitourinary system (N00-N99)	16.8	12.9	14.4	16.4	12.3	13.9
Renal failure (N17-N19)	12.0	8.0	9.6	11.3	7.3	8.8
Chapter XV Pregnancy, childbirth and the puerperium (O00-O99)	—	0.1	—	—	0.1	0.1
Chapter XVI Certain conditions originating in the perinatal period (P00-P96)(b)	3.5	2.8	3.2	3.3	2.6	2.9
Chapter XVII Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	3.2	2.8	3.0	3.1	2.7	2.9
Congenital malformations of the circulatory system (Q20-Q28)	1.3	0.9	1.1	1.1	0.9	1.0
Chapter XVIII Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00-R99)	5.1	3.5	4.4	6.1	3.7	4.9
Chapter XX External causes of morbidity and mortality (V01-Y98)(b)	55.7	22.2	38.5	55.1	23.4	38.8
Accidents (V01-X59)	33.3	15.4	24.1	34.3	16.7	25.3
Transport accidents (V01-V99)	13.6	4.6	9.1	12.4	4.4	8.3
Falls (W00-W19)	4.4	2.6	3.4	4.9	3.4	4.1
Accidental drowning and submersion (W65-W74)	1.5	0.6	1.0	1.5	0.5	1.0
Intentional self-harm (X60-X84)	17.7	4.7	11.1	16.8	4.3	10.4
Hanging, strangulation and suffocation (X70)	8.3	1.8	5.0	8.3	1.7	5.0
Assault (X85-Y09)	2.0	0.8	1.4	1.0	0.6	0.8

— nil or rounded to zero (including null cells)

(b) For information about data quality and breaks in series refer to Explanatory Notes paragraphs 22 to 29.

(a) Standardised death rate per 100,000 of the mid year 2004 population. See Glossary for further explanation.

1.4 UNDERLYING CAUSE, State/territory of usual residence, Ages 0 to 44 years

Cause of death and ICD code	NSW		VIC.		QLD		SA	
	Males	Females	Males	Females	Males	Females	Males	Females
Under 1 year	218	181	156	126	158	104	32	22
Certain conditions originating in the perinatal period (P00-P96)(a)	101	np	81	np	np	np	14	10
Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	59	46	43	34	36	28	6	4
Sudden infant death syndrome (R95)	12	6	11	5	14	3	np	—
1-14 years	108	80	59	41	81	55	21	13
Malignant neoplasms (C00-C97)	np	16	16	11	np	np	np	np
Diseases of the nervous system (G00-G99)	12	10	7	np	6	7	3	5
Diseases of the circulatory system (I00-I99)	7	4	4	np	np	np	4	—
Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	10	4	9	6	5	6	—	—
External causes of morbidity and mortality (V01-Y98)(a)	38	29	14	11	40	17	9	np
15-24 years	244	117	217	92	212	76	68	41
Malignant neoplasms (C00-C97)	18	15	13	10	13	8	np	np
Mental and behavioural disorders due to psychoactive substance use (F10-F19)	np	np	—	—	—	np	—	—
Diseases of the nervous system (G00-G99)	10	8	15	4	4	—	np	3
External causes of morbidity and mortality (V01-Y98)(a)	190	72	159	59	165	50	48	25
Transport accidents (V01-V99)	70	29	72	32	79	22	25	10
Intentional self-harm (X60-X84)	58	17	47	19	39	15	14	8
25-34 years	455	168	336	141	328	105	127	40
Malignant neoplasms (C00-C97)	37	43	35	37	29	27	9	6
Mental and behavioural disorders due to psychoactive substance use (F10-F19)	17	np	np	—	np	—	—	np
Diseases of the circulatory system (I00-I99)	32	9	10	13	29	11	11	np
Diseases of the digestive system (K00-K93)	4	3	4	4	7	—	np	3
External causes of morbidity and mortality (V01-Y98)(a)	308	71	240	67	215	38	84	15
Transport accidents (V01-V99)	73	14	47	10	49	7	28	np
Intentional self-harm (X60-X84)	102	19	98	30	94	13	29	6
35-44 years	674	384	464	266	449	245	170	84
Malignant neoplasms (C00-C97)	139	190	96	108	82	89	36	31
Mental and behavioural disorders due to psychoactive substance use (F10-F19)	10	8	3	np	5	np	np	—
Diseases of the circulatory system (I00-I99)	130	44	84	35	81	36	27	12
Diseases of the digestive system (K00-K93)	41	16	14	14	19	np	7	3
External causes of morbidity and mortality (V01-Y98)(a)	253	69	203	71	191	63	72	20
Transport accidents (V01-V99)	41	13	35	14	37	12	19	3
Intentional self-harm (X60-X84)	103	29	94	23	88	18	29	8

— nil or rounded to zero (including null cells)

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

(a) For information about data quality and breaks in series refer to Explanatory Notes paragraphs 22 to 29.

1.4 UNDERLYING CAUSE, State/territory of usual residence, Ages 0 to 44 years

continued

Cause of death and ICD code	WA		TAS.		NT		ACT	
	Males	Females	Males	Females	Males	Females	Males	Females
Under 1 year	65	34	12	9	24	14	13	16
Certain conditions originating in the perinatal period (P00-P96)(a)	25	16	5	5	10	6	7	6
Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	8	5	3	np	4	—	5	np
Sudden infant death syndrome (R95)	np	—	np	np	np	—	—	np
1-14 years	50	22	8	7	7	6	5	5
Malignant neoplasms (C00-C97)	8	6	np	—	np	np	np	np
Diseases of the nervous system (G00-G99)	3	3	np	—	—	np	—	—
Diseases of the circulatory system (I00-I99)	3	np	—	—	np	—	np	—
Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	np	np	—	—	—	np	—	np
External causes of morbidity and mortality (V01-Y98)(a)	21	6	3	7	np	np	—	np
15-24 years	120	52	33	12	32	14	14	6
Malignant neoplasms (C00-C97)	14	5	np	np	np	—	np	np
Mental and behavioural disorders due to psychoactive substance use (F10-F19)	np	—	—	—	—	—	—	—
Diseases of the nervous system (G00-G99)	np	3	np	np	np	—	np	np
External causes of morbidity and mortality (V01-Y98)(a)	86	28	26	7	22	7	np	np
Transport accidents (V01-V99)	42	15	15	5	7	np	np	np
Intentional self-harm (X60-X84)	18	5	6	np	12	np	np	np
25-34 years	150	65	43	18	61	19	20	9
Malignant neoplasms (C00-C97)	19	14	4	np	np	np	np	4
Mental and behavioural disorders due to psychoactive substance use (F10-F19)	4	—	—	—	np	—	—	—
Diseases of the circulatory system (I00-I99)	10	6	np	np	11	6	—	np
Diseases of the digestive system (K00-K93)	np	np	np	—	np	3	—	—
External causes of morbidity and mortality (V01-Y98)(a)	86	20	31	7	32	4	15	3
Transport accidents (V01-V99)	32	7	8	np	8	np	3	—
Intentional self-harm (X60-X84)	32	5	18	np	13	—	7	np
35-44 years	221	123	53	33	80	43	25	15
Malignant neoplasms (C00-C97)	33	54	6	10	np	np	5	5
Mental and behavioural disorders due to psychoactive substance use (F10-F19)	—	—	np	—	np	—	np	np
Diseases of the circulatory system (I00-I99)	34	12	11	np	25	6	4	np
Diseases of the digestive system (K00-K93)	np	np	np	—	10	8	np	np
External causes of morbidity and mortality (V01-Y98)(a)	83	17	28	12	29	11	10	5
Transport accidents (V01-V99)	20	6	7	np	7	4	4	np
Intentional self-harm (X60-X84)	38	3	18	4	10	4	np	np

— nil or rounded to zero (including null cells)

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

(a) For information about data quality and breaks in series refer to Explanatory Notes paragraphs 22 to 29.

1.5 UNDERLYING CAUSE, State/Territory of usual residence, Ages 45-64 years

Cause of death and ICD code	NSW		VIC.		QLD		SA	
	Males	Females	Males	Females	Males	Females	Males	Females
45-54 years	1 353	832	889	572	871	498	364	217
Malignant neoplasms (C00-C97)	482	481	333	339	317	252	128	115
Trachea, bronchus, and lung (C33, C34)	107	75	56	32	64	33	17	19
Breast (C50)	—	152	—	99	—	76	—	31
Diseases of the circulatory system (I00-I99)	340	126	197	79	254	84	90	31
Ischaemic heart diseases (I20-I25)	228	51	138	21	186	42	63	15
Cerebrovascular diseases (I60-I69)	46	33	26	36	30	14	11	11
Diseases of the respiratory system (J00-J99)	40	35	32	12	23	8	13	7
Diseases of the digestive system (K00-K93)	110	38	56	15	43	27	21	16
External causes of morbidity and mortality (V01-Y98)(a)	217	71	157	54	141	57	62	21
Transport accidents (V01-V99)	41	11	35	14	32	16	15	4
Intentional self-harm (X60-X84)	70	25	68	22	44	17	25	9
55-64 years	2 594	1 568	1 675	1 008	1 544	864	605	364
Malignant neoplasms (C00-C97)	1 189	887	774	597	700	500	274	208
Digestive organs (C15-C26)	355	196	271	137	210	104	88	45
Trachea, bronchus, and lung (C33, C34)	314	170	186	94	177	96	62	43
Breast (C50)	np	194	np	133	np	102	—	51
Diseases of the circulatory system (I00-I99)	761	259	465	144	428	127	164	61
Ischaemic heart diseases (I20-I25)	541	122	313	66	292	59	111	28
Cerebrovascular diseases (I60-I69)	83	54	54	29	60	34	21	14
Diseases of the respiratory system (J00-J99)	141	120	69	59	85	62	28	17
Diseases of the digestive system (K00-K93)	107	56	78	35	60	28	32	10
External causes of morbidity and mortality (V01-Y98)(a)	140	59	108	49	107	37	44	16

— nil or rounded to zero (including null cells)

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

(a) For information about data quality and breaks in series refer to Explanatory Notes paragraphs 22 to 29.

1.5 UNDERLYING CAUSE, State/Territory of usual residence, Ages 45-64 years

continued

Cause of death and ICD code	WA		TAS.		NT		ACT	
	Males	Females	Males	Females	Males	Females	Males	Females
45-54 years	380	252	102	85	76	39	50	36
Malignant neoplasms (C00-C97)	140	130	32	52	19	13	21	18
Trachea, bronchus, and lung (C33, C34)	28	20	6	np	8	np	np	—
Breast (C50)	—	37	—	20	—	np	—	np
Diseases of the circulatory system (I00-I99)	80	30	23	6	23	8	np	np
Ischaemic heart diseases (I20-I25)	53	9	17	np	16	5	5	np
Cerebrovascular diseases (I60-I69)	9	11	np	np	—	—	np	np
Diseases of the respiratory system (J00-J99)	8	8	np	np	3	np	np	3
Diseases of the digestive system (K00-K93)	24	13	5	—	7	4	6	—
External causes of morbidity and mortality (V01-Y98)(a)	67	24	23	12	11	5	9	4
Transport accidents (V01-V99)	10	6	8	5	np	3	np	—
Intentional self-harm (X60-X84)	31	9	10	np	4	—	5	np
55-64 years	696	401	229	115	94	50	88	68
Malignant neoplasms (C00-C97)	320	221	105	67	29	15	43	38
Digestive organs (C15-C26)	119	44	35	13	7	4	14	8
Trachea, bronchus, and lung (C33, C34)	76	44	23	14	11	np	7	np
Breast (C50)	—	42	np	18	—	3	—	12
Diseases of the circulatory system (I00-I99)	181	66	61	13	30	15	24	13
Ischaemic heart diseases (I20-I25)	125	31	41	4	21	12	16	4
Cerebrovascular diseases (I60-I69)	16	19	3	np	np	—	np	np
Diseases of the respiratory system (J00-J99)	29	28	16	7	np	np	np	np
Diseases of the digestive system (K00-K93)	34	12	4	3	6	np	4	np
External causes of morbidity and mortality (V01-Y98)(a)	46	17	16	4	np	np	np	np

— nil or rounded to zero (including null cells)

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

(a) For information about data quality and breaks in series refer to Explanatory Notes paragraphs 22 to 29.

1.6 UNDERLYING CAUSE, State/territory of usual residence, Ages 65 years and over

Cause of death and ICD code	NSW		VIC.		QLD		SA	
	Males	Females	Males	Females	Males	Females	Males	Females
65–74 years	4 902	2 965	3 204	1 951	2 568	1 509	1 125	678
Malignant neoplasms (C00-C97)	2 074	1 281	1 445	915	1 090	671	470	310
Digestive organs (C15-C26)	589	331	445	261	289	200	141	95
Trachea, bronchus and lung (C33, C34)	545	235	381	149	283	116	126	59
Breast (C50)	np	196	—	144	np	99	—	42
Female genital organs (C51-C58)	—	125	—	92	—	64	—	27
Male genital organs (C60-C63)	206	—	151	—	129	—	44	—
Endocrine, nutritional and metabolic diseases (E00-E90)	191	105	182	105	129	68	49	29
Diseases of the circulatory system (I00-I99)	1 530	801	916	451	788	395	369	169
Ischaemic heart diseases (I20-I25)	962	376	570	218	508	212	235	77
Cerebrovascular diseases (I60-I69)	281	196	153	120	136	98	52	53
Diseases of the respiratory system (J00-J99)	407	294	217	166	202	161	88	57
Chronic lower respiratory diseases (J40-J47)	250	209	145	122	151	124	55	26
Diseases of the digestive system (K00-K93)	178	99	101	51	84	49	35	32
75–84 years	8 086	7 070	5 736	5 154	4 154	3 458	2 074	1 812
Malignant neoplasms (C00-C97)	2 474	1 774	1 856	1 414	1 325	904	629	504
Digestive organs (C15-C26)	604	534	501	449	301	272	180	158
Trachea, bronchus, and lung (C33, C34)	528	266	413	248	311	174	132	87
Breast (C50)	5	191	np	161	np	89	—	54
Female genital organs (C51-C58)	—	142	—	114	—	67	—	36
Male genital organs (C60-C63)	422	—	333	—	241	—	91	—
Prostate (C61)	420	—	332	—	241	—	91	—
Diabetes mellitus (E10-E14)	215	170	206	236	109	119	57	54
Mental and behavioural disorders (F00-F99)	137	208	115	164	69	103	28	62
Diseases of the nervous system (G00-G99)	248	258	205	214	128	131	48	53
Diseases of the circulatory system (I00-I99)	3 076	2 907	2 027	1 914	1 565	1 409	777	699
Ischaemic heart diseases (I20-I25)	1 626	1 338	1 139	891	883	676	426	334
Acute myocardial infarction (I21)	861	756	595	477	491	389	239	199
Cerebrovascular diseases (I60-I69)	782	867	453	559	397	439	164	192
Diseases of arteries, arterioles and capillaries (I70-I79)	192	151	126	110	85	72	64	41
Diseases of the respiratory system (J00-J99)	890	733	653	447	463	320	277	197
Chronic lower respiratory diseases (J40-J47)	472	359	411	261	283	180	122	81
Diseases of the digestive system (K00-K93)	244	237	154	197	129	107	54	69
85 years and over	5 170	9 269	3 702	6 733	2 677	4 558	1 346	2 425
Malignant neoplasms (C00-C97)	912	1 062	703	813	501	493	264	266
Digestive organs (C15-C26)	206	351	156	267	108	160	63	92
Female genital organs (C51-C58)	—	77	—	61	—	37	—	16
Male genital organs (C60-C63)	214	—	190	—	151	—	61	—
Diabetes mellitus (E10-E14)	113	171	108	196	61	82	31	62
Mental and behavioural disorders (F00-F99)	196	474	131	435	95	215	36	131
Diseases of the circulatory system (I00-I99)	2 406	4 935	1 620	3 332	1 277	2 503	574	1 227
Ischaemic heart diseases (I20-I25)	1 199	2 179	836	1 530	702	1 263	292	574
Cerebrovascular diseases (I60-I69)	641	1 550	380	943	327	731	143	371
Diseases of arteries, arterioles and capillaries (I70-I79)	117	223	98	155	65	121	29	42
Diseases of the respiratory system (J00-J99)	612	893	469	635	298	379	212	274
Chronic lower respiratory diseases (J40-J47)	217	251	238	229	107	107	59	56
Diseases of the digestive system (K00-K93)	148	285	113	252	82	183	36	91
Diseases of the genitourinary system (N00-N99)	192	292	133	235	82	161	53	84

— nil or rounded to zero (including null cells)

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

1.6 UNDERLYING CAUSE, State/territory of usual residence, Ages 65 years and over

continued

Cause of death and ICD code	WA		TAS.		NT		ACT	
	Males	Females	Males	Females	Males	Females	Males	Females
65–74 years	1 152	712	423	234	95	59	150	93
Malignant neoplasms (C00-C97)	470	325	195	99	33	16	68	35
Digestive organs (C15-C26)	122	75	62	33	6	9	22	6
Trachea, bronchus and lung (C33, C34)	129	62	44	21	11	np	16	np
Breast (C50)	—	46	—	11	—	np	—	np
Female genital organs (C51-C58)	—	38	—	4	—	—	—	5
Male genital organs (C60-C63)	42	—	17	—	np	—	np	—
Endocrine, nutritional and metabolic diseases (E00-E90)	56	45	20	14	10	6	6	5
Diseases of the circulatory system (I00-I99)	342	161	121	50	18	16	49	22
Ischaemic heart diseases (I20-I25)	222	85	83	27	14	9	28	6
Cerebrovascular diseases (I60-I69)	56	36	16	6	—	4	12	8
Diseases of the respiratory system (J00-J99)	95	64	25	30	15	8	4	10
Chronic lower respiratory diseases (J40-J47)	62	44	23	25	np	7	np	8
Diseases of the digestive system (K00-K93)	51	16	16	5	3	np	3	np
75–84 years	1 852	1 636	697	607	67	57	243	194
Malignant neoplasms (C00-C97)	630	475	240	167	15	12	84	43
Digestive organs (C15-C26)	153	127	63	54	4	np	17	np
Trachea, bronchus, and lung (C33, C34)	147	97	52	21	3	np	18	np
Breast (C50)	—	55	np	18	—	np	—	5
Female genital organs (C51-C58)	—	48	—	10	—	np	—	np
Male genital organs (C60-C63)	99	—	41	—	np	—	np	—
Prostate (C61)	99	—	41	—	np	—	np	—
Diabetes mellitus (E10-E14)	47	64	36	24	5	4	9	8
Mental and behavioural disorders (F00-F99)	29	39	14	np	5	np	3	11
Diseases of the nervous system (G00-G99)	66	90	29	29	np	np	np	np
Diseases of the circulatory system (I00-I99)	669	581	211	227	20	21	83	67
Ischaemic heart diseases (I20-I25)	368	260	129	104	11	10	46	26
Acute myocardial infarction (I21)	229	155	62	39	6	5	16	11
Cerebrovascular diseases (I60-I69)	153	192	29	54	5	4	20	26
Diseases of arteries, arterioles and capillaries (I70-I79)	43	24	19	23	—	np	9	np
Diseases of the respiratory system (J00-J99)	187	133	80	48	7	8	20	21
Chronic lower respiratory diseases (J40-J47)	96	71	61	32	7	6	12	15
Diseases of the digestive system (K00-K93)	51	61	17	19	5	np	6	np
85 years and over	1 162	2 037	418	754	25	30	131	241
Malignant neoplasms (C00-C97)	226	238	74	108	np	np	np	np
Digestive organs (C15-C26)	47	83	15	45	—	np	5	np
Female genital organs (C51-C58)	—	23	—	3	—	—	—	—
Male genital organs (C60-C63)	57	—	28	—	—	—	9	—
Diabetes mellitus (E10-E14)	42	55	14	23	—	—	4	6
Mental and behavioural disorders (F00-F99)	33	107	16	43	np	3	np	16
Diseases of the circulatory system (I00-I99)	521	1 001	191	368	12	20	59	122
Ischaemic heart diseases (I20-I25)	280	478	99	152	7	7	32	40
Cerebrovascular diseases (I60-I69)	120	286	41	97	np	np	np	np
Diseases of arteries, arterioles and capillaries (I70-I79)	22	39	np	25	—	np	np	np
Diseases of the respiratory system (J00-J99)	129	188	43	60	np	np	np	np
Chronic lower respiratory diseases (J40-J47)	48	63	23	23	—	—	9	5
Diseases of the digestive system (K00-K93)	26	95	8	20	—	np	5	np
Diseases of the genitourinary system (N00-N99)	35	62	15	25	np	np	np	np

— nil or rounded to zero (including null cells)

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

1.7 UNDERLYING CAUSE, 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)	23 806	22 634	16 438	16 084	13 042	11 472	5 933	5 696
Chapter I Certain infectious and parasitic diseases (A00-B99)	381	358	207	176	158	138	84	82
Chapter II Neoplasms (C00-D48)	7 495	5 912	5 378	4 348	4 136	3 012	1 878	1 485
Malignant neoplasms (C00-C97)	7 344	5 752	5 271	4 244	4 069	2 952	1 823	1 448
Trachea, bronchus and lung (C33,C34)	1 651	857	1 163	614	910	483	383	237
Melanoma of skin (C43)	284	126	176	85	199	88	42	33
Breast (C50)	10	938	np	685	5	458	—	221
Female genital organs (C51-C58)	—	531	—	382	—	271	—	108
Male genital organs (C60-C63)	928	—	735	—	565	—	217	—
Chapter III Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50-D89)	81	88	52	67	33	45	18	14
Chapter IV Endocrine, nutritional and metabolic diseases (E00-E90)	797	721	701	762	469	417	206	229
Diabetes mellitus (E10-E14)	579	461	531	544	324	292	142	150
Chapter V Mental and behavioural disorders (F00-F99)	462	740	308	639	229	341	87	205
Chapter VI Diseases of the nervous system (G00-G99)	689	848	502	610	381	437	160	199
Chapter IX Diseases of the circulatory system (I00-I99)	8 289	9 098	5 335	5 977	4 430	4 574	2 019	2 207
All heart disease (I05-I09, I11,I13, I20-I25,I26, I27, I30-I52)	5 866	5 702	3 860	3 826	3 161	2 923	1 459	1 420
Ischaemic heart disease (I20-I25)	4 643	4 086	3 050	2 740	2 633	2 271	1 147	1 036
Acute myocardial infarction (I21)	2 350	2 212	1 481	1 433	1 387	1 217	617	599
Cerebrovascular diseases (I60-I69)	1 854	2 720	1 087	1 704	965	1 325	396	647
Chapter X Diseases of the respiratory system (J00-J99)	2 126	2 097	1 457	1 332	1 094	952	626	563
Influenza and pneumonia (J10-J18)	540	668	295	413	272	338	216	274
Chronic lower respiratory diseases (J40-J47)	1 055	931	858	669	613	473	257	183
Chapter XI Diseases of the digestive system (K00-K93)	840	742	523	571	430	411	191	227
Diseases of liver (K70-K77)	360	135	200	105	158	82	82	40
Chapter XII Diseases of the skin and subcutaneous tissue (L00-L99)	58	78	27	46	23	32	4	23
Chapter XIII Diseases of the musculoskeletal system and connective tissue (M00-M99)	127	245	77	188	59	125	31	42
Chapter XIV Diseases of the genitourinary system (N00-N99)	464	544	353	427	211	296	149	153
Chapter XV Pregnancy, childbirth and the puerperium (O00-O99)	—	np	—	3	—	4	—	—
Chapter XVI Certain conditions originating in the perinatal period (P00-P96)(c)	101	81	81	64	76	53	14	10
Chapter XVII Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	105	105	84	68	57	54	17	15

— 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 22 to 29.

1.7 UNDERLYING CAUSE, 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)	177	126	104	94	105	70	19	24
Chapter XX External causes of morbidity and mortality (V01-Y98)(b)	1 613	847	1 249	708	1 149	509	429	217
Transport accidents (V01-V99)	333	122	276	119	275	92	117	32
Falls (W00-W19)	113	130	146	162	83	80	17	23
Intentional self-harm (X60-X84)	464	123	396	125	371	82	141	37

(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 22 to 29.

1.7 UNDERLYING CAUSE, 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)	5 850	5 334	2 018	1 874	562	331	739	684
Chapter I Certain infectious and parasitic diseases (A00-B99)	84	62	24	14	16	5	11	6
Chapter II Neoplasms (C00-D48)	1 906	1 503	673	524	107	65	255	173
Malignant neoplasms (C00-C97)	1 860	1 468	661	510	105	65	247	167
Trachea, bronchus and lung (C33,C34)	412	247	134	68	33	6	45	19
Melanoma of skin (C43)	83	43	21	8	np	—	np	5
Breast (C50)	np	220	np	80	—	10	—	29
Female genital organs (C51-C58)	—	153	—	27	—	8	—	16
Male genital organs (C60-C63)	218	—	91	—	5	—	30	—
Chapter III Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50-D89)	21	29	6	17	4	np	7	np
Chapter IV Endocrine, nutritional and metabolic diseases (E00-E90)	234	240	91	95	28	27	27	24
Diabetes mellitus (E10-E14)	169	177	77	66	24	20	23	20
Chapter V Mental and behavioural disorders (F00-F99)	88	151	39	61	13	9	8	34
Chapter VI Diseases of the nervous system (G00-G99)	193	293	86	80	6	6	29	41
Chapter IX Diseases of the circulatory system (I00-I99)	1 844	1 860	621	672	148	96	232	232
All heart disease (I05-I09, I11,I13, I20-I25,I26, I27, I30-I52)	1 344	1 188	466	437	126	70	159	130
Ischaemic heart disease (I20-I25)	1 077	872	376	291	94	49	131	79
Acute myocardial infarction (I21)	576	469	176	117	29	16	49	28
Cerebrovascular diseases (I60-I69)	358	547	95	168	13	16	56	88
Chapter X Diseases of the respiratory system (J00-J99)	464	430	169	148	45	30	48	59
Influenza and pneumonia (J10-J18)	123	134	25	34	11	10	16	12
Chronic lower respiratory diseases (J40-J47)	227	205	123	87	28	16	26	34
Chapter XI Diseases of the digestive system (K00-K93)	200	206	53	47	34	23	26	27
Diseases of liver (K70-K77)	97	49	17	np	25	14	14	—
Chapter XII Diseases of the skin and subcutaneous tissue (L00-L99)	10	20	np	4	—	3	—	4
Chapter XIII Diseases of the musculoskeletal system and connective tissue (M00-M99)	24	56	11	32	3	3	5	11
Chapter XIV Diseases of the genitourinary system (N00-N99)	98	132	40	49	11	12	16	20
Chapter XV Pregnancy, childbirth and the puerperium (O00-O99)	—	np	—	np	—	—	—	—
Chapter XVI Certain conditions originating in the perinatal period (P00-P96)(c)	25	16	5	5	10	6	7	6
Chapter XVII Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	22	17	8	9	8	np	8	np

— 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 22 to 29.

1.7 UNDERLYING CAUSE, 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)	136	86	11	17	16	5	5	6
Chapter XX External causes of morbidity and mortality (V01-Y98)(b)	500	230	178	99	114	38	53	33
Transport accidents (V01-V99)	150	51	49	19	25	11	11	7
Falls (W00-W19)	36	33	19	19	3	np	4	np
Intentional self-harm (X60-X84)	156	38	70	18	44	7	19	7

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 22 to 29.

1.8 LEADING CAUSES OF DEATH (ISDR) 2004(a), Selected countries of birth

<i>Underlying Cause of Death</i>	<i>Australia(b)</i>	<i>China(c)</i>	<i>Germany</i>	<i>Greece</i>	<i>India</i>	<i>Indonesia</i>	<i>Italy</i>	<i>Lebanon</i>
MALES (RATE)								
Malignant neoplasms (C00-C97)	233	170	231	177	125	169	215	191
Ischaemic heart diseases (I20-I25)	155	72	180	100	150	117	124	208
Cerebrovascular diseases (I60-I69)	60	53	63	47	50	63	48	26
Chronic lower respiratory diseases (J40-J47)	38	21	np	13	23	11	24	23
Accidents (V01-X59)(d)	35	17	46	29	12	13	29	29
All Causes	785	507	830	586	552	548	679	698
FEMALES (RATE)								
Malignant neoplasms (C00-C97)	146	123	152	112	118	102	111	120
Ischaemic heart diseases (I20-I25)	92	56	77	69	95	61	76	83
Cerebrovascular diseases (I60-I69)	56	67	66	35	55	48	42	53
Chronic lower respiratory diseases (J40-J47)	23	8	np	8	14	15	8	9
Accidents (V01-X59)(d)	17	20	19	13	26	17	16	5
All Causes	530	414	527	389	469	377	439	409
PERSONS (RATE)								
Malignant neoplasms (C00-C97)	183	145	186	145	121	134	164	158
Ischaemic heart diseases (I20-I25)	116	63	117	84	119	87	99	146
Cerebrovascular diseases (I60-I69)	57	61	65	41	53	55	45	40
Chronic lower respiratory diseases (J40-J47)	29	14	17	10	18	13	16	16
Accidents (V01-X59)(d)	25	18	30	20	19	15	23	17
All Causes	633	454	649	487	506	458	557	557
PERSONS (NUMBER)								
Total deaths	92 715	923	1 534	1 342	596	183	3 702	381

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

(a) ISDR per 100,000 population. Standardised using age-specific death rates for the 2004 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 22 to 29.

1.8 LEADING CAUSES OF DEATH (ISDR) 2004(a), Selected countries of birth *continued*

<i>Underlying Cause of Death</i>	<i>Netherlands</i>	<i>New Zealand</i>	<i>Philippines</i>	<i>United Kingdom</i>	<i>United States of America</i>	<i>Viet Nam</i>	<i>Total overseas born</i>	<i>Total Australia</i>
MALES (RATE)								
Malignant neoplasms (C00-C97)	255	215	120	235	223	147	217	227
Ischaemic heart diseases (I20-I25)	150	151	103	144	185	48	147	152
Cerebrovascular diseases (I60-I69)	40	67	106	52	62	48	54	58
Chronic lower respiratory diseases (J40-J47)	36	25	np	41	16	17	31	36
Accidents (V01-X59)(b)	26	46	28	34	59	35	33	34
All Causes	765	779	517	769	789	437	739	770
FEMALES (RATE)								
Malignant neoplasms (C00-C97)	134	136	93	153	130	89	136	143
Ischaemic heart diseases (I20-I25)	78	82	39	92	109	28	84	90
Cerebrovascular diseases (I60-I69)	42	48	40	52	55	30	51	55
Chronic lower respiratory diseases (J40-J47)	18	22	np	28	16	5	18	21
Accidents (V01-X59)(b)	28	15	12	20	25	8	18	18
All Causes	456	449	302	561	508	292	497	520
PERSONS (RATE)								
Malignant neoplasms (C00-C97)	194	174	101	191	182	116	175	181
Ischaemic heart diseases (I20-I25)	110	112	57	114	151	37	112	115
Cerebrovascular diseases (I60-I69)	41	56	59	52	58	38	52	56
Chronic lower respiratory diseases (J40-J47)	27	23	12	34	16	10	24	27
Accidents (V01-X59)(b)	27	30	17	26	43	20	25	25
All Causes	599	601	365	652	664	356	607	625
PERSONS (NUMBER)								
Total deaths	1 358	1 715	253	14 415	307	415	39 793	132 508

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

(a) ISDR per 100,000 population. Standardised using age-specific death rates for the 2004 standard population.

(b) For information about data quality and breaks in series refer to Explanatory Notes paragraphs 22 to 29.

1.9 UNDERLYING CAUSE, Standardised death rates(a)

Cause of death and ICD code	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT
1994								
All causes	816.6	798.9	822.7	810.6	769.0	907.7	1 226.5	758.4
Malignant neoplasms (C00-C97)	205.7	214.8	207.3	208.9	207.3	227.0	261.6	204.5
Trachea, bronchus and lung (C33, C34)	40.0	42.5	39.9	40.8	41.7	42.3	90.3	33.0
Diabetes mellitus (E10-E14)	12.8	23.6	16.2	18.4	18.2	20.3	44.6	20.2
Mental and behavioural disorders (F00-F99)	19.6	22.5	17.8	21.3	17.7	20.5	16.8	18.1
Disease of the nervous system (G00-G99)	20.0	20.2	14.7	18.9	19.2	19.7	19.5	14.5
Diseases of the circulatory system (I00-I99)	376.2	343.0	370.6	368.6	331.0	393.2	468.5	339.7
Ischaemic heart diseases (I20-I25)	201.6	186.3	217.3	206.2	186.8	212.9	206.9	176.1
Acute myocardial infarction (I21)	126.3	115.3	133.2	133.7	105.5	131.7	110.2	105.7
Cerebrovascular diseases (I60-I69)	92.3	80.2	85.4	85.8	82.8	89.0	113.6	81.4
Diseases of arteries, arterioles and capillaries (I70-I79)	21.6	19.1	19.3	20.5	18.1	26.6	30.2	17.5
Diseases of the respiratory system (J00-J99)	62.4	64.4	68.6	61.5	59.1	81.3	166.5	54.6
Influenza and pneumonia (J10-J18)	11.0	11.5	15.8	13.5	13.5	17.9	64.5	6.6
Chronic lower respiratory diseases (J40-J47)	42.0	45.2	42.6	38.9	36.6	54.3	89.2	43.0
Diseases of the digestive system (K00-K93)	24.0	24.3	25.8	26.2	25.6	29.2	31.6	24.6
Accidents (V01-X59)(b)	25.3	21.8	31.0	26.7	30.2	33.3	64.3	21.3
Transport accidents (V01-V99)	11.5	10.4	14.6	11.9	14.3	13.5	27.8	10.1
Intentional self-harm (X60-X84)(b)	12.9	11.4	14.5	11.6	12.8	15.2	14.2	10.9
2004								
All causes	632.0	603.6	646.6	618.1	597.0	710.6	822.4	562.3
Malignant neoplasms (C00-C97)	180.6	178.9	183.9	178.1	176.2	213.9	166.8	157.1
Trachea, bronchus and lung (C33, C34)	34.8	33.5	36.5	33.9	35.1	36.8	36.3	24.9
Diabetes mellitus (E10-E14)	14.1	19.9	16.3	15.3	18.5	25.9	44.0	17.7
Mental and behavioural disorders (F00-F99)	16.0	17.1	15.2	14.7	13.0	17.6	35.8	17.2
Disease of the nervous system (G00-G99)	20.9	20.6	21.6	19.5	26.2	30.1	10.9	28.6
Diseases of the circulatory system (I00-I99)	233.0	206.8	238.8	217.6	199.9	232.0	261.9	192.5
Ischaemic heart diseases (I20-I25)	117.4	106.1	130.0	113.0	105.0	119.8	145.6	86.1
Acute myocardial infarction (I21)	61.2	53.3	69.1	62.3	56.5	52.7	48.2	31.8
Cerebrovascular diseases (I60-I69)	60.9	50.8	60.8	53.0	49.1	47.2	41.3	61.1
Diseases of arteries, arterioles and capillaries (I70-I79)	11.8	11.1	12.0	11.3	9.6	19.0	14.8	10.7
Diseases of the respiratory system (J00-J99)	56.8	51.1	54.5	61.0	48.4	56.9	79.9	44.8
Influenza and pneumonia (J10-J18)	16.1	12.8	16.2	24.7	13.9	10.5	16.8	12.1
Chronic lower respiratory diseases (J40-J47)	26.9	28.2	28.9	23.1	23.4	37.8	51.9	24.8
Diseases of the digestive system (K00-K93)	21.6	20.2	22.1	22.4	21.5	18.1	43.2	20.5
Accidents (V01-X59)(b)	23.8	24.3	28.6	25.0	24.1	33.9	38.4	17.6
Transport accidents (V01-V99)	6.7	7.8	9.4	9.7	10.1	14.2	16.7	5.4
Intentional self-harm (X60-X84)(b)	8.6	10.4	11.7	11.5	9.8	18.7	25.4	7.8

(a) Standardised death rate per 100,000 of the mid year 2002 population. See Glossary for further explanation.

(b) For information about data quality and breaks in series refer to Explanatory Notes paragraphs 22 to 29.

1.10 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	288	202	490	100.0	23 314	22 289	45 603	100.0
Malignant neoplasms (C00-C97)	60	36	96	19.6	7 237	5 672	12 909	28.3
Digestive organs (C15-C26)	18	10	28	5.7	1 926	1 525	3 451	7.6
Trachea, bronchus, lung (C33, C34)	19	12	31	6.3	1 619	836	2 455	5.4
Diabetes mellitus (E10-E14)	14	13	27	5.5	560	447	1 007	2.2
Mental and behavioural disorders (F00-F99)	6	3	9	1.8	453	731	1 184	2.6
Diseases of the circulatory system (I00-I99)	96	56	152	31.0	8 137	8 987	17 124	37.6
Ischaemic heart diseases (I20-I25)	64	31	95	19.4	4 542	4 030	8 572	18.8
Cerebrovascular diseases (I60-I69)	11	8	19	3.9	1 834	2 698	4 532	9.9
Diseases of the respiratory system (J00-J99)	23	24	47	9.6	2 072	2 066	4 138	9.1
Chronic lower respiratory diseases (J40-J47)	12	17	29	5.9	1 026	909	1 935	4.2
Diseases of the digestive system (K00-K93)	13	12	25	5.1	818	723	1 541	3.4
Diseases of liver (K70-K77)	8	4	12	2.4	346	131	477	1.0
Certain conditions originating in the perinatal period (P00-P96)(c)	5	4	9	1.8	94	76	170	0.4
Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	np	np	5	1.0	np	np	199	0.4
All other medical conditions (Remainder of A00-R99)	27	32	59	12.0	2 301	2 664	4 965	10.9
External causes of morbidity and mortality (V01-Y98)(c)	42	19	61	12.4	1 543	823	2 366	5.2
Transport accidents (V01-V99)	6	6	12	2.4	322	115	437	1.0
Intentional self-harm (X60-X84)	np	np	15	3.1	np	np	562	1.2
Assault (X85-Y09)	np	np	8	1.6	np	np	52	0.1
Other external causes (remainder of V01-Y98)	16	10	26	5.3	746	569	1 315	2.9

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 22 to 29.

1.10 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	324	255	579	100.0	12 520	11 048	23 568	100.0
Malignant neoplasms (C00-C97)	45	64	109	18.8	3 974	2 856	6 830	29.0
Digestive organs (C15-C26)	12	16	28	4.8	1 015	787	1 802	7.6
Trachea, bronchus, lung (C33, C34)	13	12	25	4.3	884	468	1 352	5.7
Diabetes mellitus (E10-E14)	33	21	54	9.3	286	262	548	2.3
Mental and behavioural disorders (F00-F99)	4	5	9	1.6	224	332	556	2.4
Diseases of the circulatory system (I00-I99)	92	70	162	28.0	4 267	4 434	8 701	36.9
Ischaemic heart diseases (I20-I25)	60	40	100	17.3	2 533	2 200	4 733	20.1
Cerebrovascular diseases (I60-I69)	16	15	31	5.4	931	1 286	2 217	9.4
Diseases of the respiratory system (J00-J99)	21	15	36	6.2	1 060	919	1 979	8.4
Chronic lower respiratory diseases (J40-J47)	12	8	20	3.5	597	453	1 050	4.5
Diseases of the digestive system (K00-K93)	17	13	30	5.2	409	395	804	3.4
Diseases of liver (K70-K77)	8	6	14	2.4	148	76	224	1.0
Certain conditions originating in the perinatal period (P00-P96)(c)	13	3	16	2.8	59	49	108	0.5
Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	5	4	9	1.6	52	49	101	0.4
All other medical conditions (Remainder of A00-R99)	40	37	77	13.3	1 123	1 275	2 398	10.2
External causes of morbidity and mortality (V01-Y98)(c)	54	23	77	13.3	1 066	477	1 543	6.5
Transport accidents (V01-V99)	9	3	12	2.1	254	86	340	1.4
Intentional self-harm (X60-X84)	18	3	21	3.6	351	76	427	1.8
Assault (X85-Y09)	—	np	np	0.3	18	np	np	0.1
Other external causes (remainder of V01-Y98)	27	15	42	7.3	443	306	749	3.2

— 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 22 to 29.

1.10UNDERLYING 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	62	69	131	100.0	5 780	5 523	11 303	100.0
Malignant neoplasms (C00-C97)	9	8	17	13.0	1 808	1 433	3 241	28.7
Digestive organs (C15-C26)	4	—	4	3.1	530	421	951	8.4
Trachea, bronchus, lung (C33, C34)	np	np	4	3.1	np	np	614	5.4
Diabetes mellitus (E10-E14)	np	np	8	6.1	np	np	282	2.5
Mental and behavioural disorders (F00-F99)	np	—	np	np	np	np	np	np
Diseases of the circulatory system (I00-I99)	22	28	50	38.2	1 962	2 133	4 095	36.2
Ischaemic heart diseases (I20-I25)	12	16	28	21.4	1 118	997	2 115	18.7
Cerebrovascular diseases (I60-I69)	np	np	8	6.1	np	np	1 016	9.0
Diseases of the respiratory system (J00-J99)	7	5	12	9.2	609	545	1 154	10.2
Chronic lower respiratory diseases (J40-J47)	np	np	5	3.8	np	np	429	3.8
Diseases of the digestive system (K00-K93)	4	5	9	6.9	183	216	399	3.5
Diseases of liver (K70-K77)	np	np	5	3.8	np	np	117	1.0
Certain conditions originating in the perinatal period (P00-P96)(c)	np	np	np	np	np	np	np	np
Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	np	np	np	np	np	np	np	np
All other medical conditions (Remainder of A00-R99)	3	9	12	9.2	570	636	1 206	10.7
External causes of morbidity and mortality (V01-Y98)(c)	12	6	18	13.7	397	198	595	5.3
Transport accidents (V01-V99)	4	—	4	3.1	109	31	140	1.2
Intentional self-harm (X60-X84)	3	4	7	5.3	127	28	155	1.4
Assault (X85-Y09)	—	—	—	—	np	np	9	0.1
Other external causes (remainder of V01-Y98)	np	np	7	5.3	np	np	291	2.6
WESTERN AUSTRALIA								
All Causes	229	171	400	100.0	5 573	5 131	10 704	100.0
Malignant neoplasms (C00-C97)	33	28	61	15.3	1 824	1 435	3 259	30.4
Digestive organs (C15-C26)	11	6	17	4.3	491	356	847	7.9
Trachea, bronchus, lung (C33, C34)	9	6	15	3.8	402	240	642	6.0
Diabetes mellitus (E10-E14)	17	19	36	9.0	152	155	307	2.9
Mental and behavioural disorders (F00-F99)	4	3	7	1.8	83	147	230	2.1
Diseases of the circulatory system (I00-I99)	49	44	93	23.3	1 783	1 806	3 589	33.5
Ischaemic heart diseases (I20-I25)	34	14	48	12.0	1 033	852	1 885	17.6
Cerebrovascular diseases (I60-I69)	7	16	23	5.8	350	531	881	8.2
Diseases of the respiratory system (J00-J99)	17	22	39	9.8	446	408	854	8.0
Chronic lower respiratory diseases (J40-J47)	6	8	14	3.5	221	197	418	3.9
Diseases of the digestive system (K00-K93)	16	12	28	7.0	183	193	376	3.5
Diseases of liver (K70-K77)	13	9	22	5.5	83	40	123	1.1
Certain conditions originating in the perinatal period (P00-P96)(c)	np	np	4	1.0	np	np	37	0.3
Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	np	np	3	0.8	np	np	35	0.3
All other medical conditions (Remainder of A00-R99)	51	25	76	19.0	619	749	1 368	12.8
External causes of morbidity and mortality (V01-Y98)(c)	39	14	53	13.3	440	209	649	6.1
Transport accidents (V01-V99)	16	5	21	5.3	130	42	172	1.6
Intentional self-harm (X60-X84)	np	np	16	4.0	np	np	166	1.6
Assault (X85-Y09)	np	np	np	np	np	np	np	np
Other external causes (remainder of V01-Y98)	8	6	14	3.5	173	127	300	2.8

— 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 22 to 29.

1.10 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	%
NORTHERN TERRITORY								
All Causes	257	192	449	100.0	302	134	436	100.0
Malignant neoplasms (C00-C97)	26	26	52	11.6	78	38	116	26.6
Digestive organs (C15-C26)	9	8	17	3.8	17	16	33	7.6
Trachea, bronchus, lung (C33, C34)	np	np	12	2.7	np	np	26	6.0
Diabetes mellitus (E10-E14)	10	16	26	5.8	14	4	18	4.1
Mental and behavioural disorders (F00-F99)	8	6	14	3.1	5	3	8	1.8
Diseases of the circulatory system (I00-I99)	72	50	122	27.2	75	46	121	27.8
Ischaemic heart diseases (I20-I25)	42	25	67	14.9	51	24	75	17.2
Cerebrovascular diseases (I60-I69)	8	5	13	2.9	5	11	16	3.7
Diseases of the respiratory system (J00-J99)	23	22	45	10.0	22	7	29	6.7
Chronic lower respiratory diseases (J40-J47)	12	10	22	4.9	16	6	22	5.0
Diseases of the digestive system (K00-K93)	19	19	38	8.5	15	4	19	4.4
Diseases of liver (K70-K77)	np	np	29	6.5	np	np	10	2.3
Certain conditions originating in the perinatal period (P00-P96)(c)	np	np	10	2.2	np	np	6	1.4
Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	np	np	np	np	np	—	np	np
All other medical conditions (Remainder of A00-R99)	36	24	60	13.4	29	18	47	10.8
External causes of morbidity and mortality (V01-Y98)(c)	54	23	77	17.1	59	12	71	16.3
Transport accidents (V01-V99)	np	np	18	4.0	np	np	17	3.9
Intentional self-harm (X60-X84)	np	np	24	5.3	np	np	26	6.0
Assault (X85-Y09)	np	np	8	1.8	np	np	4	0.9
Other external causes (remainder of V01-Y98)	17	10	27	6.0	20	4	24	5.5

AUSTRALIA (d)

All Causes(e)	1 208	928	2 136	100.0	66 246	62 328	128 574	100.0
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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) 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 22 to 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 as Indigenous across states and territories and is likely to understate the total of actual Indigenous deaths.

1.11

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	615 527	339 226	100.0	100.0	100.0	100.0
Chapter I Certain infectious and parasitic diseases (A00-B99)	10 813	5 041	1.4	1.4	1.8	1.5
Human immunodeficiency virus (HIV) disease (B20-B24)(c)	3 275	252	0.3	—	0.5	0.1
Chapter II Neoplasms (C00-D48)	189 550	149 750	38.1	44.1	30.8	44.1
Malignant neoplasms (C00-C97)	186 892	147 899	37.5	43.5	30.4	43.6
Digestive Organs (C15-C26)	54 904	31 598	10.9	10.9	8.9	9.3
Trachea, bronchus and lung (C33-C34)	39 229	21 267	9.0	7.3	6.4	6.3
Breast (C50)	165	33 846	—	8.1	—	10.0
Prostate (C61)	9 940	—	3.3	—	1.6	—
Lymphoid, haematopoietic and related tissue (C81-C96)	19 733	13 151	3.6	4.1	3.2	3.9
Chapter IV Endocrine, nutritional and metabolic diseases (E00-E90)	18 779	11 647	3.8	4.2	3.1	3.4
Diabetes mellitus (E10-E14)	12 160	6 881	2.8	2.9	2.0	2.0
Chapter V Mental and behavioural disorders (F00-F99)	6 602	2 913	1.1	1.2	1.1	0.9
Mental and behavioural disorders due to psychoactive substance use (F10-F19)	4 975	1 708	0.6	0.3	0.8	0.5
Chapter VI Diseases of the nervous system (G00-G99)	18 418	13 803	2.7	3.6	3.0	4.1
Chapter IX Diseases of the circulatory system (I00-I99)	129 911	51 875	27.8	23.0	21.1	15.3
Ischaemic heart disease (I20-I25)	82 564	22 070	17.4	10.8	13.4	6.5
Cerebrovascular diseases (I60-I69)	18 108	13 330	4.7	6.0	2.9	3.9
Diseases of arteries, arterioles and capillaries (I70-I79)	5 483	2 428	1.5	1.3	0.9	0.7
Chapter X Diseases of the respiratory system (J00-J99)	25 165	17 563	6.6	7.7	4.1	5.2
Influenza and pneumonia (J10-J18)	5 183	3 102	1.1	1.2	0.8	0.9
Chronic lower respiratory diseases (J40-J47)	14 204	11 318	4.1	5.1	2.3	3.3
Chapter XI Diseases of the digestive system (K00-K93)	23 760	11 827	3.8	3.4	3.9	3.5
Diseases of liver (K70-K77)	16 703	6 741	2.2	1.4	2.7	2.0
Chapter XIV Diseases of the genitourinary system (N00-N99)	3 388	3 080	1.0	1.6	0.6	0.9
Chapter XVII Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	4 869	4 755	0.3	0.5	0.8	1.4
Chapter XX External causes of morbidity and mortality (V01-Y98)(d)	166 542	54 818	11.6	6.8	27.1	16.2
Accidents (V01-X59)	100 479	34 632	6.8	4.3	16.3	10.2
Transport accidents (V01-V99)	48 412	16 401	3.0	1.7	7.9	4.8
Accidental poisoning by and exposure noxious substances (X40-X84)	20 249	7 280	1.3	0.9	3.3	2.1
Intentional self-harm (X60-X84)	58 019	15 133	4.1	1.7	9.4	4.5

— nil or rounded to zero (including null cells)

(a) YPLL 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 17 for further information.

(d) For information about data quality and breaks in series refer to Explanatory Notes paragraphs 22 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 132,508 deaths registered in 2004, there were 404,366 causes reported giving a mean of 3.1 causes per death. In 19.4% of all deaths, only one cause was reported, whereas 56.3% 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 2004, Malignant neoplasms represented 28.7% of all underlying cause of death. When associated causes were included it contributed 39.4% of all deaths as an underlying or associated cause. Similarly, 18.5% of all deaths had Ischaemic heart diseases as the underlying cause, but it was found to contribute to 35.5% 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 2004, and their corresponding ranking in terms of underlying causes.

SELECTED MULTIPLE CAUSES OF DEATH

Cause of death and ICD code	MULTIPLE CAUSES(a)			UNDERLYING CAUSE	
	no	%	rank	%	rank
Malignant neoplasms (C00-C97)	52 217	39.4	1	28.7	1
Ischaemic heart disease (I20-I25)	46 985	35.5	2	18.5	2
Cerebrovascular diseases (I60-I69)	23 359	17.6	3	9.1	3
Influenza and pneumonia (J10-J18)	18 305	13.8	4	2.6	7
Heart Failure (I50)	16 837	12.7	5	1.7	10
Hypertensive diseases (I10-I15)	15 605	11.8	6	1.0	16
Renal failure (N17-N19)	15 235	11.5	7	1.4	12
Chronic lower respiratory diseases (J40-J47)	14 190	10.7	8	4.4	4
Organic, including symptomatic, mental disorders (F00-F09)	11 843	8.9	9	2.2	8
Diabetes mellitus (E10-E14)	11 749	8.9	10	2.7	6
Deaths from all causes	132 508	100.0	—	100.0	—

— nil or rounded to zero (including null cells)

(a) Number of deaths and percentages may add to more than totals because a death certificate can report more than one leading multiple cause.

RELATIONSHIP OF
CAUSES

The following table illustrates relationships between the various causes of death in 2004. Malignant neoplasms, the most prevalent underlying cause (37,989 deaths), was reported alone in 37.5% 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 8.8% (1,895) of deaths attributed to this cause. It was reported more frequently with associated causes of Ischaemic heart diseases and Heart failure.

SELECTED UNDERLYING CAUSES WITH ASSOCIATE CAUSE(a)

SELECTED UNDERLYING CAUSE	REPORTED WITH SELECTED ASSOCIATED CAUSE								
	Total no of deaths	Reported alone	Malignant neoplasms (C00-C97)	Ischaemic heart diseases (I20-I25)	Cerebrovascular 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)	37 989	37.5	—	7.9	3.8	6.0	7.9	3.6	6.2
Ischaemic heart diseases (I20-I25)	24 576	11.6	6.0	—	10.0	10.1	5.7	23.5	10.9
Cerebrovascular diseases (I60-I69)	12 041	15.3	4.9	10.8	—	3.6	15.8	5.0	4.5
Chronic lower respiratory diseases (J40-J47)	5 785	7.2	8.3	19.4	5.5	—	32.5	15.4	8.0
Influenza and pneumonia (J10-J18)	3 381	31.3	0.9	15.6	2.2	1.4	—	10.9	9.8
Heart failure (I50)	2 279	12.7	5.5	—	9.6	11.8	23.7	—	20.9
Renal failure (N17-N19)	1 895	8.8	4.9	27.7	8.7	6.6	13.5	28.8	—

— nil or rounded to zero (including null cells)

(a) This table presents data for selected causes only. Therefore numbers and percentages due to reporting of underlying cause with selected associated causes do not add to totals.

EXTERNAL CAUSES

In 2004, there were 7,966 deaths due to External causes, with an average of 3.3 causes coded per each of these deaths. Deaths as a result of Accidental falls averaged 4.2 multiple causes, reflecting the number of injuries sustained. In 2004, Transport accidents accounted for 24.3% of all injuries reported for deaths due to External causes, with 42.7% of these injuries being to the head or thorax. Intentional self-harm accounted for 23.3% of total injuries due to External causes, and of these injuries, Asphyxiation was the most common (39.8%).

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	25 707	32 001	29 606	21 132	24 062	3.1
CHAPTER I Certain infectious and parasitic diseases (A00-B99)	188	393	419	319	488	3.6
Septicaemia (A40, A41)	92	240	248	177	280	3.6
Human immunodeficiency virus (HIV) disease (B20-B24)	49	32	12	4	3	1.8
CHAPTER II Neoplasms (C00-D48)	14 405	9 250	7 034	4 123	4 041	2.4
Malignant neoplasms (C00-C97)	14 256	9 081	6 843	3 983	3 826	2.4
Digestive Organs (C15-C26)	4 371	2 390	1 776	973	924	2.3
Oesophagus (C15)	461	261	199	86	86	2.2
Stomach (C16)	505	256	183	99	106	2.2
Colon (C18)	1 149	646	488	252	249	2.3
Rectosigmoid junction, rectum, anus and anal canal (C19-C21)	580	271	205	140	146	2.4
Liver and intrahepatic bile ducts (C22)	296	211	172	120	93	2.5
Pancreas (C25)	958	458	294	161	107	2.0
Trachea, bronchus and lung (C33-C34)	2 508	1 948	1 339	792	677	2.4
Melanoma of skin (C43)	524	316	170	104	95	2.2
Breast (C50)	1 145	601	426	275	214	2.2
Female genital organs (C51-C58)	686	345	219	122	124	2.2
Ovary (C56)	415	196	129	59	52	2.1
Male genital organs (C60-C63)	968	677	534	303	307	2.5
Prostate (C61)	960	670	526	302	303	2.5
Urinary tract (C64-C68)	618	412	327	228	233	2.6
Kidney, except renal pelvis (C64)	310	176	149	106	101	2.5
Bladder (C67)	286	220	167	116	121	2.6
Brain (C71)	657	237	121	36	30	1.7
Lymphoid, haematopoietic and related tissue (C81-C96)	963	886	878	527	566	2.8
Leukaemia (C91-C95)	308	348	356	217	219	2.9
In situ and benign neoplasms and neoplasms of uncertain or unknown behaviour (D00-D48)	149	169	191	140	215	3.3
CHAPTER III Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50-D89)	15	62	113	95	200	4.3
CHAPTER IV Endocrine, nutritional and metabolic diseases (E00-E90)	87	457	1 286	1 373	1 865	4.2
Diabetes mellitus (E10-E14)	49	329	941	1 011	1 269	4.2
CHAPTER V Mental and behavioural disorders (F00-F99)	448	1 140	856	498	472	2.9
Organic, including symptomatic, mental disorders (F00-F09)	413	1 059	720	379	308	2.8
CHAPTER VI Diseases of the nervous system (G00-G99)	813	1 344	1 139	668	597	2.9
Alzheimer's disease (G30)	391	576	423	214	162	2.6
CHAPTER VII Diseases of the eye and adnexa (H00-H59)	—	np	np	np	4	4.7
CHAPTER VIII Diseases of the ear and mastoid process (H60-H95)	—	np	np	np	3	3.7
CHAPTER IX Diseases of the circulatory system (I00-I99)	6 018	10 703	12 073	9 014	9 829	3.3
All heart disease (I05-I09, I11, I13, I20-I25, I26, I27, I30-I52)	3 809	6 711	8 062	6 351	7 205	3.4
Acute rheumatic fever and chronic rheumatic heart diseases (I00-I09)	9	30	60	56	102	4.2
Hypertensive diseases (I10-I15)	170	327	355	251	237	3.2
Ischaemic heart disease (I20-I25)	2 860	4 998	6 155	4 964	5 599	3.4
Acute myocardial infarction (I21)	950	2 940	3 485	2 637	2 745	3.4
Pulmonary heart disease and diseases of pulmonary circulation and other forms of heart disease (I26-I52)	819	1 501	1 679	1 234	1 414	3.3
Heart Failure (I50)	290	632	628	391	338	3.0
Cerebrovascular diseases (I60-I69)	1 843	3 117	3 191	2 035	1 855	3.0
Diseases of arteries, arterioles and capillaries (I70-I79)	311	614	566	435	551	3.3
Atherosclerosis (I70)	15	115	104	71	51	3.2
Aortic aneurysm and dissection (I71)	277	374	266	189	208	2.9

— nil or rounded to zero (including null cells)

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

2.1UNDERLYING 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)	1 795	2 824	2 878	2 041	2 102	3.1
Influenza and pneumonia (J10-J18)	1 058	979	741	348	255	2.4
Chronic lower respiratory diseases (J40-J47)	419	1 260	1 547	1 226	1 333	3.5
Emphysema (J43)	54	160	191	130	110	3.2
Asthma and status asthmaticus (J45, J46))	48	55	82	61	67	3.3
CHAPTER XI Diseases of the digestive system (K00-K93)	466	848	1 067	867	1 305	3.7
Diseases of oesophagus, stomach and duodenum (K20-K31)	59	108	135	111	158	3.6
Gastric and duodenal ulcer (K25-K27)	56	86	85	56	77	3.2
Diseases of liver (K70-K77)	171	310	339	234	332	3.4
CHAPTER XII Diseases of the skin and subcutaneous tissue (L00-L99)	3	47	75	75	137	4.3
CHAPTER XIII Diseases of the musculoskeletal system and connective tissue (M00-M99)	28	166	237	237	371	4.1
Arthropathies and systemic connective tissue disorders (M00-M36)	23	107	144	135	198	3.9
CHAPTER XIV Diseases of the genitourinary system (N00-N99)	189	494	746	633	914	3.9
Renal failure (N17-N19)	166	338	463	379	549	3.7
CHAPTER XV Pregnancy, childbirth and the puerperium (O00-O99)	np	3	np	np	—	2.2
CHAPTER XVI Certain conditions originating in the perinatal period (P00-P96)	237	165	81	45	32	2.1
Fetus and newborn affected by maternal factors and by complications of pregnancy, labour and delivery (P00-P04)(a)	82	83	45	19	15	2.2
CHAPTER XVII Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	106	165	139	81	90	2.9
Congenital malformations of the circulatory system (Q20-Q28)	44	46	47	23	39	3.0
CHAPTER XVIII Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00-R99)	897	85	np	np	—	1.1
CHAPTER XX External causes of morbidity and mortality (V01-Y98)	8	3 851	1 440	1 055	1 612	3.3
Accidents (V01-X59)	4	2 120	983	794	1 308	3.5
Transport accidents (V01-V99)(a)	4	1 045	340	152	148	2.8
Falls (W00-W19)(a)	—	175	173	194	331	4.2
Accidental drowning and submersion (W65-W74)	—	121	42	24	10	2.7
Intentional self-harm (X60-X84)(a)	3	1 541	335	135	84	2.4
Hanging, strangulation and suffocation (X70)	—	768	159	52	19	2.3
Assault (X85-Y09)(a)	np	103	39	np	6	2.5

— 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 2004. See Explanatory notes, paragraphs ? - ? for further information.

2.2 UNDERLYING AND MULTIPLE CAUSE DEATH MENTIONS, 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	68 395	64 113	132 508	199 033	190 627	389 660	2.9
CHAPTER I Certain infectious and parasitic diseases (A00-B99)	965	842	1 807	5 221	4 650	9 871	5.5
Septicaemia (A40, A41)	512	525	1 037	3 895	3 729	7 624	7.4
Human immunodeficiency virus (HIV) disease (B20-B24)	94	6	100	115	9	124	1.2
CHAPTER II Neoplasms (C00-D48)	21 831	17 022	38 853	30 722	23 404	54 126	1.4
Malignant neoplasms (C00-C97)	21 383	16 606	37 989	29 693	22 524	52 217	1.4
Digestive Organs (C15-C26)	5 843	4 591	10 434	6 563	5 128	11 691	1.1
Oesophagus (C15)	772	321	1 093	829	349	1 178	1.1
Stomach (C16)	715	434	1 149	780	470	1 250	1.1
Colon (C18)	1 432	1 352	2 784	1 655	1 545	3 200	1.1
Rectosigmoid junction, rectum, anus and anal canal (C19-C21)	783	559	1 342	907	635	1 542	1.1
Liver and intrahepatic bile ducts (C22)	560	332	892	618	348	966	1.1
Pancreas (C25)	1 015	963	1 978	1 055	1 001	2 056	1.0
Trachea, bronchus and lung (C33,C34)	4 733	2 531	7 264	5 092	2 674	7 766	1.1
Melanoma of skin (C43)	821	388	1 209	907	428	1 335	1.1
Breast (C50)	20	2 641	2 661	30	3 318	3 348	1.3
Female genital organs (C51-C58)	—	1 496	1 496	—	1 664	1 664	1.1
Ovary (C56)	—	851	851	—	902	902	1.1
Male genital organs (C60-C63)	2 789	—	2 789	4 100	—	4 100	1.5
Prostate (C61)	2 761	—	2 761	4 061	—	4 061	1.5
Urinary tract (C64-C68)	1 129	689	1 818	1 445	809	2 254	1.2
Kidney, except renal pelvis (C64)	491	351	842	581	400	981	1.2
Bladder (C67)	602	308	910	823	377	1 200	1.3
Brain (C71)	634	447	1 081	656	463	1 119	1.0
Lymphoid, haematopoietic and related tissue (C81-C96)	2 096	1 724	3 820	2 661	2 119	4 780	1.3
Leukaemia (C91-C95)	842	606	1 448	1 099	775	1 874	1.3
In situ and benign neoplasms and neoplasms of uncertain or unknown behaviour (D00-D48)	448	416	864	1 029	880	1 909	2.2
CHAPTER III Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50-D89)	222	263	485	2 040	2 036	4 076	8.4
CHAPTER IV Endocrine, nutritional and metabolic diseases (E00-E90)	2 553	2 515	5 068	9 803	9 953	19 756	3.9
Diabetes mellitus (E10-E14)	1 869	1 730	3 599	6 259	5 490	11 749	3.3
CHAPTER V Mental and behavioural disorders (F00-F99)	1 234	2 180	3 414	8 041	9 907	17 948	5.3
Organic, including symptomatic, mental disorders (F00-F09)	904	1 975	2 879	4 331	7 512	11 843	4.1
CHAPTER VI Diseases of the nervous system (G00-G99)	2 046	2 515	4 561	6 057	6 272	12 329	2.7
Alzheimer's disease (G30)	533	1 233	1 766	1 201	2 442	3 643	2.1
CHAPTER VII Diseases of the eye and adnexa (H00-H59)	np	np	9	173	265	438	48.7
CHAPTER VIII Diseases of the ear and mastoid process (H60-H95)	np	np	10	48	55	103	10.3

— 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 CAUSE DEATH MENTIONS, 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)	22 921	24 716	47 637	71 282	72 953	144 235	3.0
All heart disease (I05-I09, I11,I13, I20-I25,I26, I27, I30-I52)	16 442	15 696	32 138	49 088	45 690	94 778	2.9
Acute rheumatic fever and chronic rheumatic heart diseases (I00-I09)	83	174	257	252	417	669	2.6
Hypertensive diseases (I10-I15))	503	837	1 340	6 641	8 964	15 605	11.6
Ischaemic heart disease (I20-I25)	13 152	11 424	24 576	25 842	21 143	46 985	1.9
Acute myocardial infarction (I21)	6 666	6 091	12 757	8 848	7 815	16 663	1.3
Pulmonary heart disease and diseases of pulmonary circulation and other forms of heart disease (I26-I52)	2 973	3 674	6 647	22 610	23 606	46 216	7.0
Heart Failure (I50)	883	1 396	2 279	7 583	9 254	16 837	7.4
Cerebrovascular diseases (I60-I69)	4 826	7 215	12 041	10 037	13 322	23 359	1.9
Diseases of arteries, arterioles and capillaries (I70-I79)	1 263	1 214	2 477	4 654	4 315	8 969	3.6
Atherosclerosis (I70)	128	228	356	1 880	2 145	4 025	11.3
Aortic aneurysm and dissection (I71))	773	541	1 314	1 230	792	2 022	1.5
CHAPTER X Diseases of the respiratory system (J00-J99)	6 029	5 611	11 640	28 090	24 159	52 249	4.5
Influenza and pneumonia (J10-J18)	1 498	1 883	3 381	9 058	9 247	18 305	5.4
Chronic lower respiratory diseases (J40-J47)	3 187	2 598	5 785	8 338	5 852	14 190	2.5
Emphysema (J43)	390	255	645	1 028	518	1 546	2.4
Asthma and status asthmaticus (J45, J46)	108	205	313	468	740	1 208	3.9
CHAPTER XI Diseases of the digestive system (K00-K93)	2 298	2 255	4 553	7 756	7 229	14 985	3.3
Diseases of oesophagus, stomach and duodenum (K20-K31)	252	319	571	1 057	1 136	2 193	3.8
Gastric and duodenal ulcer (K25-K27)	160	200	360	492	497	989	2.7
Diseases of liver (K70-K77)	954	432	1 386	2 950	1 602	4 552	3.3
CHAPTER XII Diseases of the skin and subcutaneous tissue (L00-L99)	127	210	337	681	988	1 669	5.0
CHAPTER XIII Diseases of the musculoskeletal system and connective tissue (M00-M99)	337	702	1 039	1 969	3 924	5 893	5.7
Arthropathies and systemic connective tissue disorders (M00-M36)	187	420	607	1 126	2 064	3 190	5.3
CHAPTER XIV Diseases of the genitourinary system (N00-N99)	1 342	1 634	2 976	9 798	9 252	19 050	6.4
Renal failure (N17-N19)	928	967	1 895	8 117	7 118	15 235	8.0
CHAPTER XV Pregnancy, childbirth and the puerperium (O00-O99)	—	11	11	—	30	30	2.7
CHAPTER XVI Certain conditions originating in the perinatal period (P00-P96)	319	241	560	744	548	1 292	2.3
Fetus and newborn affected by maternal factors and by complications of pregnancy, labour and delivery (P00-P04)(c)	134	110	244	218	192	410	1.7
CHAPTER XVII Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	305	276	581	577	493	1 070	1.8
Congenital malformations of the circulatory system (Q20-Q28)	104	95	199	168	168	336	1.7
CHAPTER XVIII Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00-R99)	573	428	1 001	7 697	9 114	16 811	16.8

— 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 this cause for 2004. See Explanatory notes, paragraphs ? - ? for further information.

2.2 UNDERLYING AND MULTIPLE CAUSE DEATH MENTIONS, 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)	5 285	2 681	7 966	8 334	5 395	13 729	1.7
Accidents (V01-X59)	3 245	1 964	5 209	4 679	3 428	8 107	1.6
Transport accidents (V01-V99)(c)	1 236	453	1 689	1 260	468	1 728	1.0
Falls (W00-W19)(c)	421	452	873	550	599	1 149	1.3
Accidental drowning and submersion (W65-W74)	146	51	197	163	60	223	1.1
Intentional self-harm (X60-X84)(c)	1 661	437	2 098	1 712	460	2 172	1.0
Hanging, strangulation and suffocation (X70)	822	176	998	823	177	1 000	1.0
Assault (X85-Y09)(c)	103	61	164	106	64	170	1.0

- (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 this cause for 2004. See Explanatory notes, paragraphs ? - ? for further information.

2.3**CAUSES OF DEATH, 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>
<i>Malignant neoplasms (C00-C97)</i>	21 383	100	16 606	100	37 989	100
Reported alone	7 696	36	6 560	40	14 256	38
Reported with						
Septicaemia (A40, A41)	849	4	618	4	1 467	4
Diabetes mellitus (E10-E14)	1 156	5	769	5	1 925	5
Ischaemic heart diseases (I20-I25)	1 937	9	1 058	6	2 995	8
Heart failure (I50)	772	4	603	4	1 375	4
Cerebrovascular diseases (I60-I69)	845	4	584	4	1 429	4
Influenza and pneumonia (J10-J18)	1 838	9	1 178	7	3 016	8
Chronic lower respiratory diseases (J40-J47)	1 513	7	760	5	2 273	6
Diseases of liver (K70-K77)	658	3	459	3	1 117	3
Renal failure (N17-N19)	1 472	7	875	5	2 347	6
<i>Diabetes mellitus (E10-E14)</i>	1 869	100	1 730	100	3 599	100
Reported alone	26	1	23	1	49	1
Reported with						
Septicaemia (A40, A41)	154	8	154	9	308	9
Organic, including symptomatic, mental disorders (F00-F09)	187	10	238	14	425	12
Ischaemic heart diseases (I20-I25)	1 047	56	836	48	1 883	52
Heart failure (I50)	320	17	347	20	667	19
Cerebrovascular diseases (I60-I69)	394	21	416	24	810	23
Influenza and pneumonia (J10-J18)	156	8	164	9	320	9
Chronic lower respiratory diseases (J40-J47)	133	7	89	5	222	6
Renal failure (N17-N19)	477	26	432	25	909	25
<i>Organic, including symptomatic, mental disorders (F00-F09)</i>	904	100	1 975	100	2 879	100
Reported alone	91	10	322	16	413	14
Reported with						
Ischaemic heart diseases (I20-I25)	62	7	106	5	168	6
Heart failure (I50)	51	6	118	6	169	6
Influenza and pneumonia (J10-J18)	390	43	747	38	1 137	39
Renal failure (N17-N19)	57	6	103	5	160	6
<i>Diseases of the nervous system (G00-G99)</i>	2 046	100	2 515	100	4 561	100
Reported alone	309	15	504	20	813	18
Reported with						
Ischaemic heart diseases (I20-I25)	206	10	166	7	372	8
Heart failure (I50)	93	5	120	5	213	5
Cerebrovascular diseases (I60-I69)	198	10	243	10	441	10
Influenza and pneumonia (J10-J18)	554	27	633	25	1 187	26
<i>Ischaemic heart diseases (I20-I25)</i>	13 152	100	11 424	100	24 576	100
Reported alone	1 870	14	990	9	2 860	12
Reported with						
Malignant neoplasms (C00-C97)	945	7	527	5	1 472	6
Diabetes mellitus (E10-E14)	1 405	11	1 079	9	2 484	10
Organic, including symptomatic, mental disorders (F00-F09)	634	5	1 219	11	1 853	8
Diseases of the nervous system (G00-G99)	753	6	700	6	1 453	6
Heart failure (I50)	2 662	20	3 111	27	5 773	23
Cerebrovascular diseases (I60-I69)	1 178	9	1 275	11	2 453	10
Influenza and pneumonia (J10-J18)	688	5	704	6	1 392	6
Chronic lower respiratory diseases (J40-J47)	1 575	12	905	8	2 480	10
Renal failure (N17-N19)	1 454	11	1 232	11	2 686	11

2.3 CAUSES OF DEATH, 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)	883	100	1 396	100	2 279	100
Reported alone	90	10	200	14	290	13
Reported with						
Diabetes mellitus (E10-E14)	52	6	61	4	113	5
Organic, including symptomatic, mental disorders (F00-F09)	73	8	200	14	273	12
Cerebrovascular diseases (I60-I69)	82	9	137	10	219	10
Influenza and pneumonia (J10-J18)	229	26	310	22	539	24
Chronic lower respiratory diseases (J40-J47)	139	16	131	9	270	12
Renal failure (N17-N19)	225	25	251	18	476	21
Cerebrovascular diseases (I60-I69)	4 826	100	7 215	100	12 041	100
Reported alone	661	14	1 182	16	1 843	15
Reported with						
Malignant neoplasms (C00-C97)	335	7	260	4	595	5
Diabetes mellitus (E10-E14)	386	8	458	6	844	7
Diseases of the nervous system (G00-G99)	617	13	708	10	1 325	11
Ischaemic heart diseases (I20-I25)	607	13	697	10	1 304	11
Heart failure (I50)	209	4	392	5	601	5
Influenza and pneumonia (J10-J18)	914	19	988	14	1 902	16
Diseases of arteries, arterioles and capillaries (I70-I79)	1 263	100	1 214	100	2 477	100
Reported alone	184	15	127	10	311	13
Reported with						
Septicaemia (A40, A41)	108	9	125	10	233	9
Hypertensive diseases (I10-I15)	154	12	178	15	332	13
Ischaemic heart diseases (I20-I25)	264	21	164	14	428	17
Heart failure (I50)	127	10	184	15	311	13
Cerebrovascular diseases (I60-I69)	121	10	133	11	254	10
Influenza and pneumonia (J10-J18)	74	6	96	8	170	7
Renal failure (N17-N19)	183	14	163	13	346	14
Influenza and pneumonia (J10-J18)	1 498	100	1 883	100	3 381	100
Reported alone	456	30	602	32	1 058	31
Reported with						
Septicaemia (A40, A41)	183	12	158	8	341	10
Diabetes mellitus (E10-E14)	85	6	92	5	177	5
Ischaemic heart diseases (I20-I25)	262	17	265	14	527	16
Heart failure (I50)	143	10	225	12	368	11
Renal failure (N17-N19)	177	12	153	8	330	10
Chronic lower respiratory diseases (J40-J47)	3 187	100	2 598	100	5 785	100
Reported alone	224	7	195	8	419	7
Reported with						
Malignant neoplasms (C00-C97)	328	10	151	6	479	8
Diabetes mellitus (E10-E14)	215	7	155	6	370	6
Ischaemic heart diseases (I20-I25)	680	21	441	17	1 121	19
Heart failure (I50)	492	15	400	15	892	15
Cerebrovascular diseases (I60-I69)	187	6	133	5	320	6
Influenza and pneumonia (J10-J18)	1 079	34	802	31	1 881	33
Renal failure (N17-N19)	290	9	174	7	464	8
Renal failure (N17-N19)	928	100	967	100	1 895	100
Reported alone	72	8	94	10	166	9
Reported with						
Septicaemia (A40, A41)	132	14	108	11	240	13
Diabetes mellitus (E10-E14)	80	9	98	10	178	9
Ischaemic heart diseases (I20-I25)	279	30	245	25	524	28
Heart failure (I50)	279	30	267	28	546	29
Cerebrovascular diseases (I60-I69)	88	9	76	8	164	9
Influenza and pneumonia (J10-J18)	136	15	120	12	256	14

2.4

CAUSES OF DEATH, Associated cause and underlying cause

Multiple cause/underlying cause and ICD code	MALES		FEMALES		PERSONS	
	no.	%	no.	%	no.	%
Septicaemia (A40-A41)	3 888	100.0	3 727	100.0	7 615	100
Reported as an underlying cause	512	13.2	525	14.1	1 037	14
Reported in association with an underlying cause of						
Malignant neoplasms (C00-C97)	849	21.8	618	16.6	1 467	19
Diabetes mellitus (E10-E14)	154	4.0	154	4.1	308	4
Ischaemic heart diseases (I20-I25)	212	5.5	179	4.8	391	5
Cerebrovascular diseases (I60-I69)	125	3.2	119	3.2	244	3
Influenza and pneumonia (J10-J18)	183	4.7	158	4.2	341	4
Malignant neoplasms (C00-C97)	24 434	100.0	18 541	100.0	42 975	100
Reported as an underlying cause	21 383	87.5	16 606	89.6	37 989	88
Reported in association with an underlying cause of						
Ischaemic heart diseases (I20-I25)	945	3.9	527	2.8	1 472	3
Cerebrovascular diseases (I60-I69)	335	1.4	260	1.4	595	1
Diabetes mellitus (E10-E14)	6 254	100.0	5 481	100.0	11 735	100
Reported as an underlying cause	1 869	29.9	1 730	31.6	3 599	31
Reported in association with an underlying cause of						
Malignant neoplasms (C00-C97)	1 156	18.5	769	14.0	1 925	16
Ischaemic heart diseases (I20-I25)	1 405	22.5	1 079	19.7	2 484	21
Cerebrovascular diseases (I60-I69)	386	6.2	458	8.4	844	7
Organic, including symptomatic, mental disorders (F00-F09)	4 311	100.0	7 488	100.0	11 799	100
Reported as an underlying cause	904	21.0	1 975	26.4	2 879	24
Reported in association with an underlying cause of						
Malignant neoplasms (C00-C97)	373	8.7	410	5.5	783	7
Ischaemic heart diseases (I20-I25)	634	14.7	1 219	16.3	1 853	16
Heart failure (I50)	73	1.7	200	2.7	273	2
Chronic lower respiratory diseases (J40-J47)	170	3.9	173	2.3	343	3
Diseases of the nervous system (G00-G99)	5 666	100.0	5 920	100.0	11 586	100
Reported as an underlying cause	2 046	36.1	2 515	42.5	4 561	39
Reported in association with an underlying cause of						
Malignant neoplasms (C00-C97)	634	11.2	469	7.9	1 103	10
Ischaemic heart diseases (I20-I25)	753	13.3	700	11.8	1 453	13
Cerebrovascular diseases (I60-I69)	617	10.9	708	12.0	1 325	11
Hypertensive diseases (I10-I15)	6 615	100.0	8 936	100.0	15 551	100
Reported as an underlying cause	503	7.6	837	9.4	1 340	9
Reported in association with an underlying cause of						
Malignant neoplasms (C00-C97)	991	15.0	991	11.1	1 982	13
Ischaemic heart diseases (I20-I25)	2 167	32.8	2 468	27.6	4 635	30
Diseases of arteries, arterioles and capillaries (I70-I79)	154	2.3	178	2.0	332	2
Chronic lower respiratory diseases (J40-J47)	187	2.8	241	2.7	428	3
Ischaemic heart diseases (I20-I25)	20 638	100.0	17 278	100.0	37 916	100
Reported as an underlying cause	13 152	63.7	11 424	66.1	24 576	65
Reported in association with an underlying cause of						
Malignant neoplasms (C00-C97)	1 937	9.4	1 058	6.1	2 995	8
Diabetes mellitus (E10-E14)	1 047	5.1	836	4.8	1 883	5
Cerebrovascular diseases (I60-I69)	607	2.9	697	4.0	1 304	3
Chronic lower respiratory diseases (J40-J47)	680	3.3	441	2.6	1 121	3
Heart failure (I50)	7 555	100.0	9 210	100.0	16 765	100
Reported as an underlying cause	883	11.7	1 396	15.2	2 279	14
Reported in association with an underlying cause of						
Malignant neoplasms (C00-C97)	772	10.2	603	6.5	1 375	8
Diabetes mellitus (E10-E14)	320	4.2	347	3.8	667	4
Ischaemic heart diseases (I20-I25)	2 662	35.2	3 111	33.8	5 773	34
Cerebrovascular diseases (I60-I69)	209	2.8	392	4.3	601	4
Chronic lower respiratory diseases (J40-J47)	492	6.5	400	4.3	892	5
Renal failure (N17-N19)	279	3.7	267	2.9	546	3

2.4 CAUSES OF DEATH, Associated cause 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>
<i>Cerebrovascular diseases (I60-I69)</i>	9 166	100.0	11 912	100.0	21 078	100
Reported as an underlying cause	4 826	52.7	7 215	60.6	12 041	57
Reported in association with an underlying cause of						
Malignant neoplasms (C00-C97)	845	9.2	584	4.9	1 429	7
Diabetes mellitus (E10-E14)	394	4.3	416	3.5	810	4
Ischaemic heart diseases (I20-I25)	1 178	12.9	1 275	10.7	2 453	12
<i>Diseases of arteries, arterioles and capillaries (I70-I79)</i>	4 236	100.0	4 021	100.0	8 257	100
Reported as an underlying cause	1 263	29.8	1 214	30.2	2 477	30
Reported in association with an underlying cause of						
Malignant neoplasms (C00-C97)	264	6.2	147	3.7	411	5
Ischaemic heart diseases (I20-I25)	1 255	29.6	1 032	25.7	2 287	28
Cerebrovascular diseases (I60-I69)	535	12.6	801	19.9	1 336	16
<i>Influenza and pneumonia (J10-J18)</i>	9 026	100.0	9 230	100.0	18 256	100
Reported as an underlying cause	1 498	16.6	1 883	20.4	3 381	19
Reported in association with an underlying cause of						
Malignant neoplasms (C00-C97)	1 838	20.4	1 178	12.8	3 016	17
Organic, including symptomatic, mental disorders (F00-F09)	390	4.3	747	8.1	1 137	6
Diseases of the nervous system (G00-G99)	554	6.1	633	6.9	1 187	7
Ischaemic heart diseases (I20-I25)	688	7.6	704	7.6	1 392	8
Heart failure (I50)	229	2.5	310	3.4	539	3
Cerebrovascular diseases (I60-I69)	914	10.1	988	10.7	1 902	10
Chronic lower respiratory diseases (J40-J47)	1 079	12.0	802	8.7	1 881	10
<i>Chronic lower respiratory diseases (J40-J47)</i>	8 212	100.0	5 695	100.0	13 907	100
Reported as an underlying cause	3 187	38.8	2 598	45.6	5 785	42
Reported in association with an underlying cause of						
Malignant neoplasms (C00-C97)	1 513	18.4	760	13.3	2 273	16
Ischaemic heart diseases (I20-I25)	1 575	19.2	905	15.9	2 480	18
Cerebrovascular diseases (I60-I69)	248	3.0	190	3.3	438	3
<i>Diseases of liver (K70-K77)</i>	2 440	100.0	1 380	100.0	3 820	100
Reported as an underlying cause	954	39.1	432	31.3	1 386	36
Reported in association with an underlying cause of						
Malignant neoplasms (C00-C97)	658	27.0	459	33.3	1 117	29
Ischaemic heart diseases (I20-I25)	143	5.9	77	5.6	220	6
<i>Renal failure (N17-N19)</i>	7 406	100.0	6 535	100.0	13 941	100
Reported as an underlying cause	928	12.5	967	14.8	1 895	14
Reported in association with an underlying cause of						
Malignant neoplasms (C00-C97)	1 472	19.9	875	13.4	2 347	17
Diabetes mellitus (E10-E14)	477	6.4	432	6.6	909	7
Ischaemic heart diseases (I20-I25)	1 454	19.6	1 232	18.9	2 686	19
Heart failure (I50)	225	3.0	251	3.8	476	3
Cerebrovascular diseases (I60-I69)	249	3.4	290	4.4	539	4
Chronic lower respiratory diseases (J40-J47)	290	3.9	174	2.7	464	3

2.5 NATURE OF INJURY, Males—By external cause

ACCIDENTS

<i>Nature of injury or poisoning and ICD code</i>	<i>Transport accidents (V01-V99)(a)</i>	<i>Accidental Falls (W00-W19)(a)</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	100.0	100.0	100.0	100.0	100.0	100.0
Injuries to the head (S00-S09)	27.4	48.7	2.4	np	np	np	22.0
Fracture of skull and facial bones (S02)	4.0	2.6	—	—	—	1.9	2.4
Injuries to the thorax (S20-S29)	15.7	7.1	—	np	—	np	9.7
Injuries to the abdomen, lower back, lumbar spine and pelvis (S30-S39)	6.8	3.3	np	np	np	np	4.5
Injuries to the hip and thigh (S70-S79)	0.9	13.9	—	—	—	15.2	5.8
Fracture of femur (S72)	0.7	13.7	—	—	—	14.6	5.6
Unspecified multiple injuries (T07)	25.1	5.7	np	—	np	np	12.0
Burns and corrosions (T20-T32)	0.8	—	—	43.5	—	1.0	1.2
Poisoning by drugs, medicaments and biological substances (T36-T50)	0.5	0.5	np	—	np	0.3	15.2
Poisoning by narcotics and psychodysleptics (hallucinogens) (T40)	np	np	—	—	37.5	np	7.0
Toxic effects of substances chiefly nonmedicinal as to source (T51-T65)	0.7	np	np	45.2	16.6	0.3	4.1
Toxic effect of carbon monoxide (T58)	—	—	—	np	np	—	0.5
Other and unspecified effects of external causes (T66-T78)	2.4	1.0	87.9	—	np	np	8.4
Asphyxiation (T71)	0.6	0.7	np	—	np	np	3.5
Certain early complications of trauma (T79)	1.6	1.7	np	—	np	2.1	1.5

NUMBER

Total Injuries (S00-T98)	1 902	575	165	62	882	1 180	4 766
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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 2004. See Explanatory notes, paragraphs ? - ? for further information.

2.5 NATURE OF INJURY, Males—By external cause *continued*

INTENTIONAL INJURY AND OTHER

<i>Nature of injury or poisoning and ICD code</i>	<i>Intentional self-harm (X60-X84)(a)</i>	<i>Assault (X85-Y09)(a)</i>	<i>Other intentional injury</i>	<i>Total intentional injury</i>	<i>Total external causes</i>
PERCENT					
Total Injuries (S00-T98)	100.0	100.0	100.0	100.0	100.0
Injuries to the head (S00-S09)	9.9	32.2	3.3	10.6	18.2
Fracture of skull and facial bones (S02)	0.3	2.6	—	0.4	1.7
Injuries to the thorax (S20-S29)	np	np	np	3.5	7.6
Injuries to the abdomen, lower back, lumbar spine and pelvis (S30-S39)	np	np	np	1.1	3.3
Injuries to the hip and thigh (S70-S79)	np	—	np	np	np
Fracture of femur (S72)	np	—	np	0.1	3.8
Unspecified multiple injuries (T07)	3.8	np	np	3.4	9.1
Burns and corrosions (T20-T32)	np	np	np	0.6	1.0
Poisoning by drugs, medicaments and biological substances (T36-T50)	10.8	np	np	10.0	13.5
Poisoning by narcotics and psychodysleptics (hallucinogens) (T40)	2.6	—	5.6	2.7	5.6
Toxic effects of substances chiefly nonmedicinal as to source (T51-T65)	19.3	np	np	16.3	8.2
Toxic effect of carbon monoxide (T58)	np	np	np	13.1	4.7
Other and unspecified effects of external causes (T66-T78)	44.2	2.6	6.7	37.3	18.0
Asphyxiation (T71)	41.7	2.6	3.3	34.8	13.9
Certain early complications of trauma (T79)	np	—	np	0.4	1.1

NUMBER

Total Injuries (S00-T98)	1 956	152	270	2 378	7 144
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— nil or rounded to zero (including null cells) (a) A number of data quality issues have been identified when coding this cause for 2004. See Explanatory notes, paragraphs ? - ? for further information.

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

2.6 NATURE OF INJURY, Females—By external cause

ACCIDENTS							
<i>Nature of injury or poisoning and ICD code</i>	<i>Transport accidents (V01-V99)(a)</i>	<i>Accidental Falls (W00-W19)(a)</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>
PERCENT							
Total Injuries (S00-T98)	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Injuries to the head (S00-S09)	25.8	41.0	—	—	np	np	19.2
Fracture of skull and facial bones (S02)	3.5	1.3	—	—	—	1.0	1.5
Injuries to the thorax (S20-S29)	15.8	4.4	—	—	—	4.7	6.6
Injuries to the abdomen, lower back, lumbar spine and pelvis (S30-S39)	6.2	5.1	np	—	—	np	5.1
Injuries to the hip and thigh (S70-S79)	0.7	21.9	—	—	—	35.5	17.4
Fracture of femur (S72)	0.4	21.7	—	—	—	35.2	17.2
Unspecified multiple injuries (T07)	27.8	1.5	np	—	—	np	8.1
Burns and corrosions (T20-T32)	0.7	np	np	52.0	—	np	1.6
Poisoning by drugs, medicaments and biological substances (T36-T50)	—	—	np	—	np	—	11.6
Poisoning by narcotics and psychodysleptics (hallucinogens) (T40)	—	—	—	—	25.4	—	3.4
Toxic effects of substances chiefly nonmedicinal as to source (T51-T65)	0.6	np	np	44.0	11.5	—	2.6
Toxic effect of carbon monoxide (T58)	—	—	—	np	np	—	0.1
Other and unspecified effects of external causes (T66-T78)	1.4	0.7	85.0	—	np	np	5.6
Asphyxiation (T71)	0.7	—	—	—	—	3.9	1.5
Certain early complications of trauma (T79)	1.2	2.6	np	np	np	3.4	2.2
NUMBER							
Total Injuries (S00-T98)	691	612	60	50	366	946	2 725

— 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 2004. See Explanatory notes, paragraphs ? - ? for further information.

2.6 NATURE OF INJURY, Females—By external cause *continued*

INTENTIONAL INJURY AND OTHER

<i>Nature of injury or poisoning and ICD code</i>	<i>Intentional self-harm (X60-X84)(a)</i>	<i>Assault (X85-Y09)(a)</i>	<i>Other intentional injury</i>	<i>Total intentional injury</i>	<i>Total external causes</i>
PERCENT					
Total Injuries (S00-T98)	100.0	100.0	100.0	100.0	100.0
Injuries to the head (S00-S09)	2.6	22.1	—	3.8	15.7
Fracture of skull and facial bones (S02)	—	—	—	—	1.2
Injuries to the thorax (S20-S29)	np	np	np	1.9	5.5
Injuries to the abdomen, lower back, lumbar spine and pelvis (S30-S39)	np	np	np	0.6	4.0
Injuries to the hip and thigh (S70-S79)	—	—	np	np	np
Fracture of femur (S72)	—	—	np	np	np
Unspecified multiple injuries (T07)	7.9	np	np	5.8	7.6
Burns and corrosions (T20-T32)	np	np	—	1.0	1.4
Poisoning by drugs, medicaments and biological substances (T36-T50)	31.1	—	12.1	23.4	14.3
Poisoning by narcotics and psychodysleptics (hallucinogens) (T40)	4.0	—	4.0	3.6	3.5
Toxic effects of substances chiefly nonmedicinal as to source (T51-T65)	15.1	np	np	10.8	4.5
Toxic effect of carbon monoxide (T58)	np	—	np	8.1	2.0
Other and unspecified effects of external causes (T66-T78)	36.9	16.9	8.6	28.0	10.7
Asphyxiation (T71)	33.0	14.3	2.0	23.6	6.6
Certain early complications of trauma (T79)	—	—	—	—	1.7

NUMBER

Total Injuries (S00-T98)	531	77	198	806	3 531
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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 2004. See Explanatory notes, paragraphs ? - ? for further information.

2.7 NATURE OF INJURY, Persons—By external cause

ACCIDENTS							
Nature of injury or poisoning and ICD code	Transport accidents (V01-V99)(a)	Accidental Falls (W00-W19)(a)	Accidental drowning and submersion (W65-W74)	Exposure to smoke, fire and flames (X00-X09)	Accidental poisonings (X40-X49)	Other accidents	Total accidents
PERCENT							
Total Injuries (S00-T98)	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Injuries to the head (S00-S09)	27.0	44.7	1.8	np	np	15.7	21.0
Fracture of skull and facial bones (S02)	3.9	1.9	—	—	—	1.5	2.1
Injuries to the thorax (S20-S29)	15.7	5.7	—	np	—	np	8.6
Injuries to the abdomen, lower back, lumbar spine and pelvis (S30-S39)	6.7	4.2	np	np	np	5.8	4.7
Injuries to the hip and thigh (S70-S79)	0.8	18.0	—	—	—	24.2	10.0
Fracture of femur (S72)	0.7	17.9	—	—	—	23.8	9.8
Unspecified multiple injuries (T07)	25.8	3.5	np	—	np	3.7	10.6
Burns and corrosions (T20-T32)	0.8	np	np	47.3	—	np	1.3
Poisoning by drugs, medicaments and biological substances (T36-T50)	0.3	0.3	1.8	—	81.9	0.1	13.9
Poisoning by narcotics and psychodysleptics (hallucinogens) (T40)	np	np	—	—	34.0	np	5.7
Toxic effects of substances chiefly nonmedicinal as to source (T51-T65)	0.7	0.3	2.7	44.6	15.1	0.2	3.6
Toxic effect of carbon monoxide (T58)	—	—	—	3.6	1.8	—	0.3
Other and unspecified effects of external causes (T66-T78)	2.2	0.8	87.1	—	0.4	13.5	7.4
Asphyxiation (T71)	0.7	0.3	np	—	np	np	2.8
Certain early complications of trauma (T79)	1.5	2.2	1.8	np	np	2.7	1.7
NUMBER							
Total Injuries (S00-T98)	2 593	1 187	225	112	1 248	2 126	7 491

— 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 2004. See Explanatory notes, paragraphs ? - ? for further information.

2.7 NATURE OF INJURY, Persons—By external cause *continued*

INTENTIONAL INJURY AND OTHER

<i>Nature of injury or poisoning and ICD code</i>	<i>Intentional self-harm (X60-X84) (a)</i>	<i>Assault (X85-Y09) (a)</i>	<i>Other intentional injury</i>	<i>Total intentional injury</i>	<i>Total external causes</i>
PERCENT					
Total Injuries (S00-T98)	100.0	100.0	100.0	100.0	100.0
Injuries to the head (S00-S09)	8.4	28.8	1.9	8.9	17.4
Fracture of skull and facial bones (S02)	0.2	1.7	—	0.3	1.5
Injuries to the thorax (S20-S29)	1.4	23.6	1.7	3.1	6.9
Injuries to the abdomen, lower back, lumbar spine and pelvis (S30-S39)	0.5	5.7	1.1	1.0	3.6
Injuries to the hip and thigh (S70-S79)	np	—	np	0.2	7.1
Fracture of femur (S72)	np	—	np	0.1	np
Unspecified multiple injuries (T07)	4.7	2.2	1.5	4.0	8.6
Burns and corrosions (T20-T32)	0.8	np	np	0.7	1.1
Poisoning by drugs, medicaments and biological substances (T36-T50)	15.2	np	np	13.4	13.7
Poisoning by narcotics and psychodysleptics (hallucinogens) (T40)	2.9	—	4.9	3.0	4.9
Toxic effects of substances chiefly nonmedicinal as to source (T51-T65)	18.4	1.7	2.6	14.9	7.0
Toxic effect of carbon monoxide (T58)	15.0	np	np	11.8	3.8
Other and unspecified effects of external causes (T66-T78)	42.6	7.4	7.5	34.9	15.6
Asphyxiation (T71)	39.8	6.6	2.8	32.0	11.5
Certain early complications of trauma (T79)	np	—	np	0.3	1.3

NUMBER

Total Injuries (S00-T98)	2 487	229	468	3 184	10 675
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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 2004. See Explanatory notes, paragraphs ? - ? for further information.

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 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 4-8 for further information on perinatal death statistics. Further tables based on either definition are available from the ABS.

TRENDS IN PERINATAL DEATHS

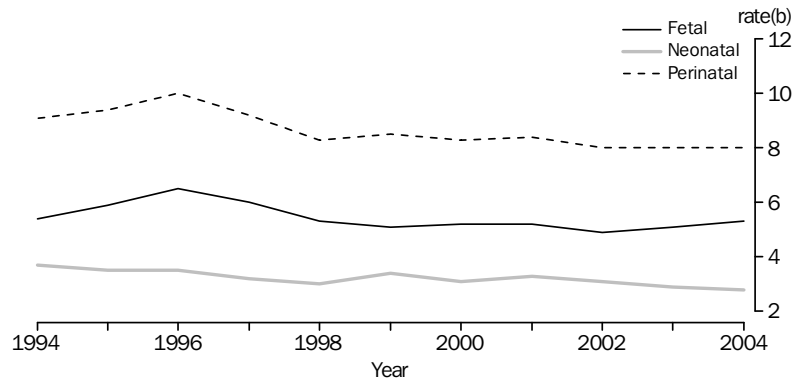
In 2004, there were 2,048 perinatal deaths registered in Australia, compared with 2,020 registered in 2003. The number of fetal deaths in 2004 was 1,347, an increase of 4.6% on the number registered in 2003 (1,288). Neonatal deaths have decreased from 732 in 2003 to 701 in 2004. Since 1994, the number of registered perinatal deaths has decreased by 13.3% (314). The proportion of perinatal deaths where birth weight was less than 1000 grams was 49.4% in 2004, while 47.5% of deaths had a gestational period of less than 28 weeks.

In 2004, the sex ratio of male perinatal deaths for every 100 female perinatal deaths was 128, compared with a ratio of 123 recorded in 2003.

The perinatal death rate remained constant between 2003 and 2004 at 8.0 deaths per 1,000 total relevant births (see Glossary, death rates for further information). Between 1994 and 2004, the perinatal death rate declined from 9.1 to 8.0 deaths per 1,000 total relevant births. In the same period, the fetal rate declined from 5.4 to 5.3 per 1,000 total relevant births, while the neonatal rate fell to the lowest ever recorded (2.8 per 1,000 total relevant births). This low rate was strongly influenced by the decrease in the female neonatal death rate from 3.1 in 1994 to 2.3 per 1,000 total relevant births in 2004.

TRENDS IN PERINATAL DEATHS *continued*

TRENDS IN PERINATAL DEATHS (a)

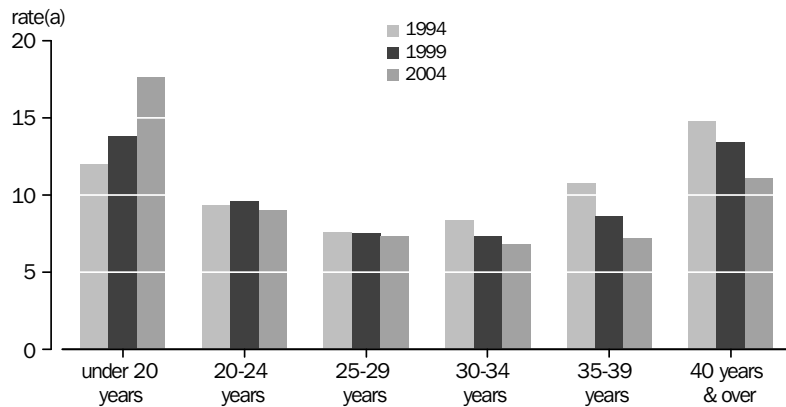


(a) Based on 400 grams/22 weeks.
 (b) Per 1,000 total relevant births.

Northern Territory had the highest perinatal death rate in 2004 (11.2 per 1,000 total relevant births), while Tasmania and South Australia had the lowest rate (6.9 per 1,000 total relevant births).

AGE OF MOTHER

PERINATAL DEATHS, RATES—AGE OF MOTHER



(a) Per 1,000 total relevant births.

In 2004, the proportion of perinatal deaths registered to mothers aged less than 20 years was 9.4% compared to 4.7% for mothers aged 40 years or more.

While the overall perinatal death rate has decreased over the last ten years, this is not consistent across all age groups. In particular, the perinatal death rate of 17.6 per 1,000 total relevant births in 2004 for mothers aged less than 20 years is higher than the 2003 rate of 14.5 per 1,000 total relevant births and the 1994 rate of 12.0 per 1,000 total relevant births.

CONDITION IN FETUS/INFANT

In 2004, 28.8% of perinatal deaths were not assigned a specific cause of death in the fetus/infant. Medical certifiers are often unable to provide an accurate cause of death without the assistance of an autopsy. The absence of a specific cause of death largely affects fetal deaths. While 42.3% of all fetal deaths registered in 2004 reported no specific cause, the corresponding figure for neonatal deaths was 2.9%.

CONDITION IN
FETUS/INFANT *continued*

Respiratory and cardiovascular disorders, specific to the perinatal period, accounted for 15.6% of perinatal deaths, while Disorders related to length of gestation and fetal growth contributed a further 12.1%.

Conditions reported in fetal deaths registered in 2004 include Respiratory and cardiovascular disorders specific to the perinatal period (14.8%), Interuterine hypoxia (14.1%), Congenital malformations, deformations and chromosomal abnormalities (13.9%), and Disorders related to length of gestation and fetal growth (7.9%). In comparison, Disorders related to length of gestation and fetal growth accounted for 20.3% of neonatal deaths registered in 2004 while Congenital malformations, deformations and chromosomal abnormalities (31.4%), Extremely low birth weight (19.5%), and Respiratory and cardiovascular disorders, specific to the perinatal period (17.3%) were the other major causes.

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 1,247 (60.9%) of the 2,048 perinatal deaths registered in 2004. Complications of placenta, cord and membranes was the most frequently reported maternal cause, accounting for 491 or 24.0% of all perinatal deaths, followed by Maternal complications of pregnancy (297 or 14.5% 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									
1994	692	516	1 208	517	351	868	1 209	867	2 076
2000	570	506	1 076	396	274	670	966	780	1 746
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
RATE (b)									
1994	5.2	4.1	4.7	3.9	2.8	3.4	9.1	6.9	8.0
2000	4.4	4.2	4.3	3.1	2.3	2.7	7.5	6.4	7.0
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

(a) See Explanatory Notes, paragraph 4 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									
1994	798	615	1 413	561	388	949	1 359	1 003	2 362
2000	692	611	1 303	443	330	773	1 135	941	2 076
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
RATE (b)									
1994	6.0	4.9	5.4	4.2	3.1	3.7	10.2	8.0	9.1
2000	5.4	5.0	5.2	3.5	2.7	3.1	8.8	7.7	8.3
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

(a) See Explanatory Notes, paragraph 4 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.
NUMBER									
1994	815	601	419	165	210	58	62	31	2 362
2000	675	472	421	147	212	61	54	34	2 076
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
RATE (b)									
1994	9.2	9.3	8.9	8.5	8.3	8.4	16.9	6.9	9.1
2000	7.7	7.9	8.9	8.2	8.4	10.6	14.5	8.3	8.3
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

(a) Based on 400 grams/20 weeks definition. See Explanatory Notes, paragraph 4 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	Under 20 years	20-24 years	25-29 years	30-34 years	35-39 years	40 years and over	Not stated	Total
NUMBER								
1994	155	461	651	652	311	68	64	2 362
2000	165	355	584	561	309	61	41	2 076
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
RATE (b)								
1994	12.0	9.3	7.6	8.4	10.8	14.8	..	9.1
2000	14.3	9.4	7.4	7.1	8.4	9.2	..	8.3
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

.. not applicable

(a) Based on 400 grams/20 weeks definition. See Explanatory Notes, paragraph 4 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	Female	Males	Female	Males	Female
TOTAL						
All Causes	732	615	418	283	1 150	898
MAIN CONDITION IN FETUS/INFANT						
Certain conditions originating in the perinatal period (P00-P96)	631	524	265	178	896	702
Disorders related to length of gestation and fetal growth (P05-P08)	56	50	90	52	146	102
Extremely low birth weight (P07.0)	29	25	86	51	115	76
Respiratory and cardiovascular disorders specific to the perinatal period (P20-P29)	100	99	66	55	166	154
Intrauterine hypoxia (P20)	np	np	np	np	97	95
Birth asphyxia (P21)	—	—	23	15	23	15
Cardiovascular disorders originating in the perinatal period (P29)	np	3	np	7	10	10
Infections specific to the perinatal period (P35-P39)	8	6	22	14	30	20
Haemorrhagic and haematological disorders of fetus and newborn (P50-P61)	20	13	52	25	72	38
Intracranial nontraumatic haemorrhage of fetus and newborn (P52)	np	np	np	np	46	25
Other disorders originating in the perinatal period (P90-P96)	432	339	18	15	450	354
Fetal death of unspecified cause (P95)	134	127	—	—	134	127
Condition originating in the perinatal period, unspecified (P96.9)	182	127	12	8	194	135
Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	100	87	135	85	235	172
Congenital malformations of the nervous system (Q00-Q07)	15	17	20	19	35	36
Anencephaly and similar malformations (Q00)	np	np	np	np	5	8
Congenital hydrocephalus (Q03)	6	4	4	5	10	9
Spina bifida (Q05)	3	np	4	np	7	7
Congenital malformations of the circulatory system (Q20-Q28)	19	11	31	15	50	26
Congenital Malformations of the heart (Q20-Q24)	17	11	25	13	42	24
Congenital malformations of aortic and mitral valves (Q23)	5	4	9	7	14	11
Congenital malformations of lung (Q33)	np	np	np	np	20	14
Congenital malformations of the urinary system (Q60-Q64)	14	7	15	6	29	13
Congenital malformations and deformations of the musculoskeletal system (Q65-Q79)	12	9	16	7	28	16
Congenital diaphragmatic hernia (Q79.0)	3	np	10	np	13	4
Down's syndrome (Q90)	10	np	8	np	18	7
Edwards' syndrome and Patau's syndrome (Q91)	7	10	10	11	17	21

— 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, paragraph 4 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	Female	Males	Female	Males	Female
MAIN CONDITION IN MOTHER						
Maternal conditions that may be unrelated to present pregnancy (P00)	176	139	22	24	198	163
Maternal hypertensive disorders (P00.0)	23	26	11	15	34	41
Maternal complications of pregnancy (P01)	57	49	113	78	170	127
Incompetent cervix (P01.0)	8	6	13	12	21	18
Premature rupture of membranes (P01.1)	17	9	21	16	38	25
Multiple pregnancy (P01.5)	18	19	34	29	52	48
Complications of placenta, cord and membranes (P02)	219	172	56	44	275	216
Placenta praevia and other forms of placental separation and haemorrhage (P02.0-P02.1)	73	47	23	16	96	63
Other and unspecified morphological and functional abnormalities of placenta (P02.2)	47	np	3	np	50	35
Prolapsed cord (P02.4)	11	np	5	np	16	5
Other compression of umbilical cord (P02.5)	27	41	4	—	31	41
Chorioamnionitis (P02.7)	21	26	15	20	36	46
Complications of labour and delivery (P03)	29	17	25	14	54	31
Breech delivery and extraction (P03.0)	—	—	5	—	5	—
Noxious influences transmitted via placenta or breast milk (P04)	np	np	np	np	7	6
No maternal condition reported	246	233	200	122	446	355

— 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, paragraph 4 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	436	576	303	330	283	51	2 048
MAIN CONDITION IN FETUS/INFANT							
Certain conditions originating in the perinatal period (P00-P96)	353	474	216	231	230	45	1 598
Disorders related to length of gestation and fetal growth (P05-P08)	93	117	19	8	3	np	248
Extremely low birth weight (P07.0)	86	102	—	—	—	—	191
Respiratory and cardiovascular disorders specific to the perinatal period (P20-P29)	20	69	45	75	81	18	320
Intrauterine hypoxia (P20)	10	27	31	60	51	8	192
Birth asphyxia (P21)	np	3	5	9	12	5	38
Cardiovascular disorders originating in the perinatal period (P29)	—	5	np	4	7	np	20
Infections specific to the perinatal period (P35-P39)	4	26	12	np	np	np	50
Haemorrhagic and haematological disorders of fetus and newborn (P50-P61)	7	56	17	11	13	4	110
Intracranial nontraumatic haemorrhage of fetus and newborn (P52)	3	48	13	4	np	np	71
Other disorders originating in the perinatal period (P90-P96)	228	185	109	132	118	8	804
Fetal death of unspecified cause (P95)	19	62	50	56	58	4	261
Condition originating in the perinatal period, unspecified (P96.9)	58	79	53	70	54	4	329
Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	80	100	82	86	40	3	407
Congenital malformations of the nervous system (Q00-Q07)	17	21	12	14	7	—	71
Anencephaly and similar malformations (Q00)	np	np	np	8	np	—	13
Congenital hydrocephalus (Q03)	4	9	np	np	np	—	19
Spina bifida (Q05)	4	4	np	—	np	—	14
Congenital malformations of the circulatory system (Q20-Q28)	15	16	9	19	12	np	76
Congenital Malformations of the heart (Q20-Q24)	14	13	8	18	9	np	66
Congenital malformations of aortic and mitral valves (Q23)	5	4	np	8	4	np	25
Congenital malformations of lung (Q33)	np	7	11	10	3	np	34
Congenital malformations of the urinary system (Q60-Q64)	5	14	8	8	7	—	42
Congenital malformations and deformations of the musculoskeletal system (Q65-Q79)	6	7	9	15	4	—	44
Congenital diaphragmatic hernia (Q79.0)	np	—	3	7	3	—	17
Down's syndrome (Q90)	9	8	np	3	np	—	25
Edwards' syndrome and Patau's syndrome (Q91)	7	4	14	8	3	—	38

— 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, paragraph 4 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)	177	87	32	22	25	13	361
Maternal hypertensive disorders (P00.0)	10	26	18	9	7	np	75
Maternal complications of pregnancy (P01)	87	137	39	22	3	np	297
Incompetent cervix (P01.0)	21	17	—	—	—	—	39
Premature rupture of membranes (P01.1)	22	32	6	np	—	—	63
Multiple pregnancy (P01.5)	24	43	16	13	—	—	100
Complications of placenta, cord and membranes (P02)	59	142	82	105	85	8	491
Placenta praevia and other forms of placental separation and haemorrhage (P02.0-P02.1)	23	43	31	36	23	np	159
Other and unspecified morphological and functional abnormalities of placenta (P02.2)	5	13	23	28	12	np	85
Prolapsed cord (P02.4)	6	8	—	np	4	—	21
Other compression of umbilical cord (P02.5)	np	9	10	21	28	np	72
Chorioamnionitis (P02.7)	18	46	4	3	8	np	82
Complications of labour and delivery (P03)	29	27	8	np	9	6	85
Breech delivery and extraction (P03.0)	—	—	np	np	np	—	5
Noxious influences transmitted via placenta or breast milk (P04)	np	3	3	4	np	—	13
No maternal condition reported	83	180	139	175	159	23	801

— 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, paragraph 4 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	223	750	199	309	463	9	2 048
MAIN CONDITION IN FETUS/INFANT							
Certain conditions originating in the perinatal period (P00-P96)	157	622	158	225	370	8	1 598
Disorders related to length of gestation and fetal growth (P05-P08)	50	149	14	21	5	3	248
Extremely low birth weight (P07.0)	50	138	—	—	—	—	191
Respiratory and cardiovascular disorders specific to the perinatal period (P20-P29)	10	79	21	62	134	3	320
Intrauterine hypoxia (P20)	np	27	14	52	89	np	192
Birth asphyxia (P21)	np	4	3	5	22	np	38
Cardiovascular disorders originating in the perinatal period (P29)	np	4	np	3	9	—	20
Infections specific to the perinatal period (P35-P39)	3	27	6	5	4	—	50
Haemorrhagic and haematological disorders of fetus and newborn (P50-P61)	3	59	15	10	18	—	110
Intracranial nontraumatic haemorrhage of fetus and newborn (P52)	np	50	10	3	4	—	71
Other disorders originating in the perinatal period (P90-P96)	87	293	89	113	195	np	804
Fetal death of unspecified cause (P95)	8	57	48	45	91	np	261
Condition originating in the perinatal period, unspecified (P96.9)	30	97	33	59	97	—	329
Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	63	125	36	80	77	np	407
Congenital malformations of the nervous system (Q00-Q07)	16	24	7	10	11	np	71
Anencephaly and similar malformations (Q00)	np	np	np	np	5	np	13
Congenital hydrocephalus (Q03)	5	9	np	np	np	—	19
Spina bifida (Q05)	4	5	np	—	np	—	14
Congenital malformations of the circulatory system (Q20-Q28)	12	22	np	11	20	—	76
Congenital Malformations of the heart (Q20-Q24)	10	21	np	10	16	—	66
Congenital malformations of aortic and mitral valves (Q23)	3	8	np	np	9	—	25
Congenital malformations of lung (Q33)	np	8	7	10	3	—	34
Congenital malformations of the urinary system (Q60-Q64)	4	17	3	9	8	—	42
Congenital malformations and deformations of the musculoskeletal system (Q65-Q79)	5	8	5	12	12	—	44
Congenital diaphragmatic hernia (Q79.0)	np	np	np	5	5	—	17
Down's syndrome (Q90)	7	7	3	np	4	—	25
Edwards' syndrome and Patau's syndrome (Q91)	4	6	4	11	12	—	38

— 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, paragraph 4 for further information.

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

3.7PERINATAL 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)	58	189	35	34	42	—	361
Maternal hypertensive disorders (P00.0)	—	31	15	11	17	—	75
Maternal complications of pregnancy (P01)	54	168	20	32	13	—	297
Incompetent cervix (P01.0)	16	23	—	—	—	—	39
Premature rupture of membranes (P01.1)	13	41	5	np	np	—	63
Multiple pregnancy (P01.5)	8	54	8	17	7	—	100
Complications of placenta, cord and membranes (P02)	28	166	46	93	143	3	491
Placenta praevia and other forms of placental separation and haemorrhage (P02.0-P02.1)	11	57	16	35	36	—	159
Other and unspecified morphological and functional abnormalities of placenta (P02.2)	np	7	17	26	30	np	85
Prolapsed cord (P02.4)	4	11	—	—	5	—	21
Other compression of umbilical cord (P02.5)	—	np	np	15	46	—	72
Chorioamnionitis (P02.7)	10	54	np	np	8	np	82
Complications of labour and delivery (P03)	29	33	4	3	14	—	85
Breech delivery and extraction (P03.0)	—	—	np	—	3	—	5
Noxious influences transmitted via placenta or breast milk (P04)	—	4	np	np	5	—	13
No maternal condition reported	54	190	93	145	246	6	801

— 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, paragraph 4 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 sections of this publication refer to deaths registered during the 2004 calendar year. In this section, 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 96.0% of the total 131,784 deaths that occurred in 2003 were registered in 2003, only 88.8% of the 2,015 Indigenous deaths and 93.5% of deaths due to External causes that occurred in 2003 were registered in that year. More detailed data for specific causes or population groups are available from the ABS on request.

COMPARISON OF
SELECTED UNDERLYING
CAUSES IN 2003

The following table shows that the percentage differences between selected underlying causes of death presented on a year of occurrence and year of registration basis in 2003 are small. The biggest difference occurred with Intentional self harm (*see Explanatory Note 27 for issues surrounding coding of this cause for 2004*), followed by Diabetes mellitus and Chronic lower respiratory diseases.

SELECTED UNDERLYING CAUSES OF DEATH

Cause of death and ICD code	YEAR OF REGISTRATION	YEAR OF OCCURRENCE(a)	
	2003	2003	Difference(b)
	no	no	%
All Causes	132 292	131 784	-0.4
Malignant neoplasms (cancer) (C00-C97)	37 558	37 445	-0.3
Ischaemic heart diseases (I20-I25)	25 439	25 295	-0.6
Cerebrovascular diseases (stroke) (I60-I69)	12 240	12 209	-0.3
Chronic lower respiratory diseases (including asthma, emphysema and bronchitis) (J40-J47)	5 985	5 925	-1.0
Accidents (V01-X59)	4 865	4 875	0.2
Diabetes mellitus (E10-E14)	3 389	3 425	1.1
Influenza and pneumonia (J10-J18)	3 566	3 561	-0.1
Diseases of arteries, arterioles and capillaries (including atherosclerosis and aortic aneurysm) (I70-I79)	2 542	2 532	-0.4
Heart failure (I50)	2 432	2 432	—
Intentional self-harm (X60-X84)	2 213	2 155	-2.7
All other causes	32 063	31 930	-0.4

— nil or rounded to zero (including null cells)

(a) Deaths occurring in 2003, registered in 2003 and in 2004

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

4.1 YEAR OF OCCURRENCE(a), Selected underlying causes

Cause of death and ICD Code	2001		2002		2003	
	Males	Females	Males	Females	Males	Females
All Causes	66 815	61 842	68 678	64 369	67 940	63 844
Chapter I Certain infectious and parasitic diseases (A00-B99)	898	801	942	834	921	821
Septicaemia (A40, A41)	450	540	503	567	512	554
Human immunodeficiency virus (HIV) disease (B20-B24)(b)	136	14	119	12	112	12
Chapter II Neoplasms (C00-D48)	21 052	16 407	21 440	16 829	21 396	16 870
Malignant neoplasms (C00-C97)	20 683	16 026	21 017	16 441	20 976	16 469
Digestive Organs (C15-C26)	5 890	4 504	5 766	4 574	5 927	4 666
Oesophagus (C15)	698	341	686	318	767	363
Stomach (C16)	753	456	772	447	686	482
Colon (C18)	1 737	1 590	1 588	1 612	1 571	1 441
Rectosigmoid junction, rectum, anus and anal canal (C19-C21)	864	563	826	575	839	578
Liver and intrahepatic bile ducts (C22)	538	239	548	301	603	288
Pancreas (C25)	946	865	958	881	941	940
Trachea, bronchus and lung (C33-C34)	4 658	2 383	4 719	2 526	4 505	2 481
Melanoma of skin (C43)	684	390	723	330	764	381
Breast (C50)	26	2 594	17	2 681	10	2 710
Female genital organs (C51-C58)	—	1 527	—	1 499	—	1 415
Ovary (C56)	—	837	—	841	—	781
Male genital organs (C60-C63)	2 760	—	2 857	—	2 869	—
Prostate (C61)	2 718	—	2 820	—	2 834	—
Urinary tract (C64-C68)	1 173	661	1 182	640	1 118	621
Kidney, except renal pelvis (C64)	501	343	512	322	492	306
Bladder (C67)	633	275	640	277	594	277
Brain (C71)	631	433	652	491	638	473
Lymphoid, haematopoietic and related tissue (C81-C96)	1 965	1 663	2 142	1 657	2 059	1 640
Leukaemia (C91-C95)	779	585	857	584	795	589
In situ and benign neoplasms and neoplasms of uncertain or unknown behaviour (D00-D48)	369	381	423	388	420	401
Chapter III Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50-D89)	184	226	184	253	189	255
Chapter IV Endocrine, nutritional and metabolic diseases (E00-E90)	2 226	2 107	2 380	2 241	2 483	2 289
Diabetes mellitus (E10-E14)	1 649	1 444	1 765	1 531	1 827	1 598
Chapter V Mental and behavioural disorders (F00-F99)	1 074	1 622	1 243	1 914	1 231	2 007
Organic, including symptomatic, mental disorders (F00-F09)	689	1 439	847	1 713	876	1 813
Chapter VI Diseases of the nervous system (G00-G99)	1 901	2 320	2 137	2 452	1 900	2 421
Alzheimer's disease (G30)	491	1 114	571	1 284	482	1 132
Chapter VII Diseases of the eye and adnexa (H00-H59)	np	np	np	np	np	np
Chapter VIII Diseases of the ear and mastoid process (H60-H95)	np	np	np	np	np	np
Chapter IX Diseases of the circulatory system (I00-I99)	23 718	25 816	23 875	26 102	23 283	25 320
All heart disease (I05-I09, I11, I13, I20-I25, I26, I27, I30-I52)	17 125	16 662	17 175	16 762	16 718	16 151
Acute rheumatic fever and chronic rheumatic heart diseases (I00-I09)	84	169	84	178	95	189
Hypertensive diseases (I10-I15)	438	786	465	892	478	879
Ischaemic heart disease (I20-I25)	13 956	12 348	13 768	12 116	13 440	11 855
Acute myocardial infarction (I21)	7 507	6 976	7 420	6 772	6 873	6 494
Pulmonary heart disease and diseases of pulmonary circulation and other forms of heart disease (I26-I52)	2 870	3 760	3 094	3 995	2 970	3 663
Heart Failure (I50)	997	1 642	1 031	1 680	959	1 473
Cerebrovascular diseases (I60-I69)	4 868	7 333	4 957	7 502	4 848	7 361
Diseases of arteries, arterioles and capillaries (I70-I79)	1 382	1 250	1 382	1 252	1 335	1 197
Atherosclerosis (I70)	175	285	175	326	173	240
Aortic aneurysm and dissection (I71)	796	541	835	546	804	512

— nil or rounded to zero (including null cells)

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 17 for further information.

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

Cause of death and ICD Code	2001		2002		2003	
	Males	Females	Males	Females	Males	Females
Chapter X Diseases of the respiratory system (J00-J99)	5 700	4 922	6 177	5 463	6 163	5 665
Influenza and pneumonia (J10-J18)	1 183	1 534	1 352	1 711	1 540	2 021
Chronic lower respiratory diseases (J40-J47)	3 410	2 503	3 568	2 678	3 332	2 593
Emphysema (J43)	416	273	459	283	413	237
Asthma and status asthmaticus (J45, J46)	175	241	162	241	101	200
Chapter XI Diseases of the digestive system (K00-K93)	2 028	2 025	2 225	2 260	2 288	2 206
Diseases of oesophagus, stomach and duodenum (K20-K31)	301	332	277	361	283	329
Gastric and duodenal ulcer (K25-K27)	207	235	178	235	186	194
Diseases of liver (K70-K77)	812	358	929	444	973	402
Chapter XII Diseases of the skin and subcutaneous tissue (L00-L99)	106	163	121	215	112	195
Chapter XIII Diseases of the musculoskeletal system and connective tissue (M00-M99)	287	610	348	665	312	698
Arthropathies and systemic connective tissue disorders (M00-M36)	191	375	204	407	174	422
Chapter XIV Diseases of the genitourinary system (N00-N99)	1 259	1 587	1 323	1 654	1 331	1 649
Renal failure (N17-N19)	825	901	919	1 015	955	1 012
Chapter XV Pregnancy, childbirth and the puerperium (O00-O99)	—	12	—	13	—	8
Chapter XVI Certain conditions originating in the perinatal period (P00-P96)	393	264	353	301	339	264
Fetus and newborn affected by maternal factors and by complications of pregnancy, labour and delivery (P00-P04)	197	172	184	166	213	175
Chapter XVII Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	331	270	302	276	325	271
Congenital malformations of the circulatory system (Q20-Q28)	113	101	124	92	127	94
Chapter XVIII Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00-R99)	267	261	368	363	483	403
Chapter XX External causes of morbidity and mortality (V01-Y98)	5 386	2 422	5 256	2 530	5 178	2 495
Accidents (V01-X59)	3 091	1 682	3 081	1 796	3 090	1 785
Transport accidents (V01-V99)	1 497	511	1 407	498	1 295	473
Falls (W00-W19)	353	277	326	301	386	331
Accidental drowning and submersion (W65-W74)	196	46	170	67	144	48
Intentional self-harm (X60-X84)	1 935	521	1 813	506	1 684	471
Hanging, strangulation and suffocation (X70)	878	197	826	202	809	172
Assault (X85-Y09)	201	103	191	95	175	82

— nil or rounded to zero (including null cells)

(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).

SCOPE AND COVERAGE

2 The statistics in sections 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 section 4 relate to deaths by year of occurrence.

Tourism Related Deaths

3 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

4 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.

5 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.

6 The birth statistics used to calculate the perinatal and neonatal death rates in this publication are shown in Appendix 3. Appendix tables A3.1–A3.3 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 A3.4 shows similar adjusted information but it is based on the 500 grams definition.

7 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 tables A2.1 of Appendix 2.

*Perinatal death statistics
continued*

8 The adjusted birth statistics also differ from the statistics published in *Births, Australia* (cat. no. 3301.0), which are unadjusted for birthweight, i.e. have not had births known to have weighed less than 400 grams excluded. 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

9 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.

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

11 The Australian Standard Geographical Classification versions used since 1993 have a category 'Other Territories' comprising Jarvis Bay, Christmas Island and Cocos (Keeling) Islands. In the past, Jarvis Bay was included with Australian Capital Territory and the two island Territories were included in Off-Shore Areas and Migratory. From 1997, statistics for 'Other Territories' are included in the Australian totals.

CAUSE OF DEATH
CLASSIFICATION USED

12 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.

13 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.

14 Tables 1.1, 1.3, 2.2, 2.3 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.

15 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.

16 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.

17 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).

18 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

19 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

20 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;
- Where the person died in a violent or unnatural manner;
- Where the person died during or as a result of an anaesthetic;
- Where the person was 'held in care' or in custody immediately before they died; and
- Where the identity of the person who has died is unknown.

21 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

22 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.

23 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 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 2004 data

24 Care should be taken in interpreting results in recent years for the following areas within *Chapter XX: External causes of morbidity and mortality*. In regard to the impacts on quality resulting from lags in finalising coronial processes, ABS is investigating options for revising deaths data to capture more complete cause of death information.

RECENT IMPROVEMENTS

25 *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%) and again in 2004 (more than double the 2003 recorded level), whereas in previous years the deaths may have been attributed to other causes such as hypostatic pneumonia.

ANALYSING SMALL NUMBERS

26 *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. In particular, the number of deaths coded to Disorders related to short gestation and low birth weight, not elsewhere classified (P07) more than doubled between 2003 and 2004.

Specific Issues for 2004 data

continued

QUALITY AFFECTED BY DELAYS

27 *Suicide (X60-X84)* - There has been an increase in recent years in the number of open coroners' cases. Where 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.

28 The number of deaths coded to Intentional self-harm (suicides) has declined in recent years which may in part reflect the increase in open coroners' cases when the statistics were finalised.

29 *Assault (X85-Y09)* - The increase in the number of coroners' cases not closed at the time the ABS finalised the 2004 deaths file is expected to have contributed significantly to the 41% decline in the number of deaths coded as due to assaults in 2004.

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 1.6, Indigenous deaths data for 2004 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 20 when interpreting 2004 data.

Confidentialisation

31 In fulfilling its functions the ABS collects information in pursuance of sections 10 and 11 of the *Census and Statistics Act*. Once supplied to the ABS this information is deemed to have been "furnished in pursuance of the Act" and is protected by the secrecy provisions of section 19 of the Act.

32 The provisions of subsection 12(2) of the Act place a requirement on the Statistician to publish and disseminate statistics but not in a manner that is likely to enable the identification of a particular person or organisation

33 To maintain the confidentiality of individuals, affected cells are replaced with *np*.

BIRTHS DATA

34 Appendix 2 provides details of the number of live births registered which have been used to calculate the infant death rates shown in this publication. Appendix 3 provides data on adjusted births used for calculating perinatal death rates. These also enable further rates to be calculated.

ACKNOWLEDGMENT

35 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. Information received and collected by the ABS is treated in strict confidence as required by the *Census and Statistics Act 1905*.

RELATED PRODUCTS

36 Other ABS products which may be of interest include:

- Statistics — electronic data* available at www.abs.gov.au.
- 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. no. 3314.0 — issued irregularly

RELATED PRODUCTS *continued*

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: Multiple Cause of Death Analysis, cat. no. 3319.0.55.001
 — issued irregularly
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

37 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 you 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.

38 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.

39 As well as the statistics included in this and related publications, additional information is available from the ABS web site at <<http://www.abs.gov.au>> by accessing Themes/Health.

DATA AVAILABLE ON
REQUEST

40 More detailed cause of death information is available upon request from the ABS. This information can comprise standard tables (see Appendix 1) or customised tabulations (by hardcopy or electronic media). Unit record files are available to approved users upon application. Generally, a charge is made for providing information upon request.

41 Perinatal tabulations for Australia based on national (see Explanatory Notes, paragraph 4 and 5) and international definitions are available upon request. The WHO international definition comprises all fetuses and infants (who die within seven days of birth) weighing at least 1,000 grams or (when birthweight is unavailable) having the corresponding gestational age (28 weeks) or body length (35 centimetres crown-heel). A charge is made for providing this information.

42 For more information about cause of death statistics or data concepts contact the National Information Service on 1300 135 070.

EFFECTS OF ROUNDING

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

GENERAL

Causes of death data are available from calendar year 1964, through the ABS special data service. The data conform to the different revisions of the ICD, namely:

- ICD-7 1964–1967
- ICD-8 1968–1978
- ICD-9 1979–1996
- ICD-10 1997–2004

Documentation is available detailing the relationship between the various revisions of ICD. In 2004, death data is coded to the 4-digit level in ICD-10 for External causes of death (V01-Y98). Detailed data tables excluded from the national cause of death publication since 1984 are available on microfiche up to 1996 or through the special data service.

DATA ITEMS FOR
CROSS-TABULATION WITH
CAUSES OF DEATH

The following variables relating to the deceased are available, subject to standard ABS Confidentiality rules, for both underlying and multiple causes of death:

- State or territory of registration of the death
- Month and year of registration of the death
- Place of usual residence
 - State or Territory
 - Statistical Division
 - Statistical Local Area
- Occupation
 - From 1990 - Males and females aged 15 years and over
 - Pre-1990 - Males aged 15–64 years only
 - 1985–1990 - Females aged 15–59 years only
- Sex
- Age
 - In completed days under one week
 - In completed days under one month
 - In completed months under one year
 - In completed years other ages
- Date of death
- Country of birth
- Duration of residence in Australia (where not Australian-born)
- Marital status
- Number of issue
- Indigenous status
- Post-mortem indicator (not available for all states)
- Drowning indicator (1992-2002)
- AIDS indicator (where AIDS is mentioned on the death certificate, whether the underlying cause or not) (up to 1997)
- Certifier of cause of death (doctor or coroner)
- Cancer indicator (where cancer is mentioned on the death certificate, whether the underlying cause or not) (up to 1997)

DATA INPUT

The following tables contain data used in calculating the various rates referred to in this publication. Table A2.1 is used to calculate infant death rates while table A2.2 is used to calculate age-specific death rates.

A2.1 A2.1 LIVE BIRTHS REGISTERED(a), By usual residence of mother—2004

Sex	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust(b)
Males	44 339	31 925	25 586	8 793	12 968	3 022	1 801	2 156	130 600
Females	41 555	30 492	24 354	8 347	12 327	2 787	1 750	2 018	123 646
Persons	85 894	62 417	49 940	17 140	25 295	5 809	3 551	4 174	254 246

(a) Used to calculate infant death rates.

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

A2.2 A2.2 ESTIMATED RESIDENT POPULATION AT 30 JUNE 2004, 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	129 234	1 911 961	1 416 056	1 439 267	1 494 836	1 370 353	1 063 317	669 826	402 090	93 573	9 990 513
Female	121 802	1 815 754	1 346 713	1 437 740	1 509 205	1 385 964	1 044 403	704 966	532 415	202 029	10 100 991
Persons	251 036	3 727 715	2 762 769	2 877 007	3 004 041	2 756 317	2 107 720	1 374 792	934 505	295 602	20 091 504

400 GRAMS/20 WEEKS
GESTATION

The following tables contain births data used in calculating perinatal death rates. Tables A3.1, A3.2, and A3.3 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.

A3.1 A3.1 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	44 331	31 925	25 586	8 788	12 965	3 022	1 799	2 156	130 582
Females	41 551	30 490	24 354	8 340	12 325	2 787	1 749	2 018	123 630
Stillbirths(c)									
Male	197	213	150	55	79	12	12	14	732
Female	181	198	114	32	60	14	9	7	615
Total									
Males	44 528	32 138	25 736	8 843	13 044	3 034	1 811	2 170	131 314
Females	41 732	30 688	24 468	8 372	12 385	2 801	1 758	2 025	124 245
Persons	86 260	62 826	50 204	17 215	25 429	5 835	3 569	4 195	255 559

- (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 8 for further information.
- (c) Including those where heartbeat ceased before or after the delivery is not known.

A3.2 A3.2 ADJUSTED BIRTHS (a), By sex of child 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	5 602	18 485	35 440	44 984	21 589	4 328	154	130 582
Females	5 253	17 658	33 394	42 402	20 546	4 230	147	123 630
Stillbirths(b)								
Male	73	123	169	224	107	32	4	732
Female	68	96	155	169	93	31	3	615
Total								
Male	5 675	18 608	35 609	45 208	21 696	4 360	158	131 314
Female	5 321	17 754	33 549	42 571	20 639	4 261	150	124 245
Persons	10 996	36 362	69 158	87 779	42 335	8 621	308	255 559

- (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*

A3.3 A3.3 ADJUSTED BIRTHS (a), By sex

	LIVE BIRTHS			STILLBIRTHS (b)			TOTAL		
	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons
1994	132 610	125 408	258 018	798	615	1 413	133 408	126 023	259 431
2000	128 166	121 429	249 595	692	611	1 303	128 858	122 040	250 898
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

- (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 4 to 8 for further information.
- (b) Including those where heartbeat ceased before or after the delivery is not known.

500 GRAMS/22 WEEKS
GESTATION

Table A3.4 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.

A3.4 A3.4 ADJUSTED BIRTHS (a), By sex

	LIVE BIRTHS			STILLBIRTHS (b)			TOTAL		
	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons
1994	132 584	125 388	257 972	692	516	1 208	133 276	125 904	259 180
2000	128 139	121 406	249 545	570	506	1 076	128 709	121 912	250 621
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

- (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, paragraph 4 to 8 for further information.
- (b) Including those where 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. 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 5 provides comparability factors to assist with the linking of manually and automatedly coded data.

INTRODUCTION

Comparability of mortality data 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.

A5.1 A5.1 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 A5.2.

A5.2 A5.2 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 A5.3 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.

A5.3 A5.3 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

A5.3 A5.3 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

A5.3 A5.3 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 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
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 2004

N_x = estimated number of persons resident in Australia aged x years at 30 June 2004

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 4.
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 4–6).

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 11 to 17 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 6–8).
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 4–6).
Perinatal death	A perinatal death is a fetal death or neonatal death. (A birthweight criterion applies. See Explanatory Notes, paragraphs 4–6).
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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