

CAUSES OF DEATH

AUSTRALIA

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C O N T E N T S

	<i>page</i>
Notes	2
List of Tables	3

DETAILED INFORMATION

1 Underlying cause of death	4
2 Multiple cause of death	32
3 Perinatal deaths	50
4 Year of occurrence	61

ADDITIONAL INFORMATION

Explanatory Notes	65
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APPENDIXES

1 Data available on request	69
2 Data used in calculating rates	71
3 Data used for perinatal deaths	72
4 Enhanced death data	74
5 Comparability of data over time	76
Technical Note	81
Glossary	82

I N Q U I R I E S

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

NOTES

ABOUT THIS PUBLICATION

This publication brings together statistics and indicators for deaths, including perinatal deaths registered in Australia. 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.

Deaths from external causes are attributed to the event leading to the fatal injury as described in Chapter XX of International Classification of Diseases and Related Health Problems Revision 10 (ICD-10). Data relating to Chapter XIX, Injury, poisoning and certain other consequences of external causes, refer to the nature of injury and are not relevant to underlying causes of death.

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ABBREVIATIONS

ABS	Australian Bureau of Statistics
ACS	automated coding system
AIDS	Acquired Immune Deficiency Syndrome
HIV	Human Immunodeficiency Virus
ICD	International Classification of Diseases
ICD-10	International Classification of Diseases 10th Revision
ICD-9	International Classification of Diseases, 9th Revision
ICD-9-CM	International Classification of Diseases, 9th Revision, Clinical Modification
NCHS	National Centre for Health Statistics
USA	United States of America
WHO	World Health Organization
YPLL	years of potential life lost

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LIST OF TABLES

page

UNDERLYING CAUSE OF DEATH

1.1	Selected causes - Australia	8
1.2	Selected causes and age at death, numbers and rates	10
1.3	Selected years, standardised death rates	15
1.4	State or territory of usual residence - Ages 0-44 years	19
1.5	State or territory of usual residence - Ages 45-64 years	21
1.6	State or territory of usual residence - Ages 65 years and over	23
1.7	State or territory of usual residence - All Ages	25
1.8	Standardised death rates and state or territory of usual residence	27
1.9	Indigenous people and state or territory of usual residence	28
1.10	Years of potential life lost	31

MULTIPLE CAUSES OF DEATH

2.1	Distribution of deaths, number of causes per death and age	34
2.2	Underlying and number of causes of death reported	35
2.3	Underlying and multiple causes of death, number and ratios	37
2.4	Causes of death, underlying cause and most common associated causes	40
2.5	Causes of death, associated cause and underlying cause	42
2.6	Nature of injury, external cause	44

PERINATAL DEATHS

3.1	Fetal, neonatal and perinatal deaths, 500 grams/22 weeks	53
3.2	Fetal, neonatal and perinatal deaths, 400 grams/20 weeks	53
3.3	State or territory of usual residence of mother	54
3.4	Age of mother	54
3.5	Main cause of fetal, neonatal and perinatal deaths	55
3.6	Birthweight	57
3.7	Period of gestation	59

YEAR OF OCCURRENCE

4.1	Selected underlying causes	63
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CHAPTER 1

UNDERLYING CAUSE OF DEATH

INTRODUCTION

All deaths registered in 2003 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. For further explanation on cause of death classification and comparability with the previous version, ICD-9 refer to Explanatory Notes, paragraphs 13-19 and Appendix 5.

CAUSES OF DEATH

There were 132,292 deaths registered in 2003. Males comprised 51.7% of all deaths (68,330) registered in 2003, compared with 51.5% of deaths in 2002 and 52.0% of registered deaths in 2001. Female deaths comprised 48.3% of all deaths (63,962) in 2003 compared with 48.5% of all deaths in 2002 and 48.1% of all deaths registered in 2001.

The standardised death rate recorded in 2003 was 642 deaths per 100,000 population, 19.7% lower than the standardised death rate of 800 deaths per 100,000 population for 1993. The standardised death rate for males in 2003 was 792 per 100,000, compared with 1020 deaths per 100,000 in 1993. In the same period female standardised death rates have decreased from 635 per 100,000 population to 523 per 100,000.

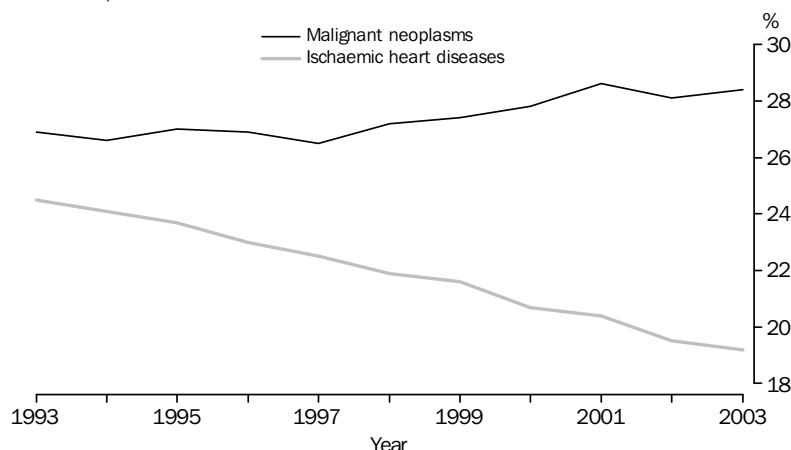
The Northern Territory recorded the highest standardised death rate (892 deaths per 100,000 population) in 2003, while the ACT recorded the lowest rate (583 deaths per 100,000 population). While the Northern Territory had the highest death rate, it also experienced the largest decline of any state or territory between 1993 and 2003, decreasing by 24.0%.

Malignant neoplasms were the main underlying cause of 37,558 deaths, comprising 28.4% of all deaths in 2003. In 2002, Malignant neoplasms (37,622) comprised a slightly lower share of all deaths with 28.1% of all causes. Ischaemic heart diseases was the underlying cause of 25,439 deaths in 2003, and 26,063 deaths in 2002. These numbers represented 19.5% and 19.2% of all deaths in 2002 and 2003 respectively. As the graph below shows, the difference in the proportion of deaths due to Malignant neoplasms and Ischaemic heart diseases continues to widen since 1993. The proportion of deaths due to Ischaemic heart diseases has consistently decreased from 24.5% over this period, while the proportion of deaths due to Malignant neoplasms has increased from 26.9%.

CAUSES OF DEATH

continued

DEATHS, BY SELECTED CAUSE—AUSTRALIA

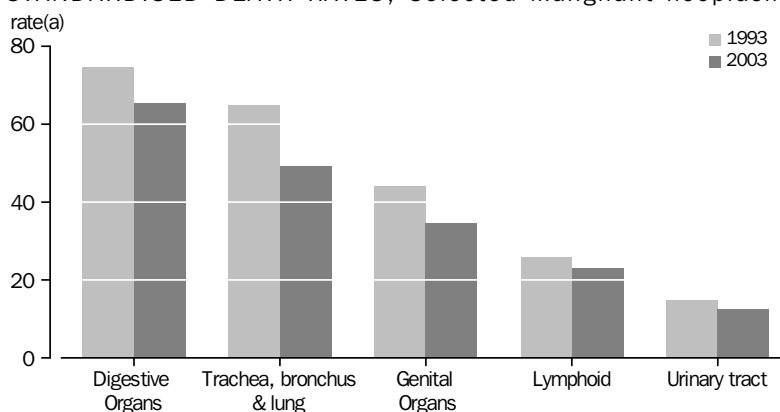


MALIGNANT NEOPLASMS

The standardised death rate from Malignant neoplasms was 183 deaths per 100,000 population in 2003 compared to 209 per 100,000 in 1993, representing a decrease of 12.1%. While there have been decreases for most types of cancers between 1993 and 2003, the standardised death rates have increased for the cancers of the Oesophagus (+5.8%), Liver and intrahepatic bile ducts (+41.9%) and Melanoma of skin (+1.9%).

For males, the standardised death rate from Malignant neoplasms decreased 15.0% from 276 to 234 per 100,000 population between 1993 and 2003. The corresponding decrease for females was 10.8%, with rates of 163 per 100,000 in 1993 and 145 per 100,000 in 2003. Increases in the standardised death rate in particular types of cancers for males between 1993 and 2003 include; Oesophagus (+5.1%), Liver and intrahepatic bile ducts (+37.5%) and Melanoma of skin (+2.5%). For females, the standardised death rate increased for cancer types Liver and intrahepatic bile ducts (+56.3%), Pancreas (+5.1%), Trachea, bronchus and lung (+5.7%) and Melanoma of skin (+6.2%).

STANDARDISED DEATH RATES, Selected Malignant neoplasms—Males

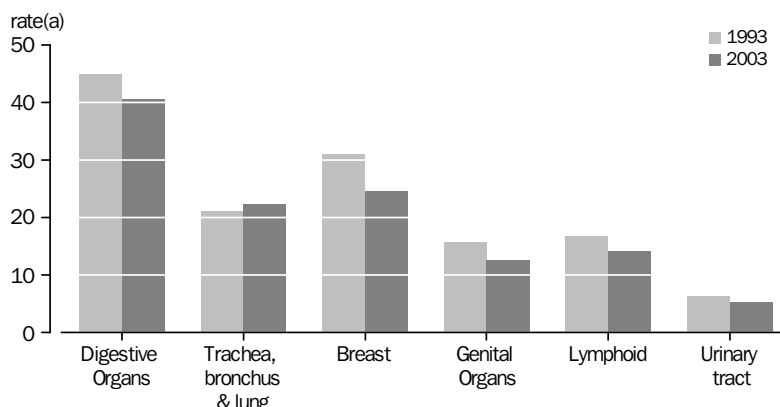


(a) Per 100,000 estimated resident population.

MALIGNANT NEOPLASMS

continued

STANDARDISED DEATH RATES, Selected Malignant neoplasms —Females



(a) Per 100,000 estimated resident population.

EXTERNAL CAUSES

External causes relate to deaths from accidents, poisonings and violence. In 2003, External causes accounted for 7,749 deaths, or 5.6% of all registered deaths. The standardised death rate was 39 per 100,000 of population. The corresponding rate for 1993 was 41 per 100,000. The standardised death rate has continued to fall for Transport accidents, from 26.7 per 100,000 population in 1993 to 24.1 per 100,000 in 2003.

The standardised death rate in 2003 from Intentional self-harm (suicide) was 17.7 per 100,000 males and 4.7 per 100,000 females, which were both decreases from the respective rates recorded in 2002 (18.8 per 100,000 males and 5.0 per 100,000 females). There were 2,213 deaths attributed to suicide registered in 2003, 4.6% less than in 2002.

DEATHS OF INDIGENOUS PEOPLE

Data on deaths of Aboriginal and Torres Strait Islander Australians are affected by differing levels of coverage across states and territories of deaths identified as Indigenous (see Explanatory Notes, paragraph 23, for further information). Care should be exercised in analysing these data, particularly in making comparisons across states and territories and between the Indigenous and non-Indigenous data. The proportions presented in Table 1.9 have not been adjusted to account for the different age structures of the Indigenous and non-Indigenous populations.

In the selected states and territory for which data are presented in Table 1.9, Indigenous and non-Indigenous persons in 2003 had the same two main causes of death: Malignant neoplasms and Ischaemic heart diseases, although the proportional distribution of these deaths differed across the two populations.

While direct comparisons across these jurisdictions are subject to the variable coverage of reported Indigenous deaths, it is apparent that deaths from External causes was also a major contributor to deaths among Indigenous people in these jurisdictions, ranging from approximately 12% in New South Wales to 20% in South Australia.

YEARS OF POTENTIAL LIFE LOST (YPLL)

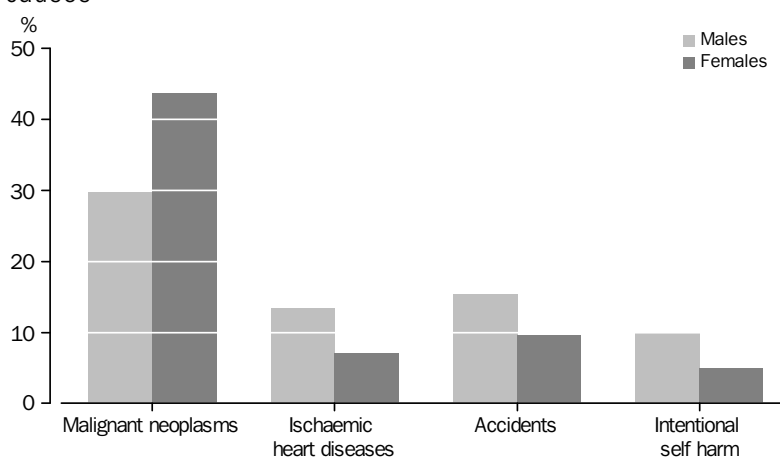
A measure of premature mortality is YPLL for deaths occurring between the ages of 1 year and 78 years inclusive. (Refer to the Technical Note for further detail). In 2003, the estimates of YPLL were 637,067 years for males and 349,445 years for females for all causes of death.

YEARS OF POTENTIAL
LIFE LOST (YPLL)
continued

There are significant differences in YPLL's between the sexes for particular underlying causes. The proportion of YPLL lost from Malignant neoplasms for males aged 1-78 years was 30.1% and for females in this age group it was 44.2%. However, the proportion of Malignant neoplasms was reported in 37.4% of all male deaths and 43.9% of all female deaths aged 1-78 years.

Similarly, in males aged 1-78 years, prostate cancer was reported as the underlying cause in 3.4% of all deaths but comprised only 1.6% of the total YPLL, whereas for females in the same age group, breast cancer was reported as the underlying cause in 8.2% of all deaths representing 10.3% of total YPLL for females.

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	2001		2002		2003	
	Males	Females	Males	Females	Males	Females
All Causes	66 835	61 709	68 885	64 822	68 330	63 962
Chapter I Certain infectious and parasitic diseases (A00-B99)	887	788	952	838	926	828
Septicaemia (A40, A41)	442	531	507	572	520	559
Human immunodeficiency virus (HIV) disease (B20-B24)(a)	134	14	119	12	114	12
Chapter II Neoplasms (C00-D48)	21 126	16 371	21 459	16 967	21 505	16 887
Malignant neoplasms (C00-C97)	20 753	15 997	21 041	16 581	21 081	16 477
Digestive Organs (C15-C26)	5 918	4 462	5 759	4 624	5 980	4 680
Oesophagus (C15)	711	333	684	323	771	362
Stomach (C16)	750	461	762	457	703	477
Colon (C18)	1 760	1 582	1 610	1 616	1 584	1 455
Rectosigmoid junction, rectum, anus and anal canal (C19-C21)	855	548	838	585	835	573
Liver and intrahepatic bile ducts (C22)	538	240	536	298	615	289
Pancreas (C25)	950	859	943	891	946	956
Trachea, bronchus and lung (C33-C34)	4 642	2 396	4 760	2 543	4 510	2 466
Melanoma of skin (C43)	686	383	716	339	759	373
Breast (C50)	27	2 585	18	2 698	9	2 713
Female genital organs (C51-C58)	—	1 506	—	1 527	—	1 410
Ovary (C56)	—	833	—	852	—	782
Male genital organs (C60-C63)	2 753	—	2 888	—	2 878	—
Prostate (C61)	2 711	—	2 852	—	2 842	—
Urinary tract (C64-C68)	1 162	662	1 193	646	1 123	622
Kidney, except renal pelvis (C64)	496	346	518	321	501	306
Bladder (C67)	629	275	644	282	589	280
Brain (C71)	631	448	652	492	652	471
Lymphoid, haematopoietic and related tissue (C81-C96)	1 997	1 663	2 126	1 665	2 074	1 638
Leukaemia (C91-C95)	803	582	843	581	808	596
In situ and benign neoplasms and neoplasms of uncertain or unknown behaviour (D00-D48)	373	374	418	386	424	410
Chapter III Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50-D89)	183	225	181	247	191	263
Chapter IV Endocrine, nutritional and metabolic diseases (E00-E90)	2 223	2 091	2 383	2 283	2 449	2 272
Diabetes mellitus (E10-E14)	1 639	1 439	1 771	1 558	1 807	1 582
Chapter V Mental and behavioural disorders (F00-F99)	1 073	1 631	1 254	1 918	1 243	1 998
Organic, including symptomatic, mental disorders (F00-F09)	683	1 454	841	1 706	889	1 807
Chapter VI Diseases of the nervous system (G00-G99)	1 894	2 310	2 145	2 477	1 916	2 408
Alzheimer's disease (G30)	497	1 110	565	1 286	481	1 131
Chapter VII Diseases of the eye and adnexa (H00-H59)	<i>np</i>	<i>np</i>	<i>np</i>	<i>np</i>	<i>np</i>	<i>np</i>
Chapter VIII Diseases of the ear and mastoid process (H60-H95)	<i>np</i>	<i>np</i>	<i>np</i>	<i>np</i>	<i>np</i>	<i>np</i>
Chapter IX Diseases of the circulatory system (I00-I99)	23 602	25 724	23 988	26 306	23 399	25 436
All heart disease (I05-I09, I11, I13, I20-I25, I26, I27, I30-I52)	17 027	16 620	17 278	16 895	16 838	16 223
Acute rheumatic fever and chronic rheumatic heart diseases (I00-I09)	82	160	83	191	97	190
Hypertensive diseases (I10-I15)	443	780	457	896	485	879
Ischaemic heart diseases (I20-I25)	13 906	12 328	13 855	12 208	13 534	11 905
Acute myocardial infarction (I21)	7 484	6 959	7 474	6 844	6 938	6 511
Pulmonary heart disease and diseases of pulmonary circulation and other forms of heart disease (I26-I52)	2 824	3 747	3 117	4 023	2 989	3 678
Heart Failure (I50)	982	1 630	1 033	1 696	969	1 463
Cerebrovascular diseases (I60-I69)	4 852	7 294	4 969	7 564	4 835	7 405
Diseases of arteries, arterioles and capillaries (I70-I79)	1 381	1 244	1 382	1 259	1 335	1 207
Atherosclerosis (I70)	175	282	175	324	170	247
Aortic aneurysm and dissection (I71)	793	545	836	550	813	514

— nil or rounded to zero (including null cells)

Note: np not for publication

(a) See Explanatory Notes, paragraph 19 for further information.

1.1UNDERLYING CAUSE OF DEATH, Selected causes—Australia *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)	5 725	4 901	6 169	5 499	6 224	5 668
Influenza and pneumonia (J10-J18)	1 184	1 518	1 353	1 731	1 558	2 008
Chronic lower respiratory diseases (J40-J47)	3 419	2 497	3 567	2 689	3 373	2 612
Emphysema (J43)	408	270	461	282	418	237
Asthma and status asthmaticus (J45, J46)	175	247	158	239	108	206
Chapter XI Diseases of the digestive system (K00-K93)	2 036	2 053	2 217	2 242	2 289	2 212
Diseases of oesophagus, stomach and duodenum (K20-K31)	301	333	285	356	282	326
Gastric and duodenal ulcer (K25-K27)	203	237	189	232	181	194
Diseases of liver (K70-K77)	822	374	918	436	983	407
Chapter XII Diseases of the skin and subcutaneous tissue (L00-L99)	106	159	119	215	109	196
Chapter XIII Diseases of the musculoskeletal system and connective tissue (M00-M99)	285	611	347	668	316	683
Arthropathies and systemic connective tissue disorders (M00-M36)	186	375	208	410	179	410
Chapter XIV Diseases of the genitourinary system (N00-N99)	1 242	1 570	1 333	1 650	1 339	1 662
Renal failure (N17-N19)	813	891	919	1 006	960	1 026
Chapter XV Pregnancy, childbirth and the puerperium (O00-O99)	—	12	—	12	—	8
Chapter XVI Certain conditions originating in the perinatal period (P00-P96)	395	286	372	303	341	266
Fetus and newborn affected by maternal factors and by complications of pregnancy, labour and delivery (P00-P04)	197	189	193	170	219	175
Chapter XVII Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	335	279	316	279	316	281
Congenital malformations of the circulatory system (Q20-Q28)	117	98	125	99	124	95
Chapter XVIII Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00-R99)	272	263	375	365	488	409
Chapter XX External causes of morbidity and mortality (V01-Y98)	5 446	2 430	5 271	2 549	5 273	2 476
Accidents (V01-X59)	3 155	1 685	3 099	1 807	3 100	1 765
Transport accidents (V01-V99)	1 495	509	1 403	504	1 336	475
Falls (W00-W19)	354	280	334	295	379	330
Accidental drowning and submersion (W65-W74)	210	51	176	56	143	58
Intentional self-harm (X60-X84)	1 935	519	1 817	503	1 736	477
Hanging, strangulation and suffocation (X70)	855	195	846	199	820	176
Assault (X85-Y09)	192	108	187	104	196	82

— nil or rounded to zero (including null cells)

Note: np not for publication

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	677	522	1 199	5.2	4.3	4.8
Certain conditions originating in the perinatal period (P00-P96)	335	264	599	2.6	2.2	2.4
Fetus and newborn affected by maternal factors and by complications of pregnancy, labour and delivery (P00-P04)	219	174	393	1.7	1.4	1.6
Disorders related to short gestation and low birth weight, not elsewhere classified (P07)	23	14	37	0.2	0.1	0.2
Respiratory and cardiovascular disorders specific to the perinatal period (P20-P29)	44	45	89	0.3	0.4	0.4
Infections specific to the perinatal period (P35-P39)	14	8	22	0.1	0.1	0.1
Haemorrhagic and haematological disorders of fetus and newborn (P50-P61)	17	8	25	0.1	0.1	0.1
Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	154	125	279	1.2	1.0	1.1
Congenital malformations of the nervous system (Q00-Q07)	23	26	49	0.2	0.2	0.2
Congenital malformations of the circulatory system (Q20-Q28)	47	35	82	0.4	0.3	0.3
Congenital malformations of the respiratory system (Q30-Q34)	10	9	19	0.1	0.1	0.1
Sudden infant death syndrome (R95)	44	29	73	0.3	0.2	0.3
1-14 years	323	253	576	16.9	13.9	15.4
Malignant neoplasms (C00-C97)	58	36	94	3.0	2.0	2.5
Brain (C71)	14	13	27	0.7	0.7	0.7
Lymphoid, haematopoietic and related tissue (C81-C96)	25	12	37	1.3	0.7	1.0
Leukaemia (C91-C95)	20	12	32	1.0	0.7	0.9
Diseases of the nervous system (G00-G99)	39	27	66	2.0	1.5	1.8
Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	23	19	42	1.2	1.0	1.1
External causes of morbidity and mortality (V01-Y98)	121	110	231	6.3	6.1	6.2
Transport accidents (V01-V99)	64	49	113	3.3	2.7	3.0
Accidental drowning and submersion (W65-W74)	18	19	37	0.9	1.0	1.0
15- 24 years	1 068	399	1 467	76.1	29.6	53.3
Malignant neoplasms (C00-C97)	64	51	115	4.6	3.8	4.2
Lymphoid, haematopoietic and related tissue (C81-C96)	16	18	34	1.1	1.3	1.2
Leukaemia (C91-C95)	12	10	22	0.9	0.7	0.8
Mental and behavioural disorders due to psychoactive substance use (F10-F19)	11	6	17	0.8	0.4	0.6
Diseases of the nervous system (G00-G99)	44	25	69	3.1	1.9	2.5
External causes of morbidity and mortality (V01-Y98)	801	220	1 021	57.0	16.3	37.1
Transport accidents (V01-V99)	359	102	461	25.6	7.6	16.7
Intentional self-harm (X60-X84)	251	49	300	17.9	3.6	10.9

(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.

Note: np not for publication

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	1 495	630	2 125	104.2	43.6	73.8
Malignant neoplasms (C00-C97)	127	161	288	8.8	11.2	10.0
Digestive organs (C15-C26)	15	24	39	1.0	1.7	1.4
Melanoma of skin (C43)	11	9	20	0.8	0.6	0.7
Breast (C50)	—	31	31	—	2.1	1.1
Brain (C71)	27	18	45	1.9	1.2	1.6
Lymphoid, haematopoietic and related tissue (C81-C96)	37	26	63	2.6	1.8	2.2
Mental and behavioural disorders due to psychoactive substance use (F10-F19)	31	12	43	2.2	0.8	1.5
Diseases of the circulatory system (I00-I99)	134	56	190	9.3	3.9	6.6
Ischaemic heart diseases (I20-I25)	55	14	69	3.8	1.0	2.4
Acute myocardial infarction (I21)	23	6	29	1.6	0.4	1.0
Diseases of the digestive system (K00-K93)	26	16	42	1.8	1.1	1.5
Diseases of liver (K70-K77)	16	7	23	1.1	0.5	0.8
External causes of morbidity and mortality (V01-Y98)	988	239	1 227	68.8	16.6	42.6
Transport accidents (V01-V99)	250	50	300	17.4	3.5	10.4
Intentional self-harm (X60-X84)	407	111	518	28.4	7.7	18.0
35 - 44 years	2 308	1 277	3 585	155.2	84.9	119.9
Malignant neoplasms (C00-C97)	445	539	984	29.9	35.9	32.9
Digestive organs (C15-C26)	137	101	238	9.2	6.7	8.0
Melanoma of skin (C43)	52	24	76	3.5	1.6	2.5
Breast (C50)	np	np	185	np	np	6.2
Brain (C71)	57	31	88	3.8	2.1	2.9
Lymphoid, haematopoietic and related tissue (C81-C96)	58	49	107	3.9	3.3	3.6
Mental and behavioural disorders due to psychoactive substance use (F10-F19)	40	23	63	2.7	1.5	2.1
Diseases of the circulatory system (I00-I99)	399	164	563	26.8	10.9	18.8
Ischaemic heart diseases (I20-I25)	238	49	287	16.0	3.3	9.6
Acute myocardial infarction (I21)	88	24	112	5.9	1.6	3.7
Diseases of the digestive system (K00-K93)	105	66	171	7.1	4.4	5.7
Diseases of liver (K70-K77)	84	51	135	5.6	3.4	4.5
External causes of morbidity and mortality (V01-Y98)	933	267	1 200	62.8	17.8	40.1
Transport accidents (V01-V99)	215	61	276	14.5	4.1	9.2
Intentional self-harm (X60-X84)	381	102	483	25.6	6.8	16.2
45–54 years	4 043	2 487	6 530	300.0	182.5	240.9
Malignant neoplasms (C00-C97)	1 391	1 413	2 804	103.2	103.7	103.5
Digestive organs (C15-C26)	459	293	752	34.1	21.5	27.7
Colon (C18)	106	97	203	7.9	7.1	7.5
Trachea, bronchus, and lung (C33, C34)	259	194	453	19.2	14.2	16.7
Breast (C50)	—	427	427	—	31.3	15.8
Lymphoid, haematopoietic and related tissue (C81-C96)	142	81	223	10.5	5.9	8.2
Diseases of the circulatory system (I00-I99)	1 061	383	1 444	78.7	28.1	53.3
Ischaemic heart diseases (I20-I25)	732	166	898	54.3	12.2	33.1
Acute myocardial infarction (I21)	286	79	365	21.2	5.8	13.5
Cerebrovascular diseases (I60-I69)	124	108	232	9.2	7.9	8.6
Diseases of the respiratory system (J00-J99)	125	89	214	9.3	6.5	7.9
Diseases of the digestive system (K00-K93)	271	90	361	20.1	6.6	13.3
Diseases of liver (K70-K77)	222	60	282	16.5	4.4	10.4
External causes of morbidity and mortality (V01-Y98)	662	224	886	49.1	16.4	32.7
Transport accidents (V01-V99)	158	49	207	11.7	3.6	7.6
Intentional self-harm (X60-X84)	299	93	392	22.2	6.8	14.5

— nil or rounded to zero (including null cells)

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

Note: np not for publication

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	7 635	4 501	12 136	746.6	449.7	599.7
Malignant neoplasms (C00-C97)	3 449	2 565	6 014	337.3	256.3	297.2
Digestive organs (C15-C26)	1 131	620	1 751	110.6	61.9	86.5
Colon (C18)	292	193	485	28.6	19.3	24.0
Trachea, bronchus, and lung (C33, C34)	825	445	1 270	80.7	44.5	62.8
Breast (C50)	np	np	598	np	np	29.6
Female genital organs (C51-C58)	—	267	267	—	26.7	13.2
Male genital organs (C60-C63)	191	—	191	18.7	—	9.4
Diseases of the circulatory system (I00-I99)	2 104	767	2 871	205.7	76.6	141.9
Ischaemic heart diseases (I20-I25)	1 454	390	1 844	142.2	39.0	91.1
Acute myocardial infarction (I21)	672	189	861	65.7	18.9	42.5
Cerebrovascular diseases (I60-I69)	272	173	445	26.6	17.3	22.0
Diseases of the respiratory system (J00-J99)	381	324	705	37.3	32.4	34.8
Chronic lower respiratory diseases (J40-J47)	243	226	469	23.8	22.6	23.2
Diseases of the digestive system (K00-K93)	372	166	538	36.4	16.6	26.6
External causes of morbidity and mortality (V01-Y98)	460	166	626	45.0	16.6	30.9
65–74 years	14 038	8 295	22 333	2 139.3	1 195.7	1 654.4
Malignant neoplasms (C00-C97)	5 966	3 598	9 564	909.2	518.6	708.5
Digestive organs (C15-C26)	1 786	1 007	2 793	272.2	145.2	206.9
Colon (C18)	467	314	781	71.2	45.3	57.9
Trachea, bronchus, and lung (C33, C34)	1 521	678	2 199	231.8	97.7	162.9
Breast (C50)	np	np	517	np	np	38.3
Prostate (C61)	630	—	630	96.0	—	46.7
Lymphoid, haematopoietic and related tissue (C81-C96)	561	360	921	85.5	51.9	68.2
Endocrine, nutritional and metabolic diseases (E00-E90)	624	351	975	95.1	50.6	72.2
Diabetes mellitus (E10-E14)	505	262	767	77.0	37.8	56.8
Diseases of the nervous system (G00-G99)	321	264	585	48.9	38.1	43.3
Alzheimer's disease (G30)	43	60	103	6.6	8.6	7.6
Diseases of the circulatory system (I00-I99)	4 332	2 271	6 603	660.2	327.4	489.1
Ischaemic heart diseases (I20-I25)	2 737	1 114	3 851	417.1	160.6	285.3
Acute myocardial infarction (I21)	1 407	651	2 058	214.4	93.8	152.5
Cerebrovascular diseases (I60-I69)	730	579	1 309	111.2	83.5	97.0
Diseases of the respiratory system (J00-J99)	1 180	732	1 912	179.8	105.5	141.6
Chronic lower respiratory diseases (J40-J47)	778	498	1 276	118.6	71.8	94.5
Diseases of the digestive system (K00-K93)	449	288	737	68.4	41.5	54.6

— 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.

Note: np not for publication

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	22 391	19 544	41 935	5 790.9	3 762.0	4 627.7
Malignant neoplasms (C00-C97)	6 971	5 096	12 067	1 802.9	980.9	1 331.7
Digestive organs (C15-C26)	1 848	1 586	3 434	477.9	305.3	379.0
Colon (C18)	501	476	977	129.6	91.6	107.8
Trachea, bronchus, and lung (C33, C34)	1 506	822	2 328	389.5	158.2	256.9
Breast (C50)	3	578	581	0.8	111.3	64.1
Male genital organs (C60-C63)	1 266	—	1 266	327.4	—	139.7
Prostate (C61)	1 261	—	1 261	326.1	—	139.2
Lymphoid, haematopoietic and related tissue (C81-C96)	663	542	1 205	171.5	104.3	133.0
Endocrine, nutritional and metabolic diseases (E00-E90)	805	797	1 602	208.2	153.4	176.8
Diabetes mellitus (E10-E14)	600	571	1 171	155.2	109.9	129.2
Organic, including symptomatic, mental disorders (F00-F09)	348	443	791	90.0	85.3	87.3
Diseases of the nervous system (G00-G99)	648	747	1 395	167.6	143.8	153.9
Alzheimer's disease (G30)	194	321	515	50.2	61.8	56.8
Diseases of the circulatory system (I00-I99)	8 587	8 080	16 667	2 220.8	1 555.3	1 839.3
Ischaemic heart diseases (I20-I25)	4 789	3 940	8 729	1 238.6	758.4	963.3
Acute myocardial infarction (I21)	2 615	2 278	4 893	676.3	438.5	540.0
Cerebrovascular diseases (I60-I69)	1 982	2 327	4 309	512.6	447.9	475.5
Diseases of arteries, arterioles and capillaries (I70-I79)	546	423	969	141.2	81.4	106.9
Diseases of the respiratory system (J00-J99)	2 593	1 906	4 499	670.6	366.9	496.5
Chronic lower respiratory diseases (J40-J47)	1 477	1 031	2 508	382.0	198.5	276.8
Diseases of the digestive system (K00-K93)	615	671	1 286	159.1	129.2	141.9
Diseases of the genitourinary system (N00-N99)	543	532	1 075	140.4	102.4	118.6
External causes of morbidity and mortality (V01-Y98)	493	407	900	127.5	78.3	99.3
Falls (W00-W19)	90	98	188	23.3	18.9	20.7

— 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.

Note: np not for publication

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	14 339	26 053	40 392	15 684.6	13 151.3	13 951.2
Malignant neoplasms (C00-C97)	2 603	3 016	5 619	2 847.3	1 522.4	1 940.8
Digestive organs (C15-C26)	601	1 045	1 646	657.4	527.5	568.5
Colon (C18)	189	336	525	206.7	169.6	181.3
Pancreas (C25)	82	189	271	89.7	95.4	93.6
Trachea, bronchus, and lung (C33, C34)	350	276	626	382.8	139.3	216.2
Breast (C50)	—	383	383	—	193.3	132.3
Male genital organs (C60-C63)	734	—	734	802.9	—	253.5
Prostate (C61)	732	—	732	800.7	—	252.8
Lymphoid, haematopoietic and related tissue (C81-C96)	255	364	619	278.9	183.7	213.8
Endocrine, nutritional and metabolic diseases (E00-E90)	492	845	1 337	538.2	426.5	461.8
Diabetes mellitus (E10-E14)	370	601	971	404.7	303.4	335.4
Organic, including symptomatic, mental disorders (F00-F09)	457	1 298	1 755	499.9	655.2	606.2
Diseases of the nervous system (G00-G99)	449	1 039	1 488	491.1	524.5	513.9
Alzheimer's disease (G30)	232	726	958	253.8	366.5	330.9
Diseases of the circulatory system (I00-I99)	6 706	13 665	20 371	7 335.3	6 898.0	7 036.1
Ischaemic heart diseases (I20-I25)	3 522	6 231	9 753	3 852.5	3 145.3	3 368.6
Acute myocardial infarction (I21)	1 846	3 284	5 130	2 019.2	1 657.7	1 771.9
Pulmonary heart disease and diseases of pulmonary circulation and other forms of heart disease (I26-I52)	960	2 047	3 007	1 050.1	1 033.3	1 038.6
Heart failure (I50)	468	1 010	1 478	511.9	509.8	510.5
Cerebrovascular diseases (I60-I69)	1 648	4 144	5 792	1 802.6	2 091.9	2 000.5
Diseases of arteries, arterioles and capillaries (I70-I79)	382	615	997	417.8	310.4	344.4
Diseases of the respiratory system (J00-J99)	1 811	2 539	4 350	1 980.9	1 281.7	1 502.5
Influenza and pneumonia (J10-J18)	683	1 301	1 984	747.1	656.7	685.3
Chronic lower respiratory diseases (J40-J47)	768	772	1 540	840.1	389.7	531.9
Diseases of the digestive system (K00-K93)	434	908	1 342	474.7	458.3	463.5
Diseases of the genitourinary system (N00-N99)	495	878	1 373	541.5	443.2	474.2
Renal failure (N17-N19)	352	549	901	385.0	277.1	311.2
External causes of morbidity and mortality (V01-Y98)	390	639	1 029	426.6	322.6	355.4
Falls (W00-W19)	100	179	279	109.4	90.4	96.4

— 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.

Note: np not for publication

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

Cause of death and ICD code	1993			1998		
	Males	Females	Persons	Males	Females	Persons
All causes	1 020.4	635.2	800.2	910.0	578.2	722.6
Chapter I Certain infectious and parasitic diseases (A00-B99)	7.8	4.8	6.1	10.5	6.4	8.2
Septicaemia (A40, A41)	4.0	2.7	3.2	5.1	3.8	4.4
Human immunodeficiency virus (HIV) disease (B20-B24)(b)	7.9	0.3	4.1	1.5	0.1	0.8
Chapter II Neoplasms (C00-D48)	279.8	165.7	211.8	261.5	155.8	199.7
Malignant neoplasms (C00-C97)	275.7	163.0	208.6	256.6	152.9	196.0
Digestive organs (C15-C26)	74.6	45.0	57.8	69.6	42.9	54.7
Oesophagus (C15)	7.9	3.1	5.2	8.2	3.2	5.5
Stomach (C16)	12.1	5.1	8.0	9.8	4.4	6.7
Colon (C18)	25.6	18.3	21.4	22.3	16.5	19.1
Rectosigmoid junction, rectum, anus and anal canal (C19-C21)	9.6	5.4	7.3	9.5	5.1	7.0
Liver and intrahepatic bile ducts (C22)	4.8	1.6	3.1	5.2	2.1	3.6
Pancreas (C25)	11.1	7.9	9.4	10.4	8.0	9.0
Trachea, bronchus and lung (C33, C34)	64.8	21.0	39.9	59.3	20.7	37.5
Melanoma of skin (C43)	8.0	3.2	5.4	7.7	3.5	5.4
Breast (C50)	0.2	31.1	17.1	0.2	26.5	14.5
Female genital organs (C51-C58)	—	15.7	8.7	—	14.0	7.7
Ovary (C56)	—	8.0	4.4	—	7.6	4.1
Male genital organs (C60-C63)	44.1	—	17.0	37.4	—	14.7
Prostate (C61)	43.8	—	16.8	36.9	—	14.5
Urinary tract (C64-C68)	14.8	6.4	9.8	13.9	5.9	9.3
Kidney, except renal pelvis (C64)	5.4	3.5	4.3	5.6	3.2	4.3
Bladder (C67)	9.1	2.7	5.2	7.8	2.4	4.6
Brain (C71)	7.0	4.4	5.7	6.6	4.6	5.5
Lymphoid, haematopoietic and related tissue (C81-C96)	25.9	16.7	20.5	24.5	16.2	19.8
Leukaemia (C91-C95)	9.8	6.3	7.7	9.8	5.6	7.4
In situ and benign neoplasms and neoplasms of uncertain or unknown behaviour (D00-D48)	4.1	2.6	3.2	5.0	2.9	3.7
Chapter III Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50-D89)	9.3	2.9	6.1	2.9	2.3	2.5
Chapter IV Endocrine, nutritional and metabolic diseases (E00-E90)	25.7	18.6	21.6	26.8	19.1	22.4
Diabetes mellitus (E10-E14)	20.3	14.5	16.9	20.2	13.5	16.3
Chapter V Mental and behavioural disorders (F00-F99)	17.0	14.9	16.2	19.2	13.5	16.4
Organic, including symptomatic, mental disorders (F00-F09)	11.6	12.9	12.6	10.4	10.6	10.6
Class VI Disease of the nervous system (G00-G99)	23.0	15.6	18.5	24.6	18.9	21.3
Alzheimer's disease (G30)	7.4	6.7	7.0	7.9	9.0	8.6
Chapter VII Diseases of the eye and adnexa (H00-H59)	<i>np</i>	<i>np</i>	<i>np</i>	<i>np</i>	<i>np</i>	<i>np</i>
Chapter VIII Diseases of the ear and mastoid process (H60-H95)	<i>np</i>	<i>np</i>	<i>np</i>	<i>np</i>	<i>np</i>	<i>np</i>
Chapter IX Diseases of the circulatory system (I00-I99)	440.6	299.9	362.2	361.1	248.3	298.5
All heart disease (I05-I09, I11, I13, I20-I25, I26, I27, I30-I52)	321.1	197.2	251.5	262.4	163.1	206.9
Acute rheumatic fever and chronic rheumatic heart diseases (I00-I09)	1.8	2.8	2.4	0.9	1.5	1.2
Hypertensive diseases (I10-I15)	7.2	8.0	7.8	6.3	7.2	7.0
Ischaemic heart diseases (I20-I25)	264.0	149.8	199.5	213.8	122.0	162.4
Acute myocardial infarction (I21)	164.8	93.3	124.4	119.2	69.1	91.0
Pulmonary heart disease and diseases of pulmonary circulation and other forms of heart disease (I26-I52)	51.4	40.0	45.2	44.5	35.5	39.4
Heart failure (I50)	22.7	19.0	20.5	17.7	15.6	16.5
Cerebrovascular diseases (I60-I69)	85.8	81.7	84.4	73.6	68.3	71.2
Diseases of arteries, arterioles and capillaries (I70-I79)	28.2	16.0	21.1	20.6	12.2	15.7
Atherosclerosis (I70)	6.3	6.2	6.3	3.4	3.4	3.4
Aortic aneurysm and dissection (I71)	15.3	5.6	9.5	11.9	5.1	7.9

— nil or rounded to zero (including null cells)

(b) See Explanatory Notes, paragraph 19 for further information.

(a) Standardised death rate per 100,000 of the mid-year 2003 population. See Glossary for further explanation.

Note: np not for publication

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

Cause of death and ICD code	1993			1998		
	Males	Females	Persons	Males	Females	Persons
Chapter X Diseases of the respiratory system (J00-J99)	92.4	42.2	61.4	76.4	41.2	54.9
Influenza and pneumonia (J10-J18)	14.8	9.6	11.6	13.6	10.7	11.9
Chronic lower respiratory diseases (J40-J47)	65.4	26.4	41.3	51.1	24.3	34.7
Emphysema (J43)	9.0	3.4	5.6	7.4	2.6	4.5
Asthma and status asthmaticus (J45, J46)	4.7	5.1	4.9	2.3	2.9	2.7
Chapter XI Diseases of the digestive system (K00-K93)	30.2	20.6	25.1	27.2	18.7	22.6
Diseases of oesophagus, stomach and duodenum (K20-K31)	6.2	4.6	5.4	4.6	3.2	3.8
Gastric and duodenal ulcer (K25-K27)	5.1	3.8	4.4	3.2	2.2	2.6
Diseases of liver (K70-K77)	10.5	3.9	7.0	10.2	4.0	6.9
Chapter XII Diseases of the skin and subcutaneous tissue (L00-L99)	1.3	1.2	1.2	1.5	1.5	1.5
Chapter XIII Diseases of the musculoskeletal system and connective tissue (M00-M99)	3.8	5.1	4.6	3.1	5.1	4.3
Arthropathies and systemic connective tissue disorders (M00-M36)	2.3	3.7	3.1	2.1	3.6	3.0
Chapter XIV Diseases of the genitourinary system (N00-N99)	16.3	12.0	13.4	18.8	14.0	15.7
Renal failure (N17-N19)	10.9	7.0	8.4	12.6	8.1	9.8
Chapter XV Pregnancy, childbirth and the puerperium (O00-O99)	—	0.2	0.1	—	0.1	—
Chapter XVI Certain conditions originating in the perinatal period (P00-P96)	4.1	3.0	3.6	3.3	2.7	3.0
Chapter XVII Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	4.2	3.7	3.9	3.5	2.9	3.2
Congenital malformations of the circulatory system (Q20-Q28)	1.6	1.4	1.5	1.2	1.0	1.1
Chapter XVIII Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00-R99)	3.8	2.8	3.4	4.1	2.8	3.5
Chapter XX External causes of morbidity and mortality (V01-Y98)	61.0	22.0	40.9	65.2	24.9	44.6
Accidents (V01-X59)	38.2	15.9	26.7	37.2	16.6	26.5
Transport accidents (V01-V99)	18.7	6.8	12.6	15.6	5.8	10.6
Falls (W00-W19)	3.6	1.4	2.3	3.6	1.9	2.6
Accidental drowning and submersion (W65-W74)	2.5	0.7	1.6	2.1	0.6	1.3
Intentional self-harm (X60-X84)	19.6	4.5	11.9	23.2	5.6	14.3
Hanging, strangulation and suffocation (X70)	5.8	1.0	3.3	11.0	1.9	6.4
Assault (X85-Y09)	2.4	1.3	1.8	2.1	1.1	1.6

— nil or rounded to zero (including null cells)

Note: np not for publication

(a) Standardised death rate per 100,000 of the mid-year 2003 population. See Glossary for further explanation.

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

Cause of death and ICD code	2002			2003		
	Males	Females	Persons	Males	Females	Persons
All causes	824.0	544.7	667.3	791.5	523.0	642.3
Chapter I Certain infectious and parasitic diseases (A00-B99)	11.3	7.1	8.9	10.7	6.8	8.5
Septicaemia (A40, A41)	6.4	4.7	5.4	6.3	4.5	5.2
Human immunodeficiency virus (HIV) disease (B20-B24)(b)	1.2	0.1	0.7	1.2	0.1	0.6
Chapter II Neoplasms (C00-D48)	246.5	153.5	192.4	239.4	148.8	187.2
Malignant neoplasms (C00-C97)	241.3	150.3	188.4	234.4	145.4	183.2
Digestive organs (C15-C26)	65.2	41.1	52.0	65.5	40.5	51.9
Oesophagus (C15)	7.7	2.8	5.0	8.3	3.1	5.5
Stomach (C16)	8.7	4.1	6.1	7.8	4.1	5.8
Colon (C18)	18.4	14.3	16.1	17.5	12.6	14.8
Rectosigmoid junction, rectum, anus and anal canal (C19-C21)	9.4	5.2	7.1	9.1	5.0	6.9
Liver and intrahepatic bile ducts (C22)	6.0	2.7	4.2	6.6	2.5	4.4
Pancreas (C25)	10.6	8.0	9.2	10.3	8.3	9.3
Trachea, bronchus and lung (C33, C34)	53.3	23.5	36.6	49.1	22.2	34.1
Melanoma of skin (C43)	8.0	3.1	5.3	8.2	3.4	5.5
Breast (C50)	0.2	25.1	13.6	0.1	24.6	13.3
Female genital organs (C51-C58)	—	14.1	7.6	—	12.7	6.9
Ovary (C56)	—	7.9	4.3	—	7.1	3.8
Male genital organs (C60-C63)	35.8	—	14.4	34.6	—	14.0
Prostate (C61)	35.5	—	14.2	34.2	—	13.8
Urinary tract (C64-C68)	14.1	5.6	9.2	12.7	5.3	8.5
Kidney, except renal pelvis (C64)	5.9	2.9	4.2	5.4	2.7	3.9
Bladder (C67)	7.9	2.4	4.6	6.9	2.3	4.2
Brain (C71)	6.9	4.7	5.7	6.8	4.4	5.5
Lymphoid, haematopoietic and related tissue (C81-C96)	24.4	15.0	19.0	23.1	14.2	18.1
Leukaemia (C91-C95)	9.6	5.2	7.1	9.0	5.2	6.9
In situ and benign neoplasms and neoplasms of uncertain or unknown behaviour (D00-D48)	5.2	3.2	4.0	5.0	3.4	4.0
Chapter III Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50-D89)	2.2	2.1	2.1	2.2	2.1	2.2
Chapter IV Endocrine, nutritional and metabolic diseases (E00-E90)	28.3	19.3	23.3	28.3	18.7	22.9
Diabetes mellitus (E10-E14)	21.2	13.2	16.6	20.9	12.9	16.5
Chapter V Mental and behavioural disorders (F00-F99)	16.2	14.9	15.7	15.6	14.9	15.6
Organic, including symptomatic, mental disorders (F00-F09)	11.7	12.9	12.6	11.8	13.2	12.9
Class VI Disease of the nervous system (G00-G99)	26.0	20.5	23.0	22.5	19.5	21.0
Alzheimer's disease (G30)	7.5	10.0	9.2	6.3	8.5	7.7
Chapter VII Diseases of the eye and adnexa (H00-H59)	<i>np</i>	<i>np</i>	<i>np</i>	<i>np</i>	<i>np</i>	<i>np</i>
Chapter VIII Diseases of the ear and mastoid process (H60-H95)	<i>np</i>	<i>np</i>	<i>np</i>	<i>np</i>	<i>np</i>	<i>np</i>
Chapter IX Diseases of the circulatory system (I00-I99)	298.6	209.8	250.0	281.8	197.3	235.5
All heart disease (I05-I09, I11, I13, I20-I25, I26, I27, I30-I52)	213.0	135.1	170.0	201.0	126.1	159.6
Acute rheumatic fever and chronic rheumatic heart diseases (I00-I09)	1.0	1.7	1.4	1.1	1.6	1.4
Hypertensive diseases (I10-I15)	5.8	7.1	6.7	5.9	6.7	6.6
Ischaemic heart diseases (I20-I25)	169.7	97.8	129.7	160.8	92.5	122.8
Acute myocardial infarction (I21)	91.9	55.0	71.2	82.9	50.8	64.9
Pulmonary heart disease and diseases of pulmonary circulation and other forms of heart disease (I26-I52)	39.5	31.9	35.5	36.4	28.5	32.2
Heart failure (I50)	14.1	13.0	13.5	12.7	10.9	11.6
Cerebrovascular diseases (I60-I69)	63.8	59.8	62.2	59.9	57.0	58.9
Diseases of arteries, arterioles and capillaries (I70-I79)	17.3	10.1	13.2	16.2	9.4	12.3
Atherosclerosis (I70)	2.4	2.4	2.5	2.3	1.8	2.0
Aortic aneurysm and dissection (I71)	10.1	4.6	6.9	9.5	4.2	6.4

— nil or rounded to zero (including null cells)

(b) See Explanatory Notes, paragraph 19 for further information.

(a) Standardised death rate per 100,000 of the mid-year 2003 population. See Glossary for further explanation.

Note: np not for publication

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

Cause of death and ICD code	2002			2003		
	Males	Females	Persons	Males	Females	Persons
Chapter X Diseases of the respiratory system (J00-J99)	77.6	45.6	58.1	75.7	45.4	57.5
Influenza and pneumonia (J10-J18)	18.2	13.5	15.3	20.0	15.1	17.1
Chronic lower respiratory diseases (J40-J47)	43.6	23.3	31.3	40.1	21.8	29.1
Emphysema (J43)	5.6	2.5	3.7	4.8	2.0	3.2
Asthma and status asthmaticus (J45, J46)	1.9	2.1	2.0	1.2	1.8	1.5
Chapter XI Diseases of the digestive system (K00-K93)	26.0	18.7	22.2	26.0	18.0	21.8
Diseases of oesophagus, stomach and duodenum (K20-K31)	3.6	2.8	3.2	3.4	2.5	2.9
Gastric and duodenal ulcer (K25-K27)	2.4	1.9	2.1	2.2	1.5	1.8
Diseases of liver (K70-K77)	9.7	4.1	6.8	10.1	3.8	6.8
Chapter XII Diseases of the skin and subcutaneous tissue (L00-L99)	1.5	1.7	1.7	1.3	1.5	1.5
Chapter XIII Diseases of the musculoskeletal system and connective tissue (M00-M99)	4.3	5.6	5.1	3.8	5.5	4.8
Arthropathies and systemic connective tissue disorders (M00-M36)	2.5	3.5	3.1	2.1	3.4	2.9
Chapter XIV Diseases of the genitourinary system (N00-N99)	17.7	13.3	14.8	16.8	12.9	14.4
Renal failure (N17-N19)	12.2	8.0	9.5	12.0	8.0	9.6
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)	3.7	3.2	3.5	3.5	2.8	3.2
Chapter XVII Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	3.3	2.9	3.0	3.2	2.8	3.0
Congenital malformations of the circulatory system (Q20-Q28)	1.3	1.0	1.1	1.3	0.9	1.1
Chapter XVIII Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00-R99)	4.2	3.2	3.7	5.1	3.5	4.4
Chapter XX External causes of morbidity and mortality (V01-Y98)	56.6	23.3	39.5	55.7	22.2	38.5
Accidents (V01-X59)	34.0	16.0	24.7	33.3	15.4	24.1
Transport accidents (V01-V99)	14.5	5.0	9.7	13.6	4.6	9.1
Falls (W00-W19)	4.0	2.4	3.1	4.4	2.6	3.4
Accidental drowning and submersion (W65-W74)	1.8	0.6	1.2	1.5	0.6	1.0
Intentional self-harm (X60-X84)	18.8	5.0	11.8	17.7	4.7	11.1
Hanging, strangulation and suffocation (X70)	8.8	2.0	5.3	8.3	1.8	5.0
Assault (X85-Y09)	1.9	1.1	1.5	2.0	0.8	1.4

— nil or rounded to zero (including null cells)

Note: np not for publication

(a) Standardised death rate per 100,000 of the mid-year 2003 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	213	185	187	122	132	98	29	36
Certain conditions originating in the perinatal period (P00-P96)	104	97	102	62	60	52	12	20
Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	44	43	48	38	34	18	3	8
Sudden infant death syndrome (R95)	17	16	6	5	10	np	3	np
1-14 years	113	77	67	55	70	54	24	17
Malignant neoplasms (C00-C97)	20	9	13	9	13	8	6	np
Diseases of the nervous system (G00-G99)	13	9	8	3	10	9	4	np
Diseases of the circulatory system (I00-I99)	3	3	np	5	5	np	np	—
Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	7	np	7	9	5	3	—	np
External causes of morbidity and mortality (V01-Y98)	46	31	22	20	27	25	7	8
15-24 years	321	116	211	91	232	78	97	42
Malignant neoplasms (C00-C97)	18	14	14	13	19	10	8	10
Mental and behavioural disorders due to psychoactive substance use (F10-F19)	4	3	np	3	—	—	np	—
Diseases of the nervous system (G00-G99)	23	6	7	6	7	6	np	4
External causes of morbidity and mortality (V01-Y98)	227	58	161	45	175	51	76	19
Transport accidents (V01-V99)	93	31	73	14	74	21	42	12
Intentional self-harm (X60-X84)	69	9	50	14	53	11	22	5
25-34 years	444	186	327	152	325	120	135	57
Malignant neoplasms (C00-C97)	42	47	22	42	30	30	15	12
Mental and behavioural disorders due to psychoactive substance use (F10-F19)	7	7	16	np	3	np	np	np
Diseases of the circulatory system (I00-I99)	42	19	30	14	31	8	16	10
Diseases of the digestive system (K00-K93)	6	4	5	4	4	np	np	np
External causes of morbidity and mortality (V01-Y98)	300	64	218	63	215	49	81	23
Transport accidents (V01-V99)	78	16	55	9	51	9	22	6
Intentional self-harm (X60-X84)	126	27	82	34	92	23	37	9
35-44 years	730	389	521	295	465	267	193	112
Malignant neoplasms (C00-C97)	139	176	118	140	77	110	41	49
Mental and behavioural disorders due to psychoactive substance use (F10-F19)	16	10	10	5	5	5	np	—
Diseases of the circulatory system (I00-I99)	127	45	84	26	80	36	38	24
Diseases of the digestive system (K00-K93)	26	19	28	10	18	21	11	np
External causes of morbidity and mortality (V01-Y98)	287	76	209	60	208	59	75	19
Transport accidents (V01-V99)	58	17	50	13	51	15	11	5
Intentional self-harm (X60-X84)	109	26	90	21	81	26	35	8

— nil or rounded to zero (including null cells)

Note: np not for publication

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	54	46	24	16	22	10	16	8
Certain conditions originating in the perinatal period (P00-P96)	27	16	10	9	12	3	8	4
Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	10	9	5	5	7	np	3	np
Sudden infant death syndrome (R95)	np	np	4	—	np	np	np	—
1-14 years	32	33	5	9	np	np	np	np
Malignant neoplasms (C00-C97)	3	6	3	np	—	—	—	—
Diseases of the nervous system (G00-G99)	np	—	—	3	np	np	—	—
Diseases of the circulatory system (I00-I99)	np	—	—	—	np	np	—	—
Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	np	4	np	—	—	—	np	—
External causes of morbidity and mortality (V01-Y98)	15	19	—	4	4	3	—	—
15-24 years	129	50	28	4	36	11	14	6
Malignant neoplasms (C00-C97)	5	4	—	—	—	—	—	—
Mental and behavioural disorders due to psychoactive substance use (F10-F19)	np	—	—	—	—	—	—	—
Diseases of the nervous system (G00-G99)	np	3	np	—	np	—	np	—
External causes of morbidity and mortality (V01-Y98)	98	33	21	—	30	8	13	6
Transport accidents (V01-V99)	50	17	14	—	np	np	np	np
Intentional self-harm (X60-X84)	31	np	6	—	13	—	7	np
25-34 years	159	74	39	15	43	17	23	9
Malignant neoplasms (C00-C97)	12	23	np	np	np	np	np	3
Mental and behavioural disorders due to psychoactive substance use (F10-F19)	np	np	—	—	—	—	np	—
Diseases of the circulatory system (I00-I99)	6	np	np	np	6	np	np	—
Diseases of the digestive system (K00-K93)	3	3	np	—	np	np	—	—
External causes of morbidity and mortality (V01-Y98)	105	26	28	7	25	np	16	np
Transport accidents (V01-V99)	26	5	9	np	6	np	3	—
Intentional self-harm (X60-X84)	40	15	11	3	9	—	10	—
35-44 years	218	117	66	36	77	39	38	22
Malignant neoplasms (C00-C97)	36	40	12	10	10	6	12	8
Mental and behavioural disorders due to psychoactive substance use (F10-F19)	4	np	np	—	np	—	np	np
Diseases of the circulatory system (I00-I99)	34	16	11	5	16	np	9	np
Diseases of the digestive system (K00-K93)	11	5	3	np	np	6	np	np
External causes of morbidity and mortality (V01-Y98)	91	30	31	10	25	8	7	5
Transport accidents (V01-V99)	23	5	9	np	13	np	—	—
Intentional self-harm (X60-X84)	38	14	13	np	10	—	5	np

— nil or rounded to zero (including null cells)

Note: np not for publication

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	1 328	809	944	615	792	467	368	214
Malignant neoplasms (C00-C97)	441	450	339	379	282	248	118	131
Trachea, bronchus, and lung (C33, C34)	80	56	62	52	62	34	14	13
Breast (C50)	—	135	—	119	—	78	—	42
Diseases of the circulatory system (I00-I99)	364	139	228	75	217	74	96	29
Ischaemic heart diseases (I20-I25)	250	65	148	30	157	27	69	13
Cerebrovascular diseases (I60-I69)	38	35	34	20	24	27	9	9
Diseases of the respiratory system (J00-J99)	41	25	27	16	22	22	20	9
Diseases of the digestive system (K00-K93)	81	32	62	16	50	24	27	np
External causes of morbidity and mortality (V01-Y98)	203	71	168	60	140	44	62	21
Transport accidents (V01-V99)	43	15	38	12	33	12	22	4
Intentional self-harm (X60-X84)	86	25	79	30	65	16	27	9
55-64 years	2 621	1 614	1 800	1 027	1 496	857	631	365
Malignant neoplasms (C00-C97)	1 178	888	835	602	691	501	266	208
Digestive organs (C15-C26)	376	207	296	144	215	121	88	50
Trachea, bronchus, and lung (C33, C34)	307	152	195	112	168	89	47	26
Breast (C50)	np	215	—	145	—	110	—	46
Diseases of the circulatory system (I00-I99)	763	308	462	164	401	138	191	63
Ischaemic heart diseases (I20-I25)	522	139	326	88	275	79	125	27
Cerebrovascular diseases (I60-I69)	103	70	57	29	55	42	25	11
Diseases of the respiratory system (J00-J99)	146	120	75	71	73	63	36	28
Diseases of the digestive system (K00-K93)	130	67	92	32	73	29	30	15
External causes of morbidity and mortality (V01-Y98)	141	68	105	41	102	23	41	10

— nil or rounded to zero (including null cells)

Note: np not for publication

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	382	242	100	73	74	42	55	25
Malignant neoplasms (C00-C97)	141	139	31	35	21	16	18	15
Trachea, bronchus, and lung (C33, C34)	32	22	5	10	4	np	—	np
Breast (C50)	—	41	—	5	—	np	—	np
Diseases of the circulatory system (I00-I99)	89	31	29	17	23	14	15	4
Ischaemic heart diseases (I20-I25)	64	13	19	8	14	np	11	np
Cerebrovascular diseases (I60-I69)	9	10	6	np	4	np	—	np
Diseases of the respiratory system (J00-J99)	6	6	4	5	np	6	np	—
Diseases of the digestive system (K00-K93)	27	11	8	np	8	—	8	—
External causes of morbidity and mortality (V01-Y98)	60	23	14	np	6	np	9	np
Transport accidents (V01-V99)	16	6	3	—	np	—	np	—
Intentional self-harm (X60-X84)	26	np	8	np	3	np	5	np
55-64 years	676	406	242	133	81	44	88	54
Malignant neoplasms (C00-C97)	308	244	112	74	25	15	34	33
Digestive organs (C15-C26)	101	60	36	25	12	3	7	10
Trachea, bronchus, and lung (C33, C34)	75	48	20	12	6	np	7	np
Breast (C50)	—	58	—	11	—	8	—	3
Diseases of the circulatory system (I00-I99)	175	56	57	19	26	7	29	12
Ischaemic heart diseases (I20-I25)	126	36	44	12	16	3	20	6
Cerebrovascular diseases (I60-I69)	21	11	6	4	np	np	np	np
Diseases of the respiratory system (J00-J99)	26	20	14	16	8	np	3	np
Diseases of the digestive system (K00-K93)	30	12	11	6	np	5	np	—
External causes of morbidity and mortality (V01-Y98)	40	16	18	np	7	np	6	np

— nil or rounded to zero (including null cells)

Note: np not for publication

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	5 004	2 977	3 381	2 048	2 570	1 437	1 159	699
Malignant neoplasms (C00-C97)	2 074	1 236	1 471	942	1 135	623	482	300
Digestive organs (C15-C26)	603	358	489	254	311	180	128	77
Trachea, bronchus, and lung (C33, C34)	510	209	383	189	296	117	130	57
Breast (C50)	np	161	np	148	—	95	—	46
Female genital organs (C51-C58)	—	104	—	85	—	49	—	24
Male genital organs (C60-C63)	220	—	151	—	143	—	47	—
Endocrine, nutritional and metabolic diseases (E00-E90)	181	116	196	97	101	64	44	29
Diseases of the circulatory system (I00-I99)	1 571	865	995	522	813	395	391	202
Ischaemic heart diseases (I20-I25)	978	421	623	253	533	195	247	103
Cerebrovascular diseases (I60-I69)	265	225	158	138	145	102	65	50
Diseases of the respiratory system (J00-J99)	428	260	272	170	220	140	98	61
Chronic lower respiratory diseases (J40-J47)	263	158	185	122	161	100	62	44
Diseases of the digestive system (K00-K93)	173	95	107	73	71	57	40	19
75–84 years	7 940	6 915	5 562	5 042	3 917	3 325	2 196	1 833
Malignant neoplasms (C00-C97)	2 368	1 762	1 827	1 366	1 265	825	656	471
Digestive organs (C15-C26)	626	537	521	454	307	233	166	162
Trachea, bronchus, and lung (C33, C34)	490	272	381	225	282	131	146	72
Breast (C50)	—	203	3	156	—	90	—	52
Female genital organs (C51-C58)	—	126	—	109	—	75	—	39
Male genital organs (C60-C63)	404	—	360	—	243	—	127	—
Prostate (C61)	402	—	358	—	243	—	127	—
Diabetes mellitus (E10-E14)	164	187	190	177	90	80	62	54
Mental and behavioural disorders (F00-F99)	133	163	113	123	79	72	30	59
Diseases of the nervous system (G00-G99)	214	256	184	197	101	126	41	49
Diseases of the circulatory system (I00-I99)	3 159	2 887	2 029	2 036	1 507	1 489	880	771
Ischaemic heart diseases (I20-I25)	1 732	1 359	1 153	989	873	736	488	400
Acute myocardial infarction (I21)	908	778	630	577	503	418	293	249
Cerebrovascular diseases (I60-I69)	788	875	443	552	342	458	190	211
Diseases of arteries, arterioles and capillaries (I70-I79)	175	151	125	118	99	74	66	30
Diseases of the respiratory system (J00-J99)	953	701	605	445	443	314	286	200
Chronic lower respiratory diseases (J40-J47)	512	362	366	278	280	167	121	71
Diseases of the digestive system (K00-K93)	217	232	143	186	123	110	53	63
85 years and over	4 814	9 312	3 753	6 724	2 555	4 243	1 414	2 564
Malignant neoplasms (C00-C97)	822	1 049	733	827	446	464	262	301
Digestive organs (C15-C26)	170	352	186	299	92	164	71	98
Female genital organs (C51-C58)	—	67	—	49	—	24	—	19
Male genital organs (C60-C63)	227	—	202	—	131	—	75	—
Diabetes mellitus (E10-E14)	109	163	112	189	67	101	24	53
Mental and behavioural disorders (F00-F99)	148	449	141	389	77	192	43	150
Diseases of the circulatory system (I00-I99)	2 327	4 997	1 699	3 452	1 255	2 340	661	1 299
Ischaemic heart diseases (I20-I25)	1 168	2 163	893	1 590	715	1 175	359	601
Cerebrovascular diseases (I60-I69)	618	1 650	400	939	310	724	150	380
Diseases of arteries, arterioles and capillaries (I70-I79)	140	218	84	164	61	101	46	61
Diseases of the respiratory system (J00-J99)	573	911	484	633	306	375	222	330
Chronic lower respiratory diseases (J40-J47)	239	289	233	210	124	103	64	70
Diseases of the digestive system (K00-K93)	156	291	100	271	81	141	46	88
Diseases of the genitourinary system (N00-N99)	167	306	155	220	73	146	49	88

— nil or rounded to zero (including null cells)

Note: np not for publication

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	1 220	715	451	283	94	58	158	78
Malignant neoplasms (C00-C97)	524	322	185	114	29	19	66	42
Digestive organs (C15-C26)	172	84	55	32	7	10	21	12
Trachea, bronchus, and lung (C33, C34)	129	64	44	27	7	5	22	10
Breast (C50)	—	44	—	13	—	np	—	np
Female genital organs (C51-C58)	—	25	—	14	—	np	—	np
Male genital organs (C60-C63)	44	—	21	—	3	—	6	—
Endocrine, nutritional and metabolic diseases (E00-E90)	55	29	31	12	10	np	6	np
Diseases of the circulatory system (I00-I99)	354	174	129	84	24	16	54	13
Ischaemic heart diseases (I20-I25)	227	91	85	39	15	6	29	6
Cerebrovascular diseases (I60-I69)	66	40	21	19	np	np	np	np
Diseases of the respiratory system (J00-J99)	106	61	36	25	9	9	11	6
Chronic lower respiratory diseases (J40-J47)	70	36	24	25	5	8	8	5
Diseases of the digestive system (K00-K93)	32	27	19	11	np	np	np	np
75–84 years	1 833	1 550	647	613	72	54	223	212
Malignant neoplasms (C00-C97)	571	455	187	149	18	13	79	55
Digestive organs (C15-C26)	157	130	42	48	6	3	23	19
Trachea, bronchus, and lung (C33, C34)	143	86	47	28	np	np	np	np
Breast (C50)	—	55	—	13	—	np	—	np
Female genital organs (C51-C58)	—	42	—	12	—	np	—	np
Male genital organs (C60-C63)	83	—	32	—	5	—	12	—
Prostate (C61)	82	—	32	—	5	—	12	—
Diabetes mellitus (E10-E14)	55	42	27	28	3	np	9	np
Mental and behavioural disorders (F00-F99)	41	34	13	22	np	np	np	np
Diseases of the nervous system (G00-G99)	69	71	22	36	4	—	13	12
Diseases of the circulatory system (I00-I99)	679	571	240	226	21	21	72	79
Ischaemic heart diseases (I20-I25)	369	288	128	128	12	9	34	31
Acute myocardial infarction (I21)	199	179	61	58	5	3	16	16
Cerebrovascular diseases (I60-I69)	155	160	44	42	np	6	np	23
Diseases of arteries, arterioles and capillaries (I70-I79)	50	29	18	9	4	np	9	np
Diseases of the respiratory system (J00-J99)	196	167	81	51	8	5	21	23
Chronic lower respiratory diseases (J40-J47)	115	100	66	33	6	4	11	16
Diseases of the digestive system (K00-K93)	51	46	19	24	np	np	np	np
85 years and over	1 206	2 164	428	753	34	46	134	247
Malignant neoplasms (C00-C97)	234	264	81	80	7	np	18	np
Digestive organs (C15-C26)	56	92	22	30	np	np	np	np
Female genital organs (C51-C58)	—	20	—	3	—	—	—	4
Male genital organs (C60-C63)	64	—	23	—	np	—	np	—
Diabetes mellitus (E10-E14)	29	54	21	35	np	—	np	6
Mental and behavioural disorders (F00-F99)	46	104	18	38	np	4	np	17
Diseases of the circulatory system (I00-I99)	509	1 057	177	367	13	18	64	135
Ischaemic heart diseases (I20-I25)	255	464	91	182	5	4	36	52
Cerebrovascular diseases (I60-I69)	117	315	38	87	3	8	12	41
Diseases of arteries, arterioles and capillaries (I70-I79)	32	43	14	17	np	np	np	np
Diseases of the respiratory system (J00-J99)	158	209	44	61	5	7	19	13
Chronic lower respiratory diseases (J40-J47)	71	67	26	27	np	np	np	np
Diseases of the digestive system (K00-K93)	34	79	12	29	np	3	np	6
Diseases of the genitourinary system (N00-N99)	34	74	np	31	—	np	np	np

— nil or rounded to zero (including null cells)

Note: np not for publication

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)	23 531	22 580	16 754	16 171	12 554	10 946	6 246	5 939
Chapter I Certain infectious and parasitic diseases (A00-B99)	432	356	196	210	129	105	63	74
Chapter II Neoplasms (C00-D48)	7 255	5 797	5 467	4 404	4 038	2 885	1 887	1 521
Malignant neoplasms (C00-C97)	7 104	5 631	5 374	4 320	3 959	2 820	1 856	1 484
Trachea, bronchus and lung (C33,C34)	1 518	796	1 133	672	874	412	379	209
Melanoma of skin (C43)	264	141	154	81	183	86	58	19
Breast (C50)	4	896	np	748	np	469	—	244
Female genital organs (C51-C58)	—	466	—	357	—	241	—	142
Male genital organs (C60-C63)	933	—	769	—	566	—	270	—
Chapter III Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50-D89)	65	97	42	57	32	37	15	24
Chapter IV Endocrine, nutritional and metabolic diseases (E00-E90)	712	703	733	652	412	374	208	211
Diabetes mellitus (E10-E14)	506	467	573	480	292	265	153	140
Chapter V Mental and behavioural Disorders (F00-F99)	408	678	345	552	205	287	104	222
Chapter VI Diseases of the nervous system (G00-G99)	687	845	487	617	309	388	123	165
Chapter IX Diseases of the circulatory system (I00-I99)	8 377	9 270	5 544	6 309	4 319	4 487	2 281	2 401
All heart disease (I05-I09, I11,I13, I20-I25,I26, I27, I30-I52)	5 947	5 731	4 040	4 167	3 115	2 819	1 641	1 569
Ischaemic heart diseases (I20-I25)	4 739	4 162	3 204	2 963	2 624	2 226	1 316	1 155
Acute myocardial infarction (I21)	2 380	2 234	1 602	1 667	1 429	1 215	725	674
Cerebrovascular diseases (I60-I69)	1 836	2 875	1 113	1 695	887	1 367	448	669
Chapter X Diseases of the respiratory system (J00-J99)	2 178	2 045	1 488	1 347	1 100	928	671	635
Influenza and pneumonia (J10-J18)	517	690	356	476	281	319	236	305
Chronic lower respiratory diseases (J40-J47)	1 133	911	863	675	638	441	279	210
Chapter XI Diseases of the digestive system (K00-K93)	797	744	539	592	424	384	210	190
Diseases of liver (K70-K77)	341	146	236	92	172	85	89	26
Chapter XII Diseases of the skin and subcutaneous tissue (L00-L99)	55	75	24	45	8	25	11	27
Chapter XIII Diseases of the musculoskeletal system and connective tissue (M00-M99)	89	224	82	187	64	119	23	51
Chapter XIV Diseases of the genitourinary system (N00-N99)	469	596	375	423	188	272	143	159
Chapter XV Pregnancy, childbirth and the puerperium (O00-O99)	—	4	—	np	—	np	—	np
Chapter XVI Certain conditions originating in the perinatal period (P00-P96)	105	98	103	62	60	52	12	20
Chapter XVII Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	87	94	89	72	74	47	17	20
Chapter XVIII Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00-R99)	126	135	63	52	83	74	31	32
Chapter XX External causes of morbidity and mortality (V01-Y98)	1 686	816	1 176	587	1 109	479	446	184
Transport accidents (V01-V99)	399	155	292	94	274	88	132	46
Falls (W00-W19)	136	120	82	65	75	71	23	11
Intentional self-harm (X60-X84)	510	130	409	131	371	95	154	39

— nil or rounded to zero (including null cells)

(b) Including age not stated.

(a) Chapters 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.

Note: np not for publication

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)	5 913	5 398	2 030	1 935	548	327	751	663
Chapter I Certain infectious and parasitic diseases (A00-B99)	72	58	17	13	8	8	9	4
Chapter II Neoplasms (C00-D48)	1 874	1 530	634	487	115	75	235	188
Malignant neoplasms (C00-C97)	1 834	1 497	613	467	112	73	229	185
Trachea, bronchus and lung (C33,C34)	411	251	128	88	20	14	47	24
Melanoma of skin (C43)	64	32	23	5	np	np	np	np
Breast (C50)	—	255	—	57	—	17	—	27
Female genital organs (C51-C58)	—	133	—	44	—	5	—	22
Male genital organs (C60-C63)	209	—	90	—	11	—	30	—
Chapter III Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50-D89)	25	31	6	14	3	—	3	3
Chapter IV Endocrine, nutritional and metabolic diseases (E00-E90)	215	197	114	98	27	18	28	18
Diabetes mellitus (E10-E14)	150	132	85	73	23	13	25	11
Chapter V Mental and behavioural Disorders (F00-F99)	116	152	37	66	9	8	19	33
Chapter VI Diseases of the nervous system (G00-G99)	208	263	58	100	11	4	33	26
Chapter IX Diseases of the circulatory system (I00-I99)	1 849	1 909	652	721	130	93	245	245
All heart disease (I05-I09, I11,I13, I20-I25,I26, I27, I30-I52)	1 335	1 229	478	502	104	63	176	143
Ischaemic heart diseases (I20-I25)	1 064	895	377	371	76	37	134	96
Acute myocardial infarction (I21)	532	504	180	163	31	13	59	41
Cerebrovascular diseases (I60-I69)	375	544	119	159	14	24	43	71
Chapter X Diseases of the respiratory system (J00-J99)	504	471	181	160	45	34	57	48
Influenza and pneumonia (J10-J18)	117	162	27	35	14	7	10	14
Chronic lower respiratory diseases (J40-J47)	276	219	126	106	26	22	32	28
Chapter XI Diseases of the digestive system (K00-K93)	189	184	73	77	27	22	30	19
Diseases of liver (K70-K77)	75	34	32	12	20	9	18	3
Chapter XII Diseases of the skin and subcutaneous tissue (L00-L99)	np	17	np	4	—	np	np	np
Chapter XIII Diseases of the musculoskeletal system and connective tissue (M00-M99)	28	51	27	43	np	—	2	8
Chapter XIV Diseases of the genitourinary system (N00-N99)	105	134	38	48	15	12	6	18
Chapter XV Pregnancy, childbirth and the puerperium (O00-O99)	—	—	—	—	—	np	—	—
Chapter XVI Certain conditions originating in the perinatal period (P00-P96)	30	17	10	9	12	3	9	4
Chapter XVII Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	22	26	11	11	10	3	6	8
Chapter XVIII Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00-R99)	134	88	17	13	26	9	8	6
Chapter XX External causes of morbidity and mortality (V01-Y98)	532	270	154	71	109	35	60	34
Transport accidents (V01-V99)	144	64	46	7	39	17	10	4
Falls (W00-W19)	38	35	15	21	6	np	4	np
Intentional self-harm (X60-X84)	167	59	54	15	42	np	29	np

— nil or rounded to zero (including null cells)

(b) Including age not stated.

(a) Chapters 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.

Note: np not for publication

1.8 UNDERLYING CAUSE, Standardised death rates(a)

Cause of death and ICD code	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT
1993								
All causes	804.6	788.2	784.7	815.7	797.0	864.8	1 174.3	710.3
Malignant neoplasms (C00–C97)	207.0	213.1	204.1	204.9	210.8	212.5	274.0	206.8
Trachea, bronchus and lung (C33, C34)	38.9	40.9	40.1	36.3	42.9	41.4	64.4	35.7
Diabetes mellitus (E10–E14)	13.3	23.3	13.9	16.6	18.2	15.5	50.7	8.2
Mental and behavioural disorders (F00–F99)	15.9	18.5	13.3	18.9	15.4	11.5	13.6	8.5
Disease of the nervous system (G00–G99)	18.3	19.6	15.2	18.4	23.7	15.1	22.5	17.7
Diseases of the circulatory system (I00–I99)	373.0	343.3	359.5	378.7	352.5	395.5	393.4	321.5
Ischaemic heart diseases (I20–I25)	203.0	188.0	208.6	206.2	200.3	196.2	178.0	153.6
Acute myocardial infarction (I21)	126.0	115.9	132.4	136.3	119.6	123.5	108.5	91.4
Cerebrovascular diseases (I60–I69)	88.0	78.7	83.0	91.9	80.0	96.6	82.3	59.0
Diseases of arteries, arterioles and capillaries (I70–I79)	21.7	20.0	20.5	22.3	20.5	23.1	26.2	23.0
Diseases of the respiratory system (J00–J99)	58.5	61.0	60.5	62.7	63.5	78.8	172.7	66.2
Influenza and pneumonia (J10–J18)	8.4	11.6	13.1	16.0	13.7	18.5	29.0	11.9
Chronic lower respiratory diseases (J40–J47)	41.3	42.2	38.6	37.9	40.9	50.2	123.2	43.6
Diseases of the digestive system (K00–K93)	26.1	23.7	25.4	24.3	24.4	28.0	50.8	10.5
Accidents (V01–X59)	24.5	24.4	29.0	31.5	29.6	29.8	59.2	11.9
Transport accidents (V01–V99)	10.7	11.4	15.3	15.3	14.7	13.6	30.0	3.2
Intentional self-harm (X60–X84)	11.7	11.0	12.1	11.4	13.1	18.1	16.6	8.1
2003								
All causes	643.3	627.6	640.9	662.2	623.1	739.1	892.0	582.7
Malignant neoplasms (C00–C97)	179.3	186.8	183.4	185.7	182.3	201.0	197.9	164.8
Trachea, bronchus and lung (C33, C34)	32.6	34.9	34.9	32.6	36.3	40.4	32.1	28.4
Diabetes mellitus (E10–E14)	13.6	20.0	15.3	15.8	15.7	29.0	36.6	15.4
Mental and behavioural disorders (F00–F99)	14.9	16.8	13.6	16.9	14.9	18.7	26.3	22.3
Disease of the nervous system (G00–G99)	21.4	21.0	19.0	16.0	26.2	29.1	16.1	24.7
Diseases of the circulatory system (I00–I99)	243.4	223.0	242.0	247.3	209.7	252.6	265.4	213.2
Ischaemic heart diseases (I20–I25)	123.1	116.3	133.1	131.0	109.0	137.7	122.3	99.0
Acute myocardial infarction (I21)	63.7	61.5	72.6	73.7	58.0	63.1	55.6	43.5
Cerebrovascular diseases (I60–I69)	64.6	52.6	62.1	58.2	51.6	51.0	54.5	50.9
Diseases of arteries, arterioles and capillaries (I70–I79)	12.5	11.7	12.2	13.3	10.8	14.2	22.5	18.2
Diseases of the respiratory system (J00–J99)	58.3	53.5	55.8	68.6	54.7	62.7	96.9	45.6
Influenza and pneumonia (J10–J18)	16.5	15.5	16.6	27.9	15.6	11.3	30.5	10.4
Chronic lower respiratory diseases (J40–J47)	28.3	29.2	29.7	26.3	27.8	42.8	55.7	26.0
Diseases of the digestive system (K00–K93)	21.5	21.6	21.9	21.7	20.4	28.0	40.7	19.5
Accidents (V01–X59)	23.4	21.5	26.6	23.1	27.1	28.7	58.3	19.0
Transport accidents (V01–V99)	8.2	7.8	9.5	11.6	10.7	11.6	28.1	4.2
Intentional self-harm (X60–X84)	9.5	10.9	12.4	12.7	11.6	14.7	23.5	10.2

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

1.9 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	290	195	485	100.0	22 665	21 844	44 509	100.0
Malignant neoplasms (C00-C97)	53	46	99	20.4	6 897	5 445	12 342	27.7
Digestive organs (C15-C26)	14	9	23	4.7	1 910	1 543	3 453	7.8
Trachea, bronchus, lung (C33, C34)	16	11	27	5.6	1 474	764	2 238	5.0
Diabetes mellitus (E10-E14)	8	15	23	4.7	482	447	929	2.1
Mental and behavioural disorders (F00-F99)	np	np	6	1.2	np	np	1 054	2.4
Diseases of the circulatory system (I00-I99)	93	62	155	32.0	8 094	9 003	17 097	38.4
Ischaemic heart diseases (I20-I25)	50	34	84	17.3	4 582	4 028	8 610	19.3
Cerebrovascular diseases (I60-I69)	15	13	28	5.8	1 780	2 813	4 593	10.3
Diseases of the respiratory system (J00-J99)	24	15	39	8.0	2 099	1 982	4 081	9.2
Chronic lower respiratory diseases (J40-J47)	16	9	25	5.2	1 091	882	1 973	4.4
Diseases of the digestive system (K00-K93)	18	11	29	6.0	754	706	1 460	3.3
Diseases of liver (K70-K77)	12	7	19	3.9	313	136	449	1.0
Certain conditions originating in the perinatal period (P00-P96)	5	5	10	2.1	95	87	182	0.4
Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	4	3	7	1.4	77	86	163	0.4
All other medical conditions (Remainder of A00-R99)	37	20	57	11.8	2 182	2 655	4 837	10.9
External causes of morbidity and mortality (V01-Y98)	46	14	60	12.4	1 587	777	2 364	5.3
Transport accidents (V01-V99)	np	np	13	2.7	np	np	525	1.2
Intentional self-harm (X60-X84)	12	3	15	3.1	477	122	599	1.3
Assault (X85-Y09)	np	np	6	1.2	np	np	81	0.2
Other external causes (remainder of V01-Y98)	19	7	26	5.4	670	489	1 159	2.6
QUEENSLAND								
All Causes	332	237	569	100.0	12 044	10 526	22 570	100.0
Malignant neoplasms (C00-C97)	49	42	91	16.0	3 863	2 742	6 605	29.3
Digestive organs (C15-C26)	9	7	16	2.8	1 011	747	1 758	7.8
Trachea, bronchus, lung (C33, C34)	16	9	25	4.4	848	398	1 246	5.5
Diabetes mellitus (E10-E14)	22	20	42	7.4	266	242	508	2.3
Mental and behavioural disorders (F00-F99)	np	np	8	1.4	np	np	477	2.1
Diseases of the circulatory system (I00-I99)	101	75	176	30.9	4 153	4 313	8 466	37.5
Ischaemic heart diseases (I20-I25)	64	40	104	18.3	2 522	2 128	4 650	20.6
Cerebrovascular diseases (I60-I69)	15	15	30	5.3	862	1 327	2 189	9.7
Diseases of the respiratory system (J00-J99)	33	20	53	9.3	1 048	889	1 937	8.6
Chronic lower respiratory diseases (J40-J47)	15	14	29	5.1	611	414	1 025	4.5
Diseases of the digestive system (K00-K93)	17	11	28	4.9	400	367	767	3.4
Diseases of liver (K70-K77)	11	8	19	3.3	157	74	231	1.0
Certain conditions originating in the perinatal period (P00-P96)	10	3	13	2.3	50	49	99	0.4
Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	np	np	9	1.6	np	np	108	0.5
All other medical conditions (Remainder of A00-R99)	33	33	66	11.6	958	1 154	2 112	9.4
External causes of morbidity and mortality (V01-Y98)	55	28	83	14.6	1 043	448	1 491	6.6
Transport accidents (V01-V99)	12	7	19	3.3	260	80	340	1.5
Intentional self-harm (X60-X84)	18	8	26	4.6	350	86	436	1.9
Assault (X85-Y09)	10	3	13	2.3	37	18	55	0.2
Other external causes (remainder of V01-Y98)	15	10	25	4.4	396	264	660	2.9

(a) Excludes Indigenous origin not stated.

Note: np not for publication

(b) Data on deaths identified as Indigenous are subject to the impact of differing coverage levels across states and territories. See Explanatory Notes, paragraph 23 for further information.

1.9 UNDERLYING CAUSE, Indigenous origin(a)—selected state/territory(b) *continued* . .

Cause of death and ICD code	INDIGENOUS				NON-INDIGENOUS			
	Males	Females	Persons	Proportion of total deaths	Males	Females	Persons	Proportion of total deaths
	no.	no.	no.	%	no.	no.	no.	%
SOUTH AUSTRALIA								
All Causes	89	48	137	100.0	6 055	5 773	11 828	100.0
Malignant neoplasms (C00-C97)	14	3	17	12.4	1 830	1 467	3 297	27.9
Digestive organs (C15-C26)	np	np	4	2.9	np	no	924	7.8
Trachea, bronchus, lung (C33, C34)	4	—	4	2.9	373	207	580	4.9
Diabetes mellitus (E10-E14)	5	8	13	9.5	145	131	276	2.3
Mental and behavioural disorders (F00-F99)	np	np	np	np	np	np	np	np
Diseases of the circulatory system (I00-I99)	29	17	46	33.6	2 225	2 333	4 558	38.5
Ischaemic heart diseases (I20-I25)	21	8	29	21.2	1 282	1 122	2 404	20.3
Cerebrovascular diseases (I60-I69)	np	np	7	5.1	np	np	1 085	9.2
Diseases of the respiratory system (J00-J99)	5	4	9	6.6	650	616	1 266	10.7
Chronic lower respiratory diseases (J40-J47)	np	np	5	3.6	np	np	479	4.0
Diseases of the digestive system (K00-K93)	np	np	8	5.8	np	np	385	3.3
Diseases of liver (K70-K77)	4	—	4	2.9	84	26	110	0.9
Certain conditions originating in the perinatal period (P00-P96)	—	np	np	np	np	np	np	np
Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	—	np	np	np	np	np	np	np
All other medical conditions (Remainder of A00-R99)	7	4	11	8.0	479	622	1 101	9.3
External causes of morbidity and mortality (V01-Y98)	22	6	28	20.4	401	165	566	4.8
Transport accidents (V01-V99)	np	np	13	9.5	np	np	156	1.3
Intentional self-harm (X60-X84)	np	np	9	6.6	np	np	171	1.4
Assault (X85-Y09)	np	—	np	np	np	np	np	np
Other external causes (remainder of V01-Y98)	np	np	np	—	np	np	np	—
WESTERN AUSTRALIA								
All Causes	204	134	338	100.0	5 600	5 159	10 759	100.0
Malignant neoplasms (C00-C97)	26	29	55	16.3	1 781	1 438	3 219	29.9
Digestive organs (C15-C26)	8	8	16	4.7	523	393	916	8.5
Trachea, bronchus, lung (C33, C34)	np	np	11	3.3	np	np	639	5.9
Diabetes mellitus (E10-E14)	10	12	22	6.5	138	118	256	2.4
Mental and behavioural disorders (F00-F99)	np	np	8	2.4	np	np	255	2.4
Diseases of the circulatory system (I00-I99)	58	26	84	24.9	1 761	1 854	3 615	33.6
Ischaemic heart diseases (I20-I25)	38	12	50	14.8	1 007	871	1 878	17.5
Cerebrovascular diseases (I60-I69)	8	4	12	3.6	361	530	891	8.3
Diseases of the respiratory system (J00-J99)	15	10	25	7.4	477	454	931	8.7
Chronic lower respiratory diseases (J40-J47)	5	7	12	3.6	267	207	474	4.4
Diseases of the digestive system (K00-K93)	11	5	16	4.7	173	178	351	3.3
Diseases of liver (K70-K77)	7	4	11	3.3	65	30	95	0.9
Certain conditions originating in the perinatal period (P00-P96)	7	5	12	3.6	22	9	31	0.3
Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	np	np	4	1.2	np	np	43	0.4
All other medical conditions (Remainder of A00-R99)	34	29	63	18.6	637	689	1 326	12.3
External causes of morbidity and mortality (V01-Y98)	35	14	49	14.5	484	248	732	6.8
Transport accidents (V01-V99)	13	4	17	5.0	129	58	187	1.7
Intentional self-harm (X60-X84)	5	—	5	1.5	159	56	215	2.0
Assault (X85-Y09)	5	—	5	1.5	10	4	14	0.1
Other external causes (remainder of V01-Y98)	12	10	22	6.5	186	130	316	2.9

— nil or rounded to zero (including null cells)

(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 23 for further information.

Note: np not for publication

1.9 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	262	173	435	100.0	278	153	431	100.0
Malignant neoplasms (C00-C97)	40	23	63	14.5	71	49	120	27.8
Digestive organs (C15-C26)	13	5	18	4.1	24	15	39	9.0
Trachea, bronchus, lung (C33, C34)	10	7	17	3.9	10	7	17	3.9
Diabetes mellitus (E10-E14)	13	10	23	5.3	10	3	13	3.0
Mental and behavioural disorders (F00-F99)	np	np	10	2.3	np	np	7	1.6
Diseases of the circulatory system (I00-I99)	57	50	107	24.6	73	43	116	26.9
Ischaemic heart diseases (I20-I25)	34	17	51	11.7	42	20	62	14.4
Cerebrovascular diseases (I60-I69)	4	11	15	3.4	10	13	23	5.3
Diseases of the respiratory system (J00-J99)	25	21	46	10.6	20	13	33	7.7
Chronic lower respiratory diseases (J40-J47)	15	14	29	6.7	11	8	19	4.4
Diseases of the digestive system (K00-K93)	17	14	31	7.1	10	8	18	4.2
Diseases of liver (K70-K77)	np	np	21	4.8	np	np	8	1.9
Certain conditions originating in the perinatal period (P00-P96)	np	np	10	2.3	np	np	5	1.2
Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	5	3	8	1.8	4	—	4	0.9
All other medical conditions (Remainder of A00-R99)	32	29	61	14.0	33	14	47	10.9
External causes of morbidity and mortality (V01-Y98)	57	19	76	17.5	52	16	68	15.8
Transport accidents (V01-V99)	24	9	33	7.6	15	8	23	5.3
Intentional self-harm (X60-X84)	np	np	21	4.8	np	np	23	5.3
Assault (X85-Y09)	6	5	11	2.5	np	np	3	0.7
Other external causes (remainder of V01-Y98)	np	np	11	2.5	14	5	19	4.4

AUSTRALIA (c)

All Causes(d)	1 237	842	2 079	100.0	65 208	61 266	126 474	100.0
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— nil or rounded to zero (including null cells)

(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 23 for further information.

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

(d) 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 level of actual Indigenous deaths.

Note: np not for publication

1.10

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	637 067	349 445	100.0	100.0	100.0	100.0
Chapter I Certain infectious and parasitic diseases (A00-B99)	10 700	5 129	1.4	1.3	1.7	1.5
Human immunodeficiency virus (HIV) disease (B20-B24)	3 260	431	0.3	—	0.5	0.1
Chapter II Neoplasms (C00-D48)	191 816	154 588	37.4	43.9	30.1	44.2
Malignant neoplasms (C00-C97)	188 955	152 315	36.8	43.2	29.7	43.6
Digestive Organs (C15-C26)	56 320	33 617	11.1	11.1	8.8	9.6
Trachea, bronchus and lung (C33-C34)	38 290	21 342	8.5	7.3	6.0	6.1
Breast (C50)	124	36 007	—	8.2	—	10.3
Prostate (C61)	10 455	—	3.4	—	1.6	—
Lymphoid, haematopoietic and related tissue (C81-C96)	21 634	13 911	3.7	3.8	3.4	4.0
Chapter IV Endocrine, nutritional and metabolic diseases (E00-E90)	19 578	11 348	3.7	3.7	3.1	3.2
Diabetes mellitus (E10-E14)	12 382	6 188	2.7	2.6	1.9	1.8
Chapter V Mental and behavioural disorders (F00-F99)	8 131	3 823	1.2	1.1	1.3	1.1
Mental and behavioural disorders due to psychoactive substance use (F10-F19)	6 791	2 509	0.7	0.4	1.1	0.7
Chapter VI Diseases of the nervous system (G00-G99)	19 894	13 901	2.6	3.4	3.1	4.0
Chapter IX Diseases of the circulatory system (I00-I99)	135 754	56 765	28.4	24.6	21.3	16.2
Ischaemic heart diseases (I20-I25)	85 359	24 467	17.7	11.9	13.4	7.0
Cerebrovascular diseases (I60-I69)	19 455	14 493	4.8	6.4	3.1	4.1
Diseases of arteries, arterioles and capillaries (I70-I79)	6 043	2 538	1.5	1.2	0.9	0.7
Chapter X Diseases of the respiratory system (J00-J99)	27 078	18 342	6.9	7.8	4.3	5.2
Influenza and pneumonia (J10-J18)	5 375	3 242	1.2	1.3	0.8	0.9
Chronic lower respiratory diseases (J40-J47)	15 578	11 381	4.3	5.1	2.4	3.3
Chapter XI Diseases of the digestive system (K00-K93)	24 695	11 736	3.7	3.5	3.9	3.4
Diseases of liver (K70-K77)	17 315	6 306	2.3	1.4	2.7	1.8
Chapter XIV Diseases of the genitourinary system (N00-N99)	4 621	3 770	1.2	1.7	0.7	1.1
Chapter XVII Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	5 775	4 743	0.4	0.6	0.9	1.4
Chapter XX External causes of morbidity and mortality (V01-Y98)	173 089	55 157	11.5	6.3	27.2	15.8
Accidents (V01-X59)	97 833	33 363	6.4	3.8	15.4	9.5
Transport accidents (V01-V99)	53 897	17 345	3.2	1.7	8.5	5.0
Accidental poisoning by and exposure noxious substances (X40-X84)	17 781	6 667	1.1	0.7	2.8	1.9
Intentional self-harm (X60-X84)	62 987	17 019	4.2	1.9	9.9	4.9

— nil or rounded to zero (including null cells)

(b) Percentage of deaths aged 1-78 years

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

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 132,292 deaths registered in 2003, there were 398,559 causes reported giving a mean of 3.0 causes per death. In 19.4% of all deaths, only one cause was reported, whereas 55.9% 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 2003, Malignant neoplasms comprised 28.4% of all underlying cause of death, and yet it contributed to 39.0% of all deaths as an underlying or associated cause. Similarly, 19.2% of all deaths had Ischaemic heart diseases as the underlying cause, but it was found to contribute to 36.0% 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 2003, 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)	51 567	39.0	1	28.4	1
Ischaemic heart diseases (I20-I25)	47 582	36.0	2	19.2	2
Cerebrovascular diseases (I60-I69)	22 985	17.4	3	9.3	3
Influenza and pneumonia (J10-J18)	18 692	14.1	4	2.7	6
Heart Failure (I50)	17 077	12.9	5	1.8	10
Hypertensive diseases (I10-I15)	15 022	11.4	6	1.0	20
Renal failure (N17-N19)	14 939	11.3	7	1.5	12
Chronic lower respiratory diseases (J40-J47)	14 496	11.0	8	4.5	4
Diabetes mellitus (E10-E14)	11 410	8.6	9	2.6	7
Organic, including symptomatic, mental disorders (F00-F09)	10 976	8.3	10	2.0	8
Deaths from all causes	132 292	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 2003. Malignant neoplasms, the most prevalent underlying cause (37,558 deaths), was reported alone in 37.6% 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 7.3% of the 1,986 deaths attributed to this cause. It was reported more frequently with associated causes of Ischaemic heart diseases and Heart failure.

SELECTED UNDERLYING CAUSES WITH ASSOCIATED CAUSES (a)

Selected underlying cause	Reported with selected associated cause								
	Total no. of deaths	Reported alone	Malignant neoplasms (C00-C97)	Ischaemic heart diseases (I20-I25)	Cerebro-vascular diseases (I60-I69)	Chronic lower respiratory diseases (J40-J47)	Influenza and pneumonia (J10-J18)	Heart failure (I50)	Renal failure (N17-N19)
	no.	%	%	%	%	%	%	%	%
Malignant neoplasms (C00-C97)	37 558	37.6	—	7.7	3.6	6.3	8.0	3.6	5.9
Ischaemic heart diseases (I20-I25)	25 439	10.9	6.0	—	9.4	10.1	5.8	23.6	10.6
Cerebrovascular diseases (I60-I69)	12 240	16.8	4.7	10.8	—	3.7	15.8	5.4	4.4
Chronic lower respiratory diseases (J40-J47)	5 985	6.9	7.3	18.9	5.5	—	34.2	17.3	7.9
Influenza and pneumonia (J10-J18)	3 566	32.0	1.1	14.2	2.7	1.2	—	10.2	9.8
Heart failure (I50)	2 432	14.0	5.6	—	7.7	11.6	23.4	—	20.5
Renal failure (N17-N19)	1 986	7.3	5.6	26.4	8.0	7.6	14.6	28.5	—

— 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 2003, there were 7,749 deaths due to External causes, with an average of 3.2 causes coded per each of these deaths. Deaths as a result of Accidental falls averaged 3.5 multiple causes, reflecting the number of injuries sustained. In 2003, Transport accidents accounted for 27.1% of all injuries reported for deaths due to External causes, with 45.4% of these injuries being to the head or thorax. Intentional self-harm accounted for 25.3% of total injuries due to External causes, and of these injuries, Asphyxiation was the most common (37.5%).

2.1 DISTRIBUTION OF DEATHS, Number of causes per death and age

Age group (years)	Mean Causes per death no.	Total deaths no.	NUMBER OF CAUSES PER DEATH					
			1	2	3	4	5	6 or more
			%	%	%	%	%	%

MALES

All ages(a)	3.0	68 330	19.3	25.1	22.2	15.8	9.1	8.4
Under 1	2.3	677	36.6	29.7	16.8	8.1	4.4	4.3
1-14	2.6	323	23.8	34.1	22.0	9.0	5.3	5.9
15-24	2.6	1 068	10.2	54.9	18.0	8.0	4.3	4.7
25-34	2.6	1 495	14.4	48.1	18.7	9.3	5.3	4.1
35-44	2.6	2 308	22.9	36.9	19.5	10.6	5.2	4.9
45-54	2.6	4 043	29.7	29.1	17.6	11.8	6.4	5.5
55-64	2.7	7 635	29.0	26.7	18.5	12.4	6.9	6.5
65-74	3.0	14 038	22.3	23.4	21.8	15.2	8.8	8.5
75-84	3.2	22 391	16.1	22.0	23.7	17.6	10.6	10.0
85+	3.3	14 339	13.0	22.8	25.1	18.9	10.9	9.4

FEMALES

All ages(a)	3.0	63 962	19.5	24.3	23.2	16.3	9.0	7.8
Under 1	2.3	522	34.1	30.7	20.5	7.7	4.8	2.3
1-14	2.5	253	18.6	47.4	16.2	9.5	4.3	4.0
15-24	2.4	399	18.5	47.9	16.0	9.8	5.5	2.3
25-34	2.6	630	23.7	35.6	17.8	11.4	6.0	5.6
35-44	2.6	1 277	30.8	28.3	15.6	13.1	7.0	5.3
45-54	2.4	2 487	36.5	25.3	16.6	10.9	5.7	4.9
55-64	2.6	4 501	32.8	23.7	17.6	12.6	6.6	6.6
65-74	2.9	8 295	24.7	22.6	20.6	14.9	8.8	8.3
75-84	3.1	19 544	17.6	22.7	23.5	17.1	10.0	9.1
85+	3.1	26 053	14.4	24.8	26.1	17.8	9.3	7.6

PERSONS

All ages(a)	3.0	132 292	19.4	24.7	22.7	16.0	9.1	8.1
Under 1	2.3	1 199	35.5	30.1	18.4	7.9	4.6	3.4
1-14	2.5	576	21.5	39.9	19.4	9.2	4.9	5.0
15-24	2.6	1 467	12.5	53.0	17.5	8.5	4.6	4.0
25-34	2.6	2 125	17.2	44.4	18.4	9.9	5.5	4.6
35-44	2.6	3 585	25.7	33.8	18.1	11.5	5.8	5.1
45-54	2.5	6 530	32.3	27.6	17.3	11.5	6.1	5.3
55-64	2.6	12 136	30.4	25.6	18.2	12.5	6.8	6.5
65-74	3.0	22 333	23.2	23.1	21.4	15.1	8.8	8.4
75-84	3.2	41 935	16.8	22.3	23.6	17.4	10.3	9.6
85 and over	3.2	40 392	13.9	24.1	25.8	18.2	9.9	8.2

(a) including age not stated

2.2 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 of number of causes</i>
All Causes	25 668	32 672	30 038	21 167	22 747	3.0
CHAPTER I Certain infectious and parasitic diseases (A00-B99)	218	311	410	366	449	3.5
Septicaemia (A40, A41)	101	208	243	238	289	3.6
Human immunodeficiency virus (HIV) disease (B20-B24)	71	20	13	5	4	1.7
CHAPTER II Neoplasms (C00-D48)	14 258	9 270	6 984	3 923	3 957	2.4
Malignant neoplasms (C00-C97)	14 122	9 094	6 785	3 770	3 787	2.4
Digestive Organs (C15-C26)	4 388	2 491	1 833	963	985	2.3
Oesophagus (C15)	469	290	177	101	96	2.2
Stomach (C16)	558	266	178	97	81	2.1
Colon (C18)	1 214	729	531	262	303	2.3
Rectosigmoid junction, rectum, anus and anal canal (C19-C21)	590	298	227	144	149	2.4
Liver and intrahepatic bile ducts (C22)	280	229	182	116	97	2.6
Pancreas (C25)	901	435	296	129	141	2.1
Trachea, bronchus and lung (C33-C34)	2 369	1 842	1 374	734	657	2.4
Melanoma of skin (C43)	480	275	184	99	94	2.2
Breast (C50)	1 169	599	440	266	248	2.3
Female genital organs (C51-C58)	635	323	234	103	115	2.2
Ovary (C56)	367	183	126	49	57	2.1
Male genital organs (C60-C63)	1 026	682	557	304	309	2.5
Prostate (C61)	1 012	672	550	303	305	2.5
Urinary tract (C64-C68)	617	401	314	195	218	2.5
Kidney, except renal pelvis (C64)	328	173	132	74	100	2.4
Bladder (C67)	266	206	167	118	112	2.6
Brain (C71)	685	239	132	40	27	1.7
Lymphoid, haematopoietic and related tissue (C81-C96)	980	911	763	500	558	2.8
Leukaemia (C91-C95)	321	349	293	214	227	2.9
In situ and benign neoplasms and neoplasms of uncertain or unknown behaviour (D00-D48)	136	176	199	153	170	3.2
CHAPTER III Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50-D89)	20	49	111	113	161	4.1
CHAPTER IV Endocrine, nutritional and metabolic diseases (E00-E90)	85	500	1 228	1 190	1 718	4.1
Diabetes mellitus (E10-E14)	38	356	921	890	1 184	4.1
CHAPTER V Mental and behavioural disorders (F00-F99)	438	1 111	827	457	408	2.9
Organic, including symptomatic, mental disorders (F00-F09)	397	1 028	666	343	262	2.7
CHAPTER VI Diseases of the nervous system (G00-G99)	847	1 299	961	635	582	2.8
Alzheimer's disease (G30)	374	581	328	203	126	2.5
CHAPTER VII Diseases of the eye and adnexa (H00-H59)	—	np	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)	6 268	11 294	12 634	9 398	9 241	3.2
All heart disease (I05-I09, I11, I13, I20-I25, I26, I27, I30-I52)	3 797	7 197	8 593	6 616	6 858	3.3
Acute rheumatic fever and chronic rheumatic heart diseases (I00-I09)	8	34	56	81	108	4.3
Hypertensive diseases (I10-I15)	200	356	363	228	217	3.0
Ischaemic heart diseases (I20-I25)	2 773	5 459	6 633	5 206	5 368	3.4
Acute myocardial infarction (I21)	1 000	3 280	3 727	2 753	2 689	3.4
Pulmonary heart disease and diseases of pulmonary circulation and other forms of heart disease (I26-I52)	872	1 494	1 750	1 239	1 312	3.2
Heart Failure (I50)	340	676	682	388	346	3.0
Cerebrovascular diseases (I60-I69)	2 060	3 230	3 151	2 104	1 695	2.9
Diseases of arteries, arterioles and capillaries (I70-I79)	351	587	630	495	479	3.2
Atherosclerosis (I70)	31	98	155	85	48	3.1
Aortic aneurysm and dissection (I71)	296	356	282	214	179	2.8

— nil or rounded to zero (including null cells)

Note: np not for publication

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

<i>Underlying Cause of Death and ICD code</i>	<i>Reported alone</i>	<i>One other cause</i>	<i>Two other causes</i>	<i>Three other causes</i>	<i>Four or more other causes</i>	<i>Mean of number of causes</i>
CHAPTER X Diseases of the respiratory system (J00-J99)	1 816	3 039	2 974	2 078	1 985	3.1
Influenza and pneumonia (J10-J18)	1 141	1 095	711	380	239	2.3
Chronic lower respiratory diseases (J40-J47)	414	1 398	1 652	1 236	1 285	3.4
Emphysema (J43)	68	175	174	119	119	3.2
Asthma and status asthmaticus (J45, J46))	48	70	74	61	61	3.2
CHAPTER XI Diseases of the digestive system (K00-K93)	424	872	1 075	855	1 275	3.7
Diseases of oesophagus, stomach and duodenum (K20-K31)	55	123	143	116	171	3.7
Gastric and duodenal ulcer (K25-K27)	51	93	87	65	79	3.3
Diseases of liver (K70-K77)	157	319	361	238	315	3.4
CHAPTER XII Diseases of the skin and subcutaneous tissue (L00-L99)	4	46	80	81	94	4.0
CHAPTER XIII Diseases of the musculoskeletal system and connective tissue (M00-M99)	34	163	261	213	328	4.0
Arthropathies and systemic connective tissue disorders (M00-M36)	25	109	151	115	189	3.9
CHAPTER XIV Diseases of the genitourinary system (N00-N99)	158	538	750	672	883	3.8
Renal failure (N17-N19)	144	378	497	425	542	3.7
CHAPTER XV Pregnancy, childbirth and the puerperium (O00-O99)	np	np	3	np	np	2.9
CHAPTER XVI Certain conditions originating in the perinatal period (P00-P96)	199	183	122	51	52	2.4
Fetus and newborn affected by maternal factors and by complications of pregnancy, labour and delivery (P00-P04)	107	135	82	34	36	2.5
CHAPTER XVII Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	78	172	148	96	103	3.1
Congenital malformations of the circulatory system (Q20-Q28)	34	61	48	40	36	3.0
CHAPTER XVIII Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00-R99)	811	70	16	—	—	1.1
CHAPTER XX External causes of morbidity and mortality (V01-Y98)	9	3 752	1 448	1 032	1 508	3.2
Accidents (V01-X59)	8	1 979	928	730	1 220	3.5
Transport accidents (V01-V99)	np	1 104	345	np	196	2.8
Falls (W00-W19)	np	145	np	155	266	4.2
Accidental drowning and submersion (W65-W74)	—	134	40	17	10	2.5
Intentional self-harm (X60-X84)	—	1 539	391	166	117	2.5
Hanging, strangulation and suffocation (X70)	—	753	171	49	23	2.4
Assault (X85-Y09)	np	168	53	38	np	2.7

— nil or rounded to zero (including null cells)

Note: np not for publication

2.3**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	68 330	63 962	132 292	197 169	186 854	384 023	2.9
CHAPTER I Certain infectious and parasitic diseases (A00-B99)	926	828	1 754	5 082	4 429	9 511	5.4
Septicaemia (A40, A41)	520	559	1 079	3 802	3 638	7 440	6.9
Human immunodeficiency virus (HIV) disease (B20-B24)	102	11	113	121	12	133	1.2
CHAPTER II Neoplasms (C00-D48)	21 505	16 887	38 392	30 166	23 184	53 350	1.4
Malignant neoplasms (C00-C97)	21 081	16 477	37 558	29 212	22 355	51 567	1.4
Digestive Organs (C15-C26)	5 980	4 680	10 660	6 746	5 214	11 960	1.1
Oesophagus (C15)	771	362	1 133	812	389	1 201	1.1
Stomach (C16)	703	477	1 180	773	515	1 288	1.1
Colon (C18)	1 584	1 455	3 039	1 861	1 665	3 526	1.2
Rectosigmoid junction, rectum, anus and anal canal (C19-C21)	835	573	1 408	955	632	1 587	1.1
Liver and intrahepatic bile ducts (C22)	615	289	904	669	312	981	1.1
Pancreas (C25)	946	956	1 902	989	993	1 982	1.0
Trachea, bronchus and lung (C33, C34)	4 510	2 466	6 976	4 886	2 640	7 526	1.1
Melanoma of skin (C43)	759	373	1 132	821	420	1 241	1.1
Breast (C50)	9	2 713	2 722	16	3 315	3 331	1.2
Female genital organs (C51-C58)	—	1 410	1 410	—	1 579	1 579	1.1
Ovary (C56)	—	782	782	—	828	828	1.1
Male genital organs (C60-C63)	2 878	—	2 878	4 117	—	4 117	1.4
Prostate (C61)	2 842	—	2 842	4 072	—	4 072	1.4
Urinary tract (C64-C68)	1 123	622	1 745	1 488	743	2 231	1.3
Kidney, except renal pelvis (C64)	501	306	807	609	358	967	1.2
Bladder (C67)	589	280	869	841	345	1 186	1.4
Brain (C71)	652	471	1 123	674	477	1 151	1.0
Lymphoid, haematopoietic and related tissue (C81-C96)	2 074	1 638	3 712	2 612	2 002	4 614	1.2
Leukaemia (C91-C95)	808	596	1 404	1 042	744	1 786	1.3
In situ and benign neoplasms and neoplasms of uncertain or unknown behaviour (D00-D48)	424	410	834	954	829	1 783	2.1
CHAPTER III Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50-D89)	191	263	454	2 032	2 086	4 118	9.1
CHAPTER IV Endocrine, nutritional and metabolic diseases (E00-E90)	2 449	2 272	4 721	9 407	9 378	18 785	4.0
Diabetes mellitus (E10-E14)	1 807	1 582	3 389	6 074	5 336	11 410	3.4
CHAPTER V Mental and behavioural disorders (F00-F99)	1 243	1 998	3 241	8 000	9 223	17 223	5.3
Organic, including symptomatic, mental disorders (F00-F09)	889	1 807	2 696	4 098	6 878	10 976	4.1
CHAPTER VI Diseases of the nervous system (G00-G99)	1 916	2 408	4 324	5 683	5 987	11 670	2.7
Alzheimer's disease (G30)	481	1 131	1 612	1 121	2 258	3 379	2.1
CHAPTER VII Diseases of the eye and adnexa (H00-H59)	<i>np</i>	<i>np</i>	<i>np</i>	163	266	429	<i>np</i>
CHAPTER VIII Diseases of the ear and mastoid process (H60-H95)	<i>np</i>	<i>np</i>	<i>np</i>	55	70	125	<i>np</i>

— nil or rounded to zero (including null cells)

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

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

Note: np not for publication

2.3 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)	23 399	25 436	48 835	70 906	72 534	143 440	2.9
All heart disease (I05-I09, I11,I13, I20-I25,I26, I27, I30-I52)	16 838	16 223	33 061	49 312	45 807	95 119	2.9
Acute rheumatic fever and chronic rheumatic heart diseases (I00-I09)	97	190	287	269	440	709	2.5
Hypertensive diseases (I10-I15)	485	879	1 364	6 420	8 602	15 022	11.0
Ischaemic heart diseases (I20-I25)	13 534	11 905	25 439	26 142	21 440	47 582	1.9
Acute myocardial infarction (I21)	6 938	6 511	13 449	9 143	8 284	17 427	1.3
Pulmonary heart disease and diseases of pulmonary circulation and other forms of heart disease (I26-I52)	2 989	3 678	6 667	22 506	23 361	45 867	6.9
Heart Failure (I50)	969	1 463	2 432	7 700	9 377	17 077	7.0
Cerebrovascular diseases (I60-I69)	4 835	7 405	12 240	9 679	13 306	22 985	1.9
Diseases of arteries, arterioles and capillaries (I70-I79)	1 335	1 207	2 542	4 706	4 230	8 936	3.5
Atherosclerosis (I70)	170	247	417	1 904	2 151	4 055	9.7
Aortic aneurysm and dissection (I71)	813	514	1 327	1 258	715	1 973	1.5
CHAPTER X Diseases of the respiratory system (J00-J99)	6 224	5 668	11 892	28 183	24 294	52 477	4.4
Influenza and pneumonia (J10-J18)	1 558	2 008	3 566	9 179	9 513	18 692	5.2
Chronic lower respiratory diseases (J40-J47)	3 373	2 612	5 985	8 488	6 008	14 496	2.4
Emphysema (J43)	418	237	655	999	502	1 501	2.3
Asthma and status asthmaticus (J45, J46)	108	206	314	451	797	1 248	4.0
CHAPTER XI Diseases of the digestive system (K00-K93)	2 289	2 212	4 501	7 955	7 085	15 040	3.3
Diseases of oesophagus, stomach and duodenum (K20-K31)	282	326	608	1 131	1 120	2 251	3.7
Gastric and duodenal ulcer (K25-K27)	181	194	375	552	517	1 069	2.9
Diseases of liver (K70-K77)	983	407	1 390	3 087	1 600	4 687	3.4
CHAPTER XII Diseases of the skin and subcutaneous tissue (L00-L99)	109	196	305	648	904	1 552	5.1
CHAPTER XIII Diseases of the musculoskeletal system and connective tissue (M00-M99)	316	683	999	1 942	3 792	5 734	5.7
Arthropathies and systemic connective tissue disorders (M00-M36)	179	410	589	1 131	1 943	3 074	5.2
CHAPTER XIV Diseases of the genitourinary system (N00-N99)	1 339	1 662	3 001	9 747	8 848	18 595	6.2
Renal failure (N17-N19)	960	1 026	1 986	8 075	6 864	14 939	7.5
CHAPTER XV Pregnancy, childbirth and the puerperium (O00-O99)	—	8	8	—	15	15	1.9
CHAPTER XVI Certain conditions originating in the perinatal period (P00-P96)	341	266	607	925	696	1 621	2.7
Fetus and newborn affected by maternal factors and by complications of pregnancy, labour and delivery (P00-P04)	219	175	394	400	336	736	1.9
CHAPTER XVII Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	316	281	597	552	532	1 084	1.8
Congenital malformations of the circulatory system (Q20-Q28)	124	95	219	198	188	386	1.8

— nil or rounded to zero (including null cells)

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

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

Note: np not for publication

2.3

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 XVIII Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00-R99)	488	409	897	7 545	8 352	15 897	17.7
CHAPTER XX External causes of morbidity and mortality (V01-Y98)	5 273	2 476	7 749	8 178	5 179	13 357	1.72
Accidents (V01-X59)	3 100	1 765	4 865	4 475	3 201	7 676	1.6
Transport accidents (V01-V99)	1 336	475	1 811	1 359	480	1 839	1.0
Falls (W00-W19)	379	330	709	485	444	929	1.3
Accidental drowning and submersion (W65-W74)	143	58	201	156	63	219	1.1
Intentional self-harm (X60-X84)	1 736	477	2 213	1 788	519	2 307	1.0
Hanging, strangulation and suffocation (X70)	820	176	996	822	177	999	1.0
Assault (X85-Y09)	196	82	278	206	85	291	1.0

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

(b) Ratio of multiple (underlying and associated) to underlying cause.
Note: np not for publication

2.4

CAUSES OF DEATH, Underlying cause and most common associated causes

<i>Underlying cause/associated cause and ICD code</i>	<i>Males</i>		<i>Females</i>		<i>Persons</i>	
	<i>no.</i>	<i>%</i>	<i>no.</i>	<i>%</i>	<i>no.</i>	<i>%</i>
<i>Malignant neoplasms (C00-C97)</i>	21 081	100.0	16 477	100.0	37 558	100.0
Reported Alone	7 535	35.7	6 587	40.0	14 122	37.6
Reported with						
Septicaemia (A40, A41)	875	4.2	566	3.4	1 441	3.8
Diabetes mellitus (E10-E14)	1 082	5.1	771	4.7	1 853	4.9
Ischaemic heart diseases (I20-I25)	1 968	9.3	933	5.7	2 901	7.7
Heart Failure (I50)	751	3.6	603	3.7	1 354	3.6
Cerebrovascular diseases (I60-I69)	760	3.6	605	3.7	1 365	3.6
Influenza and pneumonia (J10-J18)	1 826	8.7	1 197	7.3	3 023	8.0
Chronic lower respiratory diseases (J40-J47)	1 598	7.6	780	4.7	2 378	6.3
Diseases of liver (K70-K77)	703	3.3	490	3.0	1 193	3.2
Renal failure (N17-N19)	1 381	6.6	818	5.0	2 199	5.9
<i>Diabetes mellitus (E10-E14)</i>	1 807	100.0	1 582	100.0	3 389	100.0
Reported alone	21	1.2	17	1.1	38	1.1
Reported with						
Septicaemia (A40, A41)	127	7.0	119	7.5	246	7.3
Organic, including symptomatic, mental disorders (F00-F09)	153	8.5	203	12.8	356	10.5
Ischaemic heart diseases (I20-I25)	1 026	56.8	775	49.0	1 801	53.1
Heart Failure (I50)	304	16.8	296	18.7	600	17.7
Cerebrovascular diseases (I60-I69)	400	22.1	401	25.3	801	23.6
Influenza and pneumonia (J10-J18)	162	9.0	158	10.0	320	9.4
Chronic lower respiratory diseases (J40-J47)	103	5.7	84	5.3	187	5.5
Renal failure (N17-N19)	471	26.1	394	24.9	865	25.5
<i>Organic, including symptomatic, mental disorders (F00-F09)</i>	889	100.0	1 807	100.0	2 696	100.0
Reported alone	93	10.5	304	16.8	397	14.7
Reported with						
Ischaemic heart diseases (I20-I25)	73	8.2	95	5.3	168	6.2
Heart Failure (I50)	55	6.2	111	6.1	166	6.2
Influenza and pneumonia (J10-J18)	410	46.1	664	36.7	1 074	39.8
Renal failure (N17-N19)	65	7.3	104	5.8	169	6.3
<i>Diseases of the nervous system (G00-G99)</i>	1 916	100.0	2 408	100.0	4 324	100.0
Reported alone	341	17.8	506	21.0	847	19.6
Reported with						
Ischaemic heart diseases (I20-I25)	187	9.8	195	8.1	382	8.8
Heart Failure (I50)	84	4.4	130	5.4	214	4.9
Cerebrovascular diseases (I60-I69)	192	10.0	231	9.6	423	9.8
Influenza and pneumonia (J10-J18)	516	26.9	578	24.0	1 094	25.3
<i>Ischaemic heart diseases (I20-I25)</i>	13 534	100.0	11 905	100.0	25 439	100.0
Reported alone	1 770	13.1	1 003	8.4	2 773	10.9
Reported with						
Malignant neoplasms (C00-C97)	993	7.3	540	4.5	1 533	6.0
Diabetes mellitus (E10-E14)	1 433	10.6	1 089	9.1	2 522	9.9
Organic, including symptomatic, mental disorders (F00-F09)	607	4.5	1 132	9.5	1 739	6.8
Diseases of the nervous system (G00-G99)	750	5.5	686	5.8	1 436	5.6
Heart Failure (I50)	2 737	20.2	3 257	27.4	5 994	23.6
Cerebrovascular diseases (I60-I69)	1 063	7.9	1 332	11.2	2 395	9.4
Influenza and pneumonia (J10-J18)	739	5.5	738	6.2	1 477	5.8
Chronic lower respiratory diseases (J40-J47)	1 546	11.4	1 013	8.5	2 559	10.1
Renal failure (N17-N19)	1 475	10.9	1 224	10.3	2 699	10.6

2.4**CAUSES OF DEATH, Underlying cause and most common associated causes***continued*

<i>Underlying cause/associated cause and ICD code</i>	<i>Males</i>		<i>Females</i>		<i>Persons</i>	
	<i>no.</i>	<i>%</i>	<i>no.</i>	<i>%</i>	<i>no.</i>	<i>%</i>
Heart Failure (I50)	969	100.0	1 463	100.0	2 432	100.0
Reported alone	123	12.7	217	14.8	340	14.0
Reported with						
Diabetes mellitus (E10-E14)	65	6.7	73	5.0	138	5.7
Organic, including symptomatic, mental disorders (F00-F09)	71	7.3	192	13.1	263	10.8
Cerebrovascular diseases (I60-I69)	75	7.7	113	7.7	188	7.7
Influenza and pneumonia (J10-J18)	234	24.1	336	23.0	570	23.4
Chronic lower respiratory diseases (J40-J47)	147	15.2	136	9.3	283	11.6
Renal failure (N17-N19)	234	24.1	264	18.0	498	20.5
Cerebrovascular diseases (I60-I69)	4 835	100.0	7 405	100.0	12 240	100.0
Reported alone	757	15.7	1 303	17.6	2 060	16.8
Reported with						
Malignant neoplasms (C00-C97)	314	6.5	260	3.5	574	4.7
Diabetes mellitus (E10-E14)	381	7.9	470	6.3	851	7.0
Diseases of the nervous system (G00-G99)	530	11.0	690	9.3	1 220	10.0
Ischaemic heart diseases (I20-I25)	595	12.3	730	9.9	1 325	10.8
Heart Failure (I50)	237	4.9	426	5.8	663	5.4
Influenza and pneumonia (J10-J18)	845	17.5	1 084	14.6	1 929	15.8
Diseases of arteries, arterioles and capillaries (I70-I79)	1 335	100.0	1 207	100.0	2 542	100.0
Reported alone	211	15.8	140	11.6	351	13.8
Reported with						
Septicaemia (A40, A41)	90	6.7	134	11.1	224	8.8
Hypertensive diseases (I10-I15)	138	10.3	157	13.0	295	11.6
Ischaemic heart diseases (I20-I25)	262	19.6	175	14.5	437	17.2
Heart Failure (I50)	151	11.3	158	13.1	309	12.2
Cerebrovascular diseases (I60-I69)	100	7.5	111	9.2	211	8.3
Influenza and pneumonia (J10-J18)	100	7.5	118	9.8	218	8.6
Renal failure (N17-N19)	185	13.9	164	13.6	349	13.7
Influenza and pneumonia (J10-J18)	1 558	100.0	2 008	100.0	3 566	100.0
Reported alone	439	28.2	702	35.0	1 141	32.0
Reported with						
Septicaemia (A40, A41)	196	12.6	155	7.7	351	9.8
Diabetes mellitus (E10-E14)	86	5.5	87	4.3	173	4.9
Ischaemic heart diseases (I20-I25)	258	16.6	250	12.5	508	14.2
Heart Failure (I50)	146	9.4	219	10.9	365	10.2
Renal failure (N17-N19)	208	13.4	140	7.0	348	9.8
Chronic lower respiratory diseases (J40-J47)	3 373	100.0	2 612	100.0	5 985	100.0
Reported alone	238	7.1	176	6.7	414	6.9
Reported with						
Malignant neoplasms (C00-C97)	318	9.4	121	4.6	439	7.3
Diabetes mellitus (E10-E14)	183	5.4	156	6.0	339	5.7
Ischaemic heart diseases (I20-I25)	681	20.2	452	17.3	1 133	18.9
Heart Failure (I50)	526	15.6	508	19.4	1 034	17.3
Cerebrovascular diseases (I60-I69)	197	5.8	135	5.2	332	5.5
Influenza and pneumonia (J10-J18)	1 208	35.8	838	32.1	2 046	34.2
Renal failure (N17-N19)	291	8.6	180	6.9	471	7.9
Renal failure (N17-N19)	960	100.0	1 026	100.0	1 986	100.0
Reported alone	53	5.5	91	8.9	144	7.3
Reported with						
Septicaemia (A40, A41)	132	13.8	95	9.3	227	11.4
Diabetes mellitus (E10-E14)	90	9.4	82	8.0	172	8.7
Ischaemic heart diseases (I20-I25)	280	29.2	245	23.9	525	26.4
Heart Failure (I50)	286	29.8	281	27.4	567	28.5
Cerebrovascular diseases (I60-I69)	86	9.0	73	7.1	159	8.0
Influenza and pneumonia (J10-J18)	157	16.4	132	12.9	289	14.6

2.5 CAUSES OF DEATH, Associated cause and underlying cause

Multiple cause/underlying cause and ICD code	Males		Females		Persons	
	no.	%	no.	%	no.	%
Septicaemia (A40-A41)	3 795	100.0	3 635	100.0	7 430	100.0
Reported as underlying cause	520	13.7	559	15.4	1 079	14.5
Reported in association with an underlying cause of						
Malignant neoplasms (C00-C97)	875	23.1	566	15.6	1 441	19.4
Diabetes mellitus (E10-E14)	127	3.3	119	3.3	246	3.3
Ischaemic heart diseases (I20-I25)	222	5.8	189	5.2	411	5.5
Cerebrovascular diseases (I60-I69)	141	3.7	124	3.4	265	3.6
Influenza and pneumonia (J10-J18)	196	5.2	155	4.3	351	4.7
Malignant neoplasms (C00-C97)	24 111	100.0	18 362	100.0	42 473	100.0
Reported as underlying cause	21 081	87.4	16 477	89.7	37 558	88.4
Reported in association with an underlying cause of						
Ischaemic heart diseases (I20-I25)	993	4.1	540	2.9	1 533	3.6
Cerebrovascular diseases (I60-I69)	314	1.3	260	1.4	574	1.4
Diabetes mellitus (E10-E14)	6 069	100.0	5 331	100.0	11 400	100.0
Reported as underlying cause	1 807	29.8	1 582	29.7	3 389	29.7
Reported in association with an underlying cause of						
Malignant neoplasms (C00-C97)	1 082	17.8	771	14.5	1 853	16.3
Ischaemic heart diseases (I20-I25)	1 433	23.6	1 089	20.4	2 522	22.1
Cerebrovascular diseases (I60-I69)	381	6.3	470	8.8	851	7.5
Organic, including symptomatic, mental disorders (F00-F09)	4 085	100.0	6 852	100.0	10 937	100.0
Reported as underlying cause	889	21.8	1 807	26.4	2 696	24.7
Reported in association with an underlying cause of						
Malignant neoplasms (C00-C97)	366	9.0	387	5.6	753	6.9
Ischaemic heart diseases (I20-I25)	607	14.9	1 132	16.5	1 739	15.9
Heart failure (I50)	71	1.7	192	2.8	263	2.4
Chronic lower respiratory diseases (J40-J47)	203	5.0	183	2.7	386	3.5
Diseases of the nervous system (G00-G99)	5 297	100.0	5 667	100.0	10 964	100.0
Reported as underlying cause	1 916	36.2	2 408	42.5	4 324	39.4
Reported in association with an underlying cause of						
Malignant neoplasms (C00-C97)	602	11.4	453	8.0	1 055	9.6
Ischaemic heart diseases (I20-I25)	750	14.2	686	12.1	1 436	13.1
Cerebrovascular diseases (I60-I69)	530	10.0	690	12.2	1 220	11.1
Hypertensive diseases (I10-I15)	6 393	100.0	8 560	100.0	14 953	100.0
Reported as underlying cause	485	7.6	879	10.27	1 364	9.1
Reported in association with an underlying cause of						
Malignant neoplasms (C00-C97)	1 014	15.9	958	11.2	1 972	13.2
Ischaemic heart diseases (I20-I25)	2 132	33.3	2 479	29.0	4 611	30.8
Diseases of arteries, arterioles and capillaries (I70-I79)	138	2.2	157	1.8	295	2.0
Chronic lower respiratory diseases (J40-J47)	184	2.9	214	2.5	398	2.7
Ischaemic heart diseases (I20-I25)	20 901	100.0	17 428	100.0	38 329	100.0
Reported as underlying cause	13 534	64.8	11 905	68.3	25 439	66.4
Reported in association with an underlying cause of						
Malignant neoplasms (C00-C97)	1 968	9.4	933	5.4	2 901	7.6
Diabetes mellitus (E10-E14)	1 026	4.9	775	4.4	1 801	4.7
Cerebrovascular diseases (I60-I69)	595	2.8	730	4.2	1 325	3.5
Chronic lower respiratory diseases (J40-J47)	681	3.3	452	2.6	1 133	3.0
Heart failure (I50)	7 669	100.0	9 338	100.0	17 007	100.0
Reported as underlying cause	969	12.6	1 463	15.7	2 432	14.3
Reported in association with an underlying cause of						
Malignant neoplasms (C00-C97)	751	9.8	603	6.5	1 354	8.0
Diabetes mellitus (E10-E14)	304	4.0	296	3.2	600	3.5
Ischaemic heart diseases (I20-I25)	2 737	35.7	3 257	34.9	5 994	35.2
Cerebrovascular diseases (I60-I69)	237	3.1	426	4.6	663	3.9
Chronic lower respiratory diseases (J40-J47)	526	6.9	508	5.4	1 034	6.1
Renal failure (N17-N19)	286	3.7	281	3.0	567	3.3

2.5**CAUSES OF DEATH, Associated cause and underlying cause *continued***

<i>Multiple cause/underlying cause and ICD code</i>	<i>Males</i>		<i>Females</i>		<i>Persons</i>	
	<i>no.</i>	<i>%</i>	<i>no.</i>	<i>%</i>	<i>no.</i>	<i>%</i>
<i>Cerebrovascular diseases (I60-I69)</i>	8 872	100.0	11 926	100.0	20 798	100.0
Reported as underlying cause	4 835	54.5	7 405	62.1	12 240	58.9
Reported in association with an underlying cause of						
Malignant neoplasms (C00-C97)	760	8.6	605	5.1	1 365	6.6
Diabetes mellitus (E10-E14)	400	4.5	401	3.4	801	3.9
Ischaemic heart diseases (I20-I25)	1 063	12.0	1 332	11.2	2 395	11.5
<i>Diseases of arteries, arterioles and capillaries (I70-I79)</i>	4 307	100.0	3 951	100.0	8 258	100.0
Reported as underlying cause	1 335	31.0	1 207	30.5	2 542	30.8
Reported in association with an underlying cause of						
Malignant neoplasms (C00-C97)	304	7.1	139	3.5	443	5.4
Ischaemic heart diseases (I20-I25)	1 289	29.9	1 079	27.3	2 368	28.7
Cerebrovascular diseases (I60-I69)	482	11.2	732	18.5	1 214	14.7
<i>Influenza and pneumonia (J10-J18)</i>	9 147	100.0	9 480	100.0	18 627	100.0
Reported as underlying cause	1 558	17.0	2 008	21.2	3 566	19.1
Reported in association with an underlying cause of						
Malignant neoplasms (C00-C97)	1 826	20.0	1 197	12.6	3 023	16.2
Organic, including symptomatic, mental disorders (F00-F09)	410	4.5	664	7.0	1 074	5.8
Diseases of the nervous system (G00-G99)	516	5.6	578	6.1	1 094	5.9
Ischaemic heart diseases (I20-I25)	739	8.1	738	7.8	1 477	7.9
Heart failure (I50)	234	2.6	336	3.5	570	3.1
Cerebrovascular diseases (I60-I69)	845	9.2	1 084	11.4	1 929	10.4
Chronic lower respiratory diseases (J40-J47)	1 208	13.2	838	8.8	2 046	11.0
<i>Chronic lower respiratory diseases (J40-J47)</i>	8 348	100.0	5 860	100.0	14 208	100.0
Reported as underlying cause	3 373	40.4	2 612	44.6	5 985	42.1
Reported in association with an underlying cause of						
Malignant neoplasms (C00-C97)	1 598	19.1	780	13.3	2 378	16.7
Ischaemic heart diseases (I20-I25)	1 546	18.5	1 013	17.3	2 559	18.0
Cerebrovascular diseases (I60-I69)	225	2.7	230	3.9	455	3.2
<i>Diseases of liver (K70-K77)</i>	2 528	100.0	1 345	100.0	3 873	100.0
Reported as underlying cause	983	38.9	407	30.3	1 390	35.9
Reported in association with an underlying cause of						
Malignant neoplasms (C00-C97)	703	27.8	490	36.4	1 193	30.8
Ischaemic heart diseases (I20-I25)	163	6.4	70	5.2	233	6.0
<i>Renal failure (N17-N19)</i>	7 330	100.0	6 299	100.0	13 629	100.0
Reported as underlying cause	960	13.1	1 026	16.3	1 986	14.6
Reported in association with an underlying cause of						
Malignant neoplasms (C00-C97)	1 381	18.8	818	13.0	2 199	16.1
Diabetes mellitus (E10-E14)	471	6.4	394	6.3	865	6.3
Ischaemic heart diseases (I20-I25)	1 475	20.1	1 224	19.4	2 699	19.8
Heart failure (I50)	234	3.2	264	4.2	498	3.7
Cerebrovascular diseases (I60-I69)	253	3.5	284	4.5	537	3.9
Chronic lower respiratory diseases (J40-J47)	291	4.0	180	2.9	471	3.5

2.6 NATURE OF INJURY, By external cause

ACCIDENTS							
<i>Nature of injury or poisoning and ICD code</i>	<i>Transport accidents (V01-V99)</i>	<i>Accidental Falls (W00-W19)</i>	<i>Accidental drowning and submersion (W65-W74)</i>	<i>Exposure to smoke, fire and flames (X00-X09)</i>	<i>Accidental poisonings (X40-X49)</i>	<i>Other accidents</i>	<i>Total accidents</i>
MALES (%)							
Total injuries (S00-T98)	100	100.0	100.0	100.0	100.0	100.0	100.0
Injuries to the head (S00-S09)	29.2	52.1	np	—	np	np	23.6
Fracture of skull and facial bones (S02)	5.2	3.5	np	—	—	np	3.1
Injuries to the thorax (S20-S29)	17.6	10.5	np	—	—	np	11.4
Injuries to the abdomen, lower back, lumbar spine and pelvis (S30-S39)	7.2	4.6	—	—	np	np	4.9
Injuries to the hip and thigh (S70-S79)	0.5	7.1	—	—	—	22.8	5.8
Fracture of femur (S72)	0.5	6.7	—	—	—	22.4	5.7
Unspecified multiple injuries (T07)	23.3	4.8	np	—	—	np	12.1
Burns and corrosions (T20-T32)	1.4	np	—	47.7	np	0.5	1.7
Poisoning by drugs, medicaments and biological substances (T36-T50)	np	np	np	—	75.9	0.5	12.2
Poisoning by narcotics and psychodysleptics (hallucinogens) (T40)	0.3	—	np	—	np	np	5.9
Toxic effects of substances chiefly nonmedicinal as to source (T51-T65)	0.7	0.9	np	51.2	20.0	np	4.6
Toxic effect of carbon monoxide (T58)	np	—	np	7.0	np	np	0.9
Other and unspecified effects of external causes (T66-T78)	3.8	1.6	89.4	—	0.4	16.5	8.5
Asphyxiation (T71)	np	np	—	—	np	11.9	3.1
Certain early complications of trauma (T79)	1.4	3.2	—	np	—	np	1.7
MALES (NO.)							
Total Injuries	2 159	564	160	86	715	959	4 643

— nil or rounded to zero (including null cells)

Note: np not for publication

2.6NATURE OF INJURY, By external cause *continued*

INTENTIONAL INJURY AND OTHER

<i>Nature of injury or poisoning and ICD code</i>	<i>Intentional self-harm (X60-X84)</i>	<i>Assault (X85-Y09)</i>	<i>Other intentional injury</i>	<i>Total intentional injury</i>	<i>Total external causes</i>
MALES (%)					
Total injuries (S00-T98)	100.0	100.0	100.0	100.0	100.0
Injuries to the head (S00-S09)	11.5	np	np	13.1	19.9
Fracture of skull and facial bones (S02)	np	2.2	np	0.8	np
Injuries to the thorax (S20-S29)	np	29.9	np	5.0	9.1
Injuries to the abdomen, lower back, lumbar spine and pelvis (S30-S39)	0.8	5.0	—	1.2	3.6
Injuries to the hip and thigh (S70-S79)	0.1	np	np	0.4	3.9
Fracture of femur (S72)	np	—	np	0.1	3.7
Unspecified multiple injuries (T07)	4.5	np	np	4.2	9.3
Burns and corrosions (T20-T32)	np	np	—	1.2	1.5
Poisoning by drugs, medicaments and biological substances (T36-T50)	11.4	np	np	11.2	11.8
Poisoning by narcotics and psychodysleptics (hallucinogens) (T40)	np	np	6.9	2.9	4.8
Toxic effects of substances chiefly nonmedicinal as to source (T51-T65)	18.7	2.2	1.3	15.3	8.4
Toxic effect of carbon monoxide (T58)	np	np	—	12.3	5.0
Other and unspecified effects of external causes (T66-T78)	42.7	3.6	7.8	35.3	18.0
Asphyxiation (T71)	40.4	np	np	32.8	13.6
Certain early complications of trauma (T79)	np	1.1	np	0.5	1.3

MALES (NO.)

Total Injuries	2 047	278	232	2 557	7 200
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— nil or rounded to zero (including null cells)

Note: np not for publication

2.6NATURE OF INJURY, By external cause *continued*

ACCIDENTS							
<i>Nature of injury or poisoning and ICD code</i>	<i>Transport accidents (V01-V99)</i>	<i>Accidental Falls (W00-W19)</i>	<i>Accidental drowning and submersion (W65-W74)</i>	<i>Exposure to smoke, fire and flames (X00-X09)</i>	<i>Accidental poisonings (X40-X49)</i>	<i>Other accidents</i>	<i>Total accidents</i>
FEMALES (%)							
Total injuries (S00-T98)	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Injuries to the head (S00-S09)	27.2	41.8	np	—	np	np	19.3
Fracture of skull and facial bones (S02)	4.2	2.5	—	—	—	0.9	2.0
Injuries to the thorax (S20-S29)	13.8	7.7	—	—	—	3.0	6.5
Injuries to the abdomen, lower back, lumbar spine and pelvis (S30-S39)	6.2	8.5	—	—	—	6.6	5.8
Injuries to the hip and thigh (S70-S79)	0.6	16.6	—	—	—	39.7	17.4
Fracture of femur (S72)	0.4	16.4	—	—	—	39.2	17.2
Unspecified multiple injuries (T07)	31.7	0.6	—	—	—	1.5	9.7
Burns and corrosions (T20-T32)	1.3	—	—	43.6	—	0.6	1.3
Poisoning by drugs, medicaments and biological substances (T36-T50)	np	np	np	10.3	84.9	0.3	11.1
Poisoning by narcotics and psychodysleptics (hallucinogens) (T40)	—	np	np	np	np	np	3.6
Toxic effects of substances chiefly nonmedicinal as to source (T51-T65)	0.4	0.6	np	41.0	13.2	np	2.7
Toxic effect of carbon monoxide (T58)	—	—	—	np	np	—	0.3
Other and unspecified effects of external causes (T66-T78)	1.5	1.7	90.6	—	—	6.3	5.3
Asphyxiation (T71)	np	—	np	—	—	4.1	1.6
Certain early complications of trauma (T79)	1.7	4.0	—	np	np	4.9	3.1
FEMALES (NO.)							
Total Injuries	710	481	64	39	304	874	2 472

— nil or rounded to zero (including null cells)

Note: np not for publication

2.6NATURE OF INJURY, By external cause *continued*

INTENTIONAL INJURY AND OTHER

<i>Nature of injury or poisoning and ICD code</i>	<i>Intentional self-harm (X60-X84)</i>	<i>Assault (X85-Y09)</i>	<i>Other intentional injury</i>	<i>Total intentional injury</i>	<i>Total external causes</i>
FEMALES (%)					
Total injuries (S00-T98)	100.0	100.0	100.0	100.0	100.0
Injuries to the head (S00-S09)	1.9	np	np	5.2	15.5
Fracture of skull and facial bones (S02)	np	—	—	np	np
Injuries to the thorax (S20-S29)	np	17.2	np	4.8	6.0
Injuries to the abdomen, lower back, lumbar spine and pelvis (S30-S39)	0.6	7.4	—	1.4	4.6
Injuries to the hip and thigh (S70-S79)	—	np	np	0.7	13.0
Fracture of femur (S72)	—	—	2.6	0.4	12.7
Unspecified multiple injuries (T07)	5.3	np	np	4.2	8.3
Burns and corrosions (T20-T32)	np	np	—	1.8	1.4
Poisoning by drugs, medicaments and biological substances (T36-T50)	34.6	np	np	25.9	15.0
Poisoning by narcotics and psychodysleptics (hallucinogens) (T40)	np	np	—	4.0	3.7
Toxic effects of substances chiefly nonmedicinal as to source (T51-T65)	15.3	4.1	3.3	11.8	5.1
Toxic effect of carbon monoxide (T58)	np	np	—	8.4	2.5
Other and unspecified effects of external causes (T66-T78)	31.3	9.0	6.6	24.1	10.3
Asphyxiation (T71)	28.2	np	np	20.9	6.7
Certain early complications of trauma (T79)	np	—	np	0.3	2.4

FEMALES (NO.)

Total Injuries	627	122	152	901	3 373
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— nil or rounded to zero (including null cells)

Note: np not for publication

2.6 NATURE OF INJURY, By external cause *continued*

ACCIDENTS							
<i>Nature of injury or poisoning and ICD code</i>	<i>Transport accidents (V01-V99)</i>	<i>Accidental Falls (W00-W19)</i>	<i>Accidental drowning and submersion (W65-W74)</i>	<i>Exposure to smoke, fire and flames (X00-X09)</i>	<i>Accidental poisonings (X40-X49)</i>	<i>Other accidents</i>	<i>Total accidents</i>
PERSONS (%)							
Total injuries (S00-T98)	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Injuries to the head (S00-S09)	28.7	47.4	3.6	—	0.4	13.1	22.1
Fracture of skull and facial bones (S02)	5.0	3.1	np	—	—	np	2.7
Injuries to the thorax (S20-S29)	16.7	9.2	np	—	—	np	9.7
Injuries to the abdomen, lower back, lumbar spine and pelvis (S30-S39)	7.0	6.4	—	—	np	np	5.2
Injuries to the hip and thigh (S70-S79)	0.5	11.5	—	—	—	30.9	9.8
Fracture of femur (S72)	0.5	11.2	—	—	—	30.4	9.7
Unspecified multiple injuries (T07)	25.4	2.9	np	—	—	np	11.3
Burns and corrosions (T20-T32)	1.4	np	—	46.4	np	0.5	1.5
Poisoning by drugs, medicaments and biological substances (T36-T50)	0.5	0.7	1.8	3.2	78.6	0.4	11.8
Poisoning by narcotics and psychodysleptics (hallucinogens) (T40)	0.2	np	np	np	34.1	0.2	5.1
Toxic effects of substances chiefly nonmedicinal as to source (T51-T65)	0.6	0.8	1.3	48.0	18.0	0.4	3.9
Toxic effect of carbon monoxide (T58)	np	—	np	np	4.0	np	0.7
Other and unspecified effects of external causes (T66-T78)	3.2	1.6	89.7	—	0.3	11.6	7.4
Asphyxiation (T71)	0.9	np	np	—	np	8.2	2.5
Certain early complications of trauma (T79)	1.5	3.5	—	np	np	3.9	2.2
PERSONS (NO.)							
Total Injuries	2 869	1 045	224	125	1 019	1 833	7 115

— nil or rounded to zero (including null cells)

Note: np not for publication

2.6NATURE OF INJURY, By external cause *continued*

INTENTIONAL INJURY AND OTHER

<i>Nature of injury or poisoning and ICD code</i>	<i>Intentional self-harm (X60-X84)</i>	<i>Assault (X85-Y09)</i>	<i>Other intentional injury</i>	<i>Total intentional injury</i>	<i>Total external causes</i>
PERSONS (%)					
Total injuries (S00-T98)	100.0	100.0	100.0	100.0	100.0
Injuries to the head (S00-S09)	9.3	30.5	3.4	11.1	18.5
Fracture of skull and facial bones (S02)	0.6	1.5	np	np	2.1
Injuries to the thorax (S20-S29)	2.4	26.0	0.8	5.0	8.1
Injuries to the abdomen, lower back, lumbar spine and pelvis (S30-S39)	0.7	5.8	—	1.2	3.9
Injuries to the hip and thigh (S70-S79)	0.1	1.8	1.3	0.4	6.8
Fracture of femur (S72)	np	—	np	0.2	6.6
Unspecified multiple injuries (T07)	4.7	2.3	3.1	4.2	9.0
Burns and corrosions (T20-T32)	1.4	2.3	—	1.3	1.5
Poisoning by drugs, medicaments and biological substances (T36-T50)	16.8	3.8	14.1	15.0	12.8
Poisoning by narcotics and psychodysleptics (hallucinogens) (T40)	3.2	1.8	4.2	3.2	4.4
Toxic effects of substances chiefly nonmedicinal as to source (T51-T65)	17.9	2.8	2.1	14.4	7.3
Toxic effect of carbon monoxide (T58)	14.4	1.3	—	11.3	4.2
Other and unspecified effects of external causes (T66-T78)	40.1	5.3	7.3	32.4	15.6
Asphyxiation (T71)	37.5	4.3	1.6	29.7	11.4
Certain early complications of trauma (T79)	0.3	0.8	1.0	0.5	1.6

PERSONS (NO.)

Total Injuries	2 674	400	384	3 458	10 573
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— nil or rounded to zero (including null cells)

Note: np not for publication

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 6-10 for further information on perinatal death statistics. Further tables based on either definition are available from the ABS.

TRENDS IN PERINATAL DEATHS

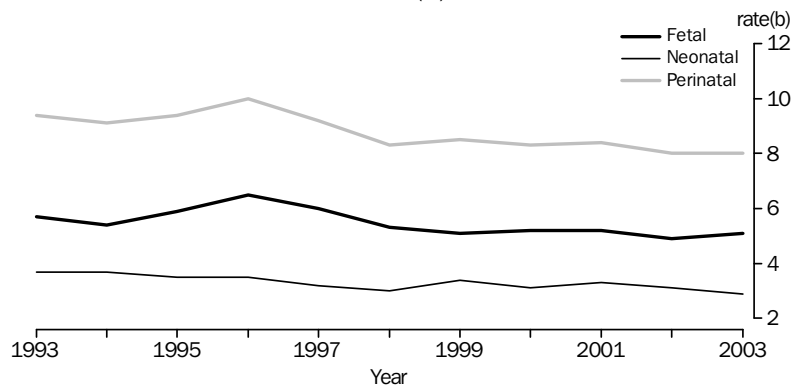
In 2003, there were 2,020 perinatal deaths registered in Australia, compared with 2,019 registered in 2002. The number of fetal deaths in 2003 was 1,288, an increase of 3.9% on the number registered in 2002 (1,240). Neonatal deaths have decreased from 779 in 2002 to 732 in 2003. Since 1993, the number of registered perinatal deaths has decreased by 18.1% (447). The proportion of perinatal deaths where birth weight was less than 1000 grams was 47.9% in 2003, while 46.7% of deaths had a gestational period of less than 28 weeks.

In 2003, the sex ratio of male perinatal deaths for every 100 female perinatal deaths was 123, compared with a ratio of 122 recorded in 2002.

The perinatal death rate remained constant between 2002 and 2003 at 8.0 deaths per 1,000 total relevant births (see Glossary, death rates for further information). Between 1993 and 2003, the perinatal death rate declined from 9.4 to 8.0 deaths per 1,000 total relevant births. In the same period, the fetal rate declined by 10.5% (5.7 to 5.1 per 1,000 total relevant births), while the neonatal rate fell to the lowest ever recorded (2.9 per 1,000 total relevant births). During the last ten years the highest level was recorded in 1993 and 1994 (3.7 per 1,000 total relevant births).

TRENDS IN PERINATAL DEATHS *continued*

TRENDS IN PERINATAL DEATHS (a)

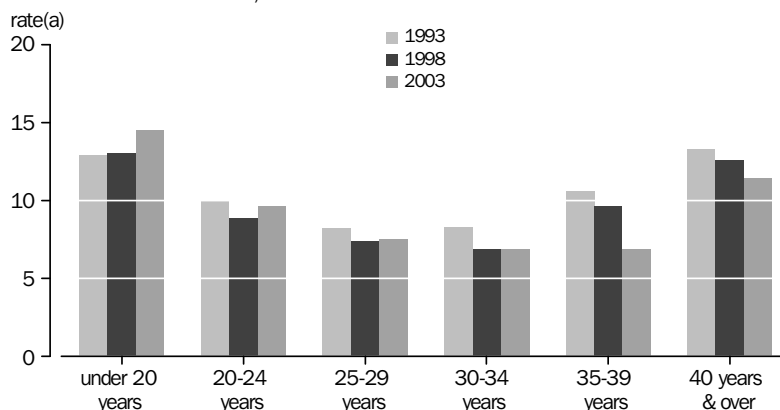


(a) Based on 400 grams/22 weeks.
 (b) Per 1,000 total relevant births.

Northern Territory had the highest perinatal death rate in 2003 (15.2 per 1,000 total relevant births), while New South Wales had the lowest rate (6.8 per 1,000 total relevant births).

AGE OF MOTHER

PERINATAL DEATHS, RATES—AGE OF MOTHER



(a) Per 1,000 total relevant births.

In 2003, the proportion of perinatal deaths registered to mothers aged less than 20 years was 7.8% compared to 4.6% for mothers aged 40 years or more.

While the overall perinatal death rate has decreased by 14.9% over the last ten years, this is not consistent across all age groups. In particular, the perinatal death rate of 14.5 per 1,000 total relevant births in 2003 for mothers aged less than 20 years is 12.4% higher than the 1993 rate of 12.9 per 1,000 total relevant births.

CONDITION IN FETUS/INFANT

In 2003, 30.7% of perinatal deaths were not assigned a specific cause of death in the fetus/infant. Medical certifiers are often unwilling or 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 47.3% of all fetal deaths registered in 2003 reported no specific cause, the corresponding figure for neonatal deaths was 1.6%.

Respiratory and cardiovascular disorders, specific to the perinatal period, accounted for 17.0% of perinatal deaths, while Disorders related to length of gestation and fetal growth contributed a further 14.2%.

CONDITION IN
FETUS/INFANT *continued*

Conditions reported in fetal deaths registered in 2003 include Congenital malformations, deformations and chromosomal abnormalities (14.2%), Respiratory and cardiovascular disorders specific to the perinatal period (14.2%) and Disorders related to length of gestation and fetal growth (8.8%). In comparison, Congenital malformations, deformations and chromosomal abnormalities accounted for 26.1% of neonatal deaths registered in 2003, while Disorders related to length of gestation and fetal growth (23.8%) and Respiratory and cardiovascular disorders, specific to the perinatal period (22.0%) 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 1,225 (60.6%) of the 2,020 perinatal deaths registered in 2003. Complications of placenta, cord and membranes was the most frequently reported maternal cause, accounting for 488 or 24.2% of all perinatal deaths, followed by Maternal complications of pregnancy (340 or 16.8% 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									
1993	709	592	1 301	511	375	886	1 220	967	2 187
1999	549	505	1 054	446	298	744	995	803	1 798
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
RATE (b)									
1993	5.3	4.7	5.0	3.8	3.0	3.4	9.1	7.6	8.4
1999	4.3	4.1	4.2	3.5	2.5	3.0	7.8	6.6	7.2
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

(a) See Explanatory Notes, paragraph 7 for further information.

(b) Rates are 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									
1993	806	689	1 495	563	409	972	1 369	1 098	2 467
1999	682	602	1 284	510	339	849	1 192	941	2 133
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
RATE (b)									
1993	6.0	5.4	5.7	4.2	3.2	3.7	10.2	8.6	9.4
1999	5.3	4.9	5.1	4.0	2.8	3.4	9.3	7.7	8.5
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

(a) See Explanatory Notes, paragraph 6 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									
1993	852	549	444	178	264	69	77	34	2 467
1999	705	543	385	119	208	65	58	50	2 133
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
RATE (b)									
1993	9.5	8.5	9.4	8.8	10.5	10.0	21.1	7.7	9.4
1999	8.1	9.2	8.2	6.6	8.3	10.7	16.1	11.7	8.5
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

(a) Based on 400 grams/20 weeks definition. See Explanatory Notes, paragraph 6 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								
1993	172	509	730	639	285	57	75	2 467
1999	163	374	598	566	307	85	40	2 133
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
RATE (b)								
1993	12.9	10.0	8.2	8.3	10.6	13.3	..	9.4
1999	13.8	9.6	7.5	7.3	8.6	13.4	..	8.5
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

.. not applicable

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

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

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

Cause of death and ICD code	FETAL DEATHS		NEONATAL DEATHS		TOTAL PERINATAL DEATHS	
	Males	Females	Males	Females	Males	Females
TOTAL						
All causes	701	587	414	318	1 115	905
MAIN CONDITION IN FETUS/INFANT						
Certain conditions originating in the perinatal period (P00-P96)	594	503	280	212	874	715
Disorders related to length of gestation and fetal growth (P05-P08)	58	55	101	73	159	128
Extremely low birth weight (P07.0)	26	29	99	69	125	98
Respiratory and cardiovascular disorders specific to the perinatal period (P20-P29)	87	96	82	79	169	175
Intrauterine hypoxia (P20)	np	93	np	5	86	98
Birth asphyxia (P21)	—	—	24	26	24	26
Cardiovascular disorders originating in the perinatal period (P29)	np	3	np	4	15	7
Infections specific to the perinatal period (P35-P39)	11	7	20	20	31	27
Haemorrhagic and haematological disorders of fetus and newborn (P50-P61)	24	11	43	22	67	33
Intracranial nontraumatic haemorrhage of fetus and newborn (P52)	3	np	40	np	43	24
Other disorders originating in the perinatal period (P90-P96)	391	318	16	9	407	327
Fetal death of unspecified cause (P95)	165	144	—	—	165	144
Condition originating in the perinatal period, unspecified (P96.9)	173	127	8	4	181	131
Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	105	78	109	82	214	160
Congenital malformations of the nervous system (Q00-Q07)	22	13	13	17	35	30
Anencephaly and similar malformations (Q00)	np	np	np	np	5	7
Congenital hydrocephalus (Q03)	10	4	5	6	15	10
Spina bifida (Q05)	np	4	np	—	3	4
Congenital malformations of the circulatory system (Q20-Q28)	12	18	30	25	42	43
Congenital malformations of the heart (Q20-Q24)	11	16	27	22	38	38
Congenital malformations of aortic and mitral valves (Q23)	3	3	18	11	21	14
Congenital malformations of lung (Q33)	np	—	np	10	13	10
Congenital malformations of the urinary system (Q60-Q64)	22	np	9	np	31	4
Congenital malformations and deformations of the musculoskeletal system (Q65-Q79)	7	8	15	8	22	16
Congenital diaphragmatic hernia (Q79.0)	np	np	np	np	10	4
Down's syndrome (Q90)	6	np	7	np	13	12
Edwards' syndrome and Patau's syndrome (Q91)	10	4	6	8	16	12

— nil or rounded to zero (including null cells)

Note: np not for publication

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

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

Cause of death and ICD code	FETAL DEATHS		NEONATAL DEATHS		TOTAL PERINATAL DEATHS	
	Males	Females	Males	Females	Males	Females
MAIN CONDITION IN MOTHER						
Maternal conditions that may be unrelated to present pregnancy (P00)	133	109	26	16	159	125
Maternal hypertensive disorders (P00.0)	28	26	9	5	37	31
Maternal complications of pregnancy (P01)	71	48	137	84	208	132
Incompetent cervix (P01.0)	7	6	17	9	24	15
Premature rupture of membranes (P01.1)	16	8	21	13	37	21
Multiple pregnancy (P01.5)	27	20	62	33	89	53
Complications of placenta, cord and membranes (P02)	196	152	71	69	267	221
Placenta praevia and other forms of placental separation and haemorrhage (P02.0-P02.1)	63	36	31	25	94	61
Other and unspecified morphological and functional abnormalities of placenta (P02.2)	np	np	np	np	43	33
Prolapsed cord (P02.4)	10	np	—	np	10	5
Other compression of umbilical cord (P02.5)	np	36	np	—	40	36
Chorioamnionitis (P02.7)	21	22	26	30	47	52
Complications of labour and delivery (P03)	40	29	14	16	54	45
Breech delivery and extraction (P03.0)	np	np	np	np	np	np
Noxious influences transmitted via placenta or breast milk (P04)	5	np	—	np	5	9
No maternal condition reported	256	242	166	131	422	373

— nil or rounded to zero (including null cells)

Note: np not for publication

(a) Based on 400 grams/20 weeks definition. See Explanatory Notes, paragraph 6 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	342	625	301	347	296	43	2 020
MAIN CONDITION IN FETUS/INFANT							
Certain conditions originating in the perinatal period (P00-P96)	260	529	226	251	232	39	1 589
Disorders related to length of gestation and fetal growth (P05-P08)	109	132	22	12	np	np	287
Extremely low birth weight (P07.0)	100	120	—	—	—	—	223
Respiratory and cardiovascular disorders specific to the perinatal period (P20-P29)	22	92	47	67	88	14	344
Intrauterine hypoxia (P20)	9	25	25	52	57	8	184
Birth asphyxia (P21)	np	12	9	7	11	np	50
Cardiovascular disorders originating in the perinatal period (P29)	np	8	np	5	5	np	22
Infections specific to the perinatal period (P35-P39)	9	21	10	9	np	np	58
Haemorrhagic and haematological disorders of fetus and newborn (P50-P61)	np	57	19	13	8	np	100
Intracranial nontraumatic haemorrhage of fetus and newborn (P52)	—	49	np	np	np	np	67
Other disorders originating in the perinatal period (P90-P96)	117	204	115	143	113	15	734
Fetal death of unspecified cause (P95)	22	60	55	76	70	9	309
Condition originating in the perinatal period, unspecified (P96.9)	50	94	51	63	39	5	312
Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	77	92	65	80	np	np	374
Congenital malformations of the nervous system (Q00-Q07)	17	16	12	13	np	np	65
Anencephaly and similar malformations (Q00)	—	np	np	6	—	—	12
Congenital hydrocephalus (Q03)	6	8	np	3	4	np	25
Spina bifida (Q05)	np	np	—	np	—	—	7
Congenital malformations of the circulatory system (Q20-Q28)	14	16	11	22	20	—	85
Congenital Malformations of the heart (Q20-Q24)	13	14	10	21	16	—	76
Congenital malformations of aortic and mitral valves (Q23)	np	7	np	11	11	—	35
Congenital malformations of lung (Q33)	np	—	7	9	np	—	23
Congenital malformations of the urinary system (Q60-Q64)	14	11	5	np	np	—	35
Congenital malformations and deformations of the musculoskeletal system (Q65-Q79)	5	8	4	11	10	—	38
Congenital diaphragmatic hernia (Q79.0)	—	np	np	3	7	—	14
Down's syndrome (Q90)	7	6	np	5	np	—	25
Edwards' syndrome and Patau's syndrome (Q91)	3	np	11	4	np	—	28

— nil or rounded to zero (including null cells)

(a) Based on 400 grams/20 weeks definition. See Explanatory notes, paragraph 6 for further information.

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

Note: np not for publication

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)	73	96	42	31	29	9	284
Maternal hypertensive disorders (P00.0)	15	17	18	11	np	np	68
Maternal complications of pregnancy (P01)	91	157	48	28	7	—	340
Incompetent cervix (P01.0)	21	np	np	—	—	—	39
Premature rupture of membranes (P01.1)	18	30	8	—	—	—	58
Multiple pregnancy (P01.5)	33	65	23	np	np	—	142
Complications of placenta, cord and membranes (P02)	72	161	78	87	69	9	488
Placenta praevia and other forms of placental separation and haemorrhage (P02.0-P02.1)	22	67	27	22	15	—	155
Other and unspecified morphological and functional abnormalities of placenta (P02.2)	np	21	17	16	17	np	76
Prolapsed cord (P02.4)	6	np	—	np	3	—	15
Other compression of umbilical cord (P02.5)	np	9	10	30	20	np	76
Chorioamnionitis (P02.7)	33	37	np	6	5	np	99
Complications of labour and delivery (P03)	35	39	4	3	11	3	99
Breech delivery and extraction (P03.0)	—	np	—	—	np	np	5
Noxious influences transmitted via placenta or breast milk (P04)	np	np	4	4	—	—	14
No maternal condition reported	68	170	125	194	180	22	795

— nil or rounded to zero (including null cells)

(a) Based on 400 grams/20 weeks definition. See Explanatory notes, paragraph 6 for further information.

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

Note: np not for publication

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	185	758	195	340	479	11	2 020
MAIN CONDITION IN FETUS/INFANT							
<i>Certain conditions originating in the perinatal period (P00-P96)</i>	121	638	161	252	375	9	1 589
Disorders related to length of gestation and fetal growth (P05-P08)	54	179	np	21	15	np	287
Extremely low birth weight (P07.0)	51	165	—	—	—	—	223
Respiratory and cardiovascular disorders specific to the perinatal period (P20-P29)	9	110	29	56	128	4	344
Intrauterine hypoxia (P20)	np	32	14	42	92	np	184
Birth asphyxia (P21)	np	15	np	10	13	—	50
Cardiovascular disorders originating in the perinatal period (P29)	—	9	np	np	8	np	22
Infections specific to the perinatal period (P35-P39)	4	28	7	8	10	—	58
Haemorrhagic and haematological disorders of fetus and newborn (P50-P61)	—	62	10	14	13	—	100
Intracranial nontraumatic haemorrhage of fetus and newborn (P52)	—	53	np	np	3	—	67
Other disorders originating in the perinatal period (P90-P96)	52	241	97	135	194	4	734
Fetal death of unspecified cause (P95)	np	59	47	71	112	np	309
Condition originating in the perinatal period, unspecified (P96.9)	np	95	46	60	76	np	312
<i>Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)</i>	59	114	np	76	82	np	374
Congenital malformations of the nervous system (Q00-Q07)	12	21	5	11	15	—	65
Anencephaly and similar malformations (Q00)	—	np	np	np	6	—	12
Congenital hydrocephalus (Q03)	4	10	np	np	8	—	25
Spina bifida (Q05)	4	np	—	np	—	—	7
Congenital malformations of the circulatory system (Q20-Q28)	5	24	9	17	28	—	85
Congenital Malformations of the heart (Q20-Q24)	5	23	7	15	24	—	76
Congenital malformations of aortic and mitral valves (Q23)	np	8	np	6	16	—	35
Congenital malformations of lung (Q33)	—	np	np	12	5	np	23
Congenital malformations of the urinary system (Q60-Q64)	12	16	np	np	—	—	35
Congenital malformations and deformations of the musculoskeletal system (Q65-Q79)	np	9	np	12	10	—	38
Congenital diaphragmatic hernia (Q79.0)	—	np	np	4	7	—	14
Down's syndrome (Q90)	6	9	np	np	4	—	25
Edwards' syndrome and Patau's syndrome (Q91)	np	9	np	6	7	—	28

— nil or rounded to zero (including null cells)

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

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

Note: np not for publication

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

Cause of death and ICD code	PERIOD OF GESTATION (COMPLETED WEEKS)						Total(b)
	Under 22	22-27	28-31	32-36	37-41	and over 42	
MAIN CONDITION IN MOTHER							
Maternal conditions that may be unrelated to present pregnancy (P00)	<i>np</i>	147	29	45	42	<i>np</i>	284
Maternal hypertensive disorders (P00.0)	<i>np</i>	27	<i>np</i>	16	12	—	68
Maternal complications of pregnancy (P01)	50	197	35	34	20	—	340
Incompetent cervix (P01.0)	<i>np</i>	23	<i>np</i>	—	—	—	39
Premature rupture of membranes (P01.1)	9	41	<i>np</i>	<i>np</i>	—	—	58
Multiple pregnancy (P01.5)	11	75	23	20	10	—	142
Complications of placenta, cord and membranes (P02)	41	177	50	88	120	4	488
Placenta praevia and other forms of placental separation and haemorrhage (P02.0-P02.1)	14	76	14	28	21	—	155
Other and unspecified morphological and functional abnormalities of placenta (P02.2)	—	<i>np</i>	17	19	29	<i>np</i>	76
Prolapsed cord (P02.4)	<i>np</i>	7	—	<i>np</i>	4	—	15
Other compression of umbilical cord (P02.5)	—	7	5	21	42	—	76
Chorioamnionitis (P02.7)	23	50	8	<i>np</i>	7	<i>np</i>	99
Complications of labour and delivery (P03)	32	46	<i>np</i>	<i>np</i>	13	<i>np</i>	99
Breech delivery and extraction (P03.0)	—	<i>np</i>	—	<i>np</i>	<i>np</i>	—	5
Noxious influences transmitted via placenta or breast milk (P04)	<i>np</i>	4	<i>np</i>	4	<i>np</i>	—	14
No maternal condition reported	41	187	78	164	282	5	795

— nil or rounded to zero (including null cells)

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

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

Note: *np* not for publication

INTRODUCTION

Information contained in the preceding sections of this publication refer to deaths registered by the state and territory Registrar-Generals during the 2003 calendar year. In this section, deaths statistics are based on a year of occurrence, i.e. the year in which the death actually occurred.

Some countries publish deaths 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 statistically significant (less than 0.1%).

Data on a year of occurrence basis are considered to be more accurate than data on a year of registration basis. Year of occurrence data allows 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. This is true for Australia where about 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 95.3% of the total 133,707 deaths that occurred in 2002 were registered in 2002, only 87.6% of the 2,136 Indigenous deaths and 92.6% of deaths due to External causes that occurred in 2002 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 2002

The following table shows that there are negligible percentage differences between selected underlying causes of death presented on a year of occurrence and year of registration basis in 2002. The biggest difference occurred with Diabetes mellitus, followed by Ischaemic heart disease and Influenza and pneumonia.

SELECTED UNDERLYING CAUSES OF DEATH

Cause of death and ICD code	YEAR OF	YEAR OF	Difference
	REGISTRATION	OCCURRENCE(a)	
	2002	2002	
	no.	no.	%(b)
All causes	133 707	133 047	-0.5
Malignant neoplasms (cancer) (C00-C97)	37 622	37 458	-0.4
Ischaemic heart diseases (I20-I25)	26 063	25 884	-0.7
Cerebrovascular diseases (stroke) (I60-I69)	12 533	12 459	-0.6
Chronic lower respiratory diseases (including asthma, emphysema and bronchitis) (J40-J47)	6 256	6 246	-0.2
Accidents (V01-X59)	4 906	4 877	-0.6
Diabetes mellitus (E10-E14)	3 329	3 296	-1.0
Influenza and pneumonia (J10-J18)	3 084	3 063	-0.7
Diseases of arteries, arterioles and capillaries (including atherosclerosis and aortic aneurysm (I70-I79)	2 641	2 634	-0.3
Heart failure (I50)	2 729	2 711	-0.7
Intentional self-harm (X60-X84)	2 320	2 319	—
All other causes	32 224	32 100	-0.4

— nil or rounded to zero (including null cells)

(a) Deaths occurring in 2002, registered in 2002 and in 2003.

(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	2000		2001		2002	
	Males	Females	Males	Females	Males	Females
All Causes	67 058	61 726	66 815	61 842	68 678	64 369
Chapter I Certain infectious and parasitic diseases (A00-B99)	871	787	898	801	942	834
Septicaemia (A40, A41)	454	494	450	540	503	567
Human immunodeficiency virus (HIV) disease (B20-B24)(b)	157	11	136	14	119	12
Chapter II Neoplasms (C00-D48)	20 665	15 902	21 052	16 407	21 440	16 829
Malignant neoplasms (C00-C97)	20 279	15 546	20 683	16 026	21 017	16 441
Digestive Organs (C15-C26)	5 732	4 364	5 890	4 504	5 766	4 574
Oesophagus (C15)	683	288	698	341	686	318
Stomach (C16)	763	426	753	456	772	447
Colon (C18)	1 786	1 649	1 737	1 590	1 588	1 612
Rectosigmoid junction, rectum, anus and anal canal (C19-C21)	783	500	864	563	826	575
Liver and intrahepatic bile ducts (C22)	513	228	538	239	548	301
Pancreas (C25)	872	876	946	865	958	881
Trachea, bronchus and lung (C33-C34)	4 594	2 317	4 658	2 383	4 719	2 526
Melanoma of skin (C43)	617	354	684	390	723	330
Breast (C50)	21	2 521	26	2 594	17	2 681
Female genital organs (C51-C58)	—	1 405	—	1 527	—	1 499
Ovary (C56)	—	780	—	837	—	841
Male genital organs (C60-C63)	2 703	—	2 760	—	2 857	—
Prostate (C61)	2 665	—	2 718	—	2 820	—
Urinary tract (C64-C68)	1 070	583	1 173	661	1 182	640
Kidney, except renal pelvis (C64)	468	299	501	343	512	322
Bladder (C67)	570	249	633	275	640	277
Brain (C71)	633	455	631	433	652	491
Lymphoid, haematopoietic and related tissue (C81-C96)	2 085	1 669	1 965	1 663	2 142	1 657
Leukaemia (C91-C95)	794	569	779	585	857	584
In situ and benign neoplasms and neoplasms of uncertain or unknown behaviour (D00-D48)	386	356	369	381	423	388
Chapter III Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50-D89)	188	218	184	226	184	253
Chapter IV Endocrine, nutritional and metabolic diseases (E00-E90)	2 147	2 031	2 226	2 107	2 380	2 241
Diabetes mellitus (E10-E14)	1 591	1 418	1 649	1 444	1 765	1 531
Chapter V Mental and behavioural disorders (F00-F99)	1 351	1 726	1 074	1 622	1 243	1 914
Organic, including symptomatic, mental disorders (F00-F09)	670	1 455	689	1 439	847	1 713
Chapter VI Diseases of the nervous system (G00-G99)	1 848	2 208	1 901	2 320	2 137	2 452
Alzheimer's disease (G30)	457	1 106	491	1 114	571	1 284
Chapter VII Diseases of the eye and adnexa (H00-H59)	<i>np</i>	<i>np</i>	<i>np</i>	<i>np</i>	<i>np</i>	<i>np</i>
Chapter VIII Diseases of the ear and mastoid process (H60-H95)	<i>np</i>	<i>np</i>	<i>np</i>	<i>np</i>	<i>np</i>	<i>np</i>
Chapter IX Diseases of the circulatory system (I00-I99)	23 778	26 055	23 718	25 816	23 875	26 102
All heart disease (I05-I09, I11, I13, I20-I25, I26, I27, I30-I52)	17 196	16 821	17 125	16 662	17 175	16 762
Acute rheumatic fever and chronic rheumatic heart diseases (I00-I09)	98	161	84	169	84	178
Hypertensive diseases (I10-I15)	457	750	438	786	465	892
Ischaemic heart diseases (I20-I25)	14 069	12 537	13 956	12 348	13 768	12 116
Acute myocardial infarction (I21)	7 602	7 066	7 507	6 976	7 420	6 772
Pulmonary heart disease and diseases of pulmonary circulation and other forms of heart disease (I26-I52)	2 804	3 726	2 870	3 760	3 094	3 995
Heart Failure (I50)	977	1 656	997	1 642	1 031	1 680
Cerebrovascular diseases (I60-I69)	4 909	7 437	4 868	7 333	4 957	7 502
Diseases of arteries, arterioles and capillaries (I70-I79)	1 316	1 296	1 382	1 250	1 382	1 252
Atherosclerosis (I70)	186	324	175	285	175	326
Aortic aneurysm and dissection (I71)	800	544	796	541	835	546

— nil or rounded to zero (including null cells)

(b) See Explanatory Notes, paragraph 18 for further information.

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

Note: np not for publication

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

Cause of death and ICD code	2000		2001		2002	
	Males	Females	Males	Females	Males	Females
Chapter X Diseases of the respiratory system (J00-J99)	5 987	5 001	5 700	4 922	6 177	5 463
Influenza and pneumonia (J10-J18)	1 323	1 616	1 183	1 534	1 352	1 711
Chronic lower respiratory diseases (J40-J47)	3 535	2 463	3 410	2 503	3 568	2 678
Emphysema (J43)	486	234	416	273	459	283
Asthma and status asthmaticus (J45, J46)	172	280	175	241	162	241
Chapter XI Diseases of the digestive system (K00-K93)	2 062	2 083	2 028	2 025	2 225	2 260
Diseases of oesophagus, stomach and duodenum (K20-K31)	336	349	301	332	277	361
Gastric and duodenal ulcer (K25-K27)	234	237	207	235	178	235
Diseases of liver (K70-K77)	805	367	812	358	929	444
Chapter XII Diseases of the skin and subcutaneous tissue (L00-L99)	94	150	106	163	121	215
Chapter XIII Diseases of the musculoskeletal system and connective tissue (M00-M99)	278	578	287	610	348	665
Arthropathies and systemic connective tissue disorders (M00-M36)	186	392	191	375	204	407
Chapter XIV Diseases of the genitourinary system (N00-N99)	1 176	1 495	1 259	1 587	1 323	1 654
Renal failure (N17-N19)	803	901	825	901	919	1 015
Chapter XV Pregnancy, childbirth and the puerperium (O00-O99)	—	13	—	12	—	13
Chapter XVI Certain conditions originating in the perinatal period (P00-P96)	356	291	393	264	353	301
Fetus and newborn affected by maternal factors and by complications of pregnancy, labour and delivery (P00-P04)	173	146	197	172	184	166
Chapter XVII Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	331	291	331	270	302	276
Congenital malformations of the circulatory system (Q20-Q28)	117	99	113	101	124	92
Chapter XVIII Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00-R99)	337	304	267	261	368	363
Chapter XX External causes of morbidity and mortality (V01-Y98)	5 586	2 587	5 386	2 422	5 256	2 530
Accidents (V01-X59)	3 351	1 840	3 091	1 682	3 081	1 796
Transport accidents (V01-V99)	1 473	554	1 497	511	1 407	498
Falls (W00-W19)	315	262	353	277	326	301
Accidental drowning and submersion (W65-W74)	185	54	196	46	170	67
Intentional self-harm (X60-X84)	1 883	505	1 935	521	1 813	506
Hanging, strangulation and suffocation (X70)	812	184	878	197	826	202
Assault (X85-Y09)	189	114	201	103	191	95

— nil or rounded to zero (including null cells)

Note: np not for publication

(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 as to 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. Usually about 5% 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 the ABS statistics.

4 As deaths of Australian residents which occurred outside Australia are not within the scope of the collection, most of the Australian fatalities of the Bali bombing were excluded from these statistics. Only 8 victims of the Bali bombing died after arrival or en route to Australia, and these have been included in the statistics in 2002. This number includes 2 overseas residents. Under the International Classification of Diseases and Related Health problems tenth revision (ICD-10), these deaths have been coded to X96 (Assault by explosive material).

5 After the attacks on the World Trade Center on September 11, 2001, the National Center for Health Statistics (NCHS) in the USA assigned preliminary codes within the ICD-10 classification for deaths by terrorism. To classify a death as terrorist-related in the USA, it is necessary for the incident to be designated as such by the Federal Bureau of Investigation (FBI). The ABS has not adopted the preliminary terrorism codes but has coded these deaths using the standard ICD-10 classification and coding rules. If the terrorism codes were to be used and the Bali bombing was classified as a terrorist related incident these deaths would have been classified as U01.2 (Terrorism involving other explosives and fragments).

Perinatal death statistics

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

Perinatal death statistics
continued

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

8 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.

9 The adjusted birth statistics differ from the birth statistics used to derive the infant death rates in this publication. The statistics used to calculate infant death rates include all registered live births regardless of birthweight. These statistics are shown in tables A2.1 of Appendix 2.

10 The adjusted birth statistics also differ from the statistics published in *Births, Australia* (cat. no. 3301.0), which are unadjusted for birthweight, i.e. 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

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

12 The Australian Standard Geographical Classification versions used since 1993 have a category 'Other Territories' comprising Jervis Bay, Christmas Island and Cocos (Keeling) Islands. In the past, Jervis Bay was included with Australian Capital Territory and the two island Territories were included in Off-Shore Areas and Migratory. From 1993 to 1996, statistics for 'Other Territories' have been excluded from this publication. However, from 1997 they are included in the Australian totals.

CAUSE OF DEATH
CLASSIFICATION USED

13 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. In this publication, underlying cause data for 2001 and 2002 have been coded to the tenth revision while previous years' data are coded to the ninth revision. All multiple cause data in this publication are coded to the tenth revision (see Glossary for definition of underlying and multiple cause). For underlying cause of 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.

14 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.

15 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.

CAUSE OF DEATH
CLASSIFICATION USED
continued

16 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.

17 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.

18 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).

19 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

20 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.

DATA QUALITY

21 In compiling these statistics, the ABS employs a variety of quality control measures to ensure that the statistics are as reliable as possible. These measures include: seeking further information where necessary to enable accurate classification of the underlying cause of death; check-coding of cause of death; detailed computer editing of data; and checks on the statistical output, at the individual record and aggregate levels.

22 To assist certifiers in providing accurate and comprehensive information for mortality coding, the ABS provides certification booklets for guidance in the completion of medical certificates of cause of death.

Indigenous deaths

23 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 2003 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.

24 Where necessary, data for non-Indigenous deaths for selected causes have been suppressed to preserve the confidentiality of the suppressed Indigenous data. Detailed information on coverage of Indigenous deaths is provided in *Deaths, Australia* (cat 3302.0).

BIRTHS DATA

25 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

26 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

27 Other available ABS products which may be of interest include:

AusStats — electronic data (see Explanatory Note 27)

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 — single issue

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

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

28 AusStats is a web based information service which provides the ABS full standard product range on line. It also includes companion data in multidimensional datasets in SuperTable format, and time series spreadsheets.

29 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.

30 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

31 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.

32 Perinatal tabulations for Australia based on national (see Explanatory Notes, paragraph 6 and 7) 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.

33 For more information about cause of death statistics or data concepts contact the National Information Service on 1300 135070.

EFFECTS OF ROUNDING

34 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 1997–2003

Documentation is available detailing the relationship between the various revisions of ICD. In 2003, 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)

A1.1 STANDARD UNDERLYING CAUSE OF DEATH TABLES

Table Description

- COD 1 Deaths by state and territory of usual residence by cause of death (ICD 3-digit) by sex
- COD 2 Deaths by state and territory of usual residence by cause of death (ICD 3-digit) by sex by five-year age groups
- COD 3 Deaths by state and territory of registration by cause of death (ICD 3-digit) by sex
- COD 4 Deaths by state and territory of registration by cause of death (ICD 3-digit) by sex by five-year age groups
- COD 5 Causes of death (ICD 3-digit) by country of birth by sex by age
- COD 6 Causes of death (ICD 3-digit) by month of occurrence by state
- COD 7 Causes of death (ICD 3-digit) by marital status by sex by age

APPENDIX 2

DATA USED IN CALCULATING RATES

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

Sex	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust(b)
Male	44 369	31 605	24 454	9 051	12 102	3 018	1 919	2 082	128 623
Female	42 214	29 873	23 317	8 614	11 499	2 985	1 805	2 030	122 365
Persons	86 583	61 478	47 771	17 665	23 601	6 003	3 724	4 112	250 988

(a) Used to calculate infant death rates

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

A2.2 ESTIMATED RESIDENT POPULATION AT 30 JUNE 2003, 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
Males	131 958	1 920 910	1 358 840	1 431 719	1 478 572	1 332 878	925 319	639 345	357 059	81 962	9 658 562
Females	125 151	1 824 661	1 307 906	1 452 746	1 504 097	1 337 443	912 442	682 363	495 681	184 226	9 826 716
Persons	257 109	3 745 571	2 666 746	2 884 465	2 982 669	2 670 321	1 837 761	1 321 708	852 740	266 188	19 485 278

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

	STATE OR TERRITORY OF USUAL RESIDENCE								
	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust. (b)
Live Births									
Males	44 527	31 257	24 847	8 994	12 447	2 981	1 982	2 128	129 175
Females	41 807	29 801	23 495	8 438	11 824	2 769	1 798	2 000	121 951
Stillbirths(c)									
Male	177	200	119	75	71	24	24	11	701
Female	163	146	121	36	72	19	15	15	587
Total									
Male	44 704	31 457	24 966	9 069	12 518	3 005	2 006	2 139	129 876
Female	41 970	29 947	23 616	8 474	11 896	2 788	1 813	2 015	122 538
Persons	86 674	61 404	48 582	17 543	24 414	5 793	3 819	4 154	252 414

- (a) Registered births adjusted to conform to WHO criteria for the calculation of perinatal death rates. See Glossary for further information.
- (b) Includes Other Territories. See Explanatory Notes, paragraph 10 for further information.
- (c) Including those where heartbeat ceased before or after the delivery is not known.

A3.2 ADJUSTED BIRTHS(a), By sex of child and age of mother
.....

	AGE OF MOTHER (YEARS)							
	Under 20	20-24	25-29	30-34	35-39	40 and over	Not stated	Total
Live Births								
Males	5 568	18 653	35 765	44 278	20 475	np	np	129 175
Females	5 241	17 645	33 833	41 784	19 396	np	np	121 951
Stillbirths(b)								
Male	56	115	183	208	101	np	np	701
Female	51	109	151	168	75	np	np	587
Total								
Males	5 624	18 768	35 948	44 486	20 576	4 226	248	129 876
Females	5 292	17 754	33 984	41 952	19 471	3 872	213	122 538
Persons	10 916	36 522	69 932	86 438	40 047	8 098	461	252 414

- (a) Registered births adjusted to conform to WHO criteria for the calculation of perinatal death rates. See Glossary.
- (b) Including those where heartbeat ceased before or after delivery is not known.

400 GRAMS/20 WEEKS
GESTATION *continued*

A3.3 ADJUSTED BIRTHS(a), By sex

	LIVE BIRTHS(b)			STILLBIRTHS(c)			TOTAL		
	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons
1993	133 564	126 643	260 207	806	689	1 495	134 370	127 332	261 702
1999	127 346	121 493	248 839	682	602	1 284	128 028	122 095	250 123
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

- (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, paragraphs 6 to 10 for further information.
- (b) Live births based on 400 grams/20 weeks gestation definition.
- (c) Including those where heartbeat ceased before or after 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 ADJUSTED BIRTHS(a), By sex.

	LIVE BIRTHS			STILLBIRTH(b)			TOTAL		
	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons
1993	133 544	126 633	260 177	709	592	1 301	134 253	127 225	261 478
1999	127 297	121 456	248 753	549	505	1 054	127 846	121 961	249 807
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

- (a) Registered births adjusted to confirm to WHO criteria for the calculation of perinatal death rates, based on the 500 grams/22 weeks definition. See Glossary and explanatory notes, paragraph 6 to 10 for further information.
- (b) Including those where heartbeat ceased before or after 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 according to WHO recommendations, where each death was assigned a single underlying cause.

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, it has been postulated, 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, ABS has from 1997 calendar year data coded and tabulated 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.

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.

MULTIPLE CAUSES OF DEATH
STATISTICS *continued*

The introduction of automatic coding of causes of death, however, has introduced a break in time series data in 1997. This issue is addressed in Appendix 5 and comparability factors have been provided to assist with the linking of manually and automatically 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 recent years there have been 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 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 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 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 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	*

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 XVII Congenital malformations, deformations and chromosomal abnormalities	Q00-Q99	740-759	1.03
Congenital malformations of the nervous system	Q00-Q07	740-742	1.00
Congenital malformations of the circulatory system	Q20-Q28	745-747	1.12
Congenital malformations of the respiratory system	Q30-Q34	748	0.90
Chapter XVIII Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	R00-R99	780-799	0.76
Sudden infant death syndrome	R95	7 980	0.94
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 would bias the YPLL calculation because of the relatively high mortality rate for that age, and 79 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:

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

where:

N = estimated number of persons resident in Australia aged 1–78 years at 30 June 2003

N_x = estimated number of persons resident in Australia aged x years at 30 June 2003

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

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

GLOSSARY

Adjusted births Registered births adjusted by removing all stillbirths and neonatal deaths where birthweight was known to be less than 400 grams. This is the denominator used in calculating perinatal death rates in this publication. This adjustment is made in order to enable meaningful perinatal death rates to be calculated. See Explanatory Notes, paragraph 6.

Associated causes All causes listed on a death certificate other than the underlying cause.

Death rates 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:

- *Standardised death rates* 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 rates in this publication are calculated using the *direct method*, used when populations under study are large and the age-specific death rates are reliable. 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 and 1.8.

- *Age-specific death rates* 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.

- *Infant death rates* 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.

For comparison and measuring purposes, perinatal deaths in this publication have also been expressed as rates. These rates are defined as follows:

- for fetal deaths and total perinatal deaths, the rates represent the number of deaths per 1,000 total relevant births which comprises live births and fetal deaths combined (where birthweight was at least 400 grams).
- for neonatal deaths, the rates represent the number of deaths per 1,000 live births (where birthweight was at least 400 grams).

Fetal death A fetal death is the delivery of a child, who did not, at any time after delivery, breathe or show any other evidence of life such as a heartbeat. (A birthweight criterion applies. See Explanatory Notes, paragraphs 6–8).

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 13 to 19 and Appendix 4 for more information on ICD. Further information also is available from the WHO website <<www.who.int>>.

Infant death The death of a child before its first birthday.

Live births A live birth is the birth of a child, who, after delivery, breathes or shows any other evidence of life such as a heartbeat. (A birthweight criterion applies. See Explanatory Notes, paragraphs 8–10).

Multiple causes of death	All morbid conditions, diseases and injuries entered on the death certificate. These include those involved in the morbid train of events leading to death which were classified as either the underlying cause, the immediate cause, or any intervening causes and those conditions which contributed to death, but were not related to the disease or condition causing death. For deaths where the underlying cause was identified as an external cause (injury or poisoning) multiple causes include circumstances of injury, the nature of injury as well as any other conditions reported on the death certificate.
Neonatal death	A neonatal death is the death within 28 days of birth of any child who, after delivery, breathed or showed any other evidence of life such as a heartbeat. (A birthweight criterion applies. See Explanatory Notes, paragraphs 6–8).
Perinatal death	A perinatal death is a fetal death or neonatal death. (A birthweight criterion applies. See Explanatory Notes, paragraphs 6–8).
Period of gestation	Period of gestation is measured from the first day of the last normal menstrual period to the date of birth and is expressed in completed weeks.
Total Relevant Births	Total Relevant Births comprises live births and fetal deaths combined (where birthweight was at least 400 grams)
Stillbirth	See Fetal death.
Underlying cause of death	The disease or injury which initiated the train of morbid events leading directly to death. Accidental and violent deaths are classified according to the external cause, that is, to the circumstances of the accident or violence which produced the fatal injury rather than to the nature of the injury.
Years of potential life lost (YPLL)	YPLL measures the extent of 'premature' mortality, where 'premature' mortality is assumed to be any death at ages of 1–78 years inclusive. By estimating YPLL for deaths of people aged 1–78 years it is possible to assess the significance of specific diseases or trauma as a cause of premature death. See Technical Note for an explanation of the calculation of YPLL.

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