

CAUSES OF DEATH

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■ For further information about these and related statistics, contact Client Services in any ABS office as shown on the back cover of this publication, or Peter Burke on Brisbane 07 3222 6069.

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 by the Registrar of Births, Deaths and Marriages in each State and Territory.

CHANGES IN THIS

This issue contains an extension of an existing table, a new table and a new appendix.

Table 1.8, Underlying Cause, Indigenous People has been expanded in this issue to include Queensland data. Indigenous identifiers were introduced in Queensland death forms from 1996 and ABS considers that the 1998 data is of publishable standard.

Table 2.6, Causes of Death, Associated Causes and Underlying Cause enables readers to view multiple cause associations in an alternative way to Table 2.5.

Appendix 6, Indigenous Deaths outlines issues associated with the coverage of indigenous deaths and the ABS methodology involved in producing estimated total indigenous deaths.

Explanatory and Technical Notes have been appropriately amended to reflect the above and other minor changes made in this publication.

SYMBOLS AND OTHER USAGES

ABS	Australian Bureau of Statistics
ACS	Automated Coding System

AIDS Acquired Immune Deficiency Syndrome

HIV Human Immunodeficiency Virus

ICD International Classification of Diseases (produced by the World Health

Organisation)

ICD-9 International Classification of Diseases Version 9

ICD-9 CM International Classification of Diseases Version 9 Clinically Modified

NCHS National Center for Health Statistics

r figure or series revised since previous issue

WHO World Health Organisation
YPLL Years of Potential Life Lost

.. not applicable

— nil or rounded to zero

Dennis Trewin Acting Australian Statistician

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SECTION 1 UNDERLYING CAUSE OF DEATH

LEADING CAUSES

There were 127,202 deaths registered in 1998, a decrease of 1.7% on the corresponding figure for 1997. The 1998 total consisted of 67,073 male and 60,129 female deaths.

Malignant neoplasms, (cancer), which resulted in 27% of all deaths and ischaemic heart disease (22%) continued to be the leading causes of death in 1998. Together they accounted for nearly half of all deaths registered. The ten leading causes of death in 1998 remained unchanged from 1997 with only a slight reordering of the group.

LEADING CAUSES OF DEATH

	Males	Females	P. Persons	roportion of total deaths
Cause of death and ICD code	no.	no.	no.	%
•••••••			• • • • • •	
All causes	67 073	60 129	127 202	100.0
Malignant neoplasms (cancer) (140–208)	19 590	14 970	34 560	27.2
Malignant neoplasms of trachea, bronchus and lung (162)	4 821	2 053	6 874	5.4
Ischaemic heart disease (410–414)	15 024	12 801	27 825	21.9
Cerebrovascular disease (stroke) (430–438)	4 812	7 170	11 982	9.4
Chronic obstructive pulmonary disease and allied conditions				
(including asthma, emphysema and bronchitis) (490–496)	3 628	2 486	6 114	4.8
Accidents (E800–E949)	3 168	1 652	4 820	3.8
Motor vehicle traffic accidents (E810–E819)	1 224	507	1 731	1.4
Pneumonia and influenza (480–487)	2 049	2 530	4 579	3.6
Diabetes mellitus (250)	1 424	1 327	2 751	2.2
Diseases of arteries, arterioles and capillaries (including				
atherosclerosis and aortic aneurysm) (440–448)	1 415	1 330	2 745	2.2
Suicide (E950–E959)	2 150	533	2 683	2.1
Hereditary and degenerative diseases of the central nervous system (330–337)	947	1 085	2 032	1.6
All other causes	12 866	14 245	27 111	21.3

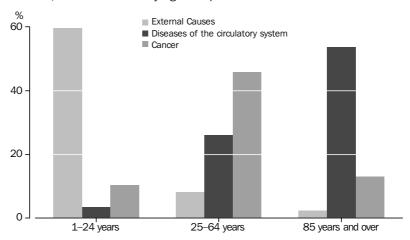
CHANGES IN STANDARDISED DEATH RATES

While there was only a slight decrease in the total number of deaths between 1997 and 1998, the standardised death rate (see Glossary page 91 for details) for all causes continued to fall over the ten year period. The rate for all causes declined 21% from 759 per 100,000 persons in 1989 to 598 in 1998, with the male and female rate demonstrating a similar decline (see table 1.4).

CAUSES OF DEATH BY AGE

Many causes and conditions of death tend to be age specific. A condition or event which is dominant in a specific age group may be minor when looked at in terms of the entire population. External causes (particularly accidents) are the leading causes of death in the 1–24 year age group, while diseases of the circulatory system (particularly ischaemic heart disease) account for over half the deaths among those aged 85 years and over.

DEATHS, Selected Causes By Age Group



One measurement of the effects of age specificity of diseases and conditions is Years of Potential Life Lost (YPLL). YPLL measures the extent of the 'premature mortality' caused by specific diseases and conditions compared to a lifespan of 75 years. Cancer, the leading cause of death among 25–64 year olds and accidents, the leading cause among 1–24 year olds were the largest contributors to YPLL in 1998. More detailed information on YPLL and the method of calculation is included in the Technical Note on page 89 of this publication.

In 1998 the YPLL for males was nearly double that for females. This is partly because for those causes which affect the young, such as drug dependency, accidents and suicides, male deaths far exceed female deaths. Further, for those aged 25–64 years, death rates for cancer and ischaemic heart disease are greater for men than women.

MALIGNANT NEOPLASMS (CANCERS)

Cancers were the leading cause of death in 1998, accounting for 27% of all deaths and 30% of total YPLL. Cancer is a greater cause of premature mortality in females accounting for 40% of total YPLL, compared with 25% in males. This is partly due to the early onset of breast cancer in females and the large contribution that external causes make to YPLL in males. The types of cancers and their corresponding death rates varied by age.

1-14 Years

Cancer was the second leading cause of death (147 deaths) in this age group, after accidents. The leading types of cancers were leukaemia and brain cancer accounting for 1.7 deaths and 1.0 death per 100,000 persons aged 1-14 respectively.

MALIGNANT NEOPLASMS (CANCERS) continued

15-24 Years

Cancer was the fourth leading cause of death (123 deaths) in this age group, after motor vehicle traffic accidents, suicide and drug dependence. The leading type of cancer was leukaemia (1.6 deaths per 100,000 persons aged 15–24).

25-44 Years

Cancer was the third leading cause of death (1,285 deaths) in this age group, after accidents and suicide. Cancer of the digestive organs and peritoneum was the leading type of cancer in males (5.5 deaths per 100,000 males aged 25–44). Breast cancer was the leading type of cancer in females (8.0 deaths per 100,000 females aged 25–44). However, the age specific rate for breast cancer has declined since 1989 when it was 9.5 deaths per 100,000 females aged 25–44.

45-64 Years

Cancer was the leading cause of death in this age group (4,622 male and 3,660 female deaths). The leading types for males, were cancer of the digestive organs and peritoneum and cancer of the trachea, bronchus and lung. For females they were breast cancer and then cancer of the digestive organs and peritoneum. There has been a major decrease in the age specific rates for cancer of the trachea, bronchus and lung since 1989, particularly for males. The rate has decreased over the period in both the 45–54 and 55–64 year age groups (see table 1.2).

65-84 Years

Cancer continued to be the leading cause of death (20,466 deaths) in this age group. The leading type was cancer of the digestive organs and peritoneum and then cancer of the trachea bronchus and lung. There have been decreases in the age specific rates of all the leading cancers in the 65–74 and 75–84 year age groups since 1989 (see table 1.2).

85 Years and over

Cancer was the third leading cause of death (4,250 deaths) in this age group, after ischaemic heart disease and cerebrovascular disease. Prostate cancer was the leading type of cancer death in males (750.5 deaths per 100,000 males aged 85 and over). Cancer of the digestive organs and peritoneum was the leading type of cancer in females (512.9 deaths per 100,000 females aged 85 and over).

ACCIDENTS

Accidents were the fifth leading cause of death in 1998, accounting for 4% of all deaths and 15% of all YPLL. Motor vehicle traffic accidents and accidental falls were the leading types of accidental deaths, contributing 36% and 25% respectively of this group. The standardised death rates for most types of accidents have decreased over the past ten years. Between 1989 and 1998 the standardised death rate due to motor vehicle traffic accidents has fallen from 16.8 to 9.3 deaths per 100,000 population. The corresponding falls in the standardised death rates for accidental falls and accidental drownings were 6.9 to 5.2 deaths per 100,000 and 1.9 to 1.3 deaths per 100,000.

SUICIDES

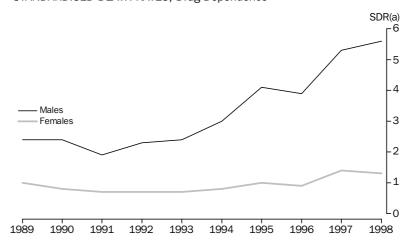
Deaths from suicide and self-inflicted injury decreased slightly to 2,683 in 1998, from the record number of 2,723 suicides in 1997. The standardised death rate decreased slightly from 1997 but was 14% above the 1989 figure. Male suicide deaths continued to outnumber female deaths by a ratio of four to one, similar to that recorded in 1997. Persons in the age range 25–44 years recorded the highest age specific rate of suicide in 1998 with a rate of 22.7, above the rate of 21.0 recorded in 1997, while the 15–24 year age group recorded a rate of 16.7, a decrease from the 1997 rate of 19.1.

Suicides are a major cause of YPLL, particularly for males where they accounted for 13% of total male YPLL in 1998.

DRUG DEPENDENCE

The standardised death rate from drug dependence increased by 6% between 1997 and 1998. This increase was a continuation of the trend that has seen the rate approximately double between 1989 and 1998. The increase in the male rate over this period was far more marked than the corresponding increase in the female rate and hence this increase in the male rate accounted for most of the overall rise. Between 1989 and 1998 the age specific rate for males aged 15–24 increased from 3.0 to 8.6 deaths per 100,000, while the corresponding rate for females increased only marginally from 2.2 to 2.4. This pattern continued for those aged 25–44, but the difference between males and females was less marked.

STANDARDISED DEATH RATES, Drug Dependence



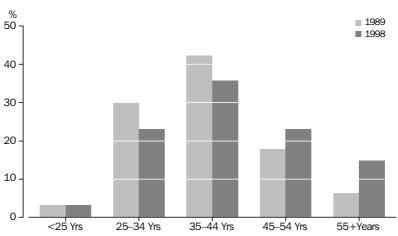
(a) Per 100,000 estimated resident population.

ACQUIRED IMMUNE DEFICIENCY SYNDROME (AIDS)

In 1998 there were 187 AIDS-related deaths, compared with 279 in 1997 and 392 in 1989. From 1989, AIDS-related deaths increased rapidly, peaking in 1994 with 764 deaths registered. Since this peak, numbers have consistently declined, possibly as a result of the introduction of antiretroviral therapy in 1996¹.

Over the past ten years the age profile for AIDS-related deaths has gradually shifted with a greater proportion of these deaths now occurring in older age groups. In 1989, 24% of all AIDS-related deaths occurred in persons aged 45 years and above and this had risen to 38% in 1998.

AIDS-RELATED DEATHS



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P. K. Correll, M. G. Law, A. M. McDonald, D. A. Cooper and J. M. Kaldor, 'HIV disease progression in Australia in the time of combination antiretroviral therapies', *Medical Journal of Australia*, vol. 169, 1998, pp. 469–472.

1.1 UNDERLYING CAUSE, Selected Causes

PERCENTAGE OF ALL DEATHS OF SAME NUMBER OF DEATHS

	NUMBER OF DEATHS.			AGE A		
Cause of death and ICD code	Males	Females	Persons	Males	Females	Persons
	• • • • • •	• • • • • •	• • • • • •		• • • • • •	• • • • •
Under 1 year	706	546	1 252	100.0	100.0	100.0
Congenital anomalies (740–759)	186	152	338	26.3	27.8	27.0
Congenital anomalies of nervous system (740–742)	33	21	54	4.7	3.8	4.3
Congenital anomalies of circulatory system (745–747)	53	45	98	7.5	8.2	7.8
Congenital anomalies of respiratory system (748) Certain conditions originating in the perinatal period (760–779)	21	11	32 571	3.0 45.2	2.0	2.6 45.6
Disorders relating to short gestation and	319	252			46.2	
unspecified low birthweight (765)	17	12	29	2.4	2.2	2.3
Birth trauma (767)	13	17	30	1.8	3.1	2.4
Hypoxia, birth asphyxia and other respiratory conditions (768–770)	52	35	87	7.4	6.4	6.9
Infections specific to the perinatal period (771)	16	13	29	2.3	2.4	2.3
Fetal and neonatal haemorrhage (772)	8	5	13	1.1	0.9	1.0
Sudden death, cause unknown (798)	84	55	139	11.9	10.1	11.1
1–14 years	427	296	723	100.0	100.0	100.0
Malignant neoplasms (140–208)	89	58	147	20.8	19.6	20.3
Brain (191)	20	17	37	4.7	5.7	5.1
Lymphatic and haematopoietic tissue (200–208)	41	28	69	9.6	9.5	9.5
Leukaemia (204–208)	36	27	63	8.4	9.1	8.7
Diseases of the nervous system and sense organs (320–389)	42	32	74	9.8	10.8	10.2
Diseases of the circulatory system (390–459)	14	11	25	3.3	3.7	3.5
Congenital anomalies (740–759)	36	27	63	8.4	9.1	8.7
Accidents, poisonings and violence (E800–E999)	156	97	253	36.5	32.8	35.0
Motor vehicle traffic accidents (E810–E819)	62	39	101	14.5	13.2	14.0
Accidents caused by submersion, suffocation and						
foreign bodies (E910–E915)	34	27	61	8.0	9.1	8.4
Accidental drowning and submersion (E910)	27	22	49	6.3	7.4	6.8
15-24 years	1 376	495	1 871	100.0	100.0	100.0
Malignant neoplasms (140–208)	66	57	123	4.8	11.5	6.6
Lymphatic and haematopoietic tissue (200–208)	33	23	56	2.4	4.6	3.0
Leukaemia (204–208)	23	20	43	1.7	4.0	2.3
Drug dependence (304)	118	32	150	8.6	6.5	8.0
Diseases of the nervous system and sense organs (320–389)	44	12	56	3.2	2.4	3.0
Accidents, poisonings and violence (E800–E999)	1 008	284	1 292	73.3	57.4	69.1
Motor vehicle traffic accidents (E810–E819)	366	119	485	26.6	24.0	25.9
Suicide (E950–E959)	364	82	446	26.5	16.6	23.8
25–44 years	4 507	2 016	6 523	100.0	100.0	100.0
Malignant neoplasms (140–208)	573	712	1 285	12.7	35.3	19.7
Digestive organs and peritoneum (150–159)	159	114	273	3.5	5.7	4.2
Bone, connective tissue, skin and breast (170–175)	93	294	387	2.1	14.6	5.9
Melanoma of skin (172)	66	45	111	1.5	2.2	1.7
Female breast (174)		231	231		11.5	3.5
Brain (191)	60	52	112	1.3	2.6	1.7
Lymphatic and haematopoietic tissue (200–208)	89	81	170	2.0	4.0	2.6
Mental disorders (290–319)	425	100	525	9.4	5.0	8.0
Drug dependence (304)	365	77	442	8.1	3.8	6.8
Diseases of the circulatory system (390–459)	556	260	816	12.3	12.9	12.5
Ischaemic heart disease (410–414)	333	77 51	410	7.4	3.8	6.3
Acute myocardial infarction (410)	175	51	226	3.9	2.5	3.5
Diseases of the digestive system (520–579)	126	69	195	2.8	3.4	3.0
Chronic liver disease and cirrhosis (571)	87	44	131	1.9	2.2	2.0
Accidents, poisonings and violence (E800–E999)	2 277	540	2 817	50.5	26.8	43.2
Motor vehicle traffic accidents (E810–E819) Suicide (E950–E959)	421	121	542	9.3	6.0	8.3
Guidide (Lago-Laga)	1 070	244	1 314	23.7	12.1	20.1

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1.1 UNDERLYING CAUSE, Selected Causes continued

PERCENTAGE OF ALL DEATHS OF SAME
NUMBER OF DEATHS. AGE AND SEX.....

	NUMBER OF DEATHS.		AGE A			
Cause of death and ICD code	Males	Females	Persons	Males	Females	Persons
••••	• • • • • • • • • •	• • • • • •	• • • • • • •		• • • • • •	• • • • •
45–54 years	3 982	2 566	6 548	100.0	100.0	100.0
Malignant neoplasms (140–208)	1 399	1 448	2 847	35.1	56.4	43.5
Digestive organs and peritoneum (150–159)	433	295	728	10.9	11.5	11.1
Colon (153)	118	113	231	3.0	4.4	3.5
Trachea, bronchus and lung (162)	301	167	468	7.6	6.5	7.1
Female breast (174)		471	471		18.4	7.2
Genitourinary organs (179–189)	104	177	281	2.6	6.9	4.3
Lymphatic and haematopoietic tissue (200–208)	144	111	255	3.6	4.3	3.9
Diseases of the circulatory system (390–459)	1 105	373	1 478	27.7	14.5	22.6
Ischaemic heart disease (410–414)	779	169	948	19.6	6.6	14.5
Acute myocardial Infarction (410) Cerebrovascular disease (430–438)	441 127	112 105	553 232	11.1 3.2	4.4 4.1	8.4 3.5
Diseases of the respiratory system (460–519)	130	119	232 249	3.3	4.1	3.8
Disease of the digestive system (520–579)	222	88	310	5.6	3.4	4.7
Chronic liver disease and cirrhosis (571)	172	58	230	4.3	2.3	3.5
Accidents, poisonings and violence (E800–E999)	671	225	896	16.9	8.8	13.7
Motor vehicle traffic accidents (E810–E819)	128	54	182	3.2	2.1	2.8
Suicide (E950–E959)	314	72	386	7.9	2.8	5.9
55–64 years	7 405	4 135	11 540	100.0	100.0	100.0
Malignant neoplasms (140–208)	3 223	2 212	5 435	43.5	53.5	47.1
Digestive organs and peritoneum (150–159)	1 029	559	1 588	13.9	13.5	13.8
Colon (153)	322	225	547	4.3	5.4	4.7
Trachea, bronchus and lung (162)	881	363	1 244	11.9	8.8	10.8
Female breast (174)		485	485		11.7	4.2
Genitourinary organs (179–189)	327	289	616	4.4	7.0	5.3
Diseases of the circulatory system (390–459)	2 340	880	3 220	31.6	21.3	27.9
Ischaemic heart disease (410–414)	1 660	486	2 146	22.4	11.8	18.6
Acute myocardial infarction (410)	960	301	1 261	13.0	7.3	10.9
Cerebrovascular disease (430–438)	313	184	497	4.2	4.4	4.3
Diseases of the respiratory system (460–519) Chronic obstructive pulmonary disease and	436	289	725	5.9	7.0	6.3
allied conditions (490–496)	312	217	529	4.2	5.2	4.6
Diseases of the digestive system (520–579)	304	137	441 507	4.1	3.3	3.8
Accidents, poisonings and violence (E800–E999)	419	168	587	5.7	4.1	5.1
65-74 years	16 267	9 627	25 894	100.0	100.0	100.0
Malignant neoplasms (140–208)	6 432	3 796	10 228	39.5	39.4	39.5
Digestive organs and peritoneum (150–159)	1 807	1 132	2 939	11.1	11.8	11.4
Colon (153)	599	446	1 045	3.7	4.6	4.0
Trachea, bronchus and lung (162)	1 893	708	2 601	11.6	7.4	10.0
Female breast (174)	1.000	519	519		5.4	2.0
Genitourinary organs (179–189) Prostate (185)	1 008	496	1 504	6.2	5.2	5.8
Lymphatic and haematopoietic tissue (200–208)	684 541	 395	684 936	4.2 3.3	4.1	2.6 3.6
Endocrine, nutritional and metabolic diseases and						
immunity disorders (240–279)	562	374	936	3.5	3.9	3.6
Diabetes mellitus (250)	415	281	696	2.6	2.9	2.7
Senile and presenile organic psychotic conditions (290)	52	51	103	0.3	0.5	0.4
Diseases of the nervous system and sense organs (320–389)	249	215	464	1.5	2.2	1.8
Alzheimer's disease (3310) Diseases of the circulatory system (390–459)	32 5 984	47 3 283	79 9 267	0.2 36.8	0.5 34.1	0.3 35.8
Ischaemic heart disease (410–414)	3 937	3 203 1 781	5 718	24.2	18.5	22.1
Acute myocardial infarction (410)	2 402	1 123	3 525	14.8		13.6
Cerebrovascular disease (430–438)	979	775	1 754	6.0	8.1	6.8
Diseases of the respiratory system (460–519)	1 536	885	2 421	9.4	9.2	9.3
Chronic obstructive pulmonary disease and						
allied conditions (490–496)	1 148	684	1 832	7.1	7.1	7.1
Diseases of the digestive system (520–579)	438	295	733	2.7	3.1	2.8

1.1 UNDERLYING CAUSE, Selected Causes continued

PERCENTAGE OF ALL DEATHS OF SAME NUMBER OF DEATHS.. AGE AND SEX.....

	NUMB	ER OF DE	ATHS	AGE A	ND SEX	
Cause of death and ICD code	Males	Females	Persons	Males	Females	Persons
•••••	• • • • • •			• • • • • • • •		
75–84 years	20 975	19 212	40 187	100.0	100.0	100.0
Malignant neoplasms (140–208)	5 847	4 391	10 238	27.9	22.9	25.5
Digestive organs and peritoneum (150–159)	1 518	1 431	2 949	7.2	7.4	7.3
Colon (153)	483	511	994	2.3	2.7	2.5
Trachea, bronchus and lung (162)	1 366	607	1 973	6.5	3.2	4.9
Female breast (174)		534	534		2.8	1.3
Genitourinary organs (179–189)	1 491	615	2 106	7.1	3.2	5.2
Prostate (185)	1 120		1 120	5.3		2.8
Lymphatic and haematopoietic tissue (200–208)	549	510	1 059	2.6	2.7	2.6
Endocrine, nutritional and metabolic diseases and						0.0
immunity disorders (240–279)	616	644	1 260	2.9	3.4	3.1
Diabetes mellitus (250)	499	478	977	2.4	2.5	2.4
Senile and presenile organic psychotic conditions (290)	166	235	401	0.8	1.2	1.0
Diseases of the nervous system and sense organs (320–389)	434	457	891	2.1	2.4	2.2
Hereditary and degenerative diseases of the						
central nervous system (330–337)	376	388	764	1.8	2.0	1.9
Alzheimer's disease (3310)	99	170	269	0.5	0.9	0.7
Diseases of the circulatory system (390–459)	9 179	9 208	18 387	43.8	47.9	45.8
Ischaemic heart disease (410–414)	5 435	4 650	10 085	25.9	24.2	25.1
Acute myocardial infarction (410)	3 271	2 930	6 201	15.6	15.3	15.4
Cerebrovascular disease (430–438)	1 963	2 548	4 511	9.4	13.3	11.2
Diseases of arteries, arterioles and capillaries (440–448)	560	470	1 030	2.7	2.4	2.6
Diseases of the respiratory system (460–519)	2 631	1 940	4 571	12.5	10.1	11.4
Chronic obstructive pulmonary disease and						
allied conditions (490–496)	1 413	934	2 347	6.7	4.9	5.8
Diseases of the digestive system (520–579)	516	650	1 166	2.5	3.4	2.9
Diseases of the genitourinary system (580–629)	493	531	1 024	2.4	2.8	2.5
Nephritis, nephrotic syndrome and nephrosis (580–589)	376	360	736	1.8	1.9	1.8
Accidents, poisonings and violence (E800–E999)	364	330	694	1.7	1.7	1.7
Accidental falls (E880–E888)	153	172	325	0.7	0.9	0.8
85 years and over	11 421	21 235	32 656	100.0	100.0	100.0
Malignant neoplasms (140–208)	1 957	2 293	4 250	17.1	10.8	13.0
Digestive organs and peritoneum (150–159)	487	812	1 299	4.3	3.8	4.0
Genitourinary organs (179–189)	662	286	948	5.8	1.3	2.9
Prostate (185)	520		520	4.6		1.6
Endocrine, nutritional and metabolic diseases and						
immunity disorders (240–279)	267	535	802	2.3	2.5	2.5
Diabetes mellitus (250)	201	370	571	1.8	1.7	1.7
Senile and presenile organic psychotic conditions (290)	144	453	597	1.3	2.1	1.8
Hereditary and degenerative diseases of the						
central nervous system (330–337)	236	428	664	2.1	2.0	2.0
Alzheimer's disease (3310)	105	307	412	0.9	1.4	1.3
Diseases of the circulatory system (390–459)	5 519	11 998	17 517	48.3	56.5	53.6
Ischaemic heart disease (410–414)	2 876	5 635	8 511	25.2	26.5	26.1
Acute myocardial infarction (410)	1 647	3 112	4 759	14.4	14.7	14.6
Cerebrovascular disease (430–438)	1 341	3 468	4 809	11.7	16.3	14.7
Diseases of arteries, arterioles and capillaries (440–448)	338	602	940	3.0	2.8	2.9
Diseases of the respiratory system (460–519)	1 730	2 457	4 187	15.1	11.6	12.8
Pneumonia and influenza (480–487)	825	1 557	2 382	7.2	7.3	7.3
Chronic obstructive pulmonary disease and	0.40	E40	4.400		0.4	2.2
allied conditions (490–496)	649	513	1 162	5.7	2.4	3.6
Diseases of the digestive system (520–579)	354	721	1 075	3.1	3.4	3.3
Diseases of the genitourinary system (580–629) Nephritis, nephrotic syndrome and nephrosis (580–589)	394	643	1 037	3.4	3.0	3.2
	263	388	651	2.3	1.8	2.0
Accidents, poisonings and violence (E800–E999) Accidental falls (E880–E880)	273 186	464 390	737 576	2.4	2.2	2.3
AUDINETRALIANS (LOOU-LOOU)	TQD	390	576	1.6	1.8	1.8

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1.2 UNDERLYING CAUSE, Age-Specific Rates

	1989(a)			1998(a)		
Cause of death and ICD code	Males	Females	Persons	Males	Females	Persons
• • • • • • • • • • • • • • • • • • • •	• • • • • •					• • • •
Under 1 year	8.84	7.09	7.99	5.51	4.49	5.02
Congenital anomalies (740–759)	1.98	1.95	1.97	1.45	1.25	1.35
Congenital anomalies of nervous system (740–742)	0.40	0.43	0.42	0.26	0.17	0.22
Congenital anomalies of circulatory system (745–747)	0.71	0.64	0.67	0.41	0.37	0.39
Congenital anomalies of respiratory system (748)	0.22	0.12	0.17	0.16	0.09	0.13
Certain conditions originating in the perinatal period (760–779)	3.67	3.04	3.36	2.49	2.07	2.29
Disorders relating to short gestation and						
unspecified low birthweight (765)	0.89	0.89	0.89	0.13	0.10	0.12
Birth trauma (767)	0.15	0.05	0.10	0.10	0.14	0.12
Hypoxia, birth asphyxia and other respiratory conditions (768–770)	1.76	1.31	1.54	0.41	0.29	0.35
Infections specific to the perinatal period (771)	0.23	0.16	0.20	0.12	0.11	0.12
Fetal and neonatal haemorrhage (772)	0.38	0.35	0.37	0.06	0.04	0.05
Sudden death, cause unknown (798)	2.35	1.37	1.87	0.66	0.45	0.56
1–14 years	30.1	22.7	26.5	22.7	16.5	19.7
Malignant neoplasms (140–208)	4.4	4.0	4.2	4.7	3.2	4.0
Brain (191)	1.2	1.0	1.1	1.1	0.9	1.0
Lymphatic and haematopoietic tissue (200–208)	2.0	1.9	2.0	2.2	1.6	1.9
Leukaemia (204–208)	1.7	1.9	1.8	1.9	1.5	1.7
Diseases of the nervous system and sense organs (320–389)	2.1	1.5	1.8	2.2	1.8	2.0
Diseases of the circulatory system (390–459)	0.7	0.6	0.7	0.7	0.6	0.7
Congenital anomalies (740–759)	3.0	2.7	2.8	1.9	1.5	1.7
Accidents, poisonings and violence (E800–E999)	15.4	9.7	12.7	8.3	5.4	6.9
Motor vehicle traffic accidents (E810–E819)	6.2	4.4	5.3	3.3	2.2	2.7
Accidents caused by submersion, suffocation and						
foreign bodies (E910–E915)	4.4	1.9	3.2	1.8	1.5	1.7
Accidental drowning and submersion (E910)	3.9	1.5	2.7	1.4	1.2	1.3
15-24 years	121.1	42.6	82.6	100.5	37.8	69.9
Malignant neoplasms (140–208)	6.5	4.4	5.5	4.8	4.4	4.6
Lymphatic and haematopoietic tissue (200–208)	3.1	1.6	2.3	2.4	1.8	2.1
Leukaemia (204–208)	1.9	1.3	1.6	1.7	1.5	1.6
Drug dependence (304)	3.0	2.2	2.6	8.6	2.4	5.6
Diseases of the nervous system and sense organs (320–389)	3.4	1.5	2.5	3.2	0.9	2.1
Accidents, poisonings and violence (E800–E999)	96.5	26.1	61.9	73.6	21.7	48.3
Motor vehicle traffic accidents (E810–E819)	49.2	18.0	33.9	26.7	9.1	18.1
Suicide (E950–E959)	23.9	3.4	13.8	26.6	6.3	16.7
25–44 years	160.8	74.3	117.9	156.0	69.6	112.8
Malignant neoplasms (140–208)	25.0	29.2	27.1	19.8	24.6	22.2
Digestive organs and peritoneum (150–159)	5.3	4.0	4.6	5.5	3.9	4.7
Bone, connective tissue, skin and breast (170-175)	5.0	11.8	8.4	3.2	10.2	6.7
Melanoma of skin (172)	2.5	1.6	2.1	2.3	1.6	1.9
Female breast (174)		9.5	4.7		8.0	4.0
Brain (191)	2.0	1.8	1.9	2.1	1.8	1.9
Lymphatic and haematopoietic tissue (200–208)	5.8	2.7	4.3	3.1	2.8	2.9
Mental disorders (290–319)	7.7	2.3	5.0	14.7	3.5	9.1
Drug dependence (304)	5.9	1.6	3.8	12.6	2.7	7.6
Diseases of the circulatory system (390–459)	24.0	9.0	16.6	19.2	9.0	14.1
Ischaemic heart disease (410–414)	13.9	2.6	8.3	11.5	2.7	7.1
Acute myocardial infarction (410)	8.5	1.8	5.1	6.1	1.8	3.9
Diseases of the digestive system (520–579) Chronic liver disease and cirrhosis (571)	5.4	2.4	3.9	4.4	2.4	3.4
Accidents, poisonings and violence (E800–E999)	3.9 76.1	1.6 20.8	2.8 48.7	3.0 78.8	1.5 18.6	2.3 48.7
Motor vehicle traffic accidents (E810–E819)	76.1 26.5	20.8 7.7	48.7 17.1	78.8 14.6	4.2	48.7 9.4
Suicide (E950–E959)	26.4	6.8	16.7	37.0	8.4	22.7
3 (2000 2000)	_0.,	0.0	20.1	01.0	0. 7	

explanation.

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

1.2 UNDERLYING CAUSE, Age-Specific Rates continued

	1989(a)			1998	1998(a)			
Course of death and IOD and	M-1			Malaa	Males Females Per			
Cause of death and ICD code	Males	Females	Persons	iviales		Persons		
4F F4								
45–54 years Malignant neoplasms (140–208)	440.1 147.6	262.8 140.5	353.7 144.1	319.3 112.2	210.2 118.6	265.4 115.4		
Digestive organs and peritoneum (150–159)	43.3	28.8	36.2	34.7	24.2	29.5		
Colon (153)	15.0	14.2	14.6	9.5	9.3	9.4		
Trachea, bronchus and lung (162)	38.1	15.5	27.1	24.1	13.7	19.0		
Female breast (174)		46.0	22.4		38.6	19.1		
Genitourinary organs (179–189)	9.7	21.3	15.3	8.3	14.5	11.4		
Lymphatic and haematopoietic tissue (200–208)	15.9	8.3	12.2	11.5	9.1	10.3		
Diseases of the circulatory system (390–459)	150.8	55.1	104.1	88.6	30.6	59.9		
Ischaemic heart disease (410–414)	115.1	27.2	72.2	62.5	13.8	38.4		
Acute myocardial Infarction (410)	75.8	17.9	47.5	35.4	9.2	22.4		
Cerebrovascular disease (430–438)	14.9	14.3	14.6	10.2	8.6	9.4		
Diseases of the respiratory system (460–519)	17.6	14.6	16.1	10.4	9.8	10.1		
Disease of the digestive system (520–579)	25.9	9.7	18.0	17.8	7.2	12.6		
Chronic liver disease and cirrhosis (571)	18.6	5.3	12.1	13.8	4.8	9.3		
Accidents, poisonings and violence (E800–E999)	60.6	20.1	40.8	53.8	18.4	36.3		
Motor vehicle traffic accidents (E810–E999)	14.9	7.3	11.2	10.3	4.4	7.4		
Suicide (E950–E959)	23.9	7.1	15.7	25.2	5.9	15.6		
55–64 years	1 325.2	701.8	1 014.4	908.7	516.0	714.0		
Malignant neoplasms (140–208) Digestive organs and peritoneum (150–159)	485.9 147.2	324.5	405.5	395.5 126.3	276.0 69.8	336.3 98.2		
Colon (153)	48.8	81.9 34.2	114.6 41.5	39.5	28.1	33.8		
Trachea, bronchus and lung (162)	151.4	51.7	101.7	108.1	45.3	77.0		
Female breast (174)	131.4	70.3	35.0		60.5	30.0		
Genitourinary organs (179–189)	47.6	48.5	48.0	40.1	36.1	38.1		
Diseases of the circulatory system (390–459)	543.7	203.8	374.2	287.2	109.8	199.2		
Ischaemic heart disease (410–414)	400.5	121.0	261.1	203.7	60.6	132.8		
Acute myocardial infarction (410)	279.5	89.7	184.9	117.8	37.6	78.0		
Cerebrovascular disease (430–438)	61.3	45.2	53.3	38.4	23.0	30.7		
Diseases of the respiratory system (460–519)	93.4	55.8	74.6	53.5	36.1	44.9		
Chronic obstructive pulmonary disease and								
allied conditions (490–496)	72.0	46.3	59.2	38.3	27.1	32.7		
Diseases of the digestive system (520–579)	58.7	24.5	41.6	37.3	17.1	27.3		
Accidents, poisonings and violence (E800–E999)	61.8	27.9	44.9	51.4	21.0	36.3		
65–74 years	3 456.9	1 830.3	2 579.1	2 627.8	1 420.2	1 996.6		
Malignant neoplasms (140–208)	1 077.7	592.9	816.1	1 039.0	560.0	788.6		
Digestive organs and peritoneum (150–159)	298.6	183.7	236.6	291.9	167.0	226.6		
Colon (153)	91.5	68.5	79.1	96.8	65.8	80.6		
Trachea, bronchus and lung (162)	345.6	95.6	210.7	305.8	104.4	200.6		
Female breast (174)	400.0	91.8	49.6	460.0	76.6	40.0		
Genitourinary organs (179–189) Prostate (185)	166.8	84.8	122.5	162.8	73.2	116.0		
Lymphatic and haematopoietic tissue (200–208)	111.1 84.0	51.9	51.2 66.7	110.5 87.4	 58.3	52.7 72.2		
Endocrine, nutritional and metabolic diseases and	64.0	51.9	00.7	01.4	56.5	12.2		
immunity disorders (240–279)	74.0	51.1	61.6	90.8	55.2	72.2		
Diabetes mellitus (250)	60.1	41.9	50.3	67.0	41.5	53.7		
Senile and presenile organic psychotic conditions (290)	11.9	10.0	10.9	8.4	7.5	7.9		
Diseases of the nervous system and sense organs (320–389)	50.5	35.0	42.1	40.2	31.7	35.8		
Alzheimer's disease (3310)	8.9	10.2	9.6	5.2	6.9	6.1		
Diseases of the circulatory system (390–459)	1 595.4	803.2	1 167.9	966.7	484.3	714.5		
Ischaemic heart disease (410–414)	1 085.0	489.6	763.7	636.0	262.9	440.9		
Acute myocardial infarction (410)	752.9	353.4	537.3	388.0	165.8	271.8		
Cerebrovascular disease (430–438)	255.0	176.6	212.7	158.1	114.3	135.2		
Diseases of the respiratory system (460–519)	350.8	151.6	243.3	248.1	130.6	186.7		
Chronic obstructive pulmonary disease and	000 5	1100	107.0	405.4	100.0	144 0		
allied conditions (490–496)	289.5	119.3	197.6	185.4	100.9	141.3		
Diseases of the digestive system (520–579)	113.1	56.2	82.4	70.8	43.5	56.5		

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

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1.2 UNDERLYING CAUSE, Age-Specific Rates continued

	1989(a)			1998(a)			
Cause of death and ICD code	Males	Females	Persons	Males	Females	Persons	
	• • • • • • •	• • • • • •	• • • • • •	• • • • • • • •	• • • • • • •		
75–84 years	8 667.8	5 21/1 2	6 636.3	6 744.7	4 289.7	5 295.7	
Malignant neoplasms (140–208)	2 065.6	970.8		1 880.1	980.4	1 349.1	
Digestive organs and peritoneum (150–159)	562.5	341.9	428.9	488.1	319.5	388.6	
Colon (153)	187.3	128.8	151.9	155.3	114.1	131.0	
Trachea, bronchus and lung (162)	510.4	101.6	262.7	439.2	135.5	260.0	
Female breast (174)		136.3	82.5		119.2	70.4	
Genitourinary organs (179–189)	519.3	130.8	284.0	479.4	137.3	277.5	
Prostate (185)	398.5		157.1	360.1		147.6	
Lymphatic and haematopoietic tissue (200–208)	192.6	106.1	140.2	176.5	113.9	139.6	
Endocrine, nutritional and metabolic diseases and							
immunity disorders (240–279)	180.3	150.3	162.1	198.1	143.8	166.0	
Diabetes mellitus (250)	149.9	127.9	136.6	160.5	106.7	128.7	
Senile and presenile organic psychotic conditions (290)	111.1	94.1	100.8	53.4	52.5	52.8	
Diseases of the nervous system and sense organs (320–389)	175.9	111.9	137.1	139.6	102.0	117.4	
Hereditary and degenerative diseases of the							
central nervous system (330–337)	157.4	98.1	121.5	120.9	86.6	100.7	
Alzheimer's disease (3310.0)	62.2	51.6	55.8	31.8	38.0	35.4	
Diseases of the circulatory system (390–459)	4 311.9	3 069.5		2 951.6	2 056.0	2 423.0	
Ischaemic heart disease (410–414)	2 622.3	1 650.1		1 747.7	1 038.3	1 329.0	
Acute myocardial infarction (410)	1 778.6	1 105.6		1 051.8	654.2	817.2	
Cerebrovascular disease (430–438) Diseases of arteries, arterioles and capillaries (440–448)	883.4	805.8	836.4	631.2	568.9	594.4	
Diseases of the respiratory system (460–519)	286.1 1 055.7	144.9 382.1	200.5 647.7	180.1 846.0	104.9 <i>4</i> 33. <i>2</i>	135.7 602.4	
Chronic obstructive pulmonary disease and	1 055.7	302.1	047.7	646.0	433.2	002.4	
allied conditions (490–496)	805.8	240.1	463.1	454.4	208.5	309.3	
Diseases of the digestive system (520–579)	260.1	182.4	213.0	165.9	145.1	153.7	
Diseases of the genitourinary system (580–629)	166.6	105.9	129.8	158.5	118.6	134.9	
Nephritis, nephrotic syndrome and nephrosis (580–589)	119.0	81.2		120.9	80.4	97.0	
Accidents, poisonings and violence (E800–E999)	175.0	104.4	132.2	117.0	73.7	91.5	
Accidental falls (E880–E888)	65.7	58.2	61.2	49.2	38.4	42.8	
OF warm and array	10 005 0	15 000 0	17 110 4	10 402 0	12 412 0	14 240 4	
85 years and over Malignant neoplasms (140–208)	2 991.5	15 992.9	1 879.3	2 824.5	13 413.9 1 448.5	14 348.4 1 867.4	
Digestive organs and peritoneum (150–159)	825.4	597.8	661.4	702.9	512.9	570.8	
Genitourinary organs (179–189)	1 005.5	189.9	417.6	955.4	180.7	416.5	
Prostate (185)	785.4	109.9		750.5	100.7	228.5	
Endocrine, nutritional and metabolic diseases and	705.4		213.3	750.5	• • •	220.5	
immunity disorders (240–279)	360.2	334.3	341.5	385.4	338.0	352.4	
Diabetes mellitus (250)	287.6	256.8	265.4	290.1	233.7	250.9	
Senile and presenile organic psychotic conditions (290)	472.7	543.6	523.8	207.8	286.2	262.3	
Hereditary and degenerative diseases of the							
central nervous system (330–337)	380.2	278.1	306.6	340.6	270.4	291.7	
Alzheimer's disease (3310.0)	180.1	187.0	185.1	151.5	193.9	181.0	
Diseases of the circulatory system (390–459)	10 660.3	10 300.6	10 401.0	7 965.4	7 579.0	7 696.6	
Ischaemic heart disease (410–414)	5 527.8	4 448.3	4 749.7	4 150.9	3 559.6	3 739.6	
Acute myocardial infarction (410)	3 499.2	2 650.0	2 887.1	2 377.1	1 965.8	2 091.0	
Cerebrovascular disease (430–438)	2 568.8	3 003.6	2 882.2	1 935.4	2 190.7	2 113.0	
Diseases of arteries, arterioles and capillaries (440–448)	710.4	775.1	757.0	487.8	380.3	413.0	
Diseases of the respiratory system (460–519)	2 816.4	1 260.6	1 695.0	2 496.9	1 552.1	1 839.7	
Pneumonia and influenza (480–487)	850.4	679.2	727.0	1 190.7	983.5	1 046.6	
Chronic obstructive pulmonary disease and							
allied conditions (490–496)	1 633.3	363.3	717.9	936.7	324.1	510.6	
Diseases of the digestive system (520–579)	752.9	616.2	654.4	510.9	455.4	472.3	
Diseases of the genitourinary system (580–629)	532.8	373.0	417.6	568.6	406.2	455.6	
Nephritis, nephrotic syndrome and nephrosis (580–589)	345.2	272.3	292.6	379.6	245.1	286.0	
Accidents, poisonings and violence (E800–E999)	460.2	370.1	395.3	394.0	293.1	323.8	
Accidental falls (E880–E888)	315.2	308.1	310.1	268.4	246.4	253.1	

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

explanation.

1.3 UNDERLYING CAUSE, Selected Years

	1989	1989			1993		
Cause of death and ICD code	Males	Females	Males	Females	Males	Females	
	• • • • • • • • •	• • • • • • • •	• • • • • • •	• • • • • • • •	• • • • • • • •	• • • • •	
All causes	66 926	57 306	64 067	55 079	65 085	56 509	
Class I Infectious and parasitic diseases (001–139)	402	359	456	374	502	431	
Human immunodeficiency virus (HIV) infection (042–044)(a)	383	9	558	24	689	29	
Class II Neoplasms (140–239)	17 350	13 074	17 737	13 872	18 727	14 449	
Malignant neoplasms (140–208)	17 201	12 943	17 576	13 709	18 479	14 212	
Lip, oral cavity and pharynx (140–149)	462	168	496	208	466	203	
Digestive organs and peritoneum (150–159)	4 768	3 882	4 871	3 940	5 061	3 979	
Oesophagus (150) Stomach (151)	504 790	270 510	514 782	276 496	543 791	273 447	
Colon (153)	1 565	1 535	1 583	1 519	1 706	1 602	
Rectum, rectosigmoid junction and							
anus (154)	622	379	654	473	653	477	
Liver and intrahepatic bile ducts (155)	264	125	297	130	348	142	
Pancreas (157)	719	677	716	656	771	705	
Trachea, bronchus and lung (162)	4 666	1 570	4 560	1 722	4 552	1 828	
Bone, connective tissue, skin and breast (170–175)	875	2 874	885	3 008	1 013	3 177	
Melanoma of skin (172)	487	281	513	302	575	279	
Breast (174, 175)	17	2 431	15	2 513	16	2 641	
Genitourinary organs (179–189)	2 933	1 835	3 058	1 957	3 511	1 938	
Ovary and other uterine adnexa (183)	_	650	_	728	_	713	
Prostate (185)	2 014	_	2 115	_	2 544	_	
Bladder (188)	493	214	484	232	538	240	
Other and unspecified sites (190–199)	1 508	1 338	1 697	1 431	1 682	1 542	
Brain (191) Lymphatic and haematopoietic	451	361	511	381	546	387	
tissue (200–208)	1 621	1 216	1 620	1 345	1 753	1 468	
Leukaemia (204–208)	642	457	631	508	653	557	
Benign and unspecified neoplasms (210–239)	149	131	161	163	248	237	
Class III Endocrine, nutritional and metabolic diseases and							
immunity disorders (240–279)	1 559	1 430	1 823	1 535	2 197	1 695	
Diabetes mellitus (250)	1 004	1 111	1 113	1 175	1 278	1 290	
Class IV Diseases of blood and blood-forming	400	000	222	047	100	000	
organs (280–289) Class V Mental disorders (290–319)	199 1 000	239 1 157	226 869	217 1 016	168 1 001	226 1 343	
Senile and presenile organic psychotic	1 000	1 157	009	1 010	1 001	1 343	
conditions (290)	509	956	473	851	555	1 161	
Drug dependence (304)	202	80	166	59	211	60	
Class VI Disease of the nervous system and sense							
organs (320–389)	1 205	1 185	1 137	1 211	1 396	1 398	
Hereditary and degenerative diseases of the central							
nervous system (330–337) Alzheimer's disease (3310)	826 269	903 450	797 294	924 487	1 039 368	1 065 605	
Class VII Diseases of the circulatory system (390–459)	269 28 376	28 <i>4</i> 53	294 26 571	26 439	26 369	26 867	
All heart disease (393–398, 402, 404, 410–414, 415,	20 37 0	20 400	20 371	20 439	20 309	20 007	
416, 420–429)	21 349	18 912	19 799	17 609	19 589	17 663	
Rheumatic fever and rheumatic							
heart disease (390–398)	146	281	133	259	116	249	
Hypertensive disease (401–405)	452	698	408	621	427	710	
Ischaemic heart disease (410–414)	18 132	14 507	16 753	13 570	16 335	13 424	
Acute myocardial infarction (410) Diseases of pulmonary circulation and other forms of	12 299	9 594	11 109	8 915	10 297	8 371	
heart disease (415–429)	2 849	3 710	2 716	3 436	2 912	3 581	
Heart failure (428)	1 117	1 925	1 041	1 710	1 110	1 709	
Cerebrovascular disease (430–438)	5 057	7 522	4 829	7 054	4 818	7 319	
Diseases of arteries, arterioles and							
capillaries (440–448)	1 614	1 587	1 616	1 365	1 628	1 442	
Atherosclerosis (440)	343	749	312	564	307	553	
Aortic aneurysm (441)	895	464	940	454	949	504	
• • • • • • • • • • • • • • • • • • • •	• • • • • • • • •	• • • • • • • •	• • • • • • •	• • • • • • • •	• • • • • • • •	• • • • •	

(a) See Explanatory Notes, paragraph 16 for further information.

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1.3 UNDERLYING CAUSE, Selected Years continued

All causes Class Inflictious and parasitic diseases (001–139) Lyman immunodeficiercy virus (HIV) Energian (142–2048) Lyman immunodeficiercy virus (HIV) Lyman (140–1409) Lyman immunodeficiercy virus (HIV) Lyman (Iran Lyman (140–149) Lyman (Iran Lyman (140–14) Lyman (Iran Lyman (140–14) Lyman		1995		1997		1998	
Mil. Causes G6.246 \$8.878 \$67.752 \$6.1598 \$67.073 \$60.125	Cause of death and ICD code	Males	Females	Males	Females	Males	Females
Class Infectious and parasitic diseases (001-139) 577 492 389 633 752 500	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • •	• • • • • • • •		• • • • • • • •		
Human immunodeficiency virus (HIV) infection (O42-O44)(a) 6 629 37 257 7 22 176 15 25 15 25 15 25 15 25 15 25 15 25 15 25 15 25 2							60 129
Infection (042-044 a)	·	577	492	839	633	752	603
Class Neoplasms (1.40-239)	· · · · · · · · · · · · · · · · · · ·		0=			4=0	
Malignant neoplasms (140-208)							
Lip, oral cavity and phapm: (140-149)							
Digestive organs and peritoneum (150-159) 541 4 123 5 481 4 389 5411 4 34 Oseophagus (150) 606 289 652 299 654 32 Stomach (151) 827 456 780 467 753 43 Colon (153) 1733 1629 1860 1682 1733 168 Rectum, rectosigmoid junction and anus (154) 680 453 662 478 736 50 Liver and intrahepatic bile ducts (155) 387 193 436 207 427 220 Pancreas (157) 771 749 772 816 811 280 Pancreas (157) 771 749 772 816 811 280 Pancreas (157) 1038 3 190 1 005 3 161 1 013 31 31 Breast (170-175) 1038 3 190 1 005 3 161 1 013 31 31 Melanoma of skin (172) 264 229 17 2 602 16 2 249 Breast (174-175) 26 2 299 17 2 602 16 2 249 Breast (174-175) 26 2 299 17 2 602 16 2 249 Breast (174-175) 26 2 299 17 2 602 16 2 249 Breast (174-175) 26 2 299 17 2 602 16 2 249 Centiourinary organs (179-189) 3 664 2 033 3 055 199 3 634 1 694 Centiourinary organs (179-189) 3 64 1 680 1 680 1 680 1 680 Bladder (188) 575 239 551 249 577 2 600 Other and unspecified sites (190-199) 1 756 1 880 1 694 1 694 1 694 Diturbatic and hamematopotetic 1 540 600 5 26 763 5 50 Leukaemia (204-208) 716 540 600 5 26 763 5 50 Benigh and unspecified neoplasms (210-239) 2 257 1 843 1 935 1 989 1 98 1 89 Dibabetes mellitus (250) 3 136 1 372 1 425 1 420 1 426 1 420 Senile and presente organic psychotic conditions (290) 3 15 3 195 1 478 1 689 1 694 1 476 1 688 1 694 1 694 1 694 1 694 1 694 1 694 1 694 1 694 1 694 1 694 1 694 1 694 1 694 1 694 1 694 1 694 1 694 1 694 1 694 1 694 1 694 1 694 1 694 1 694 1 694 1 694 1 694 1 694 1 694 1 694 1 694 1 694 1 694 1 694 1 694 1 694 1 694 1 694 1 694 1 694 1 694 1 694 1 694 1 694 1 694 1 694 1							
Desophagus (150)							
Stomach (151)							
Colon (153)	. 9						438
Rectum, rectosigmoid junction and anus (154)	,						1 661
Amus (154)		1100	1 020	1000	1 002	1.00	1001
Liver and intrahepatic bile ducts (155)		680	453	662	478	736	504
Pancreas (157)	Liver and intrahepatic bile ducts (155)	387	193	436	207	427	221
Bone, connective tissue, skin and breast (170-175)	· · · · · · · · · · · · · · · · · · ·	791	749	772	816	811	801
breast (170-175)	Trachea, bronchus and lung (162)	4 696	1 993	4 605	2 058	4 821	2 053
breast (170-175)	Bone, connective tissue, skin and						
Breast (174, 175)		1 038	3 190	1 005	3 161	1 031	3 130
Genitourinary organs (179-189) 3 664 2 003 3 505 1 979 3 634 1 986 Ovary and other uterine adnexa (183) - 775 - 716 - 745 - 755 Prostate (185) 2 575 2 9 551 248 - 2551 - 518 1 566 1 818 - 2551 - 518 1 566 1 818 - 2551 - 518 1 566 1 818 - 2551 1 568 1 818 - 2551 1 568 1 818 1 819 1 814 1 818 1 818 1 819 1 814 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1 818 1	Melanoma of skin (172)	604	327	580	333	635	345
Ovary and other uterine adnexa (183) — 716 — 746 — 745 — 755 Prostate (185) — 2575 — 2448 — 2531 — 249 — 375 — 2448 — 2531 — 340 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 341 — 3	Breast (174, 175)	26	2 629	17	2 602	16	2 542
Prostate (185)	Genitourinary organs (179–189)	3 664	2 003	3 505	1 979	3 634	1 961
Bladder (188)	Ovary and other uterine adnexa (183)	_	716	_	745	_	757
Other and unspecified sites (190–199) 1 756 1 586 1 869 1 624 1 866 1 612 Brain (191) 556 408 604 442 567 443 Lymphatic and haematopoietic tissue (200–208) 1 763 1 510 1 870 1 545 1 870 1 60 Leukaemia (204–208) 766 540 690 526 763 555 Benign and unspecified neoplasms (210–239) 281 281 292 279 271 243 Class III Endocrine, nutritional and metabolic diseases and immunity disorders (240–279) 1 336 1 372 1 425 1 490 1 588 1 89 Diabetes mellitus (250) 1 336 1 372 1 425 1 420 1 424 1 32 Class IV Diseases of blood and blood-forming organs (280–289) 1 53 1 95 1 78 212 2 13 2 22 Class V Mental disorders (290–319) 1 414 1 764 1 46 6 89 3 69 7 55 Drug dependence (304) 363 88 473 1 23 509	Prostate (185)	2 575	_	2 448	_	2 531	_
Brain (191) Lymphatic and haematopoietic tissue (200–208) 1 763 1 510 1 870 1 545 1 870 1 600 Leukaemia (204–208) 716 540 690 526 763 555 Benign and unspecified neoplasms (210–239) 281 281 292 279 271 245 Class III Endocrine, nutritional and metabolic diseases and immunity disorders (240–279) 2257 1 843 1 935 1 989 1 958 1 89 Diabetes mellitus (250) 1 336 1 372 1 425 1 420 1 424 1 322 Class N Diseases of blood and blood-forming organs (280–289) 1 1 414 1 764 1 476 1 658 1 558 1 722 Senile and presenile organic psychotic conditions (290) 751 1 521 346 689 369 755 Drug dependence (304) 363 88 473 123 509 12 Class V Diseases of the nervous system and sense organs (280–389) 1 1 938 1 580 1 289 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		575	239	551	249	572	247
Lymphatic and haematopoietic tissue (200–208)	Other and unspecified sites (190–199)	1 756	1 586	1 869	1 624	1 866	1 613
tissue (200-208)	* *	556	408	604	442	567	443
Leukaemia (204-208)							
Benign and unspecified neoplasms (210–239) 281 281 292 279 271 243 243 243 244 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 245 2							1 600
Class III Endocrine, nutritional and metabolic diseases and immunity disorders (240–279) 2257 1843 1935 1989 1958 1890 Diabetes mellitus (250) 1336 1372 1425 1420 1424 1322 (213 1242 1322 (213 1242 1322 (213 1242 1322 (213 1242 1322 (213 1242 1322 (213 1242 1322 (213 1242 1322 (213 1242 1322 (213 1242 1322 (213 1242 1322 (213 1242 1322 (213 1242 1322 (213 1242 1322 (213 1242 1322 (213 1242 1322 (213 1242 1322 (213 1242 1322 (213 1242 1322 (213 1242 1322 (213 1242 1322 (213 1242 1322 (213 1242 1322 (213 1242 1322 (213 1242 1322 (213 1242 1322 (213 1242 1322 (213 1242 1322 (213 1242 1322 (213 1242 1322 (213 1242 1322 (213 1242 1322 (213 1242 1322 (213 1242 1322 (213 1242 1322 (213 1242 1322 (213 1242 1322 (213 1242 1322 (213 1242 1322 (213 1242 1322 (213 1242 1322 (213 1242 1322 (213 1242 1322 (213 1242 1322 (213 1242 1322 (213 1242 1322 (213 1242 1322 (213 1242 1322 (213 1242 1322 (213 1242 1322 (213 1242 1322 (213 1242 1322 (213 1242 1322 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 1242 (213 (213 1242 (213 1242 (213 (213 1242 (213 1242 (213 (213 1242 (213 (213 1242 (213 (213 1242 (213 (213 1242 (213 (213 1242 (213 (21	,						553
immunity disorders (240–279)		281	281	292	279	271	242
Diabetes mellitus (250) 1 336 1 372 1 425 1 420 1 424 1 320	,			4 00=	4 000	4.050	4 00=
Class IV Diseases of blood and blood-forming organs (280–289) 153 195 178 212 213 22: Class V Mental disorders (290–319) 1414 1 764 1 476 1 658 1 558 1 726 556: Senile and presenile organic psychotic conditions (290) 751 1 521 346 689 369 756 Drug dependence (304) 363 88 473 123 509 12: Class VI Disease of the nervous system and sense organs (320–389) 1 398 1 580 1 289 1 474 1 375 1 436 Hereditary and degenerative diseases of the central nervous system (330–337) 1 031 1 269 896 1 1112 947 1 08: Alzheimer's diseases (3310) 351 730 268 568 245 533 (Class VII Diseases of the circulatory system (390–459) 26 258 27 144 25 717 26 924 24 746 26 05: All heart disease (393–398, 402, 404, 410–414, 415, 416, 420–429) 19 258 17 748 18 971 17 836 18 201 17 05: Rheumatic fever and rheumatic heart disease (390–398) 125 256 125 223 87 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18							
Organs (280–289) 153 195 178 212 213 225 Class V Mental disorders (290–319) 1414 1764 1476 1658 1558 1726 Senile and presenile organic psychotic conditions (290) 751 1521 346 689 369 755 Drug dependence (304) 363 88 473 123 509 125 Class VI Disease of the nervous system and sense organs (320–389) 1398 1580 1289 1474 1375 1436 Hereditary and degenerative diseases of the central nervous system (330–337) 1031 1269 896 1112 947 1086 Alzheimer's disease (3310) 351 730 268 568 245 536 Class VII Diseases of the circulatory system (390–459) 26 258 27 144 25 717 26 924 24 746 26 05 All heart disease (393–398, 402, 404, 410–414, 415, 416, 420–429) 19 258 17 748 18 971 17 836 18 201 17 056 Rheumatic fever and rheumatic heart disease (390–398) 125 256 125 223 87 147 Hypertensive disease (401–405) 420 681 448 687 410 736 Ischaemic heart disease (410–414) 16 131 13 478 15 565 13 486 15 024 12 80 Acute myocardial infarction (410) 9 905 8 302 9 087 8 040 8 897 7 636 Heart disease (415–429) 2 778 3 600 3 074 3 748 2 895 3 676 Heart disease (415–429) 2 778 3 600 3 074 3 748 2 895 3 676 Heart disease (410–438) 963 1 715 1 041 1 662 988 1 566 Cerebrovascular disease (430–438) 5 108 7 572 4 879 7 254 4 812 7 176 Diseases of arteries, arterioles and capillaries (440–448) 1 600 1 404 1 538 1 395 1 415 1 336		1 336	1372	1 425	1 420	1 424	1 327
Class V Mental disorders (290–319) 1 414 1 764 1 476 1 658 1 558 1 726 Senile and presenile organic psychotic conditions (290) 751 1 521 346 689 369 755 Drug dependence (304) 363 88 473 123 509 125 Class VI Disease of the nervous system and sense organs (320–389) 1 398 1 580 1 289 1 474 1 375 1 436 Hereditary and degenerative diseases of the central nervous system (330–337) 1 031 1 269 896 1 112 947 1 088 Alzheimer's disease (3310) 351 730 268 568 245 533 Class VII Diseases of the circulatory system (390–459) 26 258 27 144 25 717 26 924 24 746 26 055 All heart disease (393–398, 402, 404, 410–414, 415, 416, 420–429) 19 258 17 748 18 971 17 836 18 201 17 05 Rheumatic fever and rheumatic heart disease (401–405) 420 681 448 687 410 736 Acute myocardial infarction (410) 9 905 8 302 9 087 8 040 8 897 7 636 Diseases of pulmonary circulation and other forms of heart disease (415–429) 2 778 3 600 3 074 3 748 2 895 3 676 Heart failure (428) 963 1 715 1 041 1 662 988 1 56 Cerebrovascular disease (430–438) 5 108 7 572 4 879 7 254 4 812 7 176 Diseases of arteries, arterioles and capillaries (440–448) 1 600 1 404 1 538 1 395 1 415 1 336 Capillaries (440–448) 1 600 1 404 1 538 1 395 1 415 1 336 Capillaries (440–448) 1 600 1 404 1 538 1 395 1 415 1 336 Capillaries (440–448) 1 600 1 404 1 538 1 395 1 415 1 336 Capillaries (440–448) 1 600 1 404 1 538 1 395 1 415 1 336 Capillaries (440–448) 1 600 1 404 1 538 1 395 1 415 1 336 Capillaries (440–448) 1 600 1 404 1 538 1 395 1 415 1 336 Capillaries (440–448) 1 600 1 404 1 538 1 395 1 415 1 336 Capillaries (440–448) 1 600 1 404 1 538 1 395 1 415 1 336 Capillaries (440–448) 1 600 1 404 1 538 1 395 1 415 1 336 Capillaries (440–448) 1 600 1 404 1 538 1 395 1 415 1 336 Capillaries (440–448) 1 600 1 404 1 538 1 395 1 415 1 336 Capillaries (440–448) 1 600 1 404 1 538 1 395 1 415 1 336 Capillaries (440–448) 1 600 1 404 1 538 1 395 1 415 1 336 Capillaries (440–448) 1 600 1 404 1 538 1 395 1 415 1 336 Capillaries (440–448) 1 600 1 404 1 5		150	105	170	212	212	225
Senile and presenile organic psychotic conditions (290) 751 1 521 346 689 369 751 Drug dependence (304) 363 88 473 123 509 125 Class VI Disease of the nervous system and sense organs (320–389) 1 398 1 580 1 289 1 474 1 375 1 430 Hereditary and degenerative diseases of the central nervous system (330–337) 1 031 1 269 896 1 112 947 1 085 Alzheimer's disease (3310) 351 730 268 568 245 533 Class VII Diseases of the circulatory system (390–459) 26 258 27 144 25 717 26 924 24 746 26 050 All heart disease (393–398, 402, 404, 410–414, 415, 416, 420–429) 19 258 17 748 18 971 17 836 18 201 17 055 Rheumatic fever and rheumatic heart disease (390–398) 125 256 125 223 87 17 Hypertensive disease (401–405) 420 681 448 687 410 736 Ischaemic heart disease (410–414) 16 131 13 478 15 565 13 486 15 024 12 800 Acute myocardial infarction (410) 9 905 8 302 9 087 8 040 8 897 7 6 30 Diseases of pulmonary circulation and other forms of heart disease (415–429) 2 778 3 600 3 074 3 748 2 895 3 670 Heart disease (415–429) 9 7 2578 3 600 3 074 3 748 2 895 3 670 Heart disease (415–429) 5 108 7 572 4 879 7 254 4 812 7 170 Diseases of arteries, arterioles and capillaries (440–448) 1 600 1 404 1 538 1 395 1 415 1 330 Class VII Diseases of arteries, arterioles and capillaries (440–448) 1 600 1 404 1 538 1 395 1 415 1 330 Total conditions (440–448) 1 600 1 404 1 5 38 1 395 1 415 1 330 Total capillaries (440–448) 1 600 1 404 1 5 38 1 395 1 415 1 330 Total capillaries (440–448) 1 600 1 404 1 5 38 1 395 1 415 1 330 Total capillaries (440–448) 1 600 1 404 1 5 38 1 395 1 415 1 330 Total capillaries (440–448) 1 600 1 404 1 5 38 1 395 1 415 1 330 Total capillaries (440–448) 1 600 1 404 1 5 38 1 395 1 415 1 330 Total capillaries (440–448) 1 600 1 404 1 5 38 1 395 1 415 1 330 Total capillaries (440–448) 1 600 1 404 1 5 38 1 395 1 415 1 330 Total capillaries (440–448) 1 600 1 404 1 5 38 1 395 1 415 1 330 Total capillaries (440–448) 1 600 1 404 1 5 38 1 395 1 415 1 330 Total capillaries (440–448) 1 600 1 4							
conditions (290) 751 1 521 346 689 369 756 Drug dependence (304) 363 88 473 123 509 125 Class VI Disease of the nervous system and sense organs (320–389) 1 398 1 580 1 289 1 474 1 375 1 436 Hereditary and degenerative diseases of the central nervous system (330–337) 1 031 1 269 896 1 112 947 1 081 Alzheimer's disease (3310) 351 730 268 568 245 53 Class VII Diseases of the circulatory system (390–459) 26 258 27 144 25 717 26 924 24 746 26 05 All heart disease (393–398, 402, 404, 410–414, 415, 415, 416, 420–429) 19 258 17 748 18 971 17 836 18 201 17 05 Rheumatic fever and rheumatic heart disease (390–398) 125 256 125 223 87 17 Hypertensive disease (401–405) 420 681 448 687 410 73 Ischaemic heart disease (410–414) 16 131 13 478		1 414	1704	1470	1 038	1 556	1720
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Hereditary and degenerative diseases of the central nervous system (330–337) 1 031 1 269 896 1 112 947 1 088 Alzheimer's disease (3310) 351 730 268 568 245 538 Class VII Diseases of the circulatory system (390–459) 26 258 27 144 25 717 26 924 24 746 26 05 24 16, 420–429) 19 258 17 748 18 971 17 836 18 201 17 05 24 16, 420–429) 19 258 17 748 18 971 17 836 18 201 17 05 25 25 25 25 25 25 25 25 25 25 25 25 25		1 398	1 580	1 289	1 474	1 375	1 430
nervous system (330–337)							
Alzheimer's disease (3310) 351 730 268 568 245 538 Class VII Diseases of the circulatory system (390–459) 26 258 27 144 25 717 26 924 24 746 26 05 38 11 11 11 11 11 11 11 11 11 11 11 11 11		1 031	1 269	896	1 112	947	1 085
All heart disease (393–398, 402, 404, 410–414, 415, 416, 420–429) Rheumatic fever and rheumatic heart disease (390–398) Ischaemic heart disease (401–405) Acute myocardial infarction (410) Diseases of pulmonary circulation and other forms of heart disease (415–429) Heart failure (428) Cerebrovascular disease (430–438) Diseases of arteries, arterioles and capillaries (440–448) All heart disease (410–414, 415, 416, 415, 416, 416, 416, 416, 416, 416, 416, 416	Alzheimer's disease (3310)						535
416, 420–429) Rheumatic fever and rheumatic heart disease (390–398) 125 256 125 223 87 173 Hypertensive disease (401–405) 420 681 448 687 410 730 Ischaemic heart disease (410–414) 16 131 13 478 15 565 13 486 15 024 12 803 Acute myocardial infarction (410) 9 905 8 302 9 087 8 040 8 897 7 630 Diseases of pulmonary circulation and other forms of heart disease (415–429) 10 10 10 10 10 10 10 10 10 10 10 10 10 1							26 051
Rheumatic fever and rheumatic heart disease (390–398) 125 256 125 223 87 175 Hypertensive disease (401–405) 420 681 448 687 410 730 Ischaemic heart disease (410–414) 16 131 13 478 15 565 13 486 15 024 12 805 Acute myocardial infarction (410) 9 905 8 302 9 087 8 040 8 897 7 630 Diseases of pulmonary circulation and other forms of heart disease (415–429) 2 778 3 600 3 074 3 748 2 895 3 676 Heart failure (428) 963 1 715 1 041 1 662 988 1 566 Cerebrovascular disease (430–438) 5 108 7 572 4 879 7 254 4 812 7 170 Diseases of arteries, arterioles and capillaries (440–448) 1 600 1 404 1 538 1 395 1 415 1 330	All heart disease (393–398, 402, 404, 410–414, 415,						
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Hypertensive disease (401–405) 420 681 448 687 410 730 Ischaemic heart disease (410–414) 16 131 13 478 15 565 13 486 15 024 12 800 Acute myocardial infarction (410) 9 905 8 302 9 087 8 040 8 897 7 630 Diseases of pulmonary circulation and other forms of heart disease (415–429) 2 778 3 600 3 074 3 748 2 895 3 670 Heart failure (428) 963 1 715 1 041 1 662 988 1 560 Cerebrovascular disease (430–438) 5 108 7 572 4 879 7 254 4 812 7 170 Diseases of arteries, arterioles and capillaries (440–448) 1 600 1 404 1 538 1 395 1 415 1 330							
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Acute myocardial infarction (410) 9 905 8 302 9 087 8 040 8 897 7 630 Diseases of pulmonary circulation and other forms of heart disease (415–429) 2 778 3 600 3 074 3 748 2 895 3 670 Heart failure (428) 963 1 715 1 041 1 662 988 1 560 Cerebrovascular disease (430–438) 5 108 7 572 4 879 7 254 4 812 7 170 Diseases of arteries, arterioles and capillaries (440–448) 1 600 1 404 1 538 1 395 1 415 1 330	, ,						730
Diseases of pulmonary circulation and other forms of heart disease (415–429) 2 778 3 600 3 074 3 748 2 895 3 678 Heart failure (428) 963 1 715 1 041 1 662 988 1 566 Cerebrovascular disease (430–438) 5 108 7 572 4 879 7 254 4 812 7 170 Diseases of arteries, arterioles and capillaries (440–448) 1 600 1 404 1 538 1 395 1 415 1 330	· · · · · · · · · · · · · · · · · · ·						12 801
heart disease (415–429) 2 778 3 600 3 074 3 748 2 895 3 676 Heart failure (428) 963 1 715 1 041 1 662 988 1 566 Cerebrovascular disease (430–438) 5 108 7 572 4 879 7 254 4 812 7 170 Diseases of arteries, arterioles and capillaries (440–448) 1 600 1 404 1 538 1 395 1 415 1 330		9 905	8 302	9 087	8 040	8 897	7 630
Heart failure (428) 963 1 715 1 041 1 662 988 1 56 Cerebrovascular disease (430–438) 5 108 7 572 4 879 7 254 4 812 7 170 Diseases of arteries, arterioles and capillaries (440–448) 1 600 1 404 1 538 1 395 1 415 1 330							
Cerebrovascular disease (430–438) 5 108 7 572 4 879 7 254 4 812 7 170 Diseases of arteries, arterioles and capillaries (440–448) 1 600 1 404 1 538 1 395 1 415 1 330							3 678
Diseases of arteries, arterioles and capillaries (440–448) 1 600 1 404 1 538 1 395 1 415 1 330							1 567
capillaries (440–448) 1 600 1 404 1 538 1 395 1 415 1 336	· · · · · · · · · · · · · · · · · · ·	5 108	7 572	4 879	7 254	4 812	7 170
				, ===			
Atheroscierosis (44U) 279 492 221 389 193 336							1 330
Aprilia analyziana (4.44)	· · ·						338
Aortic aneurysm (441) 925 527 922 583 878 55:	Aoruc aneurysm (441)	925	527	922	583	878	551

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(a) See Explanatory Notes, paragraph 16 for further information.

1.3 UNDERLYING CAUSE, Selected Years continued

	1989		1991		1993	
Cause of death and ICD code	Males	Females	Males	Females	Males	Females
• • • • • • • • • • • • • • • • • • • •	• • • • • • • • •	• • • • • • • •	• • • • • • •	• • • • • • • •	• • • • • • •	• • • • •
Class VIII Diseases of the respiratory						
system (460–519)	6 366	4 245	5 372	3 534	5 468	3 777
Pneumonia and influenza (480–487)	1 062	1 242	814	993	808	855
Chronic obstructive pulmonary disease and allied						
conditions (490–496)	4 711	2 469	3 931	2 081	3 974	2 364
Emphysema (492)	719	289	544	237	583	305
Asthma (493)	434	530	335	415	326	451
Class IX Diseases of the digestive system (520–579)	2 299	1 945	2 092	1 971	1 938	1 821
Diseases of oesophagus, stomach and						
duodenum (530–537)	530	481	430	486	366	413
Ulcer of stomach and duodenum (531–533)	460	412	342	411	300	334
Chronic liver disease and cirrhosis (571)	825	284	798	296	723	266
Class X Diseases of the genitourinary						
system (580–629)	842	1 087	895	1 074	855	1 069
Nephritis, nephrotic syndrome and						
nephrosis (580–589)	571	781	588	769	657	795
Renal failure (584–586)	449	546	453	562	545	629
Class XI Complications of pregnancy, childbirth and the						
puerperium (630–676)	_	13	_	13	_	15
Class XII Diseases of the skin and subcutaneous						
tissue (680-709)	55	89	38	75	68	107
Class XIII Diseases of the musculoskeletal system and						
connective tissue (710–739)	216	476	197	463	223	458
Arthropathies and related disorders (710–719)	158	374	130	351	142	331
Class IV Congenital anomalies (740–759)	400	373	420	358	397	342
Class XV Certain conditions originating in the perinatal						
period (760–779)	481	372	446	352	412	284
Class XVI Symptoms, signs and ill-defined						
conditions (780–799)	473	341	388	272	315	256
Class XVII Accidents, poisonings and violence (external						
causes) (E800–E999)	5 703	2 468	5 400	2 303	5 049	1 971
Accidents (E800–E949)	3 736	1 885	3 222	1 575	3 081	1 433
Motor vehicle traffic accidents (E810–E819)	2 000	828	1 570	651	1 384	572
Accidental falls (E880–E888)	505	609	435	495	418	438
Accidental drowning and submersion (E910)	244	70	209	60	226	62
Suicide (E950–E959)	1 658	438	1 847	513	1 687	394
Homicide (E960–E969)	210	109	207	147	210	116
	• • • • • • • • • •			• • • • • • • •		

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1.3 UNDERLYING CAUSE, Selected Years continued

	1995		1997		1998.	
Cause of death and ICD code	Males	Females	Males	Females	Males	Females
	• • • • • • • • • •	• • • • • • • •	• • • • • • •	• • • • • • • •		• • • • •
Class VIII Diseases of the respiratory						
system (460–519)	5 407	4 024	6 960	6 299	6 593	5 817
Pneumonia and influenza (480–487)	814	892	2 151	2 866	2 049	2 530
Chronic obstructive pulmonary disease and allied						
conditions (490–496)	3 884	2 504	3 830	2 627	3 628	2 486
Emphysema (492)	568	307	591	316	575	287
Asthma (493)	282	467	306	409	278	407
Class IX Diseases of the digestive system (520–579)	1 961	1 910	2 024	1 928	1 969	1 968
Diseases of oesophagus, stomach and						
duodenum (530–537)	368	397	295	374	323	353
Ulcer of stomach and duodenum (531–533)	280	301	206	266	225	253
Chronic liver disease and cirrhosis (571)	731	286	764	287	725	293
Class X Diseases of the genitourinary	.01	200		20.	. 20	200
system (580–629)	947	1 126	1 090	1 362	1 117	1 433
Nephritis, nephrotic syndrome and	07.	1 120	1 000	1 002		1 .00
nephrosis (580–589)	700	837	739	878	789	903
Renal failure (584–586)	608	685	634	735	668	762
Class XI Complications of pregnancy, childbirth and the	000	333		. 00	000	. 02
puerperium (630–676)	_	24	_	11	_	7
Class XII Diseases of the skin and subcutaneous						·
tissue (680–709)	90	160	87	116	92	145
Class XIII Diseases of the musculoskeletal system and	00	200	0.	110	02	2.0
connective tissue (710–739)	201	533	193	463	197	474
Arthropathies and related disorders (710–719)	122	371	114	286	125	334
Class IV Congenital anomalies (740–759)	343	335	411	349	334	271
Class XV Certain conditions originating in the perinatal	0.70	333		0.0	00.	
period (760–779)	384	291	336	284	325	252
Class XVI Symptoms, signs and ill-defined	00.	201	333	20.	020	
conditions (780–799)	278	255	253	236	369	292
Class XVII Accidents, poisonings and violence (external						
causes) (E800–E999)	5 153	2 260	5 393	2 344	5 614	2 332
Accidents (E800–E949)	2 980	1 600	2 935	1 617	3 168	1 652
Motor vehicle traffic accidents (E810–E819)	1 398	631	1 240	561	1 224	507
Accidental falls (E880–E888)	457	538	486	639	531	651
Accidental drowning and submersion (E910)	190	69	217	59	187	58
Suicide (E950–E959)	1872	495	2 146	577	2 150	533
Homicide (E960–E969)	204	129	215	114	203	104
						201

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1.4 UNDERLYING CAUSE, Selected Years—Standardised Death Rates(a)

1989..... 1991...... 1993..... Cause of death and ICD code Males Females Persons Males Females Persons Males Females Persons 980.8 588.9 758.9 885.1 537.3 689.3 852.3 663.7 All causes 517.1 Class I Infectious and parasitic diseases (001–139) 5.9 3.8 4.6 6.2 3.7 4.8 6.6 3.9 5.1 237.1 182.7 Class II Neoplasms (140-239) 244.5 142.8 184.7 144.3 182.9 238.7 143.0 Malignant neoplasms (140–208) 242.4 141.4 183.0 234.8 142.7 181.0 235.4 140.9 180.1 Lip, oral cavity and pharynx (140–149) 3.8 6.3 2.1 4.1 5.5 2.0 3.7 6.1 1.8 Digestive organs and peritoneum (150–159) 67.1 41.4 52.6 64.8 40.0 51.0 64.1 38.4 49.7 Oesophagus (150) 6.8 2.8 4.7 6.7 2.8 4.6 6.8 2.6 4.5 Stomach (151) 11.5 7.9 10.6 5.0 17.9 10.2 6.8 5.4 4.3 Colon (153) 22.3 16.4 18.9 21.1 15.5 6.5 21.7 15.5 18.2 Rectum, rectosigmoid junction and anus (154) 8.7 4.1 6.1 8.6 4.8 2.5 8.3 4.6 6.2 Liver and intrahepatic bile ducts (155) 1.4 2.4 3.8 1.4 7.4 4.2 1.4 2.7 3.5 Pancreas (157) 10.0 7.2 8.5 9.6 6.7 7.9 9.7 6.8 8.1 Trachea, bronchus and lung (162) 64.0 17.5 37.7 59.6 18.3 36.3 56.8 18.5 35.3 Bone, connective tissue, skin and breast (170-175) 11.9 32.1 22.8 11.6 32.2 22.5 12.6 32.3 23.1 Melanoma of skin (172) 6.5 3.2 4.7 6.5 3.2 4.7 7.0 2.8 4.7 Breast (174, 175) 0.2 27.2 14.9 0.2 27.0 14.6 0.2 26.9 14.6 Genitourinary organs (179–189) 45.0 20.1 29.1 44.0 20.4 29.0 47.8 19.3 29.8 Ovary and other uterine adnexa (183) 7.3 3.9 7.8 4.2 7.2 3.9 Prostate (185) 31.7 31.1 12.2 35.1 13.8 12.3 Bladder (188) 2.2 4.3 2.2 4.1 2.2 4.2 7.5 6.9 7.3 Other and unspecified sites (190–199) 20.7 14.6 17.3 22.1 14.8 18.1 20.9 15.1 17.8 6.3 Brain (191) 5.7 4.1 4.9 4.2 5.2 4.1 5.2 6.4 Lymphatic and haematopoietic tissue (200-208) 22.7 13.2 17.2 21.4 13.9 17.2 22.2 14.5 17.7 Leukaemia (204-208) 4.9 9.0 6.7 8.4 5.2 6.6 8.4 5.5 6.7 Benign and unspecified neoplasms (210–239) 2.2 1.4 1.7 2.3 1.6 1.9 3.4 2.2 2.6 Class III Endocrine, nutritional and metabolic diseases and immunity disorders (240-279) 222 14.8 18.3 24.5 15.2 19.4 27.7 15.8 21.3 Diabetes mellitus (250) 14.9 11.4 13.0 15.8 11.5 13.2 16.8 11.9 14.0 Class IV Diseases of blood and blood-forming organs (280-289) 2.4 3.1 2.7 3.3 2.1 2.6 2.3 2.0 2.1 Class V Mental disorders (290-319) 15.4 11.2 13.3 12.8 9.2 10.9 13.7 12.6 11.2 Senile and presenile organic psychotic conditions (290) 9.2 8.9 8.0 7.4 8.5 9.1 9.1 7.7 9.3 Drug dependence (304) 2.4 1.0 1.7 1.9 0.7 1.3 2.4 0.7 1.5 Class VI Disease of the nervous system and sense organs (320-389) 12.3 15.2 18.1 14.6 16.1 11.8 13.6 18.8 12.7 Hereditary and degenerative diseases of the central nervous system (330–337) 10.6 8.7 10.0 13.1 9.1 12.0 14.6 9.3 11.4 Alzheimer's disease (3310) 4.4 4.5 4.7 4.3 4.5 5.5 5.0 5.2 4.6 Class VII Diseases of the circulatory system (390-459) 432.7 281.5 349.1 381.1 246.1 306.7 356.4 232.3 287.8 All heart disease (393-398, 402, 404, 410-414, 415, 416, 420-429) 320.7 188.3 247.0 280.4 164.9 216.4 261.9 153.9 201.9 Rheumatic fever and rheumatic heart disease (390-398) 2.0 3.0 2.6 1.8 2.6 2.3 1.5 2.4 2.0 Hypertensive disease (401–405) 7.1 6.9 7.1 5.9 5.8 6.0 5.8 6.1 6.1 Ischaemic heart disease (410-414) 270.0 145.4 200.0 235.4 127.9 175.4 216.9 117.8 161.6 Acute myocardial infarction (410) 182.1 96.9 134.1 155.4 84.7 115.8 136.2 74.2 101.5 Diseases of pulmonary circulation and other

40.4

18.9

77.6

19.7

6.8

8.3

45.3

19.6

81.0

25.4

6.2

13.2

35.9

18.0

73.7

15.2

6.9

4.7

40.4

17.2

72.3

23.7

5.0

13.3

31.3

15.0

64.9

12.4

4.9

4.4

40.5

16.7

67.4

22.5

4.6

12.7

35.6

15.9

68.8

17.2

5.1

8.1

30.3

13.8

62.2

12.2

4.4

4.6

34.9

15.0

65.2

16.5

4.6

7.9

(a) Standardised death rate per 100,000 of the mid-year 1991 population. See Glossary for further explanation.

forms of heart disease (415-429)

Heart failure (428)

Atherosclerosis (440)

Aortic aneurysm (441)

Cerebrovascular disease (430-438)

Diseases of arteries, arterioles and capillaries (440-448)

1.4 UNDERLYING CAUSE, Selected Years—Standardised Death Rates(a) continued

1995..... 1997...... 1998..... Males Females Persons Cause of death and ICD code Males Females Persons Males Females Persons 790.5 820.2 505.7 644.2 494.8 626.0 758.2 468.8 597.6 All causes Class I Infectious and parasitic diseases (001–139) 7.1 4.2 5.5 9.6 5.2 7.2 8.4 4.7 6.4 Class II Neoplasms (140-239) 137.1 220.1 170.0 234.9 140.8 180.2 223.3 173.6 132.6 Malignant neoplasms (140-208) 231.4 138.4 177.3 219.8 134.9 170.8 217.1 130.7 167.6 Lip, oral cavity and pharynx (140–149) 5.3 1.7 3.4 4.9 1.6 3.2 5.1 1.7 3.3 Digestive organs and peritoneum (150–159) 64.1 37.8 495 62.1 38.2 49.0 60.0 37.0 47 A Oesophagus (150) 7.2 2.6 4.7 7.3 2.5 7.2 2.6 4.7 4.7 Stomach (151) 10.1 4.1 6.7 8.9 4.0 6.2 8.3 3.7 5.7 Colon (153) 20.8 15.0 17.5 21.1 14.7 17.6 19.1 14.2 16.4 Rectum, rectosigmoid junction and anus (154) 8.1 4.2 5.9 7.5 4.2 5.7 8.1 4.4 6.1 Liver and intrahepatic bile ducts (155) 4.6 1.8 3.1 4.9 1.9 3.2 4.7 1.9 3.2 Pancreas (157) 9.4 7.8 6.8 8.1 8.7 7.1 7.9 8.9 6.8 Trachea, bronchus and lung (162) 35.4 52.1 55.9 19.3 19.1 33.6 53.1 18.6 33.9 Bone, connective tissue, skin and breast (170–175) 12.3 30.9 22.2 11.3 29.3 20.8 11.3 28.0 20.1 Melanoma of skin (172) 7.1 3.2 4.9 6.4 3.1 4.6 6.9 3.0 4.8 Breast (174, 175) 0.3 25.6 13.9 0.2 24.2 13.0 0.2 22.9 12.3 Genitourinary organs (179–189) 46.7 19.0 29.3 41.6 17.6 26.8 41.5 17.0 26.6 Ovary and other uterine adnexa (183) 7.0 3.8 . . 6.8 3.7 . . 6.8 3.7 Prostate (185) 33.2 13.2 29.4 29.2 11.8 11.8 . . Bladder (188) 2.1 4.2 6.5 2.0 3.9 6.5 2.0 3.8 7.3 Other and unspecified sites (190–199) 20.8 14.9 17.6 21.0 14.4 17.4 20.4 13.9 16.9 Brain (191) 6.3 4.2 5.2 6.6 4.3 5.4 6.0 4.2 5.0 Lymphatic and haematopoietic tissue (200-208) 21.1 14.1 17.1 21.3 13.7 17.0 20.7 13.8 16.8 Leukaemia (204–208) 5.0 4.7 4.8 8.6 6.6 7.9 6.1 8.5 6.4 Benign and unspecified neoplasms (210–239) 3.5 2.4 2.9 3.5 2.3 2.7 3.1 1.9 2.4 Class III Endocrine, nutritional and metabolic diseases and immunity disorders (240-279) 27 1 22.3 162 213 164 191 21 9 153 18.3 Diabetes mellitus (250) 16.5 11.9 13.9 16.6 11.7 13.8 16.0 10.6 13.0 Class IV Diseases of blood and blood-forming organs (280-289) 2.0 1.6 1.8 2.1 1.6 1.8 2.5 1.7 2.0 Class V Mental disorders (290-319) 18.0 13.5 15.9 17.3 12.0 14.9 17.9 12.1 15.1 Senile and presenile organic psychotic conditions (290) 10.5 4.4 4.6 4.6 4.4 4.8 11.1 11.0 5.0 Drug dependence (304) 4.1 1.0 2.5 5.3 1.4 3.3 5.6 1.3 3.5 Class VI Disease of the nervous system and sense organs (320-389) 15.3 15.1 12.1 13.2 17.7 13.4 13.4 15.6 11.4 Hereditary and degenerative diseases of the central nervous system (330–337) 13.4 10.3 10.7 9.5 10.9 11.6 8.6 8.1 9.3 Alzheimer's disease (3310) 3.3 4.8 5.5 5.3 4.0 3.8 2.9 3.6 3.4 Class VII Diseases of the circulatory system (390-459) 187.1 333.6 217.5 269.6 305.5 200.2 247.7 283.7 230.7 All heart disease (393-398, 402, 404, 410-414, 415, 416, 420-429) 242.6 143.2 187.6 224.0 133.4 207.5 174.1 123.2 161.1 Rheumatic fever and rheumatic heart disease (390-398) 1.5 2.3 2.0 1.5 1.9 1.7 1.0 1.5 1.2 Hypertensive disease (401–405) 5.3 5.3 5.4 5.5 5.3 5.1 4.7 5.2 5.1 Ischaemic heart disease (410-414) 202.3 109.5 150.5 183.1 101.4 137.9 170.8 92.8 127.7 Acute myocardial infarction (410) 107.0 124.1 68.3 92.8 60.9 81.5 101.1 56.0 76.1 Diseases of pulmonary circulation and other forms of heart disease (415-429) 28.2 31.9 37.0 27.3 31.8 33.6 26.1 29.5 36.0 Heart failure (428) 13.3 12.7 13.1 13.1 11.3 12.1 11.9 10.2 10.9 Cerebrovascular disease (430-438) 59.7 63.3 59.0 53.0 56.2 56.1 50.6 53.4 66.7 Diseases of arteries, arterioles and capillaries (440-448) 20.5 11.1 18.5 10.3 13.8 16.4 9.6 12.5 Atherosclerosis (440) 2.3 2.3 3.8 3.6 3.7 2.8 2.6 2.7 2.2 Aortic aneurysm (441) 11.5 4.5 7.5 10.9 4.6 7.3 10.0 4.3 6.7

See Glossary for further explanation.

⁽a) Standardised death rate per 100,000 of the mid-year 1991 population.

1.4 UNDERLYING CAUSE, Selected Years—Standardised Death Rates(a) continued

	1989			1991			1993		
Cause of death and ICD code	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons
			• • • • •	• • • • •	• • • • •	• • • • • •	• • • • •		• • • • •
Class VIII Diseases of the respiratory									
system (460–519)	99.7	43.3	65.0	78.2	34.2	51.5	74.6	34.6	50.3
Pneumonia and influenza (480–487)	17.9	11.8	14.2	12.7	9.0	10.5	11.4	7.2	8.9
Chronic obstructive pulmonary disease and allied									
conditions (490–496)	72.3	26.2	43.9	56.3	20.9	34.8	53.6	22.5	34.7
Emphysema (492)	10.8	3.1	6.1	7.7	2.4	4.5	7.6	3.0	4.9
Asthma (493)	5.9	5.8	5.8	4.4	4.3	4.3	4.1	4.4	4.3
Class IX Diseases of the digestive system (520–579)	33.6	19.7	25.9	28.9	18.9	23.5	25.1	16.4	20.5
Diseases of oesophagus, stomach and									
duodenum (530–537)	8.4	4.8	6.2	6.4	4.5	5.3	5.0	3.5	4.2
Ulcer of stomach and duodenum (531–533)	7.4	4.1	5.4	5.1	3.8	4.4	4.1	2.8	3.4
Chronic liver disease and cirrhosis (571)	10.4	3.2	6.7	9.7	3.3	6.3	8.4	2.8	5.5
Class X Diseases of the genitourinary									
system (580–629)	14.1	10.9	11.9	13.9	10.2	11.4	12.4	9.3	10.4
Nephritis, nephrotic syndrome and									
nephrosis (580–589)	9.5	7.8	8.3	9.3	7.3	7.9	9.6	6.9	7.8
Renal failure (584–586)	7.8	5.2	6.2	7.5	5.1	5.9	8.1	5.3	6.3
Class XI Complications of pregnancy, childbirth and									
the puerperium (630–676)		0.2	0.1		0.2	0.1		0.2	0.1
Class XII Diseases of the skin and subcutaneous									
tissue (680-709)	0.9	0.8	0.9	0.6	0.7	0.7	1.0	0.9	0.9
Class XIII Diseases of the musculoskeletal system									
and connective tissue (710–739)	3.4	4.9	4.2	2.9	4.5	3.8	3.0	4.1	3.7
Class IV Congenital anomalies (740–759)	4.8	4.5	4.6	4.8	4.2	4.5	4.5	4.0	4.2
Class XV Certain conditions originating in the									
perinatal period (760–779)	5.6	4.6	5.1	5.0	4.2	4.6	4.7	3.4	4.0
Class XVI Symptoms, signs and ill-defined									
conditions (780–799)	5.9	3.8	4.9	4.7	2.9	3.8	3.8	2.6	3.2
Class XVII Accidents, poisonings and violence									
(external causes) (E800–E999)	71.0	27.5	48.9	64.8	24.9	44.6	59.1	20.5	39.4
Accidents (E800-E949)	47.1	20.6	33.6	39.2	16.6	27.7	36.6	14.5	25.3
Motor vehicle traffic accidents (E810–E819)	24.1	9.7	16.8	18.5	7.4	12.9	16.0	6.4	11.1
Accidental falls (E880–E888)	8.0	5.8	6.9	6.4	4.5	5.4	5.9	3.6	4.6
Accidental drowning and submersion (E910)	3.0	0.8	1.9	2.4	0.7	1.6	2.6	0.7	1.6
Suicide (E950–E959)	20.2	5.2	12.5	21.7	5.9	13.7	19.3	4.4	11.7
Homicide (E960–E969)	2.5	1.3	1.9	2.4	1.7	2.0	2.4	1.3	1.8

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⁽a) Standardised death rate per 100,000 of the mid-year 1991 population. See Glossary for further explanation.

1.4 UNDERLYING CAUSE, Selected Years—Standardised Death Rates(a) continued

1995...... 1997...... 1998..... Cause of death and ICD code Males Females Persons Males Females Persons Males Females Persons Class VIII Diseases of the respiratory 34.7 48.3 84.1 48.1 62.5 system (460-519) 69.1 76.7 43.2 56.6 8.5 27.0 19.9 Pneumonia and influenza (480–487) 22.7 16.8 19.9 10.7 7.1 24.5 Chronic obstructive pulmonary disease and allied conditions (490-496) 49.2 22.5 33.0 45.3 22.2 31.4 41.5 20.5 29.0 Emphysema (492) 6.9 2.7 7.1 2.8 45 45 6.5 24 41 Asthma (493) 3.4 4.3 3.9 3.5 3.5 3.5 3.1 3.5 3.3 Class IX Diseases of the digestive system (520–579) 16.2 19.9 23.1 15.4 24.1 19.0 21.9 15.1 18.3 Diseases of oesophagus, stomach and duodenum (530-537) 4.8 3.2 3.9 3.5 2.8 3.1 3.7 2.5 3.0 Ulcer of stomach and duodenum (531–533) 3.6 2.4 2.9 2.5 2.0 2.2 2.6 1.8 2.1 Chronic liver disease and cirrhosis (571) 8.2 2.9 5.4 8.1 2.8 5.4 7.5 2.8 5.1 Class X Diseases of the genitourinary system (580-629) 12.7 9.2 10.4 13.5 10.2 11.4 13.2 10.3 11.3 Nephritis, nephrotic syndrome and nephrosis (580-589) 9.5 6.7 7.7 9.1 6.7 7.5 9.3 6.5 7.5 Renal failure (584-586) 8.4 5.3 6.4 7.9 5.3 6.3 8.0 5.3 6.3 Class XI Complications of pregnancy, childbirth and the puerperium (630–676) 0.3 0.1 0.1 Class XII Diseases of the skin and subcutaneous tissue (680-709) 1.2 1.2 1.2 1.1 8.0 0.9 1.0 1.1 1.0 Class XIII Diseases of the musculoskeletal system 4.6 and connective tissue (710–739) 2.5 3.7 2.3 3.7 2.2 3.7 3.1 3.1 Class IV Congenital anomalies (740–759) 3.9 3.8 3.9 4.6 4.3 3.5 4.0 3.8 3.1 Class XV Certain conditions originating in the perinatal period (760–779) 4.3 3.5 3.9 3.9 3.5 3.7 3.8 3.5 Class XVI Symptoms, signs and ill-defined conditions (780-799) 3.3 2.4 2.9 2.9 2.0 2.5 4.1 2.5 3.3 Class XVII Accidents, poisonings and violence (external causes) (E800–E999) 40.4 40.8 58.8 22.6 59.8 22.3 61.2 21.6 41 2 Accidents (E800-E949) 34.5 15.4 24.8 32.9 14.6 23.6 35.0 14.5 24.6 Motor vehicle traffic accidents (E810–E819) 5.3 15.9 6.8 11.3 13.8 6.0 9.9 13.4 9.3 Accidental falls (E880–E888) 5.9 4.1 5.0 5.9 4.5 5.2 6.2 4.4 5.2 0.8 1.4 2.3 Accidental drowning and submersion (E910) 2.1 2.0 0.6 1.5 0.6 1.3 Suicide (E950-E959) 20.9 5.4 13.0 23.5 6.1 14.6 23.1 5.6 14.3 Homicide (E960-E969) 2.3 1.4 1.8 2.3 1.2 1.8 2.2 1.1 1.6

23

⁽a) Standardised death rate per 100,000 of the mid-year 1991 population. See Glossary for further explanation.

Ischaemic heart disease (410-414)

Cerebrovascular disease (430–438)

Atherosclerosis (440)

Pneumonia (480-486)

Appendicitis (540-543)

Abortion (630-639)

Hyperplasia of prostate (600)

Birth trauma (767)

Suicide (E950-E959)

Homicide (E960–E969)

Congenital anomalies (740–759)

Accidental falls (E880–E888)

Influenza (487)

Acute myocardial infarction (410)

Bronchitis, emphysema and asthma (490–493)

Nephritis, nephrotic syndrome and nephrosis (580–589)

Signs, symptoms and ill-defined conditions (780–799)

Motor vehicle traffic accidents (E810-E819)

Certain conditions originating in the perinatal period (760–779)

Ulcer of stomach and duodenum (531–533)

Direct obstetric deaths (640–646, 651–676)

Accidents and adverse effects (E800-E949)

Chronic liver disease and cirrhosis (571)

1.5 UNDERLYING CAUSE(a), Number and Proportion

Cause of death and ICD code Males Females Persons Males Females Persons All causes 67 073 60 129 127 202 100.0 100.0 100.0 Infectious and parasitic diseases (001–139) 1.1 1.0 1.1 Intestinal infectious diseases (001–009) 20 24 44 (h) (b) (h) Tuberculosis (010-018) 24 10 34 (b) (b) (b) Whooping cough (033) Meningococcal infection (036) 14 20 34 (b) (b) Tetanus (037) (b) (b) Septicaemia (038) 304 366 670 0.5 0.6 0.5 Smallpox (050) Measles (055) Malaria (084) Malignant neoplasms (140-208) 19 590 14 970 34 560 29.2 24.9 27.2 Stomach (151) 753 438 1 191 1.1 0.7 0.9 Colon (153) 1 733 1 661 3 394 2.6 2.8 2.7 Rectum, rectosigmoid junction and anus (154)1 240 736 504 1.1 0.8 1.0 Trachea, bronchus and lung (162) 2 053 6 874 7.2 5.4 Female breast (174) 2 542 2 542 4.2 2.0 Cervix uteri (180) 269 269 0.4 0.2 Leukaemia (204-208) 763 553 1 3 1 6 1.1 0.9 1.0 Diabetes mellitus (250) 1 424 1 327 2 751 2.1 2.2 2.2 Nutritional marasmus (261) 1 3 (b) (b) (b) Other protein-calorie malnutrition (262, 263) 34 53 87 0.10.1 0.1 Anaemias (280-285) 100 115 215 0.1 0.2 0.2 Meningitis (320-322) 24 15 39 (b) (b) (b) Diseases of the circulatory system (390-459) 24 746 26 051 50 797 36.9 43.3 39.9 Acute rheumatic fever (390–392) 3 3 (b) (b) . . Chronic rheumatic heart disease (393-398) 87 168 255 0.1 0.3 0.2 Hypertensive disease (401–405) 410 730 1 140 0.6 0.9

15 024

8 897

4 812

193

49

1 012

225

725

789

334

325

16

369

3 168

1 224

2 150

531

203

12 801

7 630

7 170

2 459

338

71

806

253

10

293

903

1

6

271

252

17

292

507

651

533

104

1 652

27 825

16 527

11 982

531

4 459

120

1 818

1 018

1 692

478

18

1

6

605

577

33

661

4 820

1 731

1 182

2 683

307

22.4

13.3

7.2

0.3

3.0

0.1

1.5

0.3

(b)

1.1

1.2

0.1

0.5

0.5

(b)

0.6

4.7

1.8

8.0

3.2

0.3

21.3

12.7

11.9

0.6

4.1

0.1

0.4

0.5

1.5

(b)

0.5

0.4

(b)

0.5

2.7

0.8

1.1

0.9

0.2

21.9

13.0

9.4

0.4

3.5

0.1

1.4

0.4

(b)

0.8

1.3

(b)

(b)

(b)

0.5

0.5

(b)

0.5

3.8

1.4

0.9

2.1

0.2

NUMBER OF DEATHS.....

PERCENTAGE OF TOTAL

DEATHS.....

(a) The classification is based on the Mortality List of Fifty Causes recommended by the Ninth Revision (1975) of the International Classification of Diseases. See Explanatory Notes, paragraph 12.

⁽b) Less than 0.05.

			VIC		QLD		SA	
Cause of death and ICD code	Males F	emales	Males F	emales	Males I	emales	Males F	emales
			• • • • •	• • • • •	• • • • • •	• • • • •	• • • • •	
Under 1 year	205	166	152	131	175	124	43	30
Congenital anomalies (740–759)	44	44	42	40	56	30	7	9
Congenital anomalies of nervous system (740–742) Congenital anomalies of circulatory system (745–747)	5	4	10 6	5 8	12 19	4	_ 3	4
Congenital anomalies of circulatory system (745–747) Congenital anomalies of respiratory system (748)	12 5	15 4	3	1	19 7	11 1	3 1	1
Certain conditions originating in the perinatal period (760–779)	95	79	77	60	76	62	17	14
Disorders relating to short gestation and unspecified								
low birthweight (765)	6	4	3	1	1	2	3	3
Hypoxia, birth asphyxia and other respiratory conditions (768–770) Sudden death, cause unknown (798)	17 21	10 16	12 14	5 9	19 22	9 10	_ 7	_ 5
Sudden death, cause unknown (196)	21	10	14	9	22	10	1	5
1-14 years	157	83	91	75	98	66	25	24
Malignant neoplasms (140–208)	32	15	25	17	20	12	4	7
Brain (191)	6	3	7	4	5	5	1	3
Lymphatic and haematopoietic tissue (200–208) Diseases of the nervous system and sense organs (320–389)	14 14	9 <i>4</i>	12 11	10 12	10 10	6 7	2 2	1 3
Diseases of the circulatory system (390–459)	6	5	3	2	2	2	_	2
Congenital anomalies (740–759)	15	9	5	3	9	9	4	2
Accidents, poisonings and violence (E800–E999)	50	28	35	23	36	21	10	5
Motor vehicle traffic accidents (E810–E819)	18	11	15	8	16	9	6	3
Accidents caused by submersion, suffocation and								
foreign bodies (E910–E915)	10	10	6	7	13	3	1	1
15-24 years	469	147	297	110	241	110	111	32
Malignant neoplasms (140–208)	19	19	13	18	12	10	8	3
Lymphatic and haematopoietic tissue (200–208)	11	8	6	8	3	4	6	2
Drug dependence (304)	56	14	42	9	3	1	9	4
Diseases of the nervous system and sense organs (320–389) Accidents, poisonings and violence (E800–E999)	11 339	2 75	11 201	2 62	6 197	1 66	6 82	2 13
Motor vehicle traffic accidents (E810–E819)	107	32	79	24	73	25	32	7
Suicide (E950–E959)	126	20	72	22	72	21	33	3
25-44 years	1 561	639	966	479	837	369	359	167
Malignant neoplasms (140–208)	194	233	144	180	110	124	41	58
Digestive organs and peritoneum (150–159)	58	37	40	34	29	19	9	8
Female breast (174)		71	_	60	_	37	_	26
Lymphatic and haematopoietic tissue (200–208) Mental disorders (290–319)	26	25	23	25	19	11	13	7
Drug dependence (304)	204 184	50 39	125 108	28 23	28 24	7 3	31 26	6 5
Diseases of the circulatory system (390–459)	179	88	108	56	113	52	53	18
Ischaemic heart disease (410–414)	106	26	65	13	69	19	33	3
Acute myocardial infarction (410)	64	19	24	6	36	11	21	3
Diseases of the digestive system (520–579)	47	23	28	11	18	15	9	5
Chronic liver disease and cirrhosis (571)	35	16	20	7	9	8	7	2
Accidents, poisonings and violence (E800–E999) Motor vehicle traffic accidents (E810–E819)	762 127	154 35	<i>4</i> 51 101	133 34	456 62	108 18	181 41	46 8
Suicide (E950–E959)	340	71	212	65	238	60	99	20
45–54 years	1 345	869	906	607	796	478	342	217
Malignant neoplasms (140–208)	485	488	316	371	274	269	124	120
Digestive organs and peritoneum (150–159)	150	115	99	62	82	58	37	18
Trachea, bronchus and lung (162)	110	61	61	38	67	34	21	10
Female breast (174)	_	160	_	125	_	86	_	38
Genitourinary organs (179–189)	34	57	24	49	20	28	9	16
Lymphatic and haematopoietic tissue (200–208)	49	33	40	31	18	18	19	15
Diseases of the circulatory system (390–459) Ischaemic heart disease (410–414)	376 264	138 67	252 172	76 25	226 164	68 37	87 67	32 17
Acute myocardial Infarction (410)	165	52	70	13	104	25	38	10
Cerebrovascular disease (430–438)	45	35	25	30	24	17	10	6
Diseases of the respiratory system (460–519)	40	40	26	21	27	23	15	9
Disease of the digestive system (520–579)	76	30	51	18	42	14	20	7
Chronic liver disease and cirrhosis (571)	53	22	39	11	34	10	18	3
Accidents, poisonings and violence (E800–E999)	208	71	159	48	145	52	60	20
Motor vehicle traffic accidents (E810–E819) Suicide (E950–E959)	36 91	16 24	31 76	17 11	25 75	11 16	10 31	3 8
Guiolag (EGGG EGGG)	ЭT	24	10	тт	10	10	JΙ	0

WA..... TAS...... NT...... ACT...... Cause of death and ICD code Males Females Males Females Males Females Under 1 year 9 5 Congenital anomalies (740–759) Congenital anomalies of nervous system (740–742) Congenital anomalies of circulatory system (745–747) Congenital anomalies of respiratory system (748) Certain conditions originating in the perinatal period (760–779) Disorders relating to short gestation and unspecified low birthweight (765) Hypoxia, birth asphyxia and other respiratory conditions (768–770) Sudden death, cause unknown (798) 1-14 years Malignant neoplasms (140-208) Brain (191) Lymphatic and haematopoietic tissue (200–208) Diseases of the nervous system and sense organs (320–389) Diseases of the circulatory system (390–459) Congenital anomalies (740-759) Accidents, poisonings and violence (E800–E999) Motor vehicle traffic accidents (E810–E819) Accidents caused by submersion, suffocation and foreign bodies (E910-E915) 15-24 years Malignant neoplasms (140–208) Lymphatic and haematopoietic tissue (200–208) Drug dependence (304) Diseases of the nervous system and sense organs (320–389) Accidents, poisonings and violence (E800–E999) Motor vehicle traffic accidents (E810-E819) Suicide (E950-E959) 25-44 years Malignant neoplasms (140–208) Digestive organs and peritoneum (150–159) Female breast (174) Lymphatic and haematopoietic tissue (200–208) 1 Mental disorders (290–319) Drug dependence (304)

Diseases of the circulatory system (390–459)	59	20	11	6	23	16	10	4
Ischaemic heart disease (410–414)	37	3	5	2	10	9	8	2
Acute myocardial infarction (410)	16	3	2	2	5	5	7	2
Diseases of the digestive system (520–579)	12	9	5	1	6	5	1	_
Chronic liver disease and cirrhosis (571)	7	6	4	1	5	4	_	_
Accidents, poisonings and violence (E800–E999)	281	63	48	11	68	20	29	5
Motor vehicle traffic accidents (E810–E819)	49	13	5	2	30	9	6	2
Suicide (E950–E959)	125	22	25	3	20	2	11	1
45–54 years	342	224	109	84	98	43	44	44
Malignant neoplasms (140–208)	131	121	32	38	21	10	16	31
Digestive organs and peritoneum (150–159)	41	22	13	11	6	2	5	7
Trachea, bronchus and lung (162)	23	10	7	6	7	4	5	4
Female breast (174)	_	42	_	12	_	_	_	8
Genitourinary organs (179–189)	12	14	3	4	1	2	1	7
Lymphatic and haematopoietic tissue (200–208)	15	9	2	4	_	_	1	1
Diseases of the circulatory system (390–459)	81	31	42	15	36	9	5	4
Ischaemic heart disease (410–414)	59	13	32	5	18	5	3	_
Acute myocardial Infarction (410)	32	6	23	3	10	3	1	_
Cerebrovascular disease (430–438)	11	8	5	5	7	2	_	2
Diseases of the respiratory system (460–519)	12	13	2	6	7	5	1	2
Disease of the digestive system (520–579)	15	10	7	4	7	2	4	3
Chronic liver disease and cirrhosis (571)	14	7	5	2	6	_	3	3
Accidents, poisonings and violence (E800–E999)	59	17	14	9	14	6	12	2
Motor vehicle traffic accidents (E810–E819)	15	5	2	_	7	_	2	2
Suicide (E950–E959)	24	8	7	4	4	1	6	_
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	NSW.		VIC		QLD	QLD SA		
Cause of death and ICD code	Males	Females	Males	Females	Males I	Females	Males I	emales
	• • • • • • • •	• • • • •	• • • • •	• • • • •		• • • • •	• • • • •	
55–64 years	2 641	1 460	1 727	1 017	1 424	760	591	357
Malignant neoplasms (140–208)	1 113	761	793	563	635	408	248	189
Digestive organs and peritoneum (150–159)	358	192	258	145	191	97	77	49
Colon (153)	126	77	76	62	55 405	42	27	20
Trachea, bronchus and lung (162) Female breast (174)	287	122 161	223	105 124	185	74 94	73 —	24 43
Genitourinary organs (179–189)	114	101	84	68	63	54	29	28
Diseases of the circulatory system (390–459)	881	304	513	201	424	165	190	89
Ischaemic heart disease (410–414)	643	185	346	96	302	97	137	54
Acute myocardial infarction (410)	373	113	200	55	190	63	81	36
Cerebrovascular disease (430–438)	109	63	71	47	53	31	24	16
Diseases of the respiratory system (460–519)	155	114	80	67	103	56	42	19
Chronic obstructive pulmonary disease and								
allied conditions (490–496)	103	87	58	50	81	46	32	11
Diseases of the digestive system (520–579)	118	56	59	33	53	15	29	14
Accidents, poisonings and violence (E800–E999)	142	70	98	34	81	27	31	17
65-74 years	5 729	3 499	4 062	2 383	2 942	1 680	1 499	838
Malignant neoplasms (140–208)	2 248	1 382	1 674	1 000	1 144	611	560	338
Digestive organs and peritoneum (150–159)	592	390	510	314	313	184	157	105
Colon (153)	194	162	178	121	116	81	40	38
Trachea, bronchus and lung (162)	671	280	481	180	325	105	161	52
Female breast (174)	_	196	_	144	_	78	_	46
Genitourinary organs (179–189)	365	181	271	126	176	73	87	45
Lymphatic and haematopoietic tissue (200–208)	190	141	140	98	106	70	54	36
Endocrine, nutritional and metabolic diseases and immunity disorders (240–279)	165	116	178	112	97	68	63	21
Diabetes mellitus (250)	122	81	132	85	73	55	42	15
Senile and presenile organic psychotic conditions (290)	22	16	152	14	6	13	5	1
Alzheimer's disease (3310)	12	19	5	9	9	7	2	2
Diseases of the circulatory system (390–459)	2 134	1 210	1 440	764	1 106	619	569	301
Ischaemic heart disease (410–414)	1 378	648	946	395	754	359	379	176
Acute myocardial infarction (410)	855	398	554	238	478	237	215	117
Cerebrovascular disease (430–438)	371	298	232	181	179	131	83	74
Diseases of the respiratory system (460–519)	545	340	330	200	320	149	140	68
Chronic obstructive pulmonary disease and	440	070	054	457	0.40	445	00	47
allied conditions (490–496)	413 155	270 109	254 115	157 75	249 70	115 50	92 47	47 25
Diseases of the digestive system (520–579)	133	109	115	75	70	50	47	25
75–84 years	7 488	6 968	5 214	4 996	3 734	3 098	2 028	1 865
Malignant neoplasms (140–208)	2 015	1 561	1 498	1 166	1 088	691	525	422
Digestive organs and peritoneum (150–159)	510	490	414	398	285	229	134	138
Colon (153)	164	160	137	135	102	96	24	56
Trachea, bronchus and lung (162)	488	223	320	154	258	85	139	51
Female breast (174) Genitourinary organs (179–189)	— 499	183 239	— 414	144 159	 284	91 86		55 58
Prostate (185)	371	239	302	159	204	-	96	56
Lymphatic and haematopoietic tissue (200–208)	181	186	139	130	99	84	54	61
Endocrine, nutritional and metabolic diseases and	101	100	100	100	00	01	01	01
immunity disorders (240–279)	180	171	191	228	109	108	72	70
Diabetes mellitus (250)	145	127	157	161	88	84	57	54
Senile and presenile organic psychotic conditions (290)	54	88	52	65	37	32	7	12
Diseases of the nervous system and sense organs (320–389)	162	181	110	127	60	56	28	29
Hereditary and degenerative diseases of the central nervous								
system (330–337)	138	153	97	106	55	50	23	22
Alzheimer's disease (3310)	43	72	21	43	12	18	2	10
Diseases of the circulatory system (390–459) Ischaemic heart disease (410–414)	3 385 1 976	3 459 1 738	2 185 1 266	2 286 1 139	1 650 1 057	1 533 826	911 545	891 454
Acute myocardial infarction (410)	1 181	1 069	734	706	675	826 541	327	308
Cerebrovascular disease (430–438)	752	949	462	641	321	416	195	230
Diseases of arteries, arterioles and capillaries (440–448)	223	181	110	112	106	83	52	39
Diseases of the respiratory system (460–519)	948	686	661	492	434	291	267	227
Chronic obstructive pulmonary disease and								
allied conditions (490–496)	473	324	412	269	234	136	126	81
Diseases of the digestive system (520–579)	176	222	128	170	92	115	58	65
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WA..... TAS..... NT..... ACT..... Cause of death and ICD code Males Females Males Females Males Females Males Females 55-64 vears Malignant neoplasms (140-208) Digestive organs and peritoneum (150–159) Colon (153) Trachea, bronchus and lung (162) Female breast (174) Genitourinary organs (179-189) Diseases of the circulatory system (390–459) Ischaemic heart disease (410-414) Acute myocardial infarction (410) Cerebrovascular disease (430-438) Diseases of the respiratory system (460-519) Chronic obstructive pulmonary disease and allied conditions (490-496) Diseases of the digestive system (520-579) Accidents, poisonings and violence (E800–E999) 65-74 years 1 357 Malignant neoplasms (140-208) Digestive organs and peritoneum (150–159) Colon (153) Trachea, bronchus and lung (162) Female breast (174) Genitourinary organs (179–189) Lymphatic and haematopoietic tissue (200–208) Endocrine, nutritional and metabolic diseases and immunity disorders (240-279) Diabetes mellitus (250) Senile and presenile organic psychotic conditions (290) Alzheimer's disease (3310) Diseases of the circulatory system (390–459) Ischaemic heart disease (410-414) Acute myocardial infarction (410) Cerebrovascular disease (430-438) Diseases of the respiratory system (460-519) Chronic obstructive pulmonary disease and allied conditions (490-496) Diseases of the digestive system (520–579) 1 640 1 501 75-84 years Malignant neoplasms (140-208) Digestive organs and peritoneum (150–159) Colon (153) Trachea, bronchus and lung (162) Female breast (174) Genitourinary organs (179–189) Prostate (185) Lymphatic and haematopoietic tissue (200-208) Endocrine, nutritional and metabolic diseases and immunity disorders (240-279) Diabetes mellitus (250) Senile and presenile organic psychotic conditions (290) Diseases of the nervous system and sense organs (320-389) Hereditary and degenerative diseases of the central nervous system (330-337) Alzheimer's disease (3310) Diseases of the circulatory system (390–459) Ischaemic heart disease (410-414) Acute myocardial infarction (410) Cerebrovascular disease (430–438) Diseases of arteries, arterioles and capillaries (440–448) Diseases of the respiratory system (460–519) Chronic obstructive pulmonary disease and allied conditions (490-496) Diseases of the digestive system (520–579)

	NSW.		VIC		QLD	QLD		
Cause of death and ICD code	Males	Females	Males	Females	Males	Females	Males	Females
	• • • • • •	• • • • •		• • • • • •	• • • • •			
85 years and over	3 923	7 390	2 989	5 802	1 988	3 401	1 096	2 088
Malignant neoplasms (140–208)	683 168	739 270	549 145	632 224	326 73	398 123	172 45	228 85
Digestive organs and peritoneum (150–159) Genitourinary organs (179–189)	236	86	194	78	103	65	45 55	23
Diabetes mellitus (250)	58	107	77	141	28	51	14	29
Senile and presenile organic psychotic conditions (290)	51	146	34	129	32	85	2	21
Alzheimer's disease (3310)	53	126	21	72	12	40	4	19
Diseases of the circulatory system (390–459)	1 914	4 324	1 392	3 134	999	1 955	521	1 162
Ischaemic heart disease (410–414)	958	1 972	721	1 449	545	1 015	283	569
Acute myocardial infarction (410)	537	1 081	395	813	341	575	164	316
Cerebrovascular disease (430–438) Diseases of arteries, arterioles and capillaries (440–448)	486 118	1 325 193	321 81	853 175	249 61	560 97	111 38	311 49
Diseases of the respiratory system (460–519)	590	861	447	688	304	341	184	289
Chronic obstructive pulmonary disease and								
allied conditions (490–496)	226	179	193	166	105	67	44	47
Diseases of the digestive system (520–579)	110	220	96	198	61	131	44	74
Diseases of the genitourinary system (580–629)	120	210	120	214	59	87	42	64
All ages(a)	23 520	21 221	16 407	15 600	12 235	10 086	6 095	5 619
Class I Infectious and parasitic diseases (001–139)	325	243	161	147	119	69	68	62
Class II Neoplasms (140–239)	6 880	5 290	5 077	4 017	3 658	2 565	1 717	1 385
Malignant neoplasms (140–208)	6 790	5 200	5 013	3 948	3 609	2 523	1 683	1 365
Trachea, bronchus and lung (162)	1 693	758	1 189	537	900	322	426	155
Melanoma of skin (172)	240	110	140	88	141	81	42	25
Female breast (174)	1 266	856	1 000	686	 CE1	442	_	240
Genitourinary organs (179–189) Class III Endocrine, nutritional and metabolic diseases and immunity	1 266	700	1 002	501	651	325	303	174
disorders (240–279)	573	541	618	611	356	326	201	165
Diabetes mellitus (250)	413	358	455	434	264	233	139	111
Class IV Diseases of blood and blood-forming organs (280–289)	83	61	54	80	33	39	23	25
Class V Mental disorders (290–319)	632	581	426	503	207	259	127	148
Senile and presenile organic psychotic conditions (290)	132	254	102	211	76	132	14	34
Class VI Disease of the nervous system and sense organs (320–389)	487	513	342	387	225 34	213 66	109	109
Alzheimer's disease (3310) Class VII Diseases of the circulatory system (390–459)	112 8 893	223 9 543	48 5 907	126 6 522	4 529	4 408	11 2 331	32 2 497
All heart disease	0 090	9 545	3 301	0 322	4 323	4 400	2 331	2 431
(393–398, 402, 404, 410–414, 415, 416, 420–429)	6 475	6 196	4 387	4 287	3 362	2 910	1 731	1 692
Ischaemic heart disease (410–414)	5 327	4 636	3 517	3 117	2 891	2 355	1 444	1 273
Acute myocardial infarction (410)	3 176	2 732	1 977	1 831	1 822	1 452	846	790
Cerebrovascular disease (430–438)	1 792	2 706	1 125	1 769	845	1 174	433	642
Class VIII Diseases of the respiratory system (460–519)	2 321	2 081	1 565	1 489	1 211	885	658	625
Pneumonia and influenza (480–487) Chronic obstructive pulmonary disease and	725	865	425	652	379	375	256	318
allied conditions (490–496)	1 251	904	937	666	694	392	303	199
Class IX Disease of the digestive system (520–579)	686	664	477	506	339	342	208	190
Chronic liver disease and cirrhosis (571)	254	108	167	63	120	45	77	30
Class X Diseases of the genitourinary system (580–629)	365	526	311	411	185	223	103	113
Nephritis, nephrotic syndrome and nephrosis (580–589)	274	345	225	254	110	135	70	69
Class XI Complications of pregnancy, childbirth and		4				4		
the puerperium (630–676) Class XII Diseases of the skin and subcutaneous tissue (680–709)	36	4 65	 15	1 37	 15	1 19	 10	13
Class XIII Diseases of the musculoskeletal system and	30	03	13	31	13	19	10	13
connective tissue (710–739)	72	152	58	134	31	93	18	40
Class XIV Congenital anomalies (740–759)	94	80	80	70	84	55	19	20
Class XV Certain conditions originating in the perinatal								
period (760–779)	98	79	77	60	78	62	18	14
Class XVI Symptoms, signs and ill-defined conditions (780–799)	64	69	65	66	76	56	29	22
Class XVII Accidents, poisonings and violence (external causes) (E800–E999)	4.044	700	1 17.		1 000	4-7-4	450	404
Motor vehicle traffic accidents (E810–E819)	1 911 375	729 156	1 174 295	559 123	1 089 203	<i>471</i> 84	<i>4</i> 56 111	191 50
Accidental falls (E880–E888)	202	215	110	170	112	131	26	48
Suicide (E950–E959)	705	157	446	133	454	125	199	45
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(a) Including age not stated.								

WA..... TAS..... NT..... ACT..... Males Females Cause of death and ICD code Males Females Males Females Males Females 1001 1727 85 years and over Malignant neoplasms (140–208) Digestive organs and peritoneum (150–159) Genitourinary organs (179–189) Diabetes mellitus (250) Senile and presenile organic psychotic conditions (290) Alzheimer's disease (3310) Diseases of the circulatory system (390–459) Ischaemic heart disease (410-414) Acute myocardial infarction (410) Cerebrovascular disease (430–438) Diseases of arteries, arterioles and capillaries (440–448) Diseases of the respiratory system (460-519) Chronic obstructive pulmonary disease and allied conditions (490-496) Diseases of the digestive system (520-579) Diseases of the genitourinary system (580-629) All ages(a) 4 9 1 4 Class I Infectious and parasitic diseases (001–139) Class II Neoplasms (140-239) 1 693 1 281 Malignant neoplasms (140-208) 1 673 1 267 Trachea, bronchus and lung (162) Melanoma of skin (172) Female breast (174) Genitourinary organs (179-189) Class III Endocrine, nutritional and metabolic diseases and immunity disorders (240-279) Diabetes mellitus (250) Class IV Diseases of blood and blood-forming organs (280–289) Class V Mental disorders (290-319) Senile and presenile organic psychotic conditions (290) Class VI Disease of the nervous system and sense organs (320–389) Alzheimer's disease (3310) Class VII Diseases of the circulatory system (390-459) 1 994 2 007 All heart disease (393-398, 402, 404, 410-414, 415, 416, 420-429) 1 463 1 297 Ischaemic heart disease (410-414) 1 213 Acute myocardial infarction (410) Cerebrovascular disease (430-438) Class VIII Diseases of the respiratory system (460-519) Pneumonia and influenza (480–487) Chronic obstructive pulmonary disease and allied conditions (490-496) Class IX Disease of the digestive system (520–579) Chronic liver disease and cirrhosis (571) Class X Diseases of the genitourinary system (580-629) Nephritis, nephrotic syndrome and nephrosis (580–589) Class XI Complications of pregnancy, childbirth and the puerperium (630-676) Class XII Diseases of the skin and subcutaneous tissue (680–709) .3 Class XIII Diseases of the musculoskeletal system and connective tissue (710-739) Class XIV Congenital anomalies (740–759) Class XV Certain conditions originating in the perinatal period (760-779) Class XVI Symptoms, signs and ill-defined conditions (780-799) Class XVII Accidents, poisonings and violence (external causes) (E800-E999) Motor vehicle traffic accidents (E810-E819) Accidental falls (E880-E888) Suicide (E950-E959)

(a) Including age not stated.

1.7 UNDERLYING CAUSE, Standardised Death Rates(a)

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Cause of death and ICD code	NSW	Vic.	Qld	SA
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1989				
All causes	776.0	749.0	767.5	740.1
Malignant neoplasms (140–208)	181.5	189.6	179.8	178.1
Trachea, bronchus and lung (162)	38.0	38.4	36.5	33.7
Diabetes mellitus (250)	10.5	18.0	11.3	12.4
Senile and presenile organic psychotic conditions (290)	8.1	10.9	8.6	7.8
Diseases of the nervous system and sense organs (320–389) Hereditary and degenerative diseases of the central nervous	14.2	15.9	13.8	11.2
system (330–337)	10.5	11.7	9.6	8.7
Diseases of the circulatory system (390–459)	367.4	330.5	354.0	351.8
Ischaemic heart disease (410–414)	205.0	188.5	212.2	205.9
Acute myocardial infarction (410)	137.4	120.5	145.4	146.4
Cerebrovascular disease (430–438) Diseases of arteries, arterioles and capillaries (440–448)	87.4 19.8	69.7	74.2 18.9	75.5 21.7
Diseases of the respiratory system (460–519)	19.8 65.8	19.8 62.1	18.9 67.1	66.7
Pneumonia and influenza (480–487)	12.3	11.9	13.9	23.7
Chronic obstructive pulmonary disease and				
allied conditions (490–496)	45.9	43.5	46.1	37.2
Diseases of the digestive system (520–579)	25.0	25.9	27.8	25.0
Accidents (E800–E949)	33.9	34.4	34.5	29.7
Motor vehicle traffic accidents (E810–E819) Suicide (E950–E959)	15.9 11.8	19.7 11.5	15.4 14.8	15.0 <i>14.1</i>
Suicide (E930–E939)	11.8	11.5	14.8	14.1
1998	• • • • • • • • • • • • •	• • • • • • • • •	• • • • • • • • •	• • • • •
1990				
All causes	600.9	582.2	608.0	599.8
Malignant neoplasms (140–208)	166.1	169.7	171.1	163.7
Trachea, bronchus and lung (162)	34.4	33.3	34.8	31.7
Diabetes mellitus (250)	10.3	16.2	13.7	12.8
Senile and presenile organic psychotic conditions (290)	4.8	5.2	5.3	2.2
Diseases of the nervous system and sense organs (320–389) Hereditary and degenerative diseases of the central nervous	13.3	13.4	11.9	11.9
system (330–337)	9.6	9.6	8.5	6.8
Diseases of the circulatory system (390–459)	238.7	217.2	237.8	234.2
Ischaemic heart disease (410–414)	130.5	117.2	140.5	133.5
Acute myocardial infarction (410)	77.7	67.4	88.0	80.7
Cerebrovascular disease (430–438)	57.1	49.7	52.9	50.8
Diseases of arteries, arterioles and capillaries (440–448)	12.7 57.2	11.5 53.3	13.6	11.8 61.7
Diseases of the respiratory system (460–519) Pneumonia and influenza (480–487)	57.2 19.7	53.3 17.6	56.3 19.4	26.3
Chronic obstructive pulmonary disease and	19.7	17.0	19.4	20.3
allied conditions (490–496)	29.0	29.1	30.3	25.7
Diseases of the digestive system (520–579)	18.1	17.6	18.3	20.1
Accidents (E800–E949)	24.4	22.0	23.9	22.6
Motor vehicle traffic accidents (E810–E819)	8.4	9.0	8.4	10.7
Suicide (E950–E959)	13.5	12.3	16.8	16.4

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⁽a) Standardised death rate per 100,000 of the mid-year 1991 population. See Glossary for further explanation.

1.7 UNDERLYING CAUSE, Standardised Death Rates(a) cont	tinued
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Cause of death and ICD code	WA	Tas.	NT	ACT
		• • • • • • • • •		
1989				
All causes	694.3	808.4	1 097.1	637.7
Malignant neoplasms (140–208)	182.5	190.1	183.4	146.2
Trachea, bronchus and lung (162)	39.9	41.5	42.6	31.9
Diabetes mellitus (250)	11.2	11.1	27.3	8.5
Senile and presenile organic psychotic conditions (290)	8.8	13.7	19.6	3.5
Diseases of the nervous system and sense organs (320–389) Hereditary and degenerative diseases of the central nervous	18.7	12.0	15.4	8.9
system (330–337)	13.7	8.3	7.5	5.0
Diseases of the circulatory system (390–459)	308.1	383.8	357.0	290.8
Ischaemic heart disease (410–414)	181.1	214.7	197.9	166.8
Acute myocardial infarction (410)	123.3	149.3	101.7	102.8
Cerebrovascular disease (430–438)	70.7	81.7	57.6	57.1
Diseases of arteries, arterioles and capillaries (440–448)	16.2	27.5	11.1	20.1
Diseases of the respiratory system (460–519)	57.7	69.4	194.3	69.6
Pneumonia and influenza (480–487) Chronic obstructive pulmonary disease and	15.6	21.5	33.4	15.5
allied conditions (490–496)	36.4	45.5	119.5	41.2
Diseases of the digestive system (520–579)	25.3	27.8	45.6	30.7
Accidents (E800–E949)	28.6	38.8	66.8	23.3
Motor vehicle traffic accidents (E810–E819)	14.7	17.3	31.2	11.2
Suicide (E950–E959)	12.0	13.2	23.1	13.4
••••••••	• • • • • • • • • • • •	• • • • • • • • •		
1998				
All causes	579.0	629.6	887.6	538.4
Malignant neoplasms (140–208)	164.3	171.9	187.5	160.3
Trachea, bronchus and lung (162)	33.4	36.1	46.7	33.1
Diabetes mellitus (250)	12.5	9.8	42.8	8.9
Senile and presenile organic psychotic conditions (290)	6.2	4.6	1.7	4.2
Diseases of the nervous system and sense organs (320–389) Hereditary and degenerative diseases of the central nervous	15.1	16.4	18.8	13.0
system (330–337)	10.7	11.3	12.9	10.2
Diseases of the circulatory system (390–459)	213.7	250.4	282.5	193.2
Ischaemic heart disease (410–414)	116.5	130.1	140.4	96.0
Acute myocardial infarction (410)	69.5	73.2	73.8	57.3
Cerebrovascular disease (430–438)	50.6	61.3	57.6	51.5
Diseases of arteries, arterioles and capillaries (440–448)	11.4	15.7	14.7	17.9
Diseases of the respiratory system (460–519)	52.8	64.3	112.1	53.4
Pneumonia and influenza (480–487)	19.1	22.3	37.2	16.6
Chronic obstructive pulmonary disease and				
allied conditions (490–496)	25.0	36.5	67.8	27.4
Diseases of the digestive system (520–579)	18.2	18.1	33.6	19.1
Accidents (E800–E949)	29.5	26.5	83.0	25.3
Motor vehicle traffic accidents (E810–E819)	11.0	7.1	41.6	9.9
Suicide (E950–E959)	15.8	12.1	22.5	10.2

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⁽a) Standardised death rate per 100,000 of the mid-year 1991 population. See Glossary for further explanation.

1.8 UNDERLYING CAUSE, Indigenous People and State or Territory of Usual Residence(a)

	INDIG	ENOUS			NON-	INDIGEN	OUS DEA	THS
			ı	Proportion of total			ı	Proportion of total
	Males	Females	Persons	deaths	Males	Females	Persons	deaths
Cause of death and ICD code	no.	no.	no.	%	no.	no.	no.	%
	0			• • • • • •	• • • • • • •		• • • • • •	• • • • •
	QUEE	ENSLAND						
All causes	349	244	593	100.0	11 886	9 842	21 728	100.0
Malignant neoplasms (140–208)	46	39 5	85	14.3 2.7	3 563	2 484	6 047	27.8 7.7
Digestive organs and peritoneum (150–159) Trachea, bronchus and lung (162)	11 11	5 7	16 18	3.0	962 889	706 315	1 668 1 204	7.7 5.5
Diabetes mellitus (250)	31	24	55	9.3	233	209	442	2.0
Mental disorders (290–319)	2	5	7	1.2	205	254	459	2.1
Diseases of the circulatory system (390–459)	91	100	191	32.2	4 438	4 308	8 746	40.3
Ischaemic heart disease (410-414)	65	57	122	20.6	2 826	2 298	5 124	23.6
Cerebrovascular disease (430–438)	10	20	30	5.1	835	1 154	1 989	9.2
Diseases of the respiratory system (460–519)	29	13	42	7.1	1 182	872	2 054	9.5
Pneumonia and influenza (480–487)	12	4	16	2.7	367	371	738	3.4
Chronic obstructive pulmonary disease	4.0	-	0.4	0.5	070	007	4.005	4.0
and allied conditions (490–496) Diseases of the digestive system (520–579)	16 10	5 9	21 19	3.5 3.2	678 329	387 333	1 065 662	4.9 3.0
Chronic liver disease and cirrhosis (571)	8	6	19	2.4	112	39	151	0.7
Congenital anomalies (740–759)	6	4	10	1.7	78	51	129	0.6
Certain conditions originating in the perinatal	ŭ	•				01	120	0.0
period (760-779)	17	6	23	3.9	61	56	117	0.5
All other medical conditions (remainder of 001–799)	34	25	59	9.9	791	823	1 614	7.4
Accidents, poisonings and violence (E800–E999)	83	19	102	17.2	1 006	452	1 458	6.7
Motor vehicle traffic accidents (E810–E819)	12	4	16	2.7	191	80	271	1.2
Suicide (E950–E959)	39	5	44	7.4	415	120	535	2.5
Homicide (E960–E969))	12	4	16	2.7	26	22	48	0.2
Other external causes (remainder of E800–E999)	20	6	26	4.4	374	230	604	2.8
	SOUTH	AUSTRAL	IA		• • • • • • •			• • • •
All causes	74	53	127	100.0	6 021	5 566	11 587	100.0
Malignant neoplasms (140–208)	8	9	17	13.4	1 675	1 356	3 031	26.2
Digestive organs and peritoneum (150–159)	4	3	7	5.5	455	401	856	7.4
Trachea, bronchus and lung (162)	1	3	4	3.1	425	152	577	5.0
Diabetes mellitus (250)	4	3	7	5.5	135	108	243	2.1
Mental disorders (290–319)	5	_	5	3.9	122	148	270	2.3
Diseases of the circulatory system (390–459)	20	15	35	27.6	2 311	2 482	4 793	41.4
Ischaemic heart disease (410–414) Cerebrovascular disease (430–438)	13 2	9 5	22 7	17.3 5.5	1 431 431	1 264 637	2 695 1 068	23.3 9.2
Diseases of the respiratory system (460–519)	5	9	14	11.0	653	616	1 269	11.0
Pneumonia and influenza (480–487)	2	5	7	5.5	254	313	567	4.9
Chronic obstructive pulmonary disease	_	-	•					
and allied conditions (490–496)	_	3	3	2.4	303	196	499	4.3
Diseases of the digestive system (520–579)	4	4	8	6.3	204	186	390	3.4
Chronic liver disease and cirrhosis (571)	2	2	4	3.1	75	28	103	0.9
Congenital anomalies (740–759)	_	2	2	1.6	19	18	37	0.3
Certain conditions originating in the perinatal								
period (760–779)	_	_	_		18	14	32	0.3
All other medical conditions (remainder of 001–799)	9	3	12	9.4	447	455	902	7.8
Accidents, poisonings and violence (E800–E999) Motor vehicle traffic accidents (E810–E819)	19 4	8 2	27 6	21.3 4.7	<i>4</i> 37 107	183 48	620 155	5. <i>4</i>
Suicide (E950–E959)	7	2	9	4.7 7.1	192	48	235	1.3 2.0
Homicide (E960–E969))		2	2	1.6	17	10	233	0.2
Other external causes (remainder of E800–E999)	8	2	10	7.9	121	82	203	1.8
,								

⁽a) Only these States and Territories have Indigenous death registration data considered to be of publishable standard. See Explanatory Notes, paragraph 21 for further explanation.

1.8 UNDERLYING CAUSE, Indigenous People and State or Territory of Usual Residence(a)

	• • • • • • •	• • • • • • •		• • • • • • •				• • • • •
	INDIGENOUS				NON-INDIGENOUS DEATHS			
	Proportion of total		•			Proportion of total		
	Males	Females	Persons	deaths	Males	Females	Persons	deaths
Cause of death and ICD code	no.	no.	no.	%	no.	no.	no.	%
	WESTER		· · · · · · · · · · · · · · · · · · ·	• • • • • • •	• • • • • •	• • • • • •	• • • • • •	• • • • •
WESTERN AUSTRALIA								
All causes	230	148	378	100.0	5 520	4 766	10 286	100.0
Malignant neoplasms (140–208)	24	21	45 15	11.9	1 649	1 246	2 895	28.1
Digestive organs and peritoneum (150–159)	9	6	15	4.0	476	366	842	8.2
Trachea, bronchus and lung (162)	4	3	7	1.9	389	184	573	5.6
Diabetes mellitus (250)	8 9	12	20	5.3	96	112	208	2.0
Mental disorders (290–319) Diseases of the circulatory system (390–459)	9 61	6 45	15 106	4.0 28.0	97	155 1 962	252 3 895	2.4 37.9
Ischaemic heart disease (410–414)	44	45 21	65		1 933 1 169	926	2 095	20.4
Cerebrovascular disease (430–438)				17.2				
	10 23	9 18	19	5.0	383 509	563	946	9.2 9.1
Diseases of the respiratory system (460–519) Pneumonia and influenza (480–487)	23 10		<i>41</i> 21	10.8 5.6	169	<i>4</i> 31 183	940	3.4
Chronic obstructive pulmonary disease	10	11	21	5.6	169	183	352	3.4
and allied conditions (490–496)	10	6	16	4.2	253	181	434	4.2
Diseases of the digestive system (520–579)	8	9	17	4.2	157	166	323	3.1
Chronic liver disease and cirrhosis (571)	4	9 7	11	2.9	60	22	323 82	0.8
Congenital anomalies (740–759)	2	,	2	0.5	33	22	55	0.5
Certain conditions originating in the perinatal	2	_	2	0.5	33	22	33	0.5
period (760–779)	5	1	6	1.6	21	15	36	0.3
All other medical conditions (remainder of 001–799)	41	21	62	16.4	444	429	873	8.5
Accidents, poisonings and violence (E800–E999)	49	15	64	16.9	581	228	809	7.9
Motor vehicle traffic accidents (E810–E819)	16	7	23	6.1	123	51	174	1.7
Suicide (E950–E959)	18	2	20	5.3	216	51	267	2.6
Homicide (E960–E969)	1	3	4	1.1	13	11	24	0.2
Other external causes (remainder of E800–E999)	14	3	17	4.5	229	115	344	3.3
• • • • • • • • • • • • • • • • • • • •	NORTHER	• • • • • • •	· · · · · · ·					
	NORTHER	N IERKII	URT					
All causes	229	186	415	100.0	298	158	456	100.0
Malignant neoplasms (140–208)	27	19	46	11.1	63	43	106	23.2
Digestive organs and peritoneum (150–159)	5	8	13	3.1	13	10	23	5.0
Trachea, bronchus and lung (162)	10	1	11	2.7	20	8	28	6.1
Diabetes mellitus (250)	8	17	25	6.0	4	8	12	2.6
Mental disorders (290–319) Diseases of the circulatory system (390–459)	3 68	5 47	8 115	1.9 27.7	14 72	1 43	15 115	3.3 25.2
				13.7				
Ischaemic heart disease (410–414) Cerebrovascular disease (430–438)	36 13	21 8	57 21	5.1	43 11	18 11	61 22	13.4 4.8
Diseases of the respiratory system (460–519)	33	28	61	14.7	19	14	33	7.2
Pneumonia and influenza (480–487)	16	14	30	7.2	4	2	6	1.3
Chronic obstructive pulmonary disease	10	14	30	1.2	4	2	O	1.5
and allied conditions (490–496)	12	13	25	6.0	12	12	24	5.3
Diseases of the digestive system (520–579)	11	6	17	4.1	11	7	18	3.9
Chronic liver disease and cirrhosis (571)	9	2	11	2.7	5	3	8	1.8
Congenital anomalies (740–759)	3	6	9	2.2	2	3	5	1.1
Certain conditions originating in the perinatal	Ü	Ü	Ŭ	2.2	_	J	Ü	1.1
period (760–779)	4	6	10	2.4	7	3	10	2.2
All other medical conditions (remainder of 001–799)	23	25	48	11.6	19	14	33	7.2
Accidents, poisonings and violence (E800–E999)	49	27	76	18.3	87	22	109	23.9
Motor vehicle traffic accidents (E810–E819)	23	7	30	7.2	33	10	43	9.4
Suicide (E950–E959)	8	3	11	2.7	27	4	31	6.8
Homicide (E960–E969)	3	7	10	2.4	2	_	2	0.4
Other external causes (remainder of E800–E999)	15	10	25	6.0	25	8	33	7.2

⁽a) Only these States and Territories have Indigenous death registration data considered to be of publishable standard. See Explanatory Notes, paragraph 21 for further explanation.

SECTION 2

MULTIPLE CAUSE OF DEATH

INTRODUCTION

Multiple causes of death include all causes and conditions reported on the death certificate (see glossary page 92 for further details). Deaths which occur due to external causes (accidents poisoning and violence) are classified according to the event leading to fatal injury (eg accidental fall). Multiple cause data for external causes include the nature of injury or poisoning, as well as any other conditions reported on the death certificate.

For the 127,202 deaths registered in 1998, there were 363,895 causes (this included 16,560 injuries) giving a mean 2.9 causes per death. The overall mean number of causes per death for males (2.9) and females (2.8) was similar. However, the mean number of causes of death did vary according to the age of the deceased (see table 2.1).

NUMBERS OF CAUSES

In 1998 in about 19% of deaths an underlying cause of death only was recorded. The most commonly recorded number of causes was two (28% of total deaths) while six or more causes were registered in 6% of deaths. These proportions were similar to those reported in 1997.

DEATHS, Number of Causes Reported

	Deaths	Proportion of total deaths 1998	Proportion of total deaths 1997			
Number of						
causes	no.	%	%			
1	23 536	18.5	18.1			
2	35 615	28.0	28.9			
3	31 960	25.1	25.2			
4	19 181	15.1	15.3			
5	9 702	7.6	7.3			
6 or more	7 208	5.7	5.2			
Total	127 202	100.0	100.0			

LEADING MULTIPLE CAUSES

Causes of death are usually ranked according to the number of times they were mentioned as underlying causes. Multiple cause data allows deaths to be ranked according to the number of times they were recorded on all death certificates, as in the table below. For deaths attributed to accidents, poisonings and violence, any mention of nature of injury was not included as a cause for this comparison as these are not considered as possible underlying causes of death.

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LEADING MULTIPLE CAUSES continued

In 1998, the leading three underlying causes (malignant neoplasms, Ischaemic heart disease and cerebrovascular disease) were also the three leading multiple causes of death. The causes with higher multiple cause than underlying cause rankings were generally reported as contributory causes (e.g. hypertensive disease). Hypertensive disease ranked 15th as an underlying cause compared with being ranked 6th as a multiple cause. Hypertensive disease was often recorded as a contributory cause where other circulatory diseases were the underlying cause (see table 2.6).

LEADING MULTIPLE CAUSES OF DEATH

	Multiple cause			Underlying cause				
Cause of death and ICD code	no.	%	rank	%	rank			
• • • • • • • • • • • • • • • • • • • •		• • • • •	• • • • •	• • • • • • • •	• • •			
Malignant neoplasms (140–208) Malignant neoplasms of trachea bronchus and	50 720	14.6	1	27.2	1			
lung (162)	7 440	2.1		5.4				
Ischaemic heart disease (410-414)	48 767	14.0	2	21.9	2			
Cerebrovascular disease (430–438)	21 450	6.2	3	9.4	3			
Pneumonia and influenza (480–487)	15 576	4.5	4	3.6	6			
Chronic obstructive pulmonary diseases and allied								
conditions (490–496)	14 316	4.1	5	4.8	4			
Hypertensive diseases (401–405)	12 147	3.5	6	0.9	15			
Nephritis, nephrotic syndrome and								
nephrosis (580–589)	11 062	3.2	7	1.3	12			
Accidents and adverse effects (E800-E949)	10 736	3.1	8	3.8	5			
Diabetes Mellitus (250)	9 580	2.8	9	2.2	7			
Diseases of arteries, arterioles and								
capillaries (440–448)	9 290	2.7	10	2.2	8			
All causes(a)	347 335	100.0		100.0				
•••••								

(a) Nature of injury has been excluded.

CAUSE ASSOCIATIONS OF THE THREE LEADING CAUSES

Malignant neoplasms

In 1998 malignant neoplasms (cancers) were the leading cause of death (34,560 deaths). It was reported as the only cause in 35% of these deaths. The most common contributory causes recorded with cancer were pneumonia and influenza (reported in 8% of all cancer deaths), ischaemic heart disease and chronic obstructive pulmonary disease and allied conditions (each reported in 6% of all cancer deaths) (see table 2.5).

However, cancer was reported in a further 4,617 deaths as a contributory cause (see table 2.6). Cancer acted as a contributory cause in 7% of deaths where chronic obstructive pulmonary disease and allied conditions were the underlying cause (see table 2.5).

Ischaemic heart disease

In 1998 ischaemic heart disease was the second leading cause of death (27,825 deaths). It was reported as the only cause in 12% of these deaths. The two most common contributory causes reported with ischaemic heart disease were heart failure (reported in 19% of ischaemic heart disease deaths) and hypertensive disease (reported in 16% of all ischaemic heart disease deaths).

Ischaemic heart disease was reported in a further 10,112 deaths as a contributory cause. Ischaemic heart disease acted as a contributory cause in 54% of deaths where diabetes was the underlying cause.

Cerebrovascular disease

In 1998 cerebrovascular disease was the third leading cause of death (11,982 deaths). It was reported as the only cause in 20% of these deaths. The most common contributory causes reported with cerebrovascular disease were hypertensive disease (reported in 22% of cerebrovascular disease deaths), diseases of the arteries, arterioles and capillaries, and pneumonia and influenza (each reported in 12% of cerebrovascular disease deaths).

Cerebrovascular disease was reported in a further 7,716 deaths as a contributory cause. Cerebrovascular disease acted as a contributory cause in 21% of deaths where diabetes was the underlying cause.

EXTERNAL CAUSES OF DEATH

In 1998, there were 7,946 deaths due to external causes, with 25,678 multiple causes (including type of accidents) reported for these deaths. This gave an average of 3.2 causes for each death, similar to the corresponding average of 3.1 recorded in 1997.

For the deaths due to external causes there were 11,705 injuries and of these 3,175 occurred as a result of motor vehicle traffic accidents. Around 21% of injuries in motor vehicle accidents involved intracranial injuries, while fractures accounted for 20% and internal injuries of the chest, abdomen and pelvis a further 19%. These patterns of injury were similar for males and females (see table 2.7).

Fractures were the most common injury recorded in accidental falls, being present in more than 49% of cases. Intracranial injuries were also associated with accidental falls, occurring in 18% of cases. These intracranial injuries were more common in males than females, while the reverse was true for fractures.

2.1 DISTRIBUTION OF DEATHS, Number of Causes Per Death and Age

• • • • • • • • • •	• • • • • • • • • •	• • • • • • • • • •	• • • • • • • •	• • • • • •	• • • • • •	• • • • • •	• • • • • • •	• • • • • •	• • • • •		
			NULLARD	ED 0E 04	HOEO DE	D DEATH					
			NUMB	ER OF CA	USES PEI	R DEATH					
	Mean										
	conditions per								6 or		
	death	Total deaths	Total	1	2	3	4	5	more		
Age group (years)	no.	no.	%	%	%	%	%	%	%		
			М	ALES							
All ages(a)	2.9	67 073	100.0	18.1	28.1	24.8	15.1	7.9	5.9		
Under 1	2.8	706	100.0	23.2	25.8	24.1	11.9	7.5	7.5		
1–14	2.7	427	100.0	17.6	39.8	21.1	10.3	6.3	4.9		
15-24	2.8	1 376	100.0	7.6	48.4	22.5	11.3	5.0	5.3		
25-34	2.8	2 059	100.0	10.1	44.9	20.6	12.5	6.3	5.5		
35-44	2.7	2 448	100.0	18.1	37.6	20.8	12.1	5.6	5.8		
45-54	2.6	3 982	100.0	26.4	30.4	20.4	11.4	6.1	5.3		
55-64	2.7	7 405	100.0	25.7	27.6	22.5	12.5	6.9	4.8		
65–74	2.9	16 267	100.0	19.9	26.2	23.3	15.7	8.3	6.7		
75–84	3.0	20 975	100.0	16.0	25.6	26.7	16.7	8.9	6.1		
85 and over	3.0	11 421	100.0	14.2	27.2	28.2	16.6	8.1	5.6		
			FEN	MALES							
All ages(a)	2.8	60 129	100.0	18.9	27.8	25.5	15.0	7.3	5.4		
Under 1	2.7	546	100.0	24.4	27.1	24.7	12.5	6.0	5.3		
1–14	2.7	296	100.0	15.5	41.2	22.6	11.5	5.1	4.1		
15–24	2.8	495	100.0	13.3	41.4	22.2	11.1	4.4	7.5		
25–34	2.8	682	100.0	21.4	32.3	19.6	12.3	7.6	6.7		
35–44	2.6	1 334	100.0	27.3	29.9	18.2	12.0	6.7	5.8		
45–54	2.5	2 566	100.0	31.6	26.6	19.6	11.6	5.6	5.0		
55-64	2.6	4 135	100.0	28.5	26.6	20.7	11.8	6.6	5.9		
65–74	2.9	9 627	100.0	21.5	25.6	23.0	15.8	7.7	6.4		
75–84	2.9	19 212	100.0	17.1	26.5	27.0	15.8	7.9	5.7		
85 and over	2.8	21 235	100.0	15.4	29.8	27.8	15.4	7.1	4.5		
			PEF	RSONS							
All ages(a)	2.9	127 202	100.0	18.5	28.0	25.1	15.1	7.6	5.7		
Under 1	2.8	1 252	100.0	23.7	26.4	24.4	12.1	6.9	6.5		
1–14	2.7	723	100.0	16.7	40.4	21.7	10.8	5.8	4.6		
15–24	2.8	1 871	100.0	9.1	46.6	22.4	11.2	4.9	5.9		
25–34	2.8	2 741	100.0	12.9	41.8	20.4	12.5	6.6	5.8		
35–44	2.7	3 782	100.0	21.3	34.9	19.9	12.1	6.0	5.8		
45–54	2.6	6 548	100.0	28.5	28.9	20.1	11.4	5.9	5.2		
55–64	2.6	11 540	100.0	26.7	27.2	21.9	12.2	6.8	5.2		
65–74	2.9	25 894	100.0	20.5	26.0	23.2	15.7	8.1	6.6		
75–84	3.0	40 187	100.0	16.5	26.0	26.9	16.3	8.4	5.9		
85 and over	2.9	32 656	100.0	15.0	28.9	28.0	15.8	7.5	4.9		

⁽a) Including age not stated.

					Four or	Mean
		One other	Two other	Three other	more other	number of
Underlying cause of death and ICD code	Reported alone	cause	causes	causes	causes	causes
	MALE		• • • • • • •	• • • • • • • •	• • • • • • • •	
	WAL	_3				
All causes	12 167	18 870	16 601	10 149	9 286	2.7
Class I Infectious and parasitic diseases (001–139)	99	162	189	135	167	3.3
Class II Neoplasms (140–239)	6 559	5 460	3 951	2 179	1 712	2.4
Malignant neoplasms (140–208)	6 517	5 401	3 883	2 132	1 657	2.4
Lip, oral cavity and pharynx (140–149)	168	124	89	46	52	2.4
Digestive organs and peritoneum (150–159)	2 000	1 444	1 072	524	401	2.3
Oesophagus (150) Stomach (151)	225 322	195 183	143	54 70	37 48	2.2
Colon (153)	635	441	130 351	173	133	2.1 2.3
Rectum, rectosigmoid junction and	033	441	331	1/3	133	2.3
anus (154)	250	187	156	76	67	2.4
Liver and intrahepatic bile ducts (155)	122	125	83	53	44	2.5
Pancreas (157)	342	227	142	62	38	2.1
Trachea, bronchus and lung (162)	1 471	1 428	971	557	394	2.4
Bone, connective tissue, skin and						
breast (170–175)	355	290	220	94	72	2.3
Melanoma of skin (172)	252	174	123	48	38	2.1
Breast (174, 175)	5	4	3	2	2	2.6
Genitourinary organs (179–189)	1 108	1 007	740	447	332	2.5
Ovary and other uterine adnexa (183) Prostate (185)	— 770	— 727	— 523	 291	 220	
Bladder (188)	156	148	523 107	291 96	65	2.4 2.7
Other and unspecified sites (190–199)	686	526	332	186	136	2.7
Brain (191)	310	151	72	22	12	1.7
Lymphatic and haematopoietic	010	101				1
tissue (200–208)	556	449	376	252	237	2.6
Leukaemia (204–208)	180	202	150	114	117	2.8
Benign and unspecified neoplasms (210-239)	42	59	68	47	55	3.1
Class III Endocrine, nutritional and metabolic diseases	i					
and immunity disorders (240–279)	46	277	627	488	520	3.7
Diabetes mellitus (250)	20	196	481	362	365	3.7
Class IV Diseases of blood and blood-forming						
organs (280–289)	25	44	68	39	37	3.2
Class V Mental disorders (290–319)	169	336	493	270	290	2.7
Senile and presenile organic psychotic conditions (290)	57	127	115	44	26	2.6
Drug dependence (304)	36	9	189	121	154	2.6
Class VI Disease of the nervous system and sense	30	9	109	121	154	2.4
organs (320–389)	238	441	344	193	159	2.7
Hereditary and degenerative diseases of the						
central nervous system (330–337)	164	348	224	127	84	2.6
Alzheimer's disease (3310)	34	111	58	26	16	2.5
Class VII Diseases of the circulatory						
system (390–459)	3 526	6 556	6 919	4 267	3 478	3.0
All heart disease (393–398, 402, 404, 410–414,						
415, 416, 420–429)	2 332	4 702	5 229	3 306	2 632	3.0
Rheumatic fever and rheumatic heart						
disease (390–398)	5	12	23	29	18	3.6
Hypertensive disease (401–405)	51	135	98	60	66	3.0
Ischaemic heart disease (410–414)	1 958	3 912	4 343	2 687	2 124	3.0
Acute myocardial infarction (410)	784	2 631	2 753	1 572	1 157	3.0
Diseases of pulmonary circulation and other forms of heart disease (415–429)	337	713	917	562	466	2.1
Cerebrovascular disease (430–438)	889	1 432	817 1 271	675	545	3.1 2.8
Diseases of arteries, arterioles and	003	1 432	1211	013	343	2.0
capillaries (440–448)	285	328	343	224	235	2.9
Atherosclerosis (440)	9	59	69	27	29	3.1
Aortic aneurysm (441)	267	227	188	104	92	2.5
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(a) Excludes injury codes (ICD codes N800-N999).

REPORTED WITH.....

Underlying cause of death and ICD code	Reported alone	One other cause	Two other causes	Three other causes	Four or more other causes	Mean number of causes
Class VIII Diseases of the respiratory						
system (460–519)	864	1 862	1 836	1 088	943	3.0
Pneumonia and influenza (480-487)	421	613	485	290	240	2.7
Chronic obstructive pulmonary disease and allied						
conditions (490–496)	313	1 020	1 094	657	544	3.1
Emphysema (492)	41	170	188	104	72	3.0
Asthma (493)	52	80	86	39	21	2.7
Class IX Diseases of the digestive system (520–579)	138	383	515	399	534	3.5
Diseases of oesophagus, stomach and						
duodenum (530-537)	31	65	77	65	85	3.4
Ulcer of stomach and duodenum (531–533)	30	53	60	34	48	3.1
Chronic liver disease and cirrhosis (571)	54	180	192	142	157	3.4
Class X Diseases of the genitourinary						
system (580–629)	51	199	312	225	330	3.7
Nephritis, nephrotic syndrome and						
nephrosis (580–589)	48	151	223	156	211	3.6
Renal failure (584–586)	46	134	195	119	174	3.5
Class XI Complications of pregnancy, childbirth and						
the puerperium (630–676)	_	_	_	_	_	
Class XII Diseases of the skin and subcutaneous						
tissue (680–709)	1	18	21	20	32	3.9
Class XIII Diseases of the musculoskeletal system						
and connective tissue (710–739)	4	23	43	54	73	4.0
Arthropathies and related disorders (710–719)	3	14	27	34	47	4.0
Class IV Congenital anomalies (740–759)	43	81	95	59	56	3.1
Class XV Certain conditions originating in the						
perinatal period (760–779)	28	76	92	55	74	3.4
Class XVI Symptoms, signs and ill-defined				_	_	
conditions (780–799)	336	26	4	2	1	1.1
Class XVII Accidents, poisonings and violence						
(external causes) (E800–E999)	40	2 926	1 092	676	880	1.6
Accidents (E800–E949)	34	1 290	632	485	727	1.8
Motor vehicle traffic accidents (E810–E819)	28	604	250	145	197	1.3
Accidental falls (E880–E888)	_	61	83	115	272	3.1
Accidental drowning and submersion (E910)	_	132	34	17	4	1.4
Suicide (E950–E959)	2	1 470	398	162	118	1.4
Homicide (E960–E969)	4	124	38	19	18	1.3

⁽a) Excludes injury codes (ICD codes N800-N999).

REPORTED	WITH
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Underlying cause of death and ICD code	Reported alone	One other cause	Two other causes	Three other causes	Four or more other causes	Mean number of causes					
FEMALES											
All causes	11 369	16 745	15 359	9 032	7 624	2.7					
Class I Infectious and parasitic diseases (001–139)	55	147	149	123	129	3.3					
Class II Neoplasms (140–239)	5 604	4 141	2 867	1 508	1 092	2.3					
Malignant neoplasms (140–208)	5 563	4 084	2 805	1 468	1 050	2.3					
Lip, oral cavity and pharynx (140-149)	70	43	38	19	23	2.5					
Digestive organs and peritoneum (150–159)	1 696	1 184	779	395	294	2.2					
Oesophagus (150)	125	89	60	25	24	2.2					
Stomach (151)	205	110	78	25	20	2.0					
Colon (153) Rectum, rectosigmoid junction and	601	479	303	162	116	2.3					
anus (154)	192	147	83	47	35	2.2					
Liver and intrahepatic bile ducts (155)	79	58	41	25	18	2.4					
Pancreas (157) Trachea, bronchus and lung (162)	367 722	194	130	71	39	2.0 2.3					
Bone, connective tissue, skin and	122	590	380	235	126	2.3					
breast (170–175)	1 220	867	553	285	205	2.2					
Melanoma of skin (172)	146	104	49	283	18	2.1					
Breast (174, 175)	1 000	695	446	235	166	2.2					
Genitourinary organs (179–189)	745	512	387	183	134	2.2					
Ovary and other uterine adnexa (183) Prostate (185)	338	192 —	131	56	40	2.0					
Bladder (188)	74	73	53	26	21	2.4					
Other and unspecified sites (190–199)	580	461	303	153	116	2.3					
Brain (191)	265	94	54	17	13	1.7					
Lymphatic and haematopoietic											
tissue (200–208)	504	409	353	189	145	2.5					
Leukaemia (204–208)	136	147	132	80	58	2.6					
Benign and unspecified neoplasms (210–239)	41	57	62	40	42	2.9					
Class III Endocrine, nutritional and metabolic											
diseases and immunity disorders (240–279)	43	270	623	487	474	3.7					
Diabetes mellitus (250)	20	180	451	353	323	3.7					
Class IV Diseases of blood and blood-forming	00		F0	40	40	2.0					
organs (280–289)	28 241	55 635	52	42	48	3.2 2.6					
Class V Mental disorders (290–319) Senile and presenile organic psychotic	241	625	431	247	176	2.0					
conditions (290)	136	293	182	89	50	2.5					
Drug dependence (304)	4	2	32	33	50	2.7					
Class VI Disease of the nervous system and sense	•	_	02	33	00						
organs (320–389)	291	480	381	166	112	2.5					
Hereditary and degenerative diseases of the											
central nervous system (330–337)	236	393	291	103	62	2.4					
Alzheimer's disease (3310)	120	197	145	43	30	2.4					
Class VII Diseases of the circulatory											
system (390–459)	3 543	7 306	7 657	4 318	3 227	2.9					
All heart disease (393–398, 402, 404, 410–414,		4.504	5.050	0.004	0.050	0.0					
415, 416, 420–429)	1 833	4 531	5 250	3 084	2 356	3.0					
Rheumatic fever and rheumatic heart disease (390–398)	7	27	56	38	43	3.6					
Hypertensive disease (401–405)	122	209	193	109	43 97	2.8					
Ischaemic heart disease (410–414)	1 239	3 329	4 071	2 375	1 787	3.1					
Acute myocardial infarction (410)	743	2 172	2 475	1 336	904	3.0					
Diseases of pulmonary circulation and other	1 10	2 1.2	2 110	1000	001	0.0					
forms of heart disease (415–429)	507	1 042	1 019	621	489	2.9					
Cerebrovascular disease (430–438)	1 456	2 295	1 907	927	585	2.6					
Diseases of arteries, arterioles and											
capillaries (440-448)	209	354	361	212	194	2.9					
Atherosclerosis (440)	44	108	105	47	34	2.8					
Aortic aneurysm (441)	151	162	117	64	57	2.5					
		• • • • • • • •	• • • • • • • •	• • • • • • • • •		• • • • • • •					

(a) Excludes injury codes (ICD codes N800-N999).

REPORTED WITH.....

Underlying cause of death and ICD code	Reported alone	One other cause	Two other causes	Three other causes	Four or more other causes	Mean number of causes
Class VIII Diseases of the respiratory						
system (460–519)	971	1 907	1 501	832	606	2.7
Pneumonia and influenza (480–487)	570	955	578	263	164	2.4
Chronic obstructive pulmonary disease and allied						
conditions (490–496)	262	712	724	448	340	3.0
Emphysema (492)	23	100	85	45	34	2.9
Asthma (493)	90	112	100	61	44	2.7
Class IX Diseases of the digestive system (520–579)	176	381	504	375	532	3.5
Diseases of oesophagus, stomach and						
duodenum (530–537)	42	74	92	69	76	3.3
Ulcer of stomach and duodenum (531–533)	39	65	63	44	42	3.0
Chronic liver disease and cirrhosis (571)	21	78	71	56	67	3.4
Class X Diseases of the genitourinary						
system (580–629)	77	285	409	296	366	3.5
Nephritis, nephrotic syndrome and						
nephrosis (580–589)	71	205	249	170	208	3.4
Renal failure (584–586)	69	177	220	132	164	3.3
Class XI Complications of pregnancy, childbirth and						
the puerperium (630–676)	4	2	1	_	_	1.6
Class XII Diseases of the skin and subcutaneous						
tissue (680–709)	3	25	39	37	41	3.7
Class XIII Diseases of the musculoskeletal system	_					
and connective tissue (710–739)	9	72	129	131	133	3.8
Arthropathies and related disorders (710–719)	8	52	89	96	89	3.7
Class IV Congenital anomalies (740–759)	25	71	84	47	44	3.1
Class XV Certain conditions originating in the	0.4	70	7.5	00	00	0.0
perinatal period (760–779)	31	78	75	39	29	2.9
Class XVI Symptoms, signs and ill-defined conditions (780–799)	0.40	20	0	0		4.0
,	246	36	8	2	_	1.2
Class XVII Accidents, poisonings and violence (external causes) (E800–E999)	22	864	449	382	615	2.1
Accidents (E800–E949)	22 15	490	304	300	543	2.1
Motor vehicle traffic accidents (E810–E819)	13	490 278	304 99	300 46	543 71	1.2
Accidental falls (E880–E888)	13	30	108	46 187	326	3.2
Accidental drowning and submersion (E910)	_	42	8	6	2	1.4
Suicide (E950–E959)		298	111	60	62	1.4
Homicide (E960–E969)	5	59 59	21	15	4	1.2
Hormoide (E300 E303)	5	39	21	10	4	1.2

⁽a) Excludes injury codes (ICD codes N800-N999).

		One other	Two other	Three other	Four or more other	Mean number of
Underlying cause of death and ICD code	Reported alone	cause	causes	causes	causes	causes
			• • • • • • • •	• • • • • • • • •	• • • • • • • •	• • • • • •
	PERS(JNS				
All causes	23 536	35 615	31 960	19 181	16 910	2.7
Class I Infectious and parasitic diseases (001–139)	154	309	338	258	296	3.3
Class II Neoplasms (140–239)	12 163	9 601	6 818	3 687	2 804	2.3
Malignant neoplasms (140–208) Lip, oral cavity and pharynx (140–149)	12 080 238	9 485 167	6 688 127	3 600 65	2 707 75	2.3 2.4
Digestive organs and peritoneum (150–159)	3 696	2 628	1 851	919	695	2.4
Oesophagus (150)	350	284	203	79	61	2.2
Stomach (151)	527	293	208	95	68	2.1
Colon (153)	1 236	920	654	335	249	2.3
Rectum, rectosigmoid junction and						
anus (154)	442	334	239	123	102	2.3
Liver and intrahepatic bile ducts (155)	201	183	124	78	62	2.5
Pancreas (157)	709	421	272	133	77	2.1
Trachea, bronchus and lung (162) Bone, connective tissue, skin and	2 193	2 018	1 351	792	520	2.4
breast (170–175)	1 575	1 157	773	379	277	2.2
Melanoma of skin (172)	398	278	172	76	56	2.1
Breast (174, 175)	1 005	699	449	237	168	2.2
Genitourinary organs (179–189)	1 853	1 519	1 127	630	466	2.4
Ovary and other uterine adnexa (183)	338	192 727	131	56	40	2.0 2.4
Prostate (185) Bladder (188)	770 230	221	523 160	291 122	220 86	2.4
Other and unspecified sites (190–199)	1 266	987	635	339	252	2.3
Brain (191)	575	245	126	39	25	1.7
Lymphatic and haematopoietic tissue	0.0	2.0	120	33	20	
(200–208)	1 060	858	729	441	382	2.5
Leukaemia (204–208)	316	349	282	194	175	2.7
Benign and unspecified neoplasms (210–239)	83	116	130	87	97	3.0
Class III Endocrine, nutritional and metabolic						
diseases and immunity disorders (240–279)	89	547	1 250	975	994	3.7
Diabetes mellitus (250)	40	376	932	715	688	3.7
Class IV Diseases of blood and blood-forming organs (280–289)	53	99	120	81	85	3.2
Class V Mental disorders (290–319)	410	961	924	517	466	2.7
Senile and presenile organic psychotic	410	901	324	311	400	2.1
conditions (290)	193	420	297	133	76	2.5
Drug dependence (304)	40	11	221	154	204	2.5
Class VI Disease of the nervous system and sense						
organs (320–389)	529	921	725	359	271	2.6
Hereditary and degenerative diseases of the						
central nervous system (330–337)	400	741	515	230	146	2.5
Alzheimer's disease (3310)	154	308	203	69	46	2.4
Class VII Diseases of the circulatory system (390–459)	7 069	13 862	14 576	8 585	6 705	2.9
All heart disease (393–398, 402, 404, 410–414		13 802	14 570	8 383	0 703	2.9
415, 416, 420–429)	, 4 165	9 233	10 479	6 390	4 988	3.0
Rheumatic fever and rheumatic heart	40	20	70	0.7	0.4	0.0
disease (390–398) Hypertensive disease (401–405)	12 173	39 344	79 291	67 169	61	3.6 2.9
Ischaemic heart disease (401–403)	3 197	7 241	8 414	5 062	163 3 911	3.0
Acute myocardial infarction (410)	1 527	4 803	5 228	2 908	2 061	3.0
Diseases of pulmonary circulation and other	102.	. 555	0 220	2 000	2 002	0.0
forms of heart disease (415-429)	844	1 755	1 836	1 183	955	3.0
Cerebrovascular disease (430–438)	2 345	3 727	3 178	1 602	1 130	2.7
Diseases of arteries, arterioles and						
capillaries (440–448)	494	682	704	436	429	2.9
Atherosclerosis (440)	53	167	174	74 169	63	2.9
Aortic aneurysm (441)	418	389	305	168	149	2.5
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(a) Excludes injury codes (ICD codes N800-N999).

REPORTED WITH.....

Underlying cause of death and ICD code	Reported alone	One other cause	Two other causes	Three other causes	Four or more other causes	Mean number of causes
Class VIII Diseases of the respiratory						
system (460–519)	1 835	3 769	3 337	1 920	1 549	2.9
Pneumonia and influenza (480-487)	991	1 568	1 063	553	404	2.6
Chronic obstructive pulmonary disease and allied						
conditions (490–496)	575	1 732	1 818	1 105	884	3.1
Emphysema (492)	64	270	273	149	106	3.0
Asthma (493)	142	192	186	100	65	2.7
Class IX Diseases of the digestive system (520–579)	314	764	1 019	774	1 066	3.5
Diseases of oesophagus, stomach and						
duodenum (530-537)	73	139	169	134	161	3.4
Ulcer of stomach and duodenum (531–533)	69	118	123	78	90	3.1
Chronic liver disease and cirrhosis (571)	75	258	263	198	224	3.4
Class X Diseases of the genitourinary						
system (580–629)	128	484	721	521	696	3.6
Nephritis, nephrotic syndrome and						
nephrosis (580–589)	119	356	472	326	419	3.5
Renal failure (584–586)	115	311	415	251	338	3.4
Class XI Complications of pregnancy, childbirth and						
the puerperium (630–676)	4	2	1	_	_	1.6
Class XII Diseases of the skin and subcutaneous						
tissue (680–709)	4	43	60	57	73	3.8
Class XIII Diseases of the musculoskeletal system						
and connective tissue (710–739)	13	95	172	185	206	3.8
Arthropathies and related disorders (710–719)	11	66	116	130	136	3.8
Class IV Congenital anomalies (740–759)	68	152	179	106	100	3.1
Class XV Certain conditions originating in the						
perinatal period (760–779)	59	154	167	94	103	3.2
Class XVI Symptoms, signs and ill-defined						
conditions (780–799)	582	62	12	4	1	1.1
Class XVII Accidents, poisonings and violence						
(external causes) (E800–E999)	62	3 790	1 541	1 058	1 495	1.8
Accidents (E800–E949)	49	1 780	936	785	1 270	2.0
Motor vehicle traffic accidents (E810–E819)	41	882	349	191	268	1.3
Accidental falls (E880–E888)	_	91	191	302	598	3.2
Accidental drowning and submersion (E910)	_	174	42	23	6	1.4
Suicide (E950–E959)	4	1 768	509	222	180	1.4
Homicide (E960–E969)	9	183	59	34	22	1.3

⁽a) Excludes injury codes (ICD codes N800-N999).

2.3 UNDERLYING AND MULTIPLE CAUSES OF DEATH, Numbers and Ratio

	UNDEF	UNDERLYING CAUSE		MULTII	RATIO(b)		
Cause of death and ICD code	Males	Females	Persons	Males	Females	Persons	Persons
• • • • • • • • • • • • • • • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •				• • • • • • •
All causes	67 073	60 129	127 202	182 466	164 869	347 335	2.7
Class I Infectious and parasitic diseases (001–139)	752	603	1 355	3 953	3 450	7 403	5.5
Class II Neoplasms (140–239)	19 861	15 212	35 073	29 644	22 301	51 945	1.5
Malignant neoplasms (140–208)	19 590	14 970	34 560	28 983	21 737	50 720	1.5
Lip, oral cavity and pharynx (140–149) Digestive organs and peritoneum (150–159)	479 5 441	193 4 348	672 9 789	592 6 233	241 4 865	833 11 098	1.2 1.1
Oesophagus (150)	654	323	977	724	358	1 098	1.1
Stomach (151)	753	438	1 191	836	476	1 312	1.1
Colon (153)	1 733	1 661	3 394	2 017	1 856	3 873	1.1
Rectum, rectosigmoid junction and							
anus (154)	736	504	1 240	851	567	1 418	1.1
Liver and intrahepatic bile ducts (155)	427	221	648	489	250	739	1.1
Pancreas (157)	811	801	1 612	863	837	1 700	1.1
Trachea, bronchus and lung (162) Bone, connective tissue, skin and	4 821	2 053	6 874	5 247	2 193	7 440	1.1
breast (170–175)	1 031	3 130	4 161	1 287	3 918	5 205	1.3
Melanoma of skin (172)	635	345	980	711	406	1 117	1.1
Breast (174, 175)	16	2 542	2 558	25	3 184	3 209	1.3
Genitourinary organs (179–189)	3 634	1 961	5 595	5 224	2 313	7 537	1.3
Ovary and other uterine adnexa (183) Prostate (185)	— 2 E21	757 —	757 2 521	 3 758	814	814	1.1
Bladder (188)	2 531 572	247	2 531 819	829	326	3 758 1 155	1.5 1.4
Other and unspecified sites (190–199)	1 866	1 613	3 479	7 481	6 197	13 678	3.9
Brain (191)	567	443	1 010	594	464	1 058	1.0
Lymphatic and haematopoietic							
tissue (200–208)	1 870	1 600	3 470	2 370	1 914	4 284	1.2
Leukaemia (204–208)	763	553	1 316	989	685	1 674	1.3
Benign and unspecified neoplasms (210–239)	271	242	513	661	564	1 225	2.4
Class III Endocrine, nutritional and metabolic diseases							
and immunity disorders (240–279)	1 958	1 897	3 855	7 922	7 652	15 574	4.0
Diabetes mellitus (250)	1 424	1 327	2 751	5 108	4 472	9 580	3.5
Class IV Diseases of blood and blood-forming organs (280–289)	010	225	420	1 770	1 710	2 5 2 7	0.4
Class V Mental disorders (290–319)	213 1 558	225 1 720	438 3 278	1 778 6 959	1 749 6 473	3 527 13 432	8.1 4.1
Senile and presenile organic psychotic	1 336	1 720	3210	0 939	0413	13 432	4.1
conditions (290)	369	750	1 119	1 086	1 919	3 005	2.7
Drug dependence (304)	509	121	630	608	151	759	1.2
Class VI Disease of the nervous system and sense							
organs (320–389)	1 375	1 430	2 805	4 439	4 328	8 767	3.1
Hereditary and degenerative diseases of the							
central nervous system (330–337)	947	1 085	2 032	2 295	2 452	4 747	2.3
Alzheimer's disease (3310)	245	535	780	601	1 163	1 764	2.3
Class VII Diseases of the circulatory system (390–459)	24 746	26 051	50 797	67 442	66 862	134 304	2.6
All heart disease (393–398, 402, 404, 410–414,							
415, 416, 420–429)	18 201	17 054	35 255	47 667	43 183	90 850	2.6
Rheumatic fever and rheumatic heart disease (390–398)	87	171	258	218	346	564	2.2
Hypertensive disease (401–405)	410	730	1 140	5 266	6 881	12 147	10.7
Ischaemic heart disease (410–414)	15 024	12 801	27 825	27 009	21 758	48 767	1.8
Acute myocardial infarction (410)	8 897	7 630	16 527	10 555	8 952	19 507	1.2
Diseases of pulmonary circulation and other forms of heart disease (415–429)	2 905	2 670	6 572	10.040	20.200	40 220	E 1
Heart failure (428)	2 895 988	3 678 1 567	6 573 2 555	19 940 7 366	20 390 9 015	40 330 16 381	6.1 6.4
Cerebrovascular disease (430–438)	988 4 812	7 170	2 555 11 982	9 259	12 191	21 450	1.8
Diseases of arteries, arterioles and	7 012	1 110	11 002	5 255	-C -U	21 700	1.0
capillaries (440–448)	1 415	1 330	2 745	4 834	4 456	9 290	3.4
Atherosclerosis (440)	193	338	531	2 199	2 446	4 645	8.7
Aortic aneurysm (441)	878	551	1 429	1 209	731	1 940	1.4

⁽a) Deaths where the cause was ever reported. See Glossary for further information. (b) Ratio of multiple (underlying and contributory) to underlying cause. Excludes injury codes (ICD codes N800-N999).

2.3 UNDERLYING AND MULTIPLE CAUSES OF DEATH, Numbers and Ratio continued

UNDERLYING CAUSE..... MULTIPLE CAUSE(a)...... RATIO(b) Cause of death and ICD code Males Females Males Females Persons Persons Persons Class VIII Diseases of the respiratory system (460-519) 6 593 5 817 12 410 23 052 18 751 41 803 3.4 Pneumonia and influenza (480–487) 7 625 2 049 2 530 4 579 7 951 15 576 3.4 Chronic obstructive pulmonary disease and allied conditions (490-496) 3 628 2 486 6 114 8 810 5 506 14 316 2.3 Emphysema (492) 575 287 862 1 288 553 1 841 2.1 Asthma (493) 278 407 685 716 1 058 1 774 2.6 Class IX Diseases of the digestive system (520–579) 3 937 6 359 1 969 1 968 7 012 13 371 3.4 Diseases of oesophagus, stomach and duodenum (530-537) 323 353 676 1 147 1 042 2 189 3.2 Ulcer of stomach and duodenum (531–533) 225 253 478 726 630 1 356 2.8 Chronic liver disease and cirrhosis (571) 1 018 725 293 1 353 541 1 894 1.9 Class X Diseases of the genitourinary system (580-629) 1 117 1 433 2 550 7 604 7 023 14 627 5.7 Nephritis, nephrotic syndrome and nephrosis (580-589) 789 903 1 692 5 951 5 111 11 062 6.5 Renal failure (584-586) 668 762 1 430 5 703 4 842 10 545 7.4 Class XI Complications of pregnancy, childbirth and the puerperium (630–676) 7 1.0 Class XII Diseases of the skin and subcutaneous tissue (680 - 709)92 145 237 510 663 1 173 4.9 Class XIII Diseases of the musculoskeletal system and connective tissue (710-739) 2 822 197 474 671 1.326 4 148 6.2 Arthropathies and related disorders (710–719) 125 334 459 667 1 444 2 111 4.6 Class IV Congenital anomalies (740–759) 334 271 605 650 501 1 151 1.9 Class XV Certain conditions originating in the perinatal period (760-779) 252 577 1 207 860 2 067 325 3.6 Class XVI Symptoms, signs and ill-defined conditions (780-799)(c) 369 292 661 10 087 9 9 7 9 20 066 30.4 Class XVII Accidents, poisonings and violence (external causes) (E800-E999) 7 946 5 614 2 332 8 881 5 089 13 970 1.8 Accidents (E800-E949) 3 168 1 652 4 820 6 363 4 373 10 736 2.2 Motor vehicle traffic accidents (E810–E819) 1 224 507 1 731 1 240 514 1 754 1.0 Accidental falls (E880–E888) 531 651 1 182 1 016 1 485 2 501 2.1 Accidental drowning and submersion (E910) 187 58 245 200 66 266 1.1 Suicide (E950-E959) 2 150 533 2 683 2 198 560 2 758 1.0 Homicide (E960-E969) 203 104 307 210 106 316 1.0

⁽a) Deaths where the cause was ever reported. See Glossary for further information. Excludes injury codes (ICD codes N800–N999).

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

⁽c) Coding rules only allow this cause category to be the underlying cause when no other specific cause is recorded on the death

2.4 UNDERLYING AND MULTIPLE CAUSES OF DEATH, Crude Death Rates(a)

Males		UNDERLYING CAUSE			MULTIPLE CAUSE(b)		
Class Infectious and parasitic diseases (001-139)	Cause of death and ICD code	Males	Females	Persons	Males	Females	Persons
Class Infectious and parasitic diseases (001-139)		• • • • • • • •	• • • • • • • •			• • • • • • • • •	• • • • •
Class II Neoplesms (140-239)	All causes(c)	718.9	638.2	678.4	718.9	638.2	678.4
Malignart neoplesms (140-208)	•	8.1	6.4		42.4	36.6	39.5
Lip, oral cavity and phanyrx (140-149)	· · · · · · · · · · · · · · · · · · ·	212.9	161.5	187.0	317.7	236.7	277.0
Digestive organs and peritoneum (150-159) 58.3 46.2 52.2 78.3 3.8 5.8	• • • • • • • • • • • • • • • • • • • •			184.3			
Second (150)							
Stomach (151)							
Rectum, rectosignoid junction and anus (154) 7.9 5.3 6.6 9.1 6.0 7.6	· -						
Rectum, nectosignoid junction and anus (15-4) 7-9 5-3 6.6 9-1 6.0 7-6							
Author	· ·	18.6	17.6	18.1	21.6	19.7	20.7
Liver and intrahepatic bile ducts (155)	, , ,	7 9	5.3	6.6	9.1	6.0	7.6
Pancreas (157)							
Trachea, bronchus and lung (162)	•						
Bone, connective tissue, skin and breast (170–175)							
breast (170-175) 11.1 33.2 22.2 13.8 41.6 27.8 Melanoma of skin (172) 6.8 3.7 5.2 7.6 4.3 6.0 Breast (174, 175) 0.2 27.0 13.6 0.3 33.8 17.1 Genitourinary organs (179-189) 3.0 20.8 29.8 56.0 24.6 40.2 Ovary and other uterine adnexa (183) 1. 8.0 4.0 1. 8.6 4.3 Prostate (185) 27.1 1. 13.5 40.3 1. 20.0 Bladder (188) 6.1 2.6 4.4 4.89 3.5 6.2 Other and unspecified sites (190-199) 20.0 17.1 18.6 80.2 65.8 7.2 Brini (191) 6.1 4.7 7.5 4.6 4.9 5.6 Lymphatic and haematopoietic 20.0 17.0 18.5 25.4 20.3 22.8 Leukaemia (204-208) 8.2 5.9 7.0 10.6 7.3 <td< td=""><td>,</td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	,						
Melanoma of skin (172)		11.1	33.2	22.2	13.8	41.6	27.8
Breast (174, 175)							
Genitourinary organs (179–189) 39.0 20.8 28.8 56.0 24.6 40.2		0.2	27.0	13.6	0.3		17.1
Ovay and other uterine adnexa (183) 8.0 4.0 8.6 4.3 Prostate (185) 27.1 13.5 40.3 20.0 Other and unspecified sites (190–199) 20.0 17.1 18.6 80.2 65.8 72.9 Brain (191) 6.1 4.7 5.4 6.4 4.9 5.6 Lymphatic and haematopoietic tissue (200–208) 20.0 17.0 18.5 25.4 20.3 22.8 Leukaemia (204–208) 8.2 5.9 7.0 10.6 7.3 8.9 Benign and unspecified neoplasms (210–239) 2.9 2.6 2.7 7.1 6.0 6.5 Class III Endocrine, nutritional and metabolic diseases and immunity disorders (240–279) 2.1 2.0 2.0 2.7 7.1 4.5 8.1 8.1 Class III Endocrine, nutritional and metabolic diseases of blood and blood-forming organs (280–289) 15.3 14.1 14.7 54.7 54.7 47.5 51.1 Class VI Diseases of blood and blood-forming organs (280–289)	Genitourinary organs (179–189)	39.0	20.8	29.8	56.0		40.2
Bladder (188)			8.0	4.0		8.6	4.3
Other and unspecified sites (190–199) 20.0 17.1 18.6 80.2 65.8 72.9 Brain (191) 6.1 4.7 5.4 6.4 4.9 5.6 Lymphatic and haematopoietic tissue (200–208) 20.0 17.0 18.5 25.4 20.3 22.8 Leukaemia (204–208) 8.2 5.9 7.0 16.6 7.3 8.9 Benign and unspecified neoplasms (210–239) 2.9 2.6 2.7 7.1 6.0 6.5 Class II Endocrine, nutritional and metabolic diseases and immunity disorders (240–279) 2.0 2.01 20.6 84.9 81.2 83.1 Diabetes mellitus (250) 15.3 14.1 14.7 54.7 47.5 51.1 Class V Diseases of blood and blood-forming organs (280–289) 2.3 2.4 2.3 19.1 18.6 18.8 Class V Mental disorders (290–319) 4.0 8.0 6.0 11.6 20.4 16.0 Senile and presentile organic psychotic conditions (290) 4.0 8.0 6.0 11.6	Prostate (185)	27.1		13.5	40.3		20.0
Brain (191)	Bladder (188)	6.1	2.6	4.4	8.9	3.5	6.2
Lymphatic and haematopoietic tissue (200–208)	Other and unspecified sites (190–199)	20.0	17.1	18.6	80.2	65.8	72.9
tissue (200–208) 20.0 17.0 18.5 25.4 20.3 22.8 Leukaemia (204–208) 8.2 5.9 7.0 10.6 7.3 8.9 Benign and unspecified neoplasms (210–239) 2.9 2.6 2.7 7.1 6.0 6.5 Class III Endocrine, nutritional and metabolic 3.1 2.1 20.6 8.9 8.1 83.1 Diabetes mellitus (250) 15.3 14.1 14.7 54.7 47.5 51.1 Class IV Diseases of blood and blood-forming organs (280–289) 2.3 2.4 2.3 19.1 18.6 18.8 Class V Mental disorders (290–319) 16.7 18.3 17.5 74.6 68.7 71.6 Senile and presenile organic psychotic 20.0 8.0 6.0 11.6 20.4 16.0 Class VI Diseases of the nervous system and sense organs (320–389) 14.0 8.0 6.0 11.6 20.4 16.0 Class VI Diseases of the nervous system (330–337) 10.2 11.5 10.8 24.6 26.0 25	Brain (191)	6.1	4.7	5.4	6.4	4.9	5.6
Leukaemia (204–208)							
Benign and unspecified neoplasms (210–239) 2.9 2.6 2.7 7.1 6.0 6.5 Class III Endocrine, nutritional and metabolic diseases and immunity disorders (240–279) 21.0 20.1 20.6 84.9 81.2 83.1 Diabetes mellitus (250) 15.3 14.1 14.7 54.7 47.5 51.1 Class IV Diseases of blood and blood-forming organs (280–289) 16.7 18.3 17.5 74.6 68.7 71.6 Class V Mental disorders (290–319) 16.7 18.3 17.5 74.6 68.7 71.6 Senile and presenile organic psychotic conditions (290) 4.0 8.0 6.0 11.6 20.4 16.0 Drug dependence (304) 5.5 1.3 3.4 6.5 1.6 4.0 Drug dependence (304) 5.5 1.3 3.4 6.5 1.6 4.0 Class VI Diseases of the nervous system and sense organs (320–389) 14.7 15.2 15.0 47.6 45.9 46.8 Hereditary and degenerative diseases of the central nervous system (330–337) 10.2 11.5 10.8 24.6 26.0 25.3 Alzheimer's diseases (3310) 2.6 5.7 4.2 6.4 12.3 9.4 Class VII Diseases of the circulatory system (390–459) 26.5 270.9 722.9 709.7 716.3 All heard disease (333–398, 402, 404, 410–414, 415, 416, 420–429) 195.1 181.0 188.0 510.9 458.4 484.5 Rheumatic fever and rheumatic heart disease (393–398) 0.9 1.8 1.4 2.3 3.7 3.0 Hypertensive disease (410–414) 161.0 135.9 148.4 289.5 230.9 260.1 Acute myocardial infarction (410) 59.4 81.0 81.1 13.1 59.0 10.0 Diseases of pulmonary circulation and other forms of heart disease (415–429) 31.0 39.0 35.1 213.7 216.4 215.1 Heart failure (428) 10.6 6.6 6.6 6.6 6.3 6.7 9.9 9.7 78.7 Cerebrovascular disease (430–438) 51.6 76.1 6.9 99.2 129.4 114.4 Diseases of arteries, arterioles and capillaries (440–448) 51.6 51.8 47.3 49.5 Atherosclerosis (440) 2.1 3.6 6.8 51.8 47.3 49.5 Atherosclerosis (440) 2.1 3.6 2.8 23.6 23.0 22.0 Descritation of the control of the capillaries (440–448)		20.0	17.0	18.5	25.4	20.3	22.8
Class III Endocrine, nutritional and metabolic diseases and immunity disorders (240–279) 21.0 20.1 20.6 84.9 81.2 83.1			5.9	7.0	10.6		8.9
diseases and immunity disorders (240–279) 21.0 20.1 20.6 84.9 81.2 83.1 Diabetes mellitus (250) 15.3 14.1 14.7 54.7 47.5 51.1 Class V Diseases of blood and blood-forming organs (280–289) 2.3 2.4 2.3 19.1 18.6 18.8 Class V Mental disorders (290–319) 16.7 18.3 17.5 74.6 68.7 71.6 Senile and presenile organic psychotic 20.0 8.0 6.0 11.6 20.4 16.0 Class VI Diseases of the enerous system and sense organs (320–389) 14.7 15.2 15.0 47.6 45.9 46.8 Hereditary and degenerative diseases of the central nerous system (330–337) 10.2 11.5 10.8 24.6 25.0 25.3 42.2 6.4 12.3 9.4 Class VII Diseases of the circulatory system (390–3398) 26.5 276.5 270.9 722.9 709.7 716.3 48.5 Rheumatic fever and rheumatic heart disease (393–398, 402, 404, 410–414, 41.4 41.5 188.0 510.9 458.4 <td></td> <td>2.9</td> <td>2.6</td> <td>2.7</td> <td>7.1</td> <td>6.0</td> <td>6.5</td>		2.9	2.6	2.7	7.1	6.0	6.5
Diabetes mellitus (250) 15.3 14.1 14.7 54.7 47.5 51.1	· · · · · · · · · · · · · · · · · · ·						
Class IV Diseases of blood and blood-forming organs (280–289) 2.3 2.4 2.3 19.1 18.6 18.8 Class V Mental disorders (290–319) 16.7 18.3 17.5 74.6 68.7 71.6 Senile and presenile organic psychotic conditions (290) 4.0 8.0 6.0 11.6 20.4 16.0 Drug dependence (304) 5.5 1.3 3.4 6.5 1.6 40.0 Class VI Diseases of the nervous system and sense organs (320–389) 14.7 15.2 15.0 47.6 45.9 46.8 Hereditary and degenerative diseases of the central nervous system (330–337) 10.2 11.5 10.8 24.6 26.0 25.3 Alzheimer's disease (3310) 2.6 5.7 4.2 6.4 12.3 9.4 Class VII Diseases of the circulatory system (390–459) 265.2 276.5 270.9 72.9 709.7 716.3 All heart disease (393–398, 402, 404, 410–414, 41.1 181.0 188.0 510.9 458.4 484.5 Rheumatic fever and rheumatic heart disease (41.2 9.	The state of the s						
organs (280–289) 2.3 2.4 2.3 19.1 18.6 18.8 Class V Mental disorders (290–319) 16.7 18.3 17.5 74.6 68.7 71.6 Senile and presenile organic psychotic conditions (290) 4.0 8.0 6.0 11.6 20.4 16.0 Drug dependence (304) 5.5 1.3 3.4 6.5 1.6 4.0 Class VI Diseases of the nervous system and sense organs (320–389) 14.7 15.2 15.0 47.6 45.9 46.8 Hereditary and degenerative diseases of the central nervous system (330–337) 10.2 11.5 10.8 24.6 26.0 25.3 Alzheimer's disease (3310) 2.6 5.7 10.8 24.6 26.0 25.3 Alzheimer's disease (3310) 2.6 270.9 72.9 709.7 716.3 All heart disease (390–459) 265.2 276.5 270.9 72.9 709.7 716.3 All heart disease (490–429) 195.1 181.0 188.0 510.9 458.4 484.5		15.3	14.1	14.7	54.7	47.5	51.1
Class V Mental disorders (290–319) 16.7 18.3 17.5 74.6 68.7 71.6 Senile and presenile organic psychotic conditions (290) 4.0 8.0 6.0 11.6 20.4 16.0 Drug dependence (304) 5.5 1.3 3.4 6.5 1.6 4.0 Class VI Diseases of the nervous system and sense organs (320–389) 14.7 15.2 15.0 47.6 45.9 46.8 Hereditary and degenerative diseases of the central nervous system (330–337) 10.2 11.5 10.8 24.6 26.0 25.3 Alzheimer's disease (3310) 2.6 5.7 4.2 6.4 12.3 9.4 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5						40.0	40.0
Senile and presenile organic (290) 4.0 8.0 6.0 11.6 20.4 16.0 Drug dependence (304) 5.5 1.3 3.4 6.5 1.6 4.0 Class VI Diseases of the nervous system and sense organs (320–389) 14.7 15.2 15.0 47.6 45.9 46.8 Hereditary and degenerative diseases of the central nervous system (330–337) 10.2 11.5 10.8 24.6 26.0 25.3 Alzheimer's disease (3310) 2.6 5.7 4.2 6.4 12.3 9.4 Class VII Diseases of the circulatory system (390–459) 265.2 276.5 270.9 722.9 709.7 716.3 All heart diseases (393–398, 402, 404, 410–414, 415, 416, 420–429) 195.1 181.0 188.0 510.9 458.4 484.5 Rheumatic fever and rheumatic heart disease (401–405) 4.4 7.7 6.1 56.4 73.0 64.8 Ischaemic heart disease (410–414) 161.0 135.9 148.4 289.5 230.9 260.1 Acute myocardial infarction (410) 95.4 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>							
conditions (290) 4.0 8.0 6.0 11.6 20.4 16.0 Drug dependence (304) 5.5 1.3 3.4 6.5 1.6 4.0 Class VI Diseases of the nervous system and sense organs (320–389) 14.7 15.2 15.0 47.6 45.9 46.8 Hereditary and degenerative diseases of the central nervous system (330–337) 10.2 11.5 10.8 24.6 26.0 25.3 Alzheimer's disease (3310) 2.6 5.7 4.2 6.4 12.3 9.4 Class VII Diseases of the circulatory system (390–459) 265.2 276.5 270.9 722.9 709.7 716.3 All heart disease (393–398, 402, 404, 410–414, 41.4 415, 416, 420–429) 195.1 181.0 188.0 510.9 458.4 484.5 Rheumatic fever and rheumatic heart disease (410–405) 4.4 7.7 6.1 56.4 73.0 64.8 Ischaemic heart disease (410–414) 161.0 135.9 148.4 289.5 230.9 260.1 Acute myocardial infarction (410) 95.4		16.7	18.3	17.5	74.6	68.7	71.6
Drug dependence (304) 5.5 1.3 3.4 6.5 1.6 4.0 Class VI Diseases of the nervous system and sense organs (320–389) 14.7 15.2 15.0 47.6 45.9 46.8 Hereditary and degenerative diseases of the central nervous system (330–337) 10.2 11.5 10.8 24.6 26.0 25.3 Alzheimer's disease (3310) 2.6 5.7 4.2 6.4 12.3 9.4 Class VII Diseases of the circulatory system (390–459) 265.2 276.5 270.9 722.9 709.7 716.3 All heart disease (393–398, 402, 404, 410–414, 415, 416, 420–429) 195.1 181.0 188.0 510.9 458.4 484.5 Rheumatic fever and rheumatic heart disease (390–398) 0.9 1.8 1.4 2.3 3.7 3.0 Hypertensive disease (401–405) 4.4 7.7 6.1 56.4 73.0 64.8 Ischaemic heart disease (410–414) 161.0 135.9 148.4 289.5 230.9 260.1 Diseases of pulmonary circulation and other forms of heart disease (410-429) <td></td> <td>4.0</td> <td>9.0</td> <td>6.0</td> <td>11 6</td> <td>20.4</td> <td>16.0</td>		4.0	9.0	6.0	11 6	20.4	16.0
Class VI Diseases of the nervous system and sense organs (320–389) Hereditary and degenerative diseases of the central nervous system (330–337) Alzheimer's disease (3310) Class VII Diseases of the circulatory system (390–459) All heart disease (393–398, 402, 404, 410–414, 415, 416, 420–429) Rheumatic fever and rheumatic heart disease (390–398) Hypertensive disease (401–405) Acute myocardial infarction (410) Diseases of pulmonary circulation and other forms of heart disease (415–429) 100 100 100 100 100 100 100 100 100 10							
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Hereditary and degenerative diseases of the central nervous system (330–337) 10.2 11.5 10.8 24.6 26.0 25.3 Alzheimer's disease (3310) 2.6 5.7 4.2 6.4 12.3 9.4 Class VII Diseases of the circulatory system (390–459) 265.2 276.5 270.9 722.9 709.7 716.3 All heart disease (393–398, 402, 404, 410–414, 415, 416, 420–429) 195.1 181.0 188.0 510.9 458.4 484.5 Rheumatic fever and rheumatic heart disease (390–398) 0.9 1.8 1.4 2.3 3.7 3.0 Hypertensive disease (401–405) 4.4 7.7 6.1 56.4 73.0 64.8 Ischaemic heart disease (410–414) 161.0 135.9 148.4 289.5 230.9 260.1 Acute myocardial infarction (410) 95.4 81.0 88.1 113.1 95.0 104.0 Diseases of pulmonary circulation and other forms of heart disease (415–429) 31.0 39.0 35.1 213.7 216.4 215.1 Heart failure (428) 10.6 16.6 13.6 79.0 95.7 87.4 Cerebrovascular disease (430–438) 15.2 16.1 16.0 63.9 99.2 129.4 114.4 Diseases of arteries, arterioles and capillaries (440–448) 15.2 14.1 14.6 51.8 47.3 49.5 Atherosclerosis (440) 2.1 3.6 2.8 23.6 26.0 24.8		147	15.2	15.0	47.6	45.9	46.8
central nervous system (330–337) 10.2 11.5 10.8 24.6 26.0 25.3 Alzheimer's disease (3310) 2.6 5.7 4.2 6.4 12.3 9.4 Class VII Diseases of the circulatory system (390–459) 265.2 276.5 270.9 722.9 709.7 716.3 All heart disease (393–398, 402, 404, 410–414, 415, 416, 420–429) 195.1 181.0 188.0 510.9 458.4 484.5 Rheumatic fever and rheumatic heart disease (390–398) 0.9 1.8 1.4 2.3 3.7 3.0 Hypertensive disease (401–405) 4.4 7.7 6.1 56.4 73.0 64.8 Ischaemic heart disease (410–414) 161.0 135.9 148.4 289.5 230.9 260.1 Acute myocardial infarction (410) 95.4 81.0 88.1 113.1 95.0 104.0 Diseases of pulmonary circulation and other forms of heart disease (415–429) 31.0 39.0 35.1 213.7 216.4 215.1 Heart failure (428) 10.6 16.6 13.6		17.1	15.2	10.0	47.0	45.5	40.0
Alzheimer's disease (3310) 2.6 5.7 4.2 6.4 12.3 9.4 Class VII Diseases of the circulatory system (390–459) 265.2 276.5 270.9 722.9 709.7 716.3 All heart disease (393–398, 402, 404, 410–414, 415, 416, 420–429) 195.1 181.0 188.0 510.9 458.4 484.5 Rheumatic fever and rheumatic heart disease (390–398) 0.9 1.8 1.4 2.3 3.7 3.0 Hypertensive disease (401–405) 4.4 7.7 6.1 56.4 73.0 64.8 Ischaemic heart disease (410–414) 161.0 135.9 148.4 289.5 230.9 260.1 Acute myocardial infarction (410) 95.4 81.0 88.1 113.1 95.0 104.0 Diseases of pulmonary circulation and other forms of heart disease (415–429) 31.0 39.0 35.1 213.7 216.4 215.1 Heart failure (428) 10.6 16.6 13.6 79.0 95.7 87.4 Cerebrovascular disease (430–438) 51.6 76.1 63.9 99.2 129.4 114.4 Diseases of arteries, arterioles and capillaries (440–448) 15.2 14.1 14.6 51.8 47.3 49.5 Atherosclerosis (440) 2.1 3.6 2.8 23.6 26.0 24.8	, 0	10.2	11.5	10.8	24.6	26.0	25.3
Class VII Diseases of the circulatory system (390–459) 265.2 276.5 270.9 722.9 709.7 716.3 All heart disease (393–398, 402, 404, 410–414, 415, 416, 420–429) 195.1 181.0 188.0 510.9 458.4 484.5 Rheumatic fever and rheumatic heart disease (390–398) 0.9 1.8 1.4 2.3 3.7 3.0 Hypertensive disease (401–405) 4.4 7.7 6.1 56.4 73.0 64.8 Ischaemic heart disease (410–414) 161.0 135.9 148.4 289.5 230.9 260.1 Acute myocardial infarction (410) 95.4 81.0 88.1 113.1 95.0 104.0 Diseases of pulmonary circulation and other forms of heart disease (415–429) 31.0 39.0 35.1 213.7 216.4 215.1 Heart failure (428) 10.6 16.6 13.6 79.0 95.7 87.4 Cerebrovascular disease (430–438) 51.6 76.1 63.9 99.2 129.4 114.4 Diseases of arteries, arterioles and capillaries (440–448) 15.2 14.1 14.6 51.8 47.3 49.5 Atherosclerosis (440) 2.1 3.6 2.8 23.6 26.0 24.8							
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Rheumatic fever and rheumatic heart disease (390–398) 0.9 1.8 1.4 2.3 3.7 3.0 Hypertensive disease (401–405) 4.4 7.7 6.1 56.4 73.0 64.8 Ischaemic heart disease (410–414) 161.0 135.9 148.4 289.5 230.9 260.1 Acute myocardial infarction (410) 95.4 81.0 88.1 113.1 95.0 104.0 Diseases of pulmonary circulation and other forms of heart disease (415–429) 31.0 39.0 35.1 213.7 216.4 215.1 Heart failure (428) 10.6 16.6 13.6 79.0 95.7 87.4 Cerebrovascular disease (430–438) 51.6 76.1 63.9 99.2 129.4 114.4 Diseases of arteries, arterioles and capillaries (440–448) 15.2 14.1 14.6 51.8 47.3 49.5 Atherosclerosis (440) 2.1 3.6 2.8 23.6 26.0 24.8	All heart disease (393-398, 402, 404, 410-414,						
disease (390–398) 0.9 1.8 1.4 2.3 3.7 3.0 Hypertensive disease (401–405) 4.4 7.7 6.1 56.4 73.0 64.8 Ischaemic heart disease (410–414) 161.0 135.9 148.4 289.5 230.9 260.1 Acute myocardial infarction (410) 95.4 81.0 88.1 113.1 95.0 104.0 Diseases of pulmonary circulation and other forms of heart disease (415–429) 31.0 39.0 35.1 213.7 216.4 215.1 Heart failure (428) 10.6 16.6 13.6 79.0 95.7 87.4 Cerebrovascular disease (430–438) 51.6 76.1 63.9 99.2 129.4 114.4 Diseases of arteries, arterioles and capillaries (440–448) 15.2 14.1 14.6 51.8 47.3 49.5 Atherosclerosis (440) 2.1 3.6 2.8 23.6 26.0 24.8	415, 416, 420–429)	195.1	181.0	188.0	510.9	458.4	484.5
Hypertensive disease (401–405) 4.4 7.7 6.1 56.4 73.0 64.8 Ischaemic heart disease (410–414) 161.0 135.9 148.4 289.5 230.9 260.1 Acute myocardial infarction (410) 95.4 81.0 88.1 113.1 95.0 104.0 Diseases of pulmonary circulation and other forms of heart disease (415–429) 31.0 39.0 35.1 213.7 216.4 215.1 Heart failure (428) 10.6 16.6 13.6 79.0 95.7 87.4 Cerebrovascular disease (430–438) 51.6 76.1 63.9 99.2 129.4 114.4 Diseases of arteries, arterioles and capillaries (440–448) 15.2 14.1 14.6 51.8 47.3 49.5 Atherosclerosis (440) 2.1 3.6 2.8 23.6 26.0 24.8	Rheumatic fever and rheumatic heart						
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Acute myocardial infarction (410) 95.4 81.0 88.1 113.1 95.0 104.0 Diseases of pulmonary circulation and other forms of heart disease (415–429) 31.0 39.0 35.1 213.7 216.4 215.1 Heart failure (428) 10.6 16.6 13.6 79.0 95.7 87.4 Cerebrovascular disease (430–438) 51.6 76.1 63.9 99.2 129.4 114.4 Diseases of arteries, arterioles and capillaries (440–448) 15.2 14.1 14.6 51.8 47.3 49.5 Atherosclerosis (440) 2.1 3.6 2.8 23.6 26.0 24.8	Hypertensive disease (401–405)	4.4	7.7	6.1	56.4	73.0	64.8
Diseases of pulmonary circulation and other forms of heart disease (415–429) 31.0 39.0 35.1 213.7 216.4 215.1 Heart failure (428) 10.6 16.6 13.6 79.0 95.7 87.4 Cerebrovascular disease (430–438) 51.6 76.1 63.9 99.2 129.4 114.4 Diseases of arteries, arterioles and capillaries (440–448) 15.2 14.1 14.6 51.8 47.3 49.5 Atherosclerosis (440) 2.1 3.6 2.8 23.6 26.0 24.8		161.0	135.9	148.4	289.5	230.9	260.1
forms of heart disease (415–429) Heart failure (428) 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6		95.4	81.0	88.1	113.1	95.0	104.0
Heart failure (428) 10.6 16.6 13.6 79.0 95.7 87.4 Cerebrovascular disease (430–438) 51.6 76.1 63.9 99.2 129.4 114.4 Diseases of arteries, arterioles and capillaries (440–448) 15.2 14.1 14.6 51.8 47.3 49.5 Atherosclerosis (440) 2.1 3.6 2.8 23.6 26.0 24.8	• •						
Cerebrovascular disease (430–438) 51.6 76.1 63.9 99.2 129.4 114.4 Diseases of arteries, arterioles and capillaries (440–448) 15.2 14.1 14.6 51.8 47.3 49.5 Atherosclerosis (440) 2.1 3.6 2.8 23.6 26.0 24.8							
Diseases of arteries, arterioles and capillaries (440–448) 15.2 14.1 14.6 51.8 47.3 49.5 Atherosclerosis (440) 2.1 3.6 2.8 23.6 26.0 24.8	, ,						
capillaries (440–448) 15.2 14.1 14.6 51.8 47.3 49.5 Atherosclerosis (440) 2.1 3.6 2.8 23.6 26.0 24.8	· · · · · · · · · · · · · · · · · · ·	51.6	76.1	63.9	99.2	129.4	114.4
Atherosclerosis (440) 2.1 3.6 2.8 23.6 26.0 24.8	,						
Aoruc aneurysm (441) 9.4 5.8 7.6 13.0 7.8 10.3							
	Auruc aneurysm (441)	9.4	5.8	7.6	13.0	7.8	10.3

⁽a) Rates are expressed per 100,000 estimated mid year population.

⁽c) Rates are based on total deaths.

⁽b) Deaths where the cause was ever reported. See Glossary for further information. Excludes injury codes (ICD codes N800-N999).

2.4 UNDERLYING AND MULTIPLE CAUSES OF DEATH, Crude Death Rates(a) continued

UNDERLYING CAUSE..... MULTIPLE CAUSE(b)..... Cause of death and ICD code Females Persons Males Males Females Persons Class VIII Diseases of the respiratory system (460-519) 66.2 70.7 61.7 247.1 199.0 222.9 Pneumonia and influenza (480–487) 22.0 26.9 24.4 85.2 80.9 83.1 Chronic obstructive pulmonary disease and allied conditions (490-496) 38.9 26.4 32.6 94.4 58.4 76.3 Emphysema (492) 6.2 3.0 4.6 13.8 5.9 9.8 Asthma (493) 3.0 4.3 3.7 7.7 11.2 9.5 Class IX Diseases of the digestive system (520-579) 21.1 20.9 21.0 75.2 67.5 71.3 Diseases of oesophagus, stomach and duodenum (530-537) 3.5 3.7 3.6 12.3 11.1 11.7 Ulcer of stomach and duodenum (531–533) 2.7 2.4 2.5 7.8 6.7 7.2 Chronic liver disease and cirrhosis (571) 7.8 3.1 5.4 14.5 5.7 10.1 Class X Diseases of the genitourinary system (580-629) 12.0 15.2 13.6 81.5 74.5 78.0 Nephritis, nephrotic syndrome and nephrosis (580–589) 8.5 9.6 9.0 63.8 54.3 59.0 Renal failure (584-586) 7.2 8.1 7.6 61.1 51.4 56.2 Class XI Complications of pregnancy, childbirth and the puerperium (630-676) 0.1 0.1 Class XII Diseases of the skin and subcutaneous tissue (680-709) 1.0 5.5 7.0 1.5 1.3 6.3 Class XIII Diseases of the musculoskeletal system and connective tissue (710-739) 30.0 5.0 3.6 14.2 22.1 2.1 Arthropathies and related disorders (710–719) 1.3 3.5 2.4 7.1 15.3 11.3 Class IV Congenital anomalies (740–759) 3.6 2.9 3.2 7.0 5.3 6.1 Class XV Certain conditions originating in the perinatal period (760-779) 12.9 3.5 2.7 3.1 9.1 11.0 Class XVI Symptoms, signs and ill-defined conditions (780-799)(c) 3.5 108.1 105.9 107.0 4.0 3.1 Class XVII Accidents, poisonings and violence (external causes) (E800-E999) 95.2 60.2 24.8 42.4 54.0 74.5 Accidents (E800-E949) 34.0 17.5 25.7 68.2 46.4 57.3 Motor vehicle traffic accidents (E810-E819) 9.2 13.3 13.1 5.4 5.5 9.4 Accidental falls (E880-E888) 6.3 15.8 13.3 5.7 6.9 10.9 2.1 Accidental drowning and submersion (E910) 2.0 0.6 1.3 0.7 1.4 Suicide (E950-E959) 23.0 5.7 14.3 23.6 5.9 14.7 Homicide (E960-E969) 2.2 1.6 2.3 1.1 1.1 1.7

⁽a) Rates are expressed per 100,000 estimated midyear population.

⁽b) Deaths where the cause was ever reported. See Glossary for further information. Excludes injury codes (ICD codes N800–N999).

⁽c) Coding rules only allow this cause category to be the underlying cause when no other specific cause is recorded on the death certificate.

2.5 CAUSES OF DEATH, Underlying Cause and Most Common Associated Causes

	Males		Females		Persons	
Underlying cause/associated cause and ICD code	no.	%	no.	%	no.	%
••••				• • • • • • •	• • • • • • •	• • • •
Malignant neoplasms (140–208)	19 590	100.0	14 970	100.0	34 560	100.0
Reported alone	6 517	33.3	5 563	37.2	12 080	35.0
Reported with						
Diabetes mellitus (250)	817	4.2	484	3.2	1 301	3.8
Ischaemic heart disease (410–414) Heart failure (428)	1 359 681	6.9 3.5	741 578	4.9 3.9	2 100 1 259	6.1 3.6
Pneumonia and influenza (480–487)	1 694	3.5 8.6	1 013	3.9 6.8	2 707	3.6 7.8
Chronic obstructive pulmonary disease and	1 054	0.0	1 010	0.0	2 101	1.0
allied conditions (490–496)	1 443	7.4	572	3.8	2 015	5.8
Nephritis, nephrotic syndrome and nephrosis (580–589)	1 001	5.1	564	3.8	1 565	4.5
Diabetes mellitus (250)	1 424	100.0	1 327	100.0	2 751	100.0
Reported alone	20	1.4	20	1.5	40	1.5
Reported with						
Hypertensive disease (401–405)	292	20.5	330	24.9	622	22.6
Ischaemic heart disease (410–414)	824	57.9	661	49.8	1 485	54.0
Heart failure (428)	230	16.2	258	19.4	488	17.7
Cerebrovascular disease (430–438) Pneumonia and influenza (480–487)	301 98	21.1 6.9	271 91	20.4 6.9	572 189	20.8 6.9
Nephritis, nephrotic syndrome and nephrosis (580–589)	270	19.0	273	20.6	543	19.7
Hophinas, hophicae synarome and hophicae (300 300)	210	15.0	210	20.0	343	13.1
Hereditary and degenerative diseases of the central						
nervous system (330–337)	947	100.0	1 085	100.0	2 032	100.0
Reported alone Reported with	164	17.3	236	21.8	400	19.7
Ischaemic heart disease (410–414)	75	7.9	65	6.0	140	6.9
Cerebrovascular disease (430–438)	73 77	8.1	94	8.7	171	8.4
Pneumonia and influenza (480–487)	238	25.1	227	20.9	465	22.9
Ischaemic heart disease (410–414)	15 024	100.0	12 801	100.0	27 825	100.0
Reported alone	1 958	13.0	1 239	9.7	3 197	11.5
Reported with						
Malignant neoplasms (140–208)	1 035	6.9	538	4.2	1 573	5.7
Diabetes mellitus (250)	1 366	9.1	1 130	8.8	2 496	9.0
Hypertensive disease (401–405)	2 117	14.1	2 342	18.3	4 459	16.0
Heart failure (428)	2 480	16.5	2 927	22.9	5 407	19.4
Cerebrovascular disease (430–438) Diseases of arteries, arterioles and capillaries (440–448)	1 097	7.3	1 184	9.2	2 281 2 777	8.2
Pneumonia and influenza (480–487)	1 543 573	10.3 3.8	1 234 541	9.6 4.2	1 114	10.0 4.0
Chronic obstructive pulmonary disease and	313	3.0	041	7.2	1 114	4.0
allied conditions (490–496)	1 716	11.4	1 037	8.1	2 753	9.9
Nephritis, nephrotic syndrome and nephrosis (580–589)	1 018	6.8	798	6.2	1 816	6.5
Heart failure (428)	988	100.0	1 567	100.0	2 555	100.0
Reported alone	120	12.1	244	15.6	364	14.2
Reported with						
Cerebrovascular disease (430–438)	84	8.5	141	9.0	225	8.8
Pneumonia and influenza (480–487)	219	22.2	327	20.9	546	21.4
Chronic obstructive pulmonary disease and						
allied conditions (490–496)	184	18.6	179	11.4	363	14.2
Nephritis, nephrotic syndrome and nephrosis (580–589)	179	18.1	217	13.8	396	15.5
Cerebrovascular disease (430–438)	4 812	100.0	7 170	100.0	11 982	100.0
Reported alone	889	18.5	1 456	20.3	2 345	19.6
Reported with					_	
Hypertensive disease (401–405)	922	19.2	1 653	23.1	2 575	21.5
Ischaemic heart disease (410–414) Diseases of arteries, arterioles and capillaries (440–448)	494 595	10.3	599 876	8.4	1 093	9.1
Pneumonia and influenza (480–487)	585 639	12.2 13.3	876 746	12.2 10.4	1 461 1 385	12.2 11.6
1 Heurionia and iniluenza (400–401)	639	13.3	140	10.4	1 383	11.0

2.5 CAUSES OF DEATH, Underlying Cause and Most Common Associated Causes continued

Males..... Females..... Persons..... Underlying cause/associated cause and ICD code Diseases of arteries, arterioles and capillaries (440–448) 1 415 100.0 1 330 100.0 2 745 100.0 Reported alone 285 20.1 209 15.7 494 18.0 Reported with Hypertensive disease (401–405) 10.0 10.9 142 157 11.8 299 Ischaemic heart disease (410-414) 297 21.0 165 12.4 462 16.8 Heart failure (428) 151 10.7 204 15.3 355 12.9 Cerebrovascular disease (430–438) 96 6.8 115 8.6 211 7.7 Chronic obstructive pulmonary disease and allied conditions (490-496) 140 9.9 76 5.7 216 7.9 Nephritis, nephrotic syndrome and nephrosis (580–589) 189 13.4 165 12.4 354 12.9 Pneumonia and influenza (480–487) 2 049 100.0 2 530 100.0 4 579 100.0 Reported alone 421 20.5 570 22.5 21.6 991 Reported with Malignant neoplasms (140-208) 174 100 4.0 6.0 Hereditary and degenerative diseases of the central nervous system (330-337) 137 6.7 132 5.2 269 5.9 Ischaemic heart disease (410-414) 286 305 591 14.0 12.1 12.9 Heart failure (428) 258 12.6 331 13.1 589 12.9 Cerebrovascular disease (430-438) 208 10.2 243 9.6 451 9.8 Chronic obstructive pulmonary disease and allied conditions (490-496) 183 8.9 104 4.1 287 6.3 Nephritis, nephrotic syndrome and nephrosis (580–589) 198 9.7 130 5.1 328 7.2 Chronic obstructive pulmonary disease and allied conditions (490-496) 3 628 100.0 2 486 100.0 100.0 6 1 1 4 Reported alone 313 262 10.5 575 9.4 8.6 Reported with Malignant neoplasms (140-208) 325 9.0 108 4.3 433 7.1 Hypertensive disease (401-405) 165 4.5 5.7 306 5.0 Ischaemic heart disease (410-414) 634 17.5 348 982 16.1 14.0 Heart failure (428) 651 17.9 474 19.1 1 125 18.4 Cerebrovascular disease (430-438) 179 4.9 116 4.7 295 4.8 Pneumonia and influenza (480-487) 1 074 29.6 668 26.9 1 742 28.5 Nephritis, nephrotic syndrome and nephrosis (580–589) 198 5.5 117 4.7 315 5.2 Nephritis, nephrotic syndrome and nephrosis (580-589) 100.0 100.0 100.0 1 692 Reported alone 48 119 6.1 71 7.9 7.0 Reported with Diabetes (250) 56 7.1 59 6.5 115 6.8 Ischaemic heart disease (410-414) 212 26.9 180 19.9 392 23.2 Heart failure (428) 227 221 28.0 25.1 448 26.5 Cerebrovascular disease (430-438) 63 8.0 82 9.1 145 8.6 Pneumonia and influenza (480–487) 105 13.3 9.1 187 11.1 Chronic obstructive pulmonary disease and allied conditions (490–496) 70 8.9 47 5.2 117 6.9

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2.6 CAUSES OF DEATH, Multiple Causes and Underlying Cause

Males..... Females..... Persons..... Multiple cause/underlying cause and ICD code no. % no. % 100.0 Septicaemia (038) 2 775 100.0 2 781 5 556 100.0 Reported as underlying cause 304 11.0 366 13.2 670 12.1 Reported in association with an underlying cause of 626 15.9 Malignant neoplasms (140-208) 22.6 442 1 068 19.2 Diabetes mellitus (250) 119 4.3 129 4.6 248 4.5 Ischaemic heart disease (410-414) 133 4.8 139 5.0 272 4.9 Cerebrovascular disease (430–438) 119 4.3 130 4.7 249 4.5 Pneumonia and influenza (480-487) 185 6.7 150 5.4 335 6.0 Malignant neoplasms (140-208) 22 468 100.0 16 709 100.0 39 177 100.0 Reported as underlying cause 19 590 87.2 14 970 89.6 34 560 88.2 Reported in association with an underlying cause of 1 573 Ischaemic heart disease (410-414) 1 035 4.6 538 3.2 4.0 Cerebrovascular disease (430-438) 317 1.4 235 1.4 552 1.4 Diabetes mellitus (250) 5 036 100.0 100.0 4 418 100.0 9 454 Reported as underlying cause 1 424 1 327 30.0 29.1 28.3 2 751 Reported in association with an underlying cause of 817 484 1 301 Malignant neoplasms (140–208) 16.2 11.0 13.8 Ischaemic heart disease (410-414) 1 366 27.1 1 130 25.6 2 496 26.4 Cerebrovascular disease (430-438) 355 7.0 432 9.8 787 8.3 Hereditary and degenerative diseases of the central nervous system (330–337) 2 234 100.0 2 415 100.0 4 649 100.0 Reported as underlying cause 947 42.4 1 085 44.9 2 032 43.7 Reported in association with an underlying cause of Ischaemic heart disease (410-414) 293 13.1 300 12.4 593 12.8 Cerebrovascular disease (430-438) 212 9.5 290 12.0 502 10.8 Pneumonia and influenza (480-487) 137 6.1 132 5.5 269 5.8 Hypertensive disease (401–405) 5 261 100.0 6 8 7 0 100.0 12 131 100.0 Reported as underlying cause 410 730 10.6 1 140 9.4 7.8 Reported in association with an underlying cause of Malignant neoplasms (140-208) 593 11.3 543 7.9 1 136 9.4 Diabetes mellitus (250) 292 330 622 5.1 5.6 4.8 Ischaemic heart disease (410-414) 2 117 40.2 2 342 34.1 4 459 36.8 Cerebrovascular disease (430-438) 922 17.5 1 653 24.1 2 575 21.2 Ischaemic heart disease (410-414) 20 750 100.0 17 187 100.0 37 937 100.0 Reported as underlying cause 15 024 72.4 12 801 74.5 27 825 73.3 Reported in association with an underlying cause of Malignant neoplasms (140–208) 1 359 741 4.3 2 100 6.5 5.5 Diabetes mellitus (250) 824 4.0 661 3.8 1 485 3.9 Cerebrovascular disease (430-438) 494 2.4 599 3.5 1 093 2.9 Chronic obstructive pulmonary disease and allied conditions (490–496) 634 3.1 348 2.0 982 2.6 Heart failure (428) 7 338 100.0 8 986 100.0 16 324 100.0 Reported as underlying cause 988 13.5 1 567 17.4 2 555 15.7 Reported in association with an underlying cause of Malignant neoplasms (140-208) 681 9.3 578 6.4 1 259 7.7 Ischaemic heart disease (410-414) 33.8 2 480 5 407 2 927 32.6 33.1 Cerebrovascular disease (430-438) 232 3.2 442 4.9 674 4.1 Pneumonia and influenza (480–487) 258 3.5 331 3.7 589 3.6 Chronic obstructive pulmonary disease and allied conditions (490-496) 651 8.9 474 5.3 1 125 6.9 Cerebrovascular disease (430-438) 8 573 100.0 11 125 100.0 19 698 100.0 Reported as underlying cause 4 812 56.1 7 170 64.4 11 982 60.8 Reported in association with an underlying cause of 1 208 Malignant neoplasms (140-208) 724 8.4 484 4.4 6.1 Diabetes mellitus (250) 301 3.5 271 2.4 572 2.9 Ischaemic heart disease (410-414) 1 097 12.8 1 184 10.6 2 281 11.6 Pneumonia and influenza (480–487) 208 2.4 243 2.2 451 2.3

2.6 CAUSES OF DEATH, Multiple Causes and Underlying Cause continued

	Malos		Fomalos		Porcons	
	iviales	Males			Persons	
Multiple cause/underlying cause and ICD code	no.	%	no.	%	no.	%
	• • • • • • • • •		• • • • • • • •	• • • • • •	• • • • • • •	• • • • •
Diseases of arteries, arterioles and capillaries (440–448)	4 603	100.0	4 244	100.0	8 847	100.0
Reported as underlying cause	1 415	30.7	1 330	31.3	2 745	31.0
Reported in association with an underlying cause of						
Malignant neoplasms (140–208)	254	5.5	101	2.4	355	4.0
Ischaemic heart disease (410–414)	1 543	33.5	1 234	29.1	2 777	31.4
Cerebrovascular disease (430–438)	585	12.7	876	20.6	1 461	16.5
Pneumonia and influenza (480–487)	7 947	100.0	7 623	100.0	15 570	100.0
Reported as underlying cause	2 049	25.8	2 530	33.2	4 579	29.4
Reported in association with an underlying cause of						
Malignant neoplasms (140–208)	1 694	21.3	1 013	13.3	2 707	17.4
Hereditary and degenerative diseases of the central						
nervous system (330-337)	238	3.0	227	3.0	465	3.0
Ischaemic heart disease (410–414)	573	7.2	541	7.1	1 114	7.2
Heart failure (428)	219	2.8	327	4.3	546	3.5
Cerebrovascular disease (430–438)	639	8.0	746	9.8	1 385	8.9
Chronic obstructive pulmonary disease and						
allied conditions (490–496)	1 074	13.5	668	8.8	1 742	11.2
Chronic obstructive pulmonary disease and						
allied conditions (490–496)	8 733	100.0	5 422	100.0	14 155	100.0
Reported as underlying cause	3 628	41.5	2 486	45.9	6 114	43.2
Reported in association with an underlying cause of						
Malignant neoplasms (140–208)	1 443	16.5	572	10.5	2 015	14.2
Ischaemic heart disease (410–414)	1 716	19.6	1 037	19.1	2 753	19.4
Cerebrovascular disease (430–438)	302	3.5	232	4.3	534	3.8
Nephritis, nephrotic syndrome and nephrosis (580–589)	5 304	100.0	4 560	100.0	9 864	100.0
Reported as underlying cause	789	14.9	903	19.8	1 692	17.2
Reported in association with an underlying cause of						
Malignant neoplasms (140–208)	1 001	18.9	564	12.4	1 565	15.9
Diabetes (250)	270	5.1	273	6.0	543	5.5
Ischaemic heart disease (410–414)	1 018	19.2	798	17.5	1 816	18.4
Heart failure (428)	179	3.4	217	4.8	396	4.0
Diseases of arteries, arterioles and capillaries (440–448)	189	3.6	165	3.6	354	3.6
Pneumonia and influenza (480–487)	198	3.7	130	2.9	328	3.3

2.7 NATURE OF INJURY, By External Cause

	ACCIDENTS	S					
Nature of injury or poisoning and ICD code	Motor vehicle traffic accidents (E810–E819)	Accidental poisoning (E850–E869)	falls	Accidents caused by fire and flames (E890–E899)	Accidental drowning and submersion (E910)	Other	Total
			• • • • • • • •	• • • • • • • •	• • • • • • • • •	• • • • • •	• • • • •
	%	MALES %	%	%	%	%	%
Total injuries (N800-N999)	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Fractures (N800–N829)	20.6	_	42.5	_	1.0	8.4	17.7
Intracranial injury, excluding those with skull fracture (N850–N854)	21.4	0.3	24.4	_	2.0	13.2	16.1
Internal injury of chest, abdomen and		0.0			2.0	20.2	10.1
pelvis (N860-N869)	19.4	_	2.9	_	0.5	13.5	11.6
Open wound (N870–N897)	1.3	_	0.5	_	_	3.2	1.2
Burns (N940–N949)	0.9	_	0.1	44.7	_	1.6	1.6
Certain traumatic complications and unspecifed injuries (N958–N959) Poisoning by drugs, medicaments and	28.2	0.1	14.6	8.7	_	16.8	18.2
biological substances (N960–N979) Toxic effects of substances chiefly non-medical	0.2	81.1	0.4	_	0.5	0.4	12.4
as to source (N980–N989)	0.4	14.8	0.4	43.7	0.5	1.3	3.6
Other and unspecified effects of external causes (N990–N995)	0.6	0.3	0.5	_	95.4	18.5	7.4
	• • • • • • • •						
	no.	no.	no.	no.	no.	no.	no.
Total injuries	2 294	777	855	103	197	957	5 183
		FEMALES	• • • • • • • •	• • • • • • • •		• • • • • •	• • • •
	%	%	%	%	%	%	%
Total injuries (N800-N999)	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Fractures (N800–N829)	19.5	0.3	54.9	_	_	2.4	28.2
Intracranial injury, excluding those with skull						40.0	
fracture (N850–N854) Internal injury of chest, abdomen and	20.1	0.7	12.0	_	_	10.6	12.7
pelvis (N860–N869)	19.5	_	1.1	1.9	_	5.1	7.6
Open wound (N870–N897)	1.4	_	0.5	_	_	2.7	1.0
Burns (N940–N949)	0.5	0.3	0.1	33.3	_	4.1	1.4
Certain traumatic complications and unspecifed injuries (N958–N959) Poisoning by drugs, medicaments and	31.8	_	15.1	5.6	_	13.0	18.2
biological substances (N960–N979) Toxic effects of substances chiefly non-medical	0.3	83.3	0.2	_	3.2	0.3	10.1
as to source (N980-N989)	0.2	11.8	_	55.6	3.2	1.4	2.8
Other and unspecified effects of external causes (N990–N995)	0.6	1.0	0.4	_	93.5	15.1	4.4
	• • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • • • •	• • • • • •	• • • •
	no.	no.	no.	no.	no.	no.	no.
Total injuries	881	306	1 015	54	62	292	2 610

2.7 NATURE OF INJURY, By External Cause continued

IN	TENTIONAL	INJURY	AND	OTHER
			–	•

Nature of injury or poisoning and ICD code	Suicide (E950–E959)	Homicide (E960–E969)	Other	Total	External causes
• • • • • • • • • • • • • • • • • • • •					
	MALES				
	%	%	%	%	%
Total injuries (N800-N999)	100.0	100.0	100.0	100.0	100.0
Fractures (N800–N829)	1.7	2.8	3.6	1.9	12.0
Intracranial injury, excluding those with skull fracture (N850–N854)	2.6	26.2	4.2	FO	10.3
Internal injury of chest, abdomen and	3.6	26.2	4.3	5.8	12.3
pelvis (N860–N869)	1.8	12.1	5.0	2.9	8.4
Open wound (N870–N897)	9.0	36.5	12.2	11.7	5.1
Burns (N940-N949)	0.5	1.1	2.2	0.6	1.3
Certaiin traumatic complications and unspecifed					
injuries (N958–N959)	7.1	6.4	3.6	6.9	14.1
Poisoning by drugs, medicaments and biological substances (N960–N979)	10.7	1.4	46.0	11 5	10.1
Toxic effects of substances chiefly non-medical	10.7	1.4	46.8	11.5	12.1
as to source (N980–N989)	21.5	1.8	11.5	19.2	9.2
Other and unspecified effects of external	21.0	1.0	11.0	10.2	0.2
causes (N996-N999)	42.8	5.3	7.9	37.5	18.4
	no.	no.	no.	no.	no.
Total injuries	2 533	282	139	2 954	8 137
• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • •	• • • • • • • • •	• • • • • • • •	• • • • • • •	• • • • • • • •
	FEMALES				
	%	%	%	%	%
Total injuries (N800-N999)	100.0	100.0	100.0	100.0	100.0
Fractures (N800-N829)	1.5	3.5	6.0	2.1	21.2
Intracranial injury, excluding those with skull					
fracture (N850–N854)	1.5	18.8	3.0	4.2	10.4
Internal injury of chest, abdomen and pelvis (N860–N869)	0.0	F 0	2.0	4.7	
Open wound (N870–N897)	0.8 4.3	5.6 38.2	3.0 3.0	1.7 9.3	6.0 3.2
Burns (N940–N949)	1.2	2.1	3.0	1.3	1.3
Certaiin traumatic complications and unspecifed	1.2	2.1		1.0	1.0
injuries (N958-N959)	7.1	11.8	6.0	7.7	15.4
Poisoning by drugs, medicaments and biological					
substances (N960–N979)	38.6	1.4	65.7	34.9	16.7
Toxic effects of substances chiefly non-medical	45.0	2.5	0.0	42.4	F 7
as to source (N980–N989) Other and unspecified effects of external causes	15.9	3.5	6.0	13.4	5.7
(N996–N999)	28.1	12.5	6.0	24.2	9.7
			5.5		
	no.	no.	no.	no.	no.
Total injuries	747	144	67	958	3 568
Total injuries	141	144	67	900	3 308

2.7 NATURE OF INJURY, By External Cause continued

		• • • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • • • •	• • • • • •	• • • • •
	ACCIDENTS	i					
Nature of injury or poisoning and ICD code	Motor vehicle traffic accidents (E810–E819)	Accidental poisoning (E850–E869)	falls	Accidents caused by fire and flames (E890–E899)	Accidental drowning and submersion (E910)	Other	Total
		PERSONS	• • • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • •	• • • • •
	%	%	%	%	%	%	%
Total injuries (N800-N999)	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Fractures (N800-N829)	20.3	0.1	49.2	_	0.8	7.0	21.2
Intracranial injury, excluding those with skull fracture (N850–N854)	21.1	0.4	17.7	_	1.5	12.6	14.9
Internal injury of chest, abdomen and pelvis (N860–N869)	19.4		1.9	0.6	0.4	11.5	10.2
Open wound (N870–N897)	1.3	_	0.5		0.4	3.1	1.1
Burns (N940–N949)	0.8	0.1	0.5		_	2.2	1.5
Certain traumatic complications and unspecifed injuries (N958–N959) Poisoning by drugs, medicaments and	29.2	0.1	14.9	7.6	_	15.9	18.2
biological substances (N960-N979)	0.3	81.7	0.3	_	1.2	0.4	11.6
Toxic effects of substances chiefly non-medic as to source (N980–N989) Other and unspecified effects of external	0.4	13.9	0.2	47.8	1.2	1.3	3.3
causes (N990–N995)	0.6	0.5	0.4	_	95.0	17.7	6.4
	• • • • • • •		• • • • • • • •		• • • • • • • •	• • • • • • •	• • • • •
	no.	no.	no.	no.	no.	no.	no.
Total injuries	3 175	1 083	1 870	157	259	1 249	7 793

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2.7 NATURE OF INJURY, By External Cause continued

Nature of injury or poisoning and ICD code	Suicide (E950–E959)	Homicide (E960–E969)	Other	Total	External causes
	PERSONS	• • • • • • • •			• • • • • • • •
	%	%	%	%	%
Total injuries (N800-N999)	100.0	100.0	100.0	100.0	100.0
Fractures (N800–N829)	1.6	3.1	4.4	1.9	14.8
Intracranial injury, excluding those with skull					
fracture (N850-N854)	3.1	23.7	3.9	5.4	11.8
Internal injury of chest, abdomen and					
pelvis (N860-N869)	1.6	9.9	4.4	2.6	7.7
Open wound (N870-N897)	7.9	37.1	9.2	11.1	4.5
Burns (N940-N949)	0.7	1.4	1.5	0.8	1.3
Certaiin traumatic complications and unspecifed injuries (N958–N959)	7.1	8.2	4.4	7.1	14.5
Poisoning by drugs, medicaments and biological substances (N960–N979)	17.0	1.4	52.9	17.2	13.5
Toxic effects of substances chiefly non-medical as to source (N980–N989)	20.2	2.3	9.7	17.7	8.2
Other and unspecified effects of external causes					
(N996-N999)	39.4	7.7	7.3	34.3	15.7
	• • • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • •	• • • • • • • •
	no.	no.	no.	no.	no.
Total injuries	3 280	426	206	3 912	11 705

SECTION 3 PERINATAL DEATHS

INTRODUCTION

Perinatal deaths comprise stillbirths (fetal deaths) and deaths of infants within the first 28 days of life (neonatal deaths). They include infants and fetuses weighing at least 400 grams or having a gestational age of 20 weeks. Prior to the issue of the 1997 Causes of Death publication, published data relating to perinatal deaths were based upon the World Health Organisation (WHO) recommended definition for compiling national perinatal statistics. This definition includes infants and fetuses weighing at least 500 g or having a gestational age of 22 weeks (see Explanatory Notes, paragraphs 4–8 for further information on perinatal death statistics).

To assist with the transition to the 400 g/20 weeks definition, this section includes summary data tabulated according to the WHO definition (see Table 3.1). Further unpublished tables based on this definition are available from the ABS (all other tables and information in this publication are based on the 400 g/20 weeks definition).

There were 2,090 perinatal deaths registered in Australia in 1998, comprising 1,336 fetal deaths and 754 neonatal deaths. Fetal deaths decreased by 12% on the number registered in 1997 while neonatal deaths decreased by 6%.

Between 1989 and 1998 the perinatal death rate declined from 11.0 to 8.3 deaths per 1,000 births. Over this period the neonatal death rate has fallen relatively more than the fetal death rate (4.5 to 3.0 deaths per 1,000 births and 6.5 to 5.3 deaths per 1,000 births respectively).

CAUSES OF PERINATAL DEATHS

In 1998, medical certifiers did not provide a specific cause of death in the fetus or infant for 26% of all perinatal deaths. The proportion of deaths with an 'unspecified' cause has increased over the last 10 years from the 16% recorded in 1989. The absence of a specific cause of death largely affects fetal deaths. While 40% of all fetal deaths registered in 1998 reported no specific cause, the corresponding figure for neonatal deaths was only 1%.

The major specific groupings of causes under which perinatal deaths were reported in 1998 included 'Hypoxia, birth asphyxia and other respiratory conditions' (23% of the total) and 'Congenital anomalies' which accounted for a further 20%. However, the relative importance of particular causes varied between fetal and neonatal deaths.

Hypoxia, birth asphyxia and other respiratory conditions accounted for 26% of total fetal deaths registered in 1998, while congenital anomalies accounted for 12% and slow fetal growth, fetal malnutrition and immaturity, contributed a further 11%.

Congenital anomalies accounted for 32% of total neonatal deaths registered in 1998. Hypoxia, birth asphyxia and other respiratory conditions were responsible for a further 17% while slow fetal growth, fetal malnutrition and immaturity accounted for 15%.

CAUSES OF PERINATAL DEATHS continued

PERINATAL DEATHS, Main Condition in Fetus/Infant

	• • • • • • • • • •								
	1989	1994	1998						
Conditions	%	%	%						
	• • • • • • • • • •	• • • • • • • • •							
FETAL DE	EATHS								
Respiratory conditions(a)	42.0	34.0	26.0						
Congenital anomalies	11.6	14.3	12.4						
Slow fetal growth and fetal malnutrition	6.0	5.7	6.3						
Unspecified	27.4	31.9	40.1						
NEONATAL DEATHS									
Respiratory conditions(a)	29.2	24.6	17.0						
Congenital anomalies	31.3	34.0	32.4						
Slow fetal growth and fetal malnutrition	0.7	0.5	0.8						
Unspecified	0.2	1.4	1.5						
PERINATAL DEATHS									
Respiratory conditions(a)	36.7	30.2	22.8						
Congenital anomalies	19.7	22.2	19.6						
Slow fetal growth and fetal malnutrition	3.8	3.6	4.3						
Unspecified	16.2	19.6	26.2						
	• • • • • • • • • •	• • • • • • • • •							

⁽a) Hypoxia, birth asphyxia and other respiratory conditions.

TRENDS IN CAUSES OF PERINATAL DEATHS

As mentioned previously, it has become less common in recent years for medical certifiers to specify a cause of death in the fetus or infant. As a result, the proportion of fetal deaths reported without a specified cause has risen from 27% in 1989 to 40% in 1998. Deaths from hypoxia, birth asphyxia and other respiratory conditions decreased markedly from 42% of the total in 1989 to 26% in 1998. Over this period the proportions of fetal deaths attributed to slow fetal growth, fetal malnutrition and immaturity and congenital anomalies have remained relatively stable.

The major change in neonatal deaths since 1989, has been a decrease in hypoxia, birth asphyxia and other respiratory conditions from 29% of total deaths to 17% in 1998.

CONDITIONS IN MOTHER

Perinatal deaths differ from general deaths in that a condition may be reported in the mother, the infant, or in both. In 1998, no condition was reported in the mother in 672 (32%) of the 2,090 perinatal deaths recorded. Complications of the placenta, cord and membrane were present in 42% of the cases where maternal conditions were reported in 1998, while multiple pregnancy accounted for a further 8% of these cases.

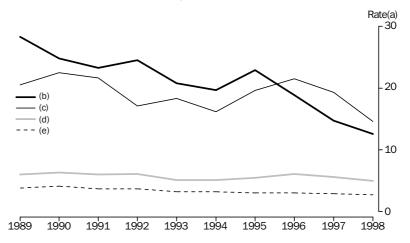
MULTIPLE BIRTHS

Multiple births (twins or more) account for nearly 3% of babies born annually¹. The perinatal death rate for multiple births in 1998, was 27.0 per 1,000 relevant births, nearly four times the corresponding rate of 7.7 recorded for single births.

The fetal death rate for multiple births in 1998, was 14.6, the lowest rate recorded in the last ten years. The rate for fetal deaths for single births was 5.0. This figure was also a ten year low.

For 1998, the neonatal rate for multiple births was 12.6. While this represents a 55% decrease on the rate of 28.3 recorded in 1989, it is still considerably higher than the 1998 rate for single births of 2.7.

PERINATAL DEATHS, Rates, Multiple Births



- (a) Per 1,000 relevant births.
- (b) Neonatal deaths in multiple births.
- (c) Fetal deaths in multiple births.
- (d) Fetal deaths in single births.
- (e) Neonatal deaths in single births.

AGE OF MOTHER

The majority of births in 1998 occurred among women aged 20 to 39 years, with 5% of total births registered to mothers aged less than 20 years and 2.3% to those aged 40 years and over². While actual numbers are relatively small (see table 3.4), perinatal deaths registered to mothers aged less than 20 years (7% of total) and aged 40 years and over (4%) are proportionally higher than the percentage contributions of these two age groups to total births. The changes in the perinatal death rate for these two age groups over the last ten years have shown different trends. There has been a reduction of about a third in the rate for mothers over 40 years while the rate for mothers under 20 years has remained fairly constant.

¹ ABS, Births Australia (Cat. no. 3301.0).

² ABS, Births Australia (Cat. no. 3301.0).

3.1 FETAL, NEONATAL AND PERINATAL DEATHS, 500 Grams/22 Weeks(a)

FETAL DEATHS..... NEONATAL DEATHS...... PERINATAL DEATHS..... Year Males Females Persons Males Persons Males Females Females Persons NUMBER 1989 1 451 1 058 769 682 595 463 1 364 1 145 2 509 1990 888 702 1 590 660 462 1 122 2 712 1 548 1 164 701 1 478 714 1 493 577 1 245 571 441 1 012 596 419 1 015 511 375 886 2 490 2 508 1991 777 1 133 1992 779 1 375 668 1 179 2 131 1993 952 1994 692 515 1 207 517 351 868 1 209 866 2 075 344 811 1 148 946 1995 681 467 602 1 283 2 094 1996 652 1 411 446 313 759 1 205 965 2 170 310 284 718 1 100 1997 1 280 692 588 408 898 1 998 1998 590 532 1 122 395 284 679 985 816 1 801 RATE(b) 5.5 5.8 5.5 6.0 5.6 5.7 5.5 5.6 r5.9 1989 3.8 4.2 10.6 4.6 9.3 9.9 1990 6.5 4.9 3.6 4.3 11.4 9.1 10.3 5.6 5.5 1991 5.9 4.3 3.9 9.1 3.5 3.8 10.2 9.6 1992 5.7 5.6 4.4 3.3 10.1 8.8 9.4 1993 5.0 4.5 3.0 3.4 8.8 4.8 3.8 7.5 8.2 5.2 4.1 4.7 5.2 4.8 5.0 5.8 5.3 5.5 4 9 5.1 2.8 2.8 2.5 3.4 3.2 1994 3.9 9.1 6.9 1995 3.6 8.7 r7.5 8.1 1996 3.4 3.0 9.2 7.8 8.5 1997 5.3 4.8 5.1 3.2 2.5 2.9 8.5 7.3 7.9 2.3 2.7 1998 4.6 4.4 4.5 3.1 7.7 6.7 7.2

⁽a) See Explanatory Notes, paragraph 5 for further information.

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

3.2 FETAL, NEONATAL AND PERINATAL DEATHS, 400 Grams/20 Weeks(a)

FETAL DEATHS..... NEONATAL DEATHS...... PERINATAL DEATHS..... Year Males Females Males Persons Males Females Persons Females Persons NUMBER 770 1 632 1989 862 633 506 1 139 1 495 1 276 2 771 1990 791 1 780 706 511 1 217 989 1 695 1 302 2 755 790 1 658 812 1 701 674 1 439 616 481 1 097 664 466 1 130 1 484 1 271 1991 868 466 1 130 409 1992 889 1 553 1 278 2 831 563 1 328 1 083 **2 411** 1993 765 1994 798 614 1 412 561 388 949 1 359 1 002 2 361 394 1 512 908 1 319 1 101 1995 707 514 805 2 420 2 547 1996 900 768 1 668 509 370 879 1 409 1 138 443 362 1 516 1997 829 687 805 1 272 1 049 2 321 1998 707 629 1 336 435 319 754 1 142 948 2 090 RATE(b) 1989 6.7 4.5 6.3 6.5 4.9 4.1 11.6 10.4 11.0 1990 7.3 6.2 6.7 5.2 4.0 4.6 12.4 10.2 11.3 1991 6.3 4.7 3.8 4.3 4.3 11.2 10.1 10.6 6.5 6.4 1992 6.5 6.3 6.4 4.9 3.6 11.4 9.9 10.7 1993 5.5 3.2 3.7 5.7 5.3 4.2 9.9 8.5 9.2 3.1 3.7 3.2 3.5 4.9 5.4 5.6 5.9 3.1 3.2 1994 6.0 4.2 10.2 8.0 9.1 8.8 10.0 1995 6.1 3.9 9.4 3.9 3.0 3.5 3.4 3.0 3.2 3.4 2.6 3.0 6.2 6.5 10.7 1996 r6.8 9.2 10.0 1997 6.4 5.6 6.0 9.8 8.5 9.2 8.9 7.8 1998 5.5 5.1 5.3 8.3

⁽a) See Explanatory Notes, paragraph 4 for further information.

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

3.3 PERINATAL DEATHS(a), By Usual Residence of Mother

Year	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust.
				NUMBI	ER				
1989	990	652	455	233	241	78	81	41	2 771
1990	1 070	781	461	219	264	75	65	62	2 997
1991	969	644	492	178	264	82	66	60	2 755
1992	1 097	625	491	193	246	64	73	42	2 831
1993	852	549	444	178	208	69	77	34	2 411
1994	815	601	419	165	210	58	62	31	2 361
1995	785	582	459	192	235	64	62	41	2 420
1996	959	542	480	165	255	62	45	39	2 547
1997	861	522	430	152	202	70	56	28	2 321
1998	695	470	452	131	186	59	48	49	2 090
				RATE(n)				
				IVAIL(I	J)				
1989	11.5	10.1	10.8	11.8	9.6	11.4	23.6	9.8	11.0
1990	11.7	11.6	10.2	11.0	10.4	10.6	18.1	13.8	11.3
1991	11.0	9.8	11.1	9.0	10.3	11.9	18.2	12.5	10.6
1992	11.8	9.4	10.6	9.9	9.8	9.1	19.3	9.4	10.7
1993	9.5	8.5	9.4	8.8	8.3	10.0	21.1	7.7	9.2
1994	9.2	9.3	8.9	8.5	8.3	8.4	r16.9	6.9	9.1
1995	8.9	9.2	9.8	9.9	9.3	9.7	16.3	9.2	9.4
1996	11.0	8.8	10.0	8.6	10.2	9.5	12.6	8.8	10.0
1997	9.8	r8.5	9.1	8.2	8.1	11.6	15.5	6.6	9.2
1998	8.1	7.7	9.6	7.2	7.5	9.8	13.1	12.2	8.3

⁽a) Based on 400 grams/20 weeks definition. See Explanatory Notes, paragraph 4

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

3.4 PERINATAL DEATHS(a), By Age of Mother

AGE OF MOTHER (YEARS)

Year	Under 20	20-24	25–29	30–34	35–39	40 and over	Not stated	Tota/	
• • • • • • • • • •	• • • • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • •				• • • • • •	
NUMBER									
1000	040	500	000	607	004	C4	60	0.774	
1989 1990	210	593	899	687	261	61	60	2 771	
1990	233 226	610 570	977 831	771 739	303 272	71 76	32 41	2 997 2 755	
1991	r201	570 591	843	739 744	302	75 75	r75	2 831	
1993	r168	488	643 718	627	281	75 56	r73	2 411	
1993	1100	400	710	021	201	56	173	2 411	
1994	155	461	651	651	311	68	64	2 361	
1995	r181	487	670	614	289	67	r112	2 420	
1996	r177	490	699	684	319	92	r86	2 547	
1997	186	408	666	583	357	65	56	2 321	
1998	155	357	605	524	330	74	45	2 090	
• • • • • • • • • • •	• • • • • • • • • •	• • • • • • • •				• • • • • • • • •	• • • • • • • • •	• • • • • •	
			RA	TE(b)					
1000	440	44.4	0.0	40.5	40.0	40.5		44.0	
1989	14.6	11.4	9.3	10.5	12.3	r19.5	• •	11.0	
1990 1991	15.3	11.4	10.0	10.9	13.2	20.0	• •	11.3	
1991	15.2	11.0 11.1	9.0 9.2	10.3	11.3	20.8	• •	10.6	
1992	14.1 r12.7	9.6	9.2 8.1	9.8 8.1	11.6 10.4	18.0 13.1	• •	10.7 9.2	
1993	112.1	9.6	8.1	8.1	10.4	13.1	• •	9.2	
1994	12.0	9.3	7.6	8.4	10.8	14.8		9.1	
1995	r14.2	9.3 10.2	8.0	7.9	9.5	13.4	• •	9.4	
1996	r14.2	10.2	8.4	7.9 8.9	9.5	17.3		10.0	
1990	15.0	9.6	8.0	7.6	10.7	12.1	• •	9.2	
1998	13.0	8.9	7.4	6.9	9.6	12.1	• •	8.3	
1000	13.0	0.9	7.4	0.9	3.0	12.0	• •	0.5	

⁽a) Based on 400 grams/20 weeks definition. See Explanatory Notes, paragraph 4 $\,$ for further information.

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

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

	FETAL DEATH	IS	NEONATAL DEATHS		PERINATAL DEATHS	
Cause of death and ICD code	Males	Females	Males	Females	Males	Females
TOTAL	• • • • • •		• • • • • •	• • • • • • •	• • • • • •	• • • • •
All causes	707	629	435	319	1 142	948
MAIN CONDITION IN	FETUS/IN	FANT	• • • • • •	• • • • • • •	• • • • • •	• • • • •
Congenital anomalies (740–759)	87	79	141	103	228	182
Anencephalus and similar anomalies (740)	1	3	11	3	12	6
Spina bifida (741)	4	9	3	2	7	11
Congenital hydrocephalus (742.3)	4	5	5	_	9	5
Heart and circulatory system (745–747)	13	11	39	28	52	39
Respiratory system (748)	_	_	23	19	23	19
Genital organs and urinary system (752, 753)	8	6	8	6	16	12
Musculoskeletal system and limbs (754–756) Chromosomal anomalies (758)	8 29	6 25	15 18	9 17	23 47	15 42
Certain conditions originating in the perinatal period (760–779)	617	543	266	190	883	733
Slow fetal growth, fetal malnutrition and immaturity (764, 765)	80	62	62	48	142	110
Slow fetal growth and fetal malnutrition (764)	43	41	5	1	48	42
Extreme immaturity (765.0)	37	21	57	46	94	67
Birth trauma (767)	_	3	25	21	25	24
Birth injury to brain, spine or spinal cord (767.0, 767.4)	_	2	25	20	25	22
Hypoxia, birth asphyxia and other respiratory conditions (768–770) Fetal death from asphyxia or anoxia before onset of labour or at	188	160	78	50	266	210
unspecified time (768.0)	145	135	_	_	145	135
Fetal death from asphyxia or anoxia during labour (768.1)	32	18		_	32	18
Fetal distress or birth asphyxia in liveborn infant (768.2–768.9)	_	_	15	19	15	19
Respiratory distress syndrome (769)	_	_	24	11	24	11
Massive aspiration syndrome (770.1)	7	3	6	4	13	7
Atelectasis (770.4–770.5)	_	_	6	1	6	1
Fetal and neonatal haemorrhage (772)	10	13	43	23	53	36
Intraventricular haemorrhage (772.1)	_	_	38	22	38	22
Other conditions originating in the perinatal period (766, 771, 773–779)	220	205	E0.	40	207	252
Infections specific to the perinatal period (771)	339 14	305 9	58 23	48 21	397 37	353 30
Hydrops fetalis not due to isoimmunization (778.0)	13	5	3	3	16	8
Unspecified (779.9)	271	265	6	5	277	270
			• • • • • •	• • • • • • • •		• • • • •
MAIN CONDITION	IN MOTH	ER				
Maternal conditions which may be unrelated to	440				450	440
present pregnancy (760) Maternal hypothonsis disorders (760.0)	110	88	43	31	153	119
Maternal hypertensive disorders (760.0) Maternal complications of pregnancy (761)	36 81	33 67	19 164	9 93	55 245	42 160
Incompetent cervix (761.0)	13	4	104	93 7	243	11
Polyhydramnios (761.3)	3	3	7	3	10	6
Multiple pregnancy (761.5)	27	26	44	19	71	45
Complications of placenta, cord and membranes (762)	242	230	67	56	309	286
Placenta praevia (762.0)	3	2	1	1	4	3
Other placental separation and haemorrhage (762.1) Other and unspecified morphological and functional	93	59	32	29	125	88
abnormalities of placenta (762.2)	49	51	_	1	49	52
Prolapsed cord (762.4)	7	9	4	3	11	12
Other compression of umbilical cord (762.5)	47 51	54 60	1	1	48	55 75
Other complications of labour and delivery (763)	51	60	20	15	71	75
Breech delivery and extraction (763.0)	3	3	3	3	6	6

⁽a) Based on 400 grams/20 weeks defintion. See Explanatory Notes, paragraph 4 for further information.

••••••••••••••••••••••••••••••

3.6 PERINATAL DEATHS(a), By Birthweight

	BIRTH	WEIGHT	(GRAMS	S)			
Cause of death and ICD code	400- 499	500- 999	1 000- 1 999	2 000- 2 999	3 000- 3 999	4 000 or more	Total(b)
	• • • • • •						
TOTAL							
All causes	281	583	371	408	323	57	2 090
MAIN CONDITION IN F			• • • • •	• • • • • •	• • • • •	• • • • • •	• • • •
	•						
Congenital anomalies (740–759) Anencephalus and similar anomalies (740)	62 —	90 3	91 9	97 3	63 3	3	<i>4</i> 10
Spina bifida (741)	7	7	1	1	1	1	18
Congenital hydrocephalus (742.3)	7	2	1	2	1	_	14
Heart and circulatory system (745–747)	8	9	7	30	35	1	91
Respiratory system (748)	_	7	17	13	5	_	42
Genital organs and urinary system (752, 753)	3	11	5	8	1	_	28
Musculoskeletal system and limbs (754–756)	7	5	8	11	6	_	38
Chromosomal anomalies (758)	19	25	24	17	3	_	89
Certain conditions originating in the perinatal period (760–779)	218	483	273	291	242	53	1 616
Slow fetal growth, fetal malnutrition and immaturity (764, 765)	73	108	41	26	_	_	252
Slow fetal growth and fetal malnutrition (764)	6	18	39	26	_	_	90
Extreme immaturity (765.0) Birth trauma (767)	67 —	90 10	1 5	9	_ 18	 5	161 49
Birth injury to brain, spine or spinal cord (767.0, 767.4)		10	5	9	18	4	45
Hypoxia, birth asphyxia and other respiratory conditions (768–770)	24	125	69	110	111	18	476
Fetal death from asphyxia or anoxia before onset of labour or at		120	00	110		10	110
unspecified time (768.0)	13	49	48	83	68	8	280
Fetal death from asphyxia or anoxia during labour (768.1)	3	15	2	8	14	7	50
Fetal distress or birth asphyxia in liveborn							
infant (768.2–768.9)	1	4	5	8	10	3	34
Respiratory distress syndrome (769)	2	30	3	_	_	_	35
Massive aspiration syndrome (770.1)	_	_	2	4	12	_	20
Atelectasis (770.4–770.5)	_	6	_	1	_	_	7
Fetal and neonatal haemorrhage (772)	3	49	19	7	6	2	89
Intraventricular haemorrhage (772.1) Other conditions originating in the perinatal period (766,	2	43	13	1	_	_	60
771, 773–779)	118	191	139	139	107	28	750
Infections specific to the perinatal period (771)	6	30	16	10	3	1	67
Hydrops fetalis not due to isoimmunization (778.0)	3	4	9	4	3	1	24
Unspecified (779.9)	71	139	99	115	87	12	547
MAIN CONDITION II	MOTHER		• • • • •	• • • • • •	• • • • •		• • • • •
Maternal conditions which may be unrelated to present pregnancy (760)	54	74	51	43	29	13	272
Maternal hypertensive disorders (760.0)	11	32	24	18	9	2	97
Maternal complications of pregnancy (761)	91	186	76	31	4	3	405
Incompetent cervix (761.0) Polyhydramnios (761.3)	15 —	18 4	1		_ 1	_	34 16
Multiple pregnancy (761.5)	21	36	36	12	1	2	116
Complications of placenta, cord and membranes (762)	64	196	98	116	87	14	595
Placenta praevia (762.0)	1	4	2	_	_	_	7
Other placental separation and haemorrhage (762.1)	28	85	34	34	22	2	213
Other and unspecified morphological and functional abnormalities of							
placenta (762.2)	4	21	25	26	16	3	101
Prolapsed cord (762.4)	3	12	3	3	_	_	23
Other compression of umbilical cord (762.5)	2	15	10	35	35	6	103
Other complications of labour and delivery (763)	33	43	17	21	21	6	146
Breech delivery and extraction (763.0)	_	3	2	2	5	_	12
No maternal condition reported	39	84	129	197	182	21	672

⁽a) Based on 400 grams/20 weeks defintion. See Explanatory Notes, paragraph 4 for further information.

⁽b) Including deaths of 'birthweight not stated'.

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r

Cause of death and ICD code 42 and Under 22 22–27 28–31 32–36 37–41 over Total(b)

PERIOD OF GESTATION (COMPLETED WEEKS)......

TOTAL

All causes	149	670	231	355	612	16	2 090
	• • • • • •			• • • • • •			
MAIN CONDITION IN	FETUS/IN	IFANT					
Congenital anomalies (740–759)	46	98	51	78	128	2	410
Anencephalus and similar anomalies (740)	_	3	3	5	6	1	18
Spina bifida (741)	3	13	1	_	1	_	18
Congenital hydrocephalus (742.3)	5	6	_	1	2	_	14
Heart and circulatory system (745–747)	6	10	8	14	51	_	91
Respiratory system (748)	_	8	7	12	13	_	42
Genital organs and urinary system (752, 753)	3	10	3	7	3	_	28
Musculoskeletal system and limbs (754–756)	4	6	6	10	12	_	38
Chromosomal anomalies (758)	16	24	9	15	24	_	89
Certain conditions originating in the perinatal period (760–779)	100	563	177	269	454	14	1 616
Slow fetal growth, fetal malnutrition and immaturity (764, 765) Slow fetal growth and fetal malnutrition (764)	39	125 9	17	28	35 35	1	252
Extreme immaturity (765.0)	39	9 116	15 1	28 —	35 —	1	90 161
Birth trauma (767)		110	2	6	 27	1	49
Birth trading (101) Birth injury to brain, spine or spinal cord (767.0, 767.4)		11	2	6	26	1	49
Hypoxia, birth asphyxia and other respiratory conditions (768–770)	17	129	42	86	185	7	476
Fetal death from asphyxia or anoxia before onset of labour or at	11	123	42	00	100	,	410
unspecified time (768.0)	8	47	28	70	119	4	280
Fetal death from asphyxia or anoxia during labour (768.1)	3	16	1	4	24	2	50
Fetal distress or birth asphyxia in liveborn	_		_	•		_	
infant (768.2–768.9)	2	6	2	3	19	_	34
Respiratory distress syndrome (769)	1	30	2	1	_	_	35
Massive aspiration syndrome (770.1)	_	_	1	2	14	1	20
Atelectasis (770.4–770.5)	_	5	1	_	1	_	7
Fetal and neonatal haemorrhage (772)	4	54	9	9	11	_	89
Intraventricular haemorrhage (772.1)	2	49	6	2	_	_	60
Other conditions originating in the perinatal period (766, 771,							
773–779)	40	244	107	140	196	5	750
Infections specific to the perinatal period (771)	1	39	9	10	8	_	67
Hydrops fetalis not due to isoimmunization (778.0)	3	7	6	5	3	_	24
Unspecified (779.9)	29	148	77	115	160	1	547
			• • • • • •	• • • • • •		• • • • •	• • • •
MAIN CONDITION	IN MOTH	ER					
Maternal conditions which may be unrelated to present							
pregnancy (760)	11	94	47	60	53	2	272
Maternal hypertensive disorders (760.0)	2	31	19	29	14	_	97
Maternal complications of pregnancy (761)	48	233	45	45	23	_	405
Incompetent cervix (761.0)	9	25	_	_	_	_	34
Polyhydramnios (761.3)	_	2	4	4	6	_	16
Multiple pregnancy (761.5)	5	52	19	20	14	_	116
Complications of placenta, cord and membranes (762)	42	202	61	97	178	9	595
Placenta praevia (762.0)	_	5	_	2	_	_	7
Other placental separation and haemorrhage (762.1) Other and unspecified morphological and functional abnormalities	23	87	21	38	41	_	213
of placenta (762.2)		1.1	16	26	20	1	101
Prolapsed cord (762.4)	1	14 17	16 2	26 1	39 2	4	101 23
Other compression of umbilical cord (762.5)	2	8	10	17	63	3	103
Other complications of labour and delivery (763)	25	56	11	17 15	36	3 1	146
Breech delivery and extraction (763.0)	_	4	_	2	5	_	12
No maternal condition reported	23	85	67	138	322	4	672

⁽a) Based on 400 grams/20 weeks defintion. See Explanatory Notes, paragraph

⁴ for further information.

⁽b) Including deaths of 'weeks not stated'.

3.8 PERINATAL DEATHS(a), By Usual Residence

	NSW		VIC		QID		SA	
Particulars	Males	Females	Males	Females	Males	Females	Males	Females
			ETAL DEATH:				• • • • • • • •	• • • • •
Weight at delivery (grams)	264	199	145	152	142	120	46	47
400–499	49	37	19	14	23	19	6	8
500–999	64	48	34	33	37	30	20	11
1 000–1 999 2 000–2 999	45	33	34	30 44	25	24	7	8
3 000 or more	55 47	47 34	24 25	26	25 31	21 24	8	11
Not stated	4	_	9	5	1	2	2	1
Period of gestation (weeks)	264	199	145	152	142	120	46	47
Less than 22	29	13	12	6	8	4	9	5
22–27	83	65	38	35	45	40	14	12
28–36	77	55	56	50	41	37	16	13
37–41	69	62	36	58	43	38	7	16
42 or more Not stated	2 4	3 1	3	2 1	3 2	_ 1	_	1
Not stated	4	1	_	1	2	1	_	_
Age group of mother (years) Less than 20	264 24	199 15	145 7	152 10	142 14	120 3	46 3	47 3
20–24	46	32	23	20	24	25	9	12
25–29	63	52	48	45	49	40	15	9
30–34	74	62	36	43	31	37	10	11
35–39	46	28	22	28	18	12	7	10
40 or more	10	10	8	5	4	3	2	2
Not stated	1	_	1	1	2	_	_	_
		INEU	NATAL DEAT	HS				
Age at death Less than 1 hour 1 hour to under 1 day 1 day to under 1 week	128 23 40 39	104 22 28 24	99 19 25 31	74 18 14 24	114 17 29 33	76 20 22 15	24 4 6 7	14 3 5 2
Less than 1 hour 1 hour to under 1 day	23 40	104 22 28	99 19 25	74 18 14	17 29	20 22	4 6 7 7	3 5
Less than 1 hour 1 hour to under 1 day 1 day to under 1 week 1 week to under 4 weeks Weight at delivery (grams)	23 40 39 26	104 22 28 24 30	99 19 25 31 24	74 18 14 24 18	17 29 33 35	20 22 15 19	4 6 7 7	3 5 2 4
Less than 1 hour 1 hour to under 1 day 1 day to under 1 week 1 week to under 4 weeks Weight at delivery (grams) 400–499	23 40 39 26 128	104 22 28 24 30 104	99 19 25 31 24 99	74 18 14 24 18	17 29 33 35 114 9	20 22 15 19 76 9	4 6 7 7 24 1	3 5 2 4 14 1
Less than 1 hour 1 hour to under 1 day 1 day to under 1 week 1 week to under 4 weeks Weight at delivery (grams) 400–499 500–999	23 40 39 26 128 7 47	104 22 28 24 30 104 11 37	99 19 25 31 24 99 12 37	74 18 14 24 18 74 9	17 29 33 35 114 9 38	20 22 15 19 76 9 29	4 6 7 7 24 1 6	3 5 2 4 14 1 4
Less than 1 hour 1 hour to under 1 day 1 day to under 1 week 1 week to under 4 weeks Weight at delivery (grams) 400–499 500–999 1 000–1 999	23 40 39 26 128 7 47 21	104 22 28 24 30 104 11 37	99 19 25 31 24 99 12 37 17	74 18 14 24 18 74 9 12 16	17 29 33 35 114 9 38 15	20 22 15 19 76 9 29	4 6 7 7 24 1 6 5	3 5 2 4 14 1 4
Less than 1 hour 1 hour to under 1 day 1 day to under 1 week 1 week to under 4 weeks Weight at delivery (grams) 400–499 500–999 1 000–1 999 2 000–2 999	23 40 39 26 128 7 47 21 28	104 22 28 24 30 104 11 37 17	99 19 25 31 24 99 12 37 17 16	74 18 14 24 18 74 9 12 16 14	17 29 33 35 114 9 38 15 25	20 22 15 19 76 9 29 11	4 6 7 7 24 1 6 5 4	3 5 2 4 14 1 4 2 2
Less than 1 hour 1 hour to under 1 day 1 day to under 1 week 1 week to under 4 weeks Weight at delivery (grams) 400–499 500–999 1 000–1 999	23 40 39 26 128 7 47 21	104 22 28 24 30 104 11 37	99 19 25 31 24 99 12 37 17	74 18 14 24 18 74 9 12 16	17 29 33 35 114 9 38 15	20 22 15 19 76 9 29	4 6 7 7 24 1 6 5	3 5 2 4 14 1 4
Less than 1 hour 1 hour to under 1 day 1 day to under 1 week 1 week to under 4 weeks Weight at delivery (grams) 400–499 500–999 1 000–1 999 2 000–2 999 3 000 or more Not stated Period of gestation (weeks)	23 40 39 26 128 7 47 21 28 18 7	104 22 28 24 30 104 11 37 17 17 19 3	99 19 25 31 24 99 12 37 17 16 14 3	74 18 14 24 18 74 9 12 16 14 19 4	17 29 33 35 114 9 38 15 25 26 1	20 22 15 19 76 9 29 11 13 13	4 6 7 7 24 1 6 5 4 8 —	3 5 2 4 14 1 4 2 2 5 —
Less than 1 hour 1 hour to under 1 day 1 day to under 1 week 1 week to under 4 weeks Weight at delivery (grams) 400–499 500–999 1 000–1 999 2 000–2 999 3 000 or more Not stated Period of gestation (weeks) Less than 22	23 40 39 26 128 7 47 21 28 18 7	104 22 28 24 30 104 11 37 17 17 19 3	99 19 25 31 24 99 12 37 17 16 14 3 99 6	74 18 14 24 18 74 9 12 16 14 19 4	17 29 33 35 114 9 38 15 25 26 1 114 8	20 22 15 19 76 9 29 11 13 13 1	4 6 7 7 24 1 6 5 4 8 —	3 5 2 4 14 1 4 2 2 5 —
Less than 1 hour 1 hour to under 1 day 1 day to under 1 week 1 week to under 4 weeks Weight at delivery (grams) 400–499 500–999 1 000–1 999 2 000–2 999 3 000 or more Not stated Period of gestation (weeks) Less than 22 22–27	23 40 39 26 128 7 47 21 28 18 7 128 9	104 22 28 24 30 104 11 37 17 17 19 3 104 6 38	99 19 25 31 24 99 12 37 17 16 14 3 99 6 44	74 18 14 24 18 74 9 12 16 14 19 4 74 6 19	17 29 33 35 114 9 38 15 25 26 1 114 8 41	20 22 15 19 76 9 29 11 13 13 1 76 3	4 6 7 7 24 1 6 5 4 8 —	3 5 2 4 14 1 4 2 5 — 14 — 6
Less than 1 hour 1 hour to under 1 day 1 day to under 1 week 1 week to under 4 weeks Weight at delivery (grams) 400–499 500–999 1 000–1 999 2 000–2 999 3 000 or more Not stated Period of gestation (weeks) Less than 22 22–27 28–36	23 40 39 26 128 7 47 21 28 18 7 128 9 44	104 22 28 24 30 104 11 37 17 19 3 104 6 38 24	99 19 25 31 24 99 12 37 17 16 14 3 99 6 44 23	74 18 14 24 18 74 9 12 16 14 19 4 74 6 19 20	17 29 33 35 114 9 38 15 25 26 1 114 8 41 22	20 22 15 19 76 9 29 11 13 13 1 76 3 37	4 6 7 7 24 1 6 5 4 8 — 24 1 6 7	3 5 2 4 14 1 4 2 5 — 14 — 6 6
Less than 1 hour 1 hour to under 1 day 1 day to under 1 week 1 week to under 4 weeks Weight at delivery (grams) 400–499 500–999 1 000–1 999 2 000–2 999 3 000 or more Not stated Period of gestation (weeks) Less than 22 22–27 28–36 37–41	23 40 39 26 128 7 47 21 28 18 7 128 9 44 35 33	104 22 28 24 30 104 11 37 17 17 19 3 104 6 38	99 19 25 31 24 99 12 37 17 16 14 3 99 6 44	74 18 14 24 18 74 9 12 16 14 19 4 74 6 19 20 27	17 29 33 35 114 9 38 15 25 26 1 114 8 41 22 42	20 22 15 19 76 9 29 11 13 13 1 76 3 37 12 22	4 6 7 7 24 1 6 5 4 8 —	3 5 2 4 14 1 4 2 5 — 14 — 6
Less than 1 hour 1 hour to under 1 day 1 day to under 1 week 1 week to under 4 weeks Weight at delivery (grams) 400–499 500–999 1 000–1 999 2 000–2 999 3 000 or more Not stated Period of gestation (weeks) Less than 22 22–27 28–36	23 40 39 26 128 7 47 21 28 18 7 128 9 44	104 22 28 24 30 104 11 37 17 19 3 104 6 38 24	99 19 25 31 24 99 12 37 17 16 14 3 99 6 44 23	74 18 14 24 18 74 9 12 16 14 19 4 74 6 19 20	17 29 33 35 114 9 38 15 25 26 1 114 8 41 22	20 22 15 19 76 9 29 11 13 13 1 76 3 37	4 6 7 7 24 1 6 5 4 8 — 24 1 6 7	3 5 2 4 14 1 4 2 5 — 14 — 6 6
Less than 1 hour 1 hour to under 1 day 1 day to under 1 week 1 week to under 4 weeks Weight at delivery (grams) 400–499 500–999 1 000–1 999 2 000–2 999 3 000 or more Not stated Period of gestation (weeks) Less than 22 22–27 28–36 37–41 42 or more Not stated Age group of mother (years)	23 40 39 26 128 7 47 21 28 18 7 128 9 44 35 33 — 7	104 22 28 24 30 104 11 37 17 19 3 104 6 38 24 30 — 6	99 19 25 31 24 99 12 37 17 16 14 3 99 6 44 23 24 — 2	74 18 14 24 18 74 9 12 16 14 19 4 74 6 19 20 27 1 1	17 29 33 35 114 9 38 15 25 26 1 114 8 41 22 42 — 1	20 22 15 19 76 9 29 11 13 13 1 76 3 37 12 22 — 2	4 6 7 7 24 1 6 5 4 8 — 24 1 6 7 10 —	3 5 2 4 14 1 4 2 2 5 — 6 6 2 6 — —
Less than 1 hour 1 hour to under 1 day 1 day to under 1 week 1 week to under 4 weeks Weight at delivery (grams) 400–499 500–999 1 000–1 999 2 000–2 999 3 000 or more Not stated Period of gestation (weeks) Less than 22 22–27 28–36 37–41 42 or more Not stated Age group of mother (years) Less than 20	23 40 39 26 128 7 47 21 28 18 7 128 9 44 35 33 — 7	104 22 28 24 30 104 11 37 17 19 3 104 6 38 24 30 — 6	99 19 25 31 24 99 12 37 17 16 14 3 99 6 44 23 24 — 2	74 18 14 24 18 74 9 12 16 14 19 4 74 6 19 20 27 1 1	17 29 33 35 114 9 38 15 25 26 1 114 8 41 22 42 — 1 114 7	20 22 15 19 76 9 29 11 13 13 1 76 3 37 12 22 — 2 76 7	4 6 7 7 24 1 6 5 4 8 — 24 1 6 7 10 — — 24 3	3 5 2 4 14 1 4 2 2 5 — 14 — 6 6 2 6 —
Less than 1 hour 1 hour to under 1 day 1 day to under 1 week 1 week to under 4 weeks Weight at delivery (grams) 400–499 500–999 1 000–1 999 2 000–2 999 3 000 or more Not stated Period of gestation (weeks) Less than 22 22–27 28–36 37–41 42 or more Not stated Age group of mother (years) Less than 20 20–24	23 40 39 26 128 7 47 21 28 18 7 128 9 44 35 33 — 7	104 22 28 24 30 104 11 37 17 17 19 3 104 6 38 24 30 — 6 104 6 16	99 19 25 31 24 99 12 37 17 16 14 3 99 6 44 23 24 — 2 99 2 15	74 18 14 24 18 74 9 12 16 14 19 4 74 6 19 20 27 1 1 74 5 8	17 29 33 35 114 9 38 15 25 26 1 114 8 41 22 42 — 1 114 7 27	20 22 15 19 76 9 29 11 13 13 1 76 3 37 12 22 — 2 76 7 13	4 6 7 7 24 1 6 5 4 8 — 24 1 6 7 10 — — 24 3 4	3 5 2 4 14 1 4 2 2 5 — 14 — 6 6 2 6 — —
Less than 1 hour 1 hour to under 1 day 1 day to under 1 week 1 week to under 4 weeks Weight at delivery (grams) 400–499 500–999 1 000–1 999 2 000–2 999 3 000 or more Not stated Period of gestation (weeks) Less than 22 22–27 28–36 37–41 42 or more Not stated Age group of mother (years) Less than 20 20–24 25–29	23 40 39 26 128 7 47 21 28 18 7 128 9 44 35 33 — 7 128 6 20 30	104 22 28 24 30 104 11 37 17 17 19 3 104 6 38 24 30 — 6 104 6 16 38	99 19 25 31 24 99 12 37 17 16 14 3 99 6 44 23 24 — 2 99 2 15 30	74 18 14 24 18 74 9 12 16 14 19 4 74 6 19 20 27 1 1 74 5 8 19	17 29 33 35 114 9 38 15 25 26 1 114 8 41 22 42 — 1 114 7 27 36	20 22 15 19 76 9 29 11 13 13 1 76 3 37 12 22 — 2 76 7 13 26	4 6 7 7 24 1 6 5 4 8 — 24 1 6 7 10 — — 24 3 4 7	3 5 2 4 14 1 4 2 2 5 - 14 - 6 2 6 14 2 - 5
Less than 1 hour 1 hour to under 1 day 1 day to under 1 week 1 week to under 4 weeks Weight at delivery (grams) 400–499 500–999 1 000–1 999 2 000–2 999 3 000 or more Not stated Period of gestation (weeks) Less than 22 22–27 28–36 37–41 42 or more Not stated Age group of mother (years) Less than 20 20–24 25–29 30–34	23 40 39 26 128 7 47 21 28 18 7 128 9 44 35 33 — 7 128 6 20 30 36	104 22 28 24 30 104 11 37 17 17 19 3 104 6 38 24 30 — 6 104 6 16 38 22	99 19 25 31 24 99 12 37 17 16 14 3 99 6 44 23 24 — 2 99 2 15 30 24	74 18 14 24 18 74 9 12 16 14 19 4 74 6 19 20 27 1 1 74 5 8 19 23	17 29 33 35 114 9 38 15 25 26 1 114 8 41 22 42 — 1 114 7 27 36 26	20 22 15 19 76 9 29 11 13 13 1 76 3 37 12 22 — 2 76 7 13 26 15	4 6 7 7 24 1 6 5 4 8 — 24 1 6 7 10 — — 24 3 4 7 5	3 5 2 4 14 1 4 2 2 5 - 14 - 6 2 6 - 14 2 - 5 6
Less than 1 hour 1 hour to under 1 day 1 day to under 1 week 1 week to under 4 weeks Weight at delivery (grams) 400–499 500–999 1 000–1 999 2 000–2 999 3 000 or more Not stated Period of gestation (weeks) Less than 22 22–27 28–36 37–41 42 or more Not stated Age group of mother (years) Less than 20 20–24 25–29	23 40 39 26 128 7 47 21 28 18 7 128 9 44 35 33 — 7 128 6 20 30	104 22 28 24 30 104 11 37 17 17 19 3 104 6 38 24 30 — 6 104 6 16 38	99 19 25 31 24 99 12 37 17 16 14 3 99 6 44 23 24 — 2 99 2 15 30	74 18 14 24 18 74 9 12 16 14 19 4 74 6 19 20 27 1 1 74 5 8 19	17 29 33 35 114 9 38 15 25 26 1 114 8 41 22 42 — 1 114 7 27 36	20 22 15 19 76 9 29 11 13 13 1 76 3 37 12 22 — 2 76 7 13 26	4 6 7 7 24 1 6 5 4 8 — 24 1 6 7 10 — — 24 3 4 7	3 5 2 4 14 1 4 2 2 5 - 14 - 6 2 6 14 2 - 5

⁽a) Based on 400 grams/20 weeks definition. See Explanatory Notes, paragraph 4 for further

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3.8 PERINATAL DEATHS(a) by Usual Residence continued

	WA		TAS		NT		ACT	
Particulars	Males	Females	Males	Females	Males	Females	Males	Female
	• • • • • • • •		ETAL DEATH			• • • • • • • •		
Weight at delivery (grams)	58	68	19	20	14	11	19	1:
400–499	9	13	2	2	2	1	2	1
500–999	17	18	2	5	3	6	7	
1 000–1 999	12	14	3	3	3	1	3	:
2 000–2 999	11	12	5	2	2	2	1	;
3 000 or more	9	10	3	1	2	_	5	:
Not stated	_	1	4	7	2	1	1	:
Period of gestation (weeks)	58	68	19	20	14	11	19	1:
Less than 22	6	2	2	1	_	1	2	_
22–27	14	26	4	3	4	5	7	:
28–36	25	23	7	5	6	2	3	4
37–41	13	17	5	5	2	2	6	
42 or more	_	_	_	_	_	_	1	_
Not stated	_	_	1	6	2	1	_	-
Age group of mother (years)	58	68	19	20	14	11	19	12
Less than 20	6	6	3	2	6	2	2	2
20–24	10	8	3	2	1	3	5	2
25–29	13	23	2	3	4	3	7	2
30–34	13	15	4	2	_	2	3	
35–39	8	11	2	2	3	1	1	5
40 or more	2	4	_	1	_	_	_	_
Not stated	6	1	5	8	_	_	1	-
			NATAL DEA					
Age at death Less than 1 hour	36 7	24 1	15 3	5 1	11 2	12 2	8 2	10
1 hour to under 1 day	7	5	2	2	3	6	3	3
1 day to under 1 week	13	8	7	1	1	3	3	1
1 week to under 4 weeks	9	10	3	1	5	1	_	3
Weight at delivery (grams)	36	24	15	5	11	12	8	10
400–499	4	3	2	1	2	_	3	_
500–999	9	4	6	1	4	6	3	_
			U	_	2	3	3	3
1 000_1 000	6	1	1	2		3	_	
1 000–1 999	6	4	1	2	_	2	1	
2 000–2 999	10	2	3	_	_	2	1	
				2 — 2 —	_ 3 _	2 — 1	1 1 —	1 4 —
2 000–2 999 3 000 or more Not stated Period of gestation (weeks)	10 5 2	2 9 2	3 1 2 15	_ 2		1 12	1 — 8	10
2 000–2 999 3 000 or more Not stated Period of gestation (weeks) Less than 22	10 5 2 36 3	2 9 2 24 1	3 1 2 15 2	2 5		1 12 —	1 - 8 2	
2 000–2 999 3 000 or more Not stated Period of gestation (weeks) Less than 22 22–27	10 5 2 36 3 10	2 9 2	3 1 2 15 2 5		3 	1 12 - 6	1 — 8	- 10 - 3
2 000–2 999 3 000 or more Not stated Period of gestation (weeks) Less than 22 22–27 28–36	10 5 2 36 3 10 9	2 9 2 24 1 6	3 1 2 15 2 5 3		-3 - 11 2 5 2	1 12 - 6 3	1 - 8 2 3 -	10
2 000–2 999 3 000 or more Not stated Period of gestation (weeks) Less than 22 22–27 28–36 37–41	10 5 2 36 3 10 9	2 9 2 24 1 6 —	3 1 2 15 2 5 3 3	2 	- 3 - 11 2 5 2 2	1	1 - 8 2 3 - 1	10
2 000–2 999 3 000 or more Not stated Period of gestation (weeks) Less than 22 22–27 28–36 37–41 42 or more	10 5 2 36 3 10 9	2 9 2 24 1 6 9	3 1 2 15 2 5 3 3		- 3 - 11 2 5 2 2	1 12 — 6 3 2	1 - 8 2 3 - 1	10
2 000–2 999 3 000 or more Not stated Period of gestation (weeks) Less than 22 22–27 28–36 37–41	10 5 2 36 3 10 9	2 9 2 24 1 6 —	3 1 2 15 2 5 3 3	2 	- 3 - 11 2 5 2 2	1	1 - 8 2 3 - 1	10
2 000–2 999 3 000 or more Not stated Period of gestation (weeks) Less than 22 22–27 28–36 37–41 42 or more Not stated Age group of mother (years)	10 5 2 36 3 10 9 10 - 4	2 9 2 24 1 6 - 9 - 8	3 1 2 15 2 5 3 3 — 2		- 3 - 11 2 5 2 2 - -		1 - 8 2 3 - 1 - 2	10 - 3 2 3 - 2
2 000–2 999 3 000 or more Not stated Period of gestation (weeks) Less than 22 22–27 28–36 37–41 42 or more Not stated Age group of mother (years) Less than 20	10 5 2 36 3 10 9 10 - 4	2 9 2 24 1 6 - 9 - 8	3 1 2 15 2 5 3 3 — 2			1	1 - 8 2 3 - 1 - 2 8 1	10 3 2 3 2 10 11 11 11 11 11 11 11 11 11 11 11 11
2 000–2 999 3 000 or more Not stated Period of gestation (weeks) Less than 22 22–27 28–36 37–41 42 or more Not stated Age group of mother (years) Less than 20 20–24	10 5 2 36 3 10 9 10 — 4 36 3 9	2 9 2 24 1 6 - 9 - 8	3 1 2 15 2 5 3 3 — 2 15 —			1	1 - 8 2 3 - 1 - 2 8 1 1	10 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
2 000–2 999 3 000 or more Not stated Period of gestation (weeks) Less than 22 22–27 28–36 37–41 42 or more Not stated Age group of mother (years) Less than 20 20–24 25–29	10 5 2 36 3 10 9 10 4 36 3 9	2 9 2 24 1 6 - 9 - 8 24 1 3 7	3 1 2 15 2 5 3 3 - 2 15 - 5 6			12	1 - 8 2 3 - 1 - 2 8 1 1 2	10
2 000–2 999 3 000 or more Not stated Period of gestation (weeks) Less than 22 22–27 28–36 37–41 42 or more Not stated Age group of mother (years) Less than 20 20–24 25–29 30–34	10 5 2 36 3 10 9 10 4 36 3 9 12 6	2 9 2 24 1 6 - 9 - 8 24 1 3 7 9	3 1 2 15 2 5 3 3 — 2 15 —	5 1 2 2 5 1 2		12	1 8 2 3 1 2 8 1 1 2 2	10
2 000–2 999 3 000 or more Not stated Period of gestation (weeks) Less than 22 22–27 28–36 37–41 42 or more Not stated Age group of mother (years) Less than 20 20–24 25–29 30–34 35–39	10 5 2 36 3 10 9 10 - 4 36 3 9 12 6 4	2 9 2 24 1 6 - 9 - 8 24 1 3 7 9 2	3 1 2 15 2 5 3 3 - 2 15 - 5 6	5 - 1 2 2 - - 5 - 1 2 - - 1		12	1 	10
2 000–2 999 3 000 or more Not stated Period of gestation (weeks) Less than 22 22–27 28–36 37–41 42 or more Not stated Age group of mother (years) Less than 20 20–24 25–29 30–34	10 5 2 36 3 10 9 10 4 36 3 9 12 6	2 9 2 24 1 6 - 9 - 8 24 1 3 7 9	3 1 2 15 2 5 3 3 - 2 15 - 5 6	5 1 2 2 5 1 2		12	1 8 2 3 1 2 8 1 1 2 2	

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⁽a) Based on 400 grams/20 weeks definition. See Explanatory Notes, paragraph 4 for further information.

3.8 PERINATAL DEATHS(a) by Usual Residence continued

	NSW		VIC		QLD	QLD		
Particulars	Males	Females	Males	Females	Males	Females	Males	Females
• • • • • • • • • • • • • • • • • • • •		PEF	RINATAL DE	ATHS				
Age at death	128	104	99	74	114	76	24	14
Less than 1 hour	23	22	19	18	17	20	4	3
1 hour to under 1 day	40	28	25	14	29	22	6	5
1 day to under 1 week	39	24	31	24	33	15	7	2
1 week to under 4 weeks	26	30	24	18	35	19	7	4
Weight at delivery (grams)	392	303	244	226	256	196	70	61
400–499	56	48	31	23	32	28	7	9
500–999	111	85	71	45	75	59	26	15
1 000–1 999	66	50	51	46	40	35	12	10
2 000–2 999	83	64	40	58	50	34	12	10
3 000 or more	65	53	39	45	57	37	11	16
Not stated	11	3	12	9	2	3	2	1
Period of gestation (weeks)	392	303	244	226	256	196	70	61
Less than 22	38	19	18	12	16	7	10	5
22–27	127	103	82	54	86	77	20	18
28–36	112	79	79	70	63	49	23	15
37–41	102	92	60	85	85	60	17	22
42 or more	2	3	3	3	3	_	_	1
Not stated	11	7	2	2	3	3	_	_
Age group of mother (years)	392	303	244	226	256	196	70	61
Less than 20	30	21	9	15	21	10	6	5
20–24	66	48	38	28	51	38	13	12
25–29	93	90	78	64	85	66	22	14
30–34	110	84	60	66	57	52	15	17
35–39	69	44	47	46	32	24	9	11
40 or more	17	14	11	6	7	3	4	2
Not stated	7	2	1	1	3	3	1	_

⁽a) Based on 400 grams/20 weeks definition. See Explanatory Notes, paragraph 4 for further information.

3.8 PERINATAL DEATHS(a) by Usual Residence continued

WA...... NT...... ACT......

	**/		17.0111				7.01	
Particulars	Males	Females	Males	Females	Males	Females	Males	Females
• • • • • • • • • • • • • • • • • • • •	• • • • • • •	• • • • • • • • •	• • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • • •		
		PER	RINATAL DE	ATHS				
Age at death	36	24	15	5	11	12	8	10
Less than 1 hour	7	1	3	1	2	2	2	3
1 hour to under 1 day	7	5	2	2	3	6	3	3
1 day to under 1 week	13	8	7	1	1	3	3	1
1 week to under 4 weeks	9	10	3	1	5	1	_	3
Weight at delivery (grams)	94	92	34	25	25	23	27	22
400–499	13	16	4	3	4	1	5	1
500–999	26	22	8	5	7	12	10	6
1 000–1 999	18	18	4	5	5	4	3	4
2 000–2 999	21	14	8	2	2	4	2	4
3 000 or more	14	19	4	3	5	_	6	6
Not stated	2	3	6	7	2	2	1	1
Period of gestation (weeks)	94	92	34	25	25	23	27	22
Less than 22	9	3	4	1	2	1	4	_
22–27	24	32	9	4	9	11	10	4
28–36	34	23	10	7	8	5	3	6
37–41	23	26	8	7	4	4	7	10
42 or more	_	_	_	_	_	_	1	_
Not stated	4	8	3	6	2	2	2	2
Age group of mother (years)	94	92	34	25	25	23	27	22
Less than 20	9	7	3	2	8	3	3	3
20–24	19	11	8	3	7	6	6	3
25–29	25	30	8	5	6	7	9	3
30–34	19	24	6	2	1	3	5	3
35–39	12	13	2	3	3	3	3	9
40 or more	3	5	_	1	_	_	_	1
Not stated	7	2	7	9	_	1	1	_

⁽a) Based on 400 grams/20 weeks definition. See Explanatory Notes, paragraph 4 for further information.

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. Statistics of perinatal deaths for years prior to 1994 were published separately in *Perinatal Deaths, Australia* (Cat. no. 3304.0), which has been discontinued.

SCOPE AND COVERAGE

- **2** The statistics relate to the number of deaths registered, not those which actually occurred, in the years shown. Normally about 5% to 6% of deaths occurring in one year are not registered until the following year or later.
- **3** In 1988 revisions were made to the Northern Territory legislation to enable the registration of a death prior to the certification of cause. This enabled the majority of deaths to be registered in the year in which they occurred. This change should be borne in mind when comparing statistics for 1988 and later years with statistics for earlier years.

Perinatal death statistics

- **4** The perinatal death statistics contained in this publication, unless otherwise stated, include all fetuses and infants delivered weighing at least 400 g or (when birthweight is unavailable) the corresponding gestational age (20 weeks), whether alive or dead. This definition recognises the availability of reliable 400 g/20 weeks data from all State and Territory Registrars of Births, Deaths and Marriages and recommendations from major users that the ABS adopt the legal requirement for registration of a perinatal death as the statistical standard.
- **5** For 1996 and previous editions of this publication data relating to perinatal deaths were based upon the World Health Organisation (WHO) recommended definition for compiling national perinatal statistics. The WHO definition of perinatal deaths included infants and fetuses weighing at least 500 g or having a gestational age of 22 weeks or body length of 25 cm crown-heel.
- **6** The birth statistics used to calculate the perinatal and neonatal death rates in this publication, are shown in Appendix 3. Appendix tables A3.1–A3.3 detail registered live birth statistics and stillbirth statistics adjusted to exclude infants who are known to have weighed under 400 g. Such births are identified from the medical certificate of perinatal death, which records birthweight. However, infants who survived 28 days or more but weighed less than 400 g at birth have not been excluded since figures for weight at birth are not available for these infants. Appendix tables A3.4 and A3.5 show similar adjusted information but it is based on the 500 g definition.

Perinatal death statistics continued

7 The adjusted live birth statistics differ from the live 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 and A2.2 of Appendix 2.

8 The adjusted birth statistics also differ from the statistics published in *Births*, *Australia* (Cat. no. 3301.0), which are unadjusted for birthweight, i.e. have not had births known to have weighed less than 400 grams excluded. For years 1993 to 1996, births which occurred in Other Territories were excluded from adjusted live births used in calculating perinatal rates.

STATISTICS FOR STATES AND TERRITORIES

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

10 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 Offshore and Migratory. From 1993 to 1996, statistics for 'Other Territories' have been excluded from this publication. However from 1997 onwards they are included in the Australian totals.

CAUSE OF DEATH CLASSIFICATION USED

- **11** The causes of death, both underlying and multiple, in this publication are classified according to the International Classification of Diseases (ICD-9) which was adopted for world-wide use from 1979 (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.
- **12** The extensive nature of the ICD enables classification of causes of death at various levels of detail. For the purpose of this publication, three summary classifications are used. They are:
- the ICD at the Class level (with further disaggregation for major causes of death);
- the ICD Mortality List of Fifty Causes (with certain subdivisions) as recommended under Article 23 of the constitution of WHO; and
- main Causes of Death for age groups.
- **13** Table 1.5 utilises the Mortality List of Fifty Causes. Tables 1.3, 1.4, 2.2, 2.3 and 2.4 present statistics at the ICD Class level. Background on both these summary classifications is given in volume 1 of the ICD.
- **14** Tables 1.1, 1.2 and 1.6 present data for main Causes of Death for age groups. For each age group, a summary classification of the main causes of death relevant to the age group has been used. These consist of causes of death significant in that age group, at the Class level, with further disaggregation below the Class level where appropriate.

CAUSE OF DEATH CLASSIFICATION USED continued

- **15** 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.
- **16** As ICD-9 does not directly accommodate the coding of 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, from 1996, all AIDS-related deaths (ie deaths were AIDS was mentioned in any place on the death certificate) have been coded to HIV infection (042–044). To enable comparison over time, all AIDS-related deaths in table 1.3 have been reported as ICD-9 CM HIV infection (042–044) for all years.
- **17** All data in this publication refer to AIDS-related deaths rather than only those deaths were AIDS is the underlying cause. Hence in table 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.
- **18** 1998 is the final year of classifying deaths using ICD-9. Deaths registered from 1 January 1999 onwards, will be classified according to ICD-10.

Perinatal statistics

19 For perinatal deaths, both the main condition in the fetus/infant, and the main condition in the mother are coded to the full four-digit level of the ICD. An abridged version of ICD was used in perinatal deaths publications prior to 1983. However, with the decline in perinatal mortality, some categories of that classification are now responsible for few perinatal deaths. Causes selected for publication in this issue are those categories of this abridged classification which were responsible for a significant proportion of perinatal deaths.

DATA QUALITY

- **20** 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.
- **21** 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

22 This publication includes Indigenous deaths data for Queensland, South Australia, Western Australia and the Northern Territory. It is estimated that more than 90% of Indigenous deaths in these States and Territories are identified. While it is estimated that the Australian Capital Territory also has more than 90% coverage of indigenous deaths, no figure are published due to the very small number of indigenous deaths in the ACT. While other States have provision for the identification of Indigenous deaths on their death registration forms, deaths for these States are considered to be under identified. As causes of death data are published on a State of usual residence basis, deaths of Queensland, South Australian, Western Australian, Northern Territory and Australian Capital Territory residents which occur in other States may be identified less completely than if the deaths had been registered in their home State or Territory. Detailed information on coverage of indigenous deaths is provided in Appendix 6.

POPULATIONS

23 Appendix 2 provides details of the number of live births registered and the estimated age and mean resident populations which have been used to calculate the rates shown in this publication. Appendix 3 provides data on adjusted births used for calculating perinatal death rates. These appendix figures also enable further rates to be calculated.

ACKNOWLEDGMENT

24 ABS publications draw extensively on information provided freely by individuals, businesses, governments and other organisations. Their continued cooperation is very much appreciated: without it, the wide range of statistics published by the ABS would not be available. Information received by the ABS is treated in strict confidence as required by the Census and Statistics Act 1905.

RELATED PUBLICATIONS

25 Other available ABS publications which may be of interest include: Australian Social Trends (Cat. no. 4102.0) — issued annually Births, Australia (Cat. no. 3301.0) — issued annually Causes of 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 Firearms Deaths, Australia, 1980-1995 (Cat. no. 4397.0) - issued irregularly - discontinued Social Indicators, Australia, 1992 (Cat. no. 4101.0) - issued irregularly - discontinued Suicides, Australia, 1982–1992 (Cat. no. 3309.0) — issued irregularly Trends in Mortality by Causes of Death in Australia, the States and Territories during 1971–92 and in Statistical Divisions and Sub-divisions during 1991–92 (Cat. no. 3313.0) - issued irregularly - discontinued Women's Health, 1994 (Cat. no. 4365.0) — issued irregularly — discontinued

UNPUBLISHED DATA

- **26** More detailed cause of death information is available upon request from the ABS. This information can comprise standard non-published tables (see Appendix 1) or customised tabulations (via hardcopy or electronic media). Unit record files are available to approved users upon application. Generally, a charge is levied for providing unpublished information.
- **27** Perinatal tabulations for Australia based on WHO national (see Explanatory Notes, paragraph 5) and international definitions are available upon request. The WHO international definition comprises all fetuses and infants (who die within seven days of birth) weighing at least 1,000 g or (when birthweight is unavailable) having the corresponding gestational age (28 weeks) or body length (35 cm crown-heel). A charge is levied for providing this information.
- **28** For more information about related unpublished statistics or data concepts contact Peter Burke on 1800 620 963.

EFFECTS OF ROUNDING

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

APPENDIX 1 UNPUBLISHED STATISTICS

GENERAL

Causes of death data are available from calendar year 1964, through the ABS special data service. Please note that for comparability purposes the data conform to the different revisions of the ICD, namely:

- ICD-7 1964–67
- ICD-8 1968–78
- ICD-9 1979 to the present

Documentation is available detailing the relationship between the ninth revision of the ICD and earlier revisions (ICD-7 and ICD-8). 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 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
 - 1985–90
 - 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 (from 1992)
- AIDS indicator (where AIDS is mentioned on the death certificate, whether the underlying cause or not)
- Certifier of cause of death (doctor or coroner)
- Cancer indicator (where cancer is mentioned on the death certificate, whether the underlying cause or not)

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) (S list) 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) (S list) by marital status by sex by age

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APPENDIX 2 DATA USED IN CALCULATING RATES

The following tables contain data used in calculating the various rates referred to in this publication. Tables A2.1 and A2.2 are used to calculate infant death rates while table A2.3 is used to calculate age-specific death rates.

A2.1 LIVE BIRTHS REGISTERED(a)

Sex	1989	1998
		• • • • • • •
Males Females Persons	128 510 122 343 250 853	128 016 121 600 249 616

⁽a) Used to calculate infant death rates.

A2.2 LIVE BIRTHS REGISTERED(a), By Usual Residence of Mother

Sex	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust.
• • • • • • • • •	• • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • •	• • • • • • •	
Males	43 763	31 303	24 042	9 266	12 655	3 053	1 913	2 006	128 016
Females Persons	41 736 85 499	29 189 60 492	23 004 47 046	8 960 18 226	12 062 24 717	2 925 5 978	1 728 3 641	1 976 3 982	121 600 249 616

⁽a) Used to calculate infant death rates.

A2.3 AGES OF ESTIMATED RESIDENT POPULATION AT 30 JUNE

	AGE GR	OUPS(YEAF	RS)							
Year	Under 1	1–14	15–24	25–44	45–54	55–64	65–74	75–84	85 and over	All ages
MALES										
1989 1998	127 847 127 560	1 782 512 1 883 552	1 399 357 1 368 968	2 667 756 2 888 653	888 220 1 246 935	735 885 814 865	519 169 619 045	226 863 310 986	39 980 69 287	8 387 589 9 329 851
• • • • • •		• • • • • • •		• • • • • • •	FEMALES	8		• • • • • •	• • • • • • • •	
1989 1998	121 711 120 730	1 692 848 1 790 525	1 349 711 1 308 193	2 625 384 2 895 712	845 097 1 220 511	731 593 801 421	608 685 677 865	348 590 447 868	103 208 158 306	8 426 827 9 421 131
PERSONS										
1989 1998	249 558 248 290	3 475 360 3 674 077	2 749 068 2 677 161	5 293 140 5 784 365	1 733 317 2 467 446	1 467 478 1 616 286	1 127 854 1 296 910	575 453 758 854	143 188 227 593	16 814 416 18 750 982

APPENDIX 3 DATA USED FOR PERINATAL DEATHS

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 g/20 weeks gestation definition for fetal deaths. This definition was used predominantly in this issue and will be used in future issues.

A3.1 ADJUSTED BIRTHS(a), By Usual of Residence of Mother

STATE OR	TERRITORY OF	USUAL	RESIDENCE

		NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust.(b)
	• • • • • • • •	• • • • • • •				• • • • • • •			• • • • • •	• • • • • •
Live births	Males	43 756	31 303	24 020	9 265	12 650	3 053	1 913	2 006	127 981
	Females	41 732	29 189	22 986	8 959	12 059	2 925	1 728	1 976	121 574
Stillbirths(c)	Males	264	145	142	46	58	19	14	19	707
	Females	199	152	120	47	68	20	11	12	629
Total	Males	44 020	31 448	24 162	9 311	12 708	3 072	1 927	2 025	128 688
	Females	41 931	29 341	23 106	9 006	12 127	2 945	1 739	1 988	122 203
	Persons	85 951	60 789	47 268	18 317	24 835	6 017	3 666	4 013	250 891

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

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	6 054	20 608	41 812	38 746	17 735	2 973	53	127 981
	Females	5 789	19 437	39 851	37 111	16 475	2 872	39	121 574
Stillbirths(b)	Males	65	121	201	171	107	26	16	707
	Females	43	104	177	173	97	25	10	629
Total	Males	6 119	20 729	42 013	38 917	17 842	2 999	69	128 688
	Females	5 832	19 541	40 028	37 284	16 572	2 897	49	122 203
	Persons	11 951	40 270	82 041	76 201	34 414	5 896	118	250 891

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

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

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

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

A3.3 ADJUSTED BIRTHS(a), By Sex

	LIVE BIRTHS r			STIL	LBIRTHS(b)	TOTAL r	TOTAL r		
	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons	
• • • • • • •	•••••••••••••••									
1989	128 497	122 332	250 829	862	770	1 632	129 359	123 102	252 461	
1990	135 184	127 437	262 621	989	791	1 780	136 173	128 228	264 401	
1991	131 955	125 274	257 229	868	790	1 658	132 823	126 064	258 887	
1992	135 573	128 525	264 098	889	812	1 701	136 462	129 337	265 799	
1993	133 545	126 626	260 171	765	674	1 439	134 310	127 300	261 610	
1994	132 589	125 385	257 974	798	614	1 412	133 387	125 999	259 386	
1995	131 411	124 725	256 136	805	707	1 512	132 216	125 432	257 648	
1996	130 526	123 214	253 740	900	768	1 668	131 426	123 982	255 408	
1997	129 143	122 631	251 774	829	687	1 516	129 972	123 318	253 290	
1998	127 981	121 574	249 555	707	629	1 336	128 688	122 203	250 891	

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calculation of perinatal death rates. See Glossary.

⁽a) Registered births adjusted to conform to WHO criteria for the (b) Including those where it was not known if the heartbeat ceased before or after delivery.

500 GRAMS/22 WEEKS GESTATION

Tables A3.4 and A3.5 contain births data used in the calculation of perinatal death rates based on the WHO definition of $500 \, \text{g/}22$ 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 Usual Residence of Mother

STATE OR TERRITORY	OF USUAL	RESIDENCE
--------------------	----------	-----------

		NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust.(b)
• • • • • • • • •	• • • • • • • •	• • • • • •	• • • • • •	• • • • • •		• • • • • •	• • • • • •		• • • • • •	• • • • • •
Live births	Males	43 747	31 303	24 012	9 262	12 643	3 053	1 913	2 006	127 954
	Females	41 719	29 189	22 976	8 957	12 051	2 925	1 728	1 976	121 541
Stillbirths(c)	Males	214	124	119	38	49	17	12	17	590
	Females	162	137	100	39	55	18	10	11	532
Total	Males	43 961	31 427	24 131	9 300	12 692	3 070	1 925	2 023	128 544
	Females	41 881	29 326	23 076	8 996	12 106	2 943	1 738	1 987	122 073
	Persons	85 842	60 753	47 207	18 296	24 798	6 013	3 663	4 010	250 617

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

A3.5 ADJUSTED BIRTHS(a), By Sex

	LIVE BIRTHS r			STILL	BIRTHS(b)	TOTAL	TOTAL r			
	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons		
• • • • • • •	• • • • • • •	• • • • • •	• • • • • •	• • • • • • • • • •	• • • • • •	• • • • • •	• • • • • • • • • • • • • •	• • • • • • •	• • • • •		
1989	128 481	122 316	250 797	769	682	1 451	129 250	122 998	252 248		
1990	135 165	127 421	262 586	888	702	1 590	136 053	128 123	264 176		
1991	131 941	125 253	257 194	777	701	1 478	132 718	125 954	258 672		
1992	135 544	128 509	264 053	779	714	1 493	136 323	129 223	265 546		
1993	133 525	126 616	260 141	668	577	1 245	134 193	127 193	261 386		
1994	132 563	125 365	257 928	692	515	1 207	133 255	125 880	259 135		
1995	131 386	124 700	256 086	681	602	1 283	132 067	125 302	257 369		
1996	130 495	123 179	253 674	759	652	1 411	131 254	123 831	255 085		
1997	129 119	122 601	251 720	692	588	1 280	129 811	123 189	253 000		
1998	127 954	121 541	249 495	590	532	1 122	128 544	122 073	250 617		

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

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

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

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

APPENDIX 4 ENHANCED DEATH DATA

MULTIPLE CAUSES OF DEATH STATISTICS

Until 1997, the ABS produced causes of death statistics according to WHO recommendations, where each death was assigned to 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, currently the ninth revision. 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.

However, the current leading causes of death are very different from those that prevailed when the single underlying cause concept was adopted. The leading 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 more important. 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. For example, 1997 data suggest that on average 1.8 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 considering the above, the ABS began with the 1997 calendar year data to code and tabulate all causes and conditions reported on each death certificate using software developed by the National Center for Health Statistics (NCHS) of the United States. 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 the ICD-9 coding rules.

MULTIPLE CAUSES OF DEATH STATISTICS contnued

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.

However, there has been a break in the time series data due to the automatic coding of causes of death. This issue is addressed in Appendix 5 and comparability factors to assist with the linking of manually and automatically coded data have been provided.

APPENDIX 5 COMPARABILITY OF DATA OVER TIME

INTRODUCTION

The use of the Automated Coding System (ACS) has enabled efficient production of multiple cause of death statistics. ACS has been adopted by a number of countries and its growing popularity has the potential to significantly improve the international comparability of causes of death statistics.

ACS was developed in the United States and, therefore, uses their interpretation of ICD-9 coding rules. In some instances, these differ significantly from the coding rules used previously in Australia. As a result of the introduction of ACS, there is now a break in the underlying causes of death series between 1996 and 1997, with significant differences for a number of causes of death.

COMPARISON OF AUTOMATIC AND MANUAL CODING

The causes of death most affected is pneumonia and, hence, the category of pneumonia and influenza (ICD codes 480–487) became, in 1997, the fifth leading cause of death. The other causes significantly affected include senile and presenile organic psychotic conditions—dementia (ICD code 290), and alzheimer's (ICD code 3310). Under the previous Australian coding interpretations, many of the deaths attributed to pneumonia in 1997 would have been coded to dementia, alzheimer's disease, ischaemic heart disease, cardiac dysrhythmias and heart failure, malignant neoplasms, chronic obstructive pulmonary disease and renal failure. As a result, while applying ACS coding interpretations has caused pneumonia deaths to rise, deaths coded to a wide range of other conditions have declined, in particular those due to dementia.

To highlight the differences and to provide a link for underlying causes of death data between 1996 and 1997, the records for more than 30,000 deaths registered in 1997 (representing one-quarter of the total 1997 deaths) were coded, both manually and automatically. Records selected for the exercise were spread across the year to allow for seasonal influences. Comparability factors were then calculated for groups of causes of death as a means of adjusting data for 1996 and previous years, to make them more comparable with equivalent data for 1997. Comparability factors of 1.0 or close to 1.0, indicate no significant coding differences between automated and manual coding. Factors of less than 1.0 indicate that under automated coding fewer deaths would be assigned to that particular cause than under manual coding. Due to the sampling methodology used, reliable comparability factors could not be calculated for individual causes involving only small numbers of deaths.

Comparability factors for external causes are close to 1.0 due to the extensive clerical intervention required for coding these causes.

An adjusted estimate of the number of deaths attributed to a particular cause can be produced by multiplying the number of deaths attributed to that cause in 1996 (or in earlier years) by its corresponding comparability factor. This adjusted figure can then be more accurately compared with the number of deaths attributed to the same cause in 1997 and enable trends to be more accurately examined.

COMPARISON OF AUTOMATIC AND MANUAL CODING continued

Table A5.1 presents comparability factors at the national level, for each cause of death (or groups of causes of death) presented in this publication. A concordance table, which assists in explaining the relationships between the manual and automated coding methodologies, and further information on linking, can be obtained from the ABS by telephoning 1800 620 963.

A5.1 COMPARABILITY FACTORS

	• • • • • • •
Cause of death and ICD code	Comparability factor
	• • • • • • • •
All causes	1.00
Class I Infectious and parasitic diseases (001–139)	1.05
Class II Neoplasms (140-239)	0.99
Malignant neoplasms (140–208)	0.99
Lip, oral cavity and pharynx (140–149)	1.04
Digestive organs and peritoneum (150–159)	0.99
Oesophagus (150)	0.99
Stomach (151)	0.99
Colon (153)	1.00
Rectum, rectosigmoid junction and anus (154)	0.99
Liver and intrahepatic bile ducts (155)	1.04
Pancreas (157)	1.00
Trachea, bronchus and lung (162)	1.00
Bone, connective tissue, skin and breast (170–175)	0.98
Melanoma of skin (172)	0.99
Breast (174, 175)	0.99
Genitourinary organs (179–189)	0.99
Ovary and other uterine adnexa (183)	1.01
Prostate (185)	0.99
Bladder (188)	0.97
Bidddci (100)	0.51
Other and unspecified sites (190–199)	0.99
Brain (191)	0.99
Lymphatic and haematopoietic tissue (200–208)	1.00
Leukaemia (204–208)	0.96
Benign and unspecified neoplasms (210239)	0.90
Class III Endocrine, nutritional and metabolic diseases and	0.07
immunity disorders (240–279)	0.97
Diabetes mellitus (250)	0.94
Class IV Diseases of blood and blood-forming organs (280–289)	1.12
Class V Mental disorders (290–319)	0.84
Senile and presenile organic psychotic conditions (290)	0.38
Drug dependence (304)	1.03
2148 40001401100 (00 1)	2.00
Class VI Disease of the nervous system and sense	
organs (320–389)	0.88
Hereditary and degenerative diseases of the central nervous	
system (330–337)	0.86
Alzheimer's disease (3310)	0.84
Class VII Diseases of the circulatory system (390–459)	0.98
All heart disease (393–398, 402, 404, 410–414, 415, 416,	0.00
420–429)	0.99
Rheumatic fever and rheumatic heart disease (390–398)	0.89
Hypertensive disease (401–405)	0.93
Ischaemic heart disease (410–414)	0.99
Acute myocardial infarction (410)	0.99
• • • •	
Diseases of pulmonary circulation and other forms of heart	
disease (415–429)	0.99
Heart failure (428)	0.94

A5.1 COMPARABILITY FACTORS continued

Cause of death and ICD code	Comparability factor
cause of death and lob code	iactor
	• • • • • • •
Class VII Diseases of the circulatory system (390–459) continued	
Cerebrovascular disease (430–438)	0.95
Diseases of arteries, arterioles and capillaries (440–448)	0.99
Atherosclerosis (440)	0.88
Aortic aneurysm (441)	0.99
Class VIII Diseases of the respiratory system (460–519)	1.21
Pneumonia and influenza (480–487)	2.00
Chronic obstructive pulmonary disease and allied	
conditions (490–496)	0.94
Emphysema (492)	0.97
Asthma (493)	0.98
Class IX Diseases of the digestive system (520–579)	0.99
Diseases of oesophagus, stomach and duodenum (530–537)	1.01
Ulcer of stomach and duodenum (531–533)	0.97
Chronic liver disease and cirrhosis (571)	0.96
Class X Diseases of the genitourinary system (580–629)	1.03
Nephritis, nephrotic syndrome and nephrosis (580–589)	0.88
Renal failure (584–586)	0.86
Class XI Complications of pregnancy, childbirth and the	
puerperium (630–676)	1.00
Class XII Diseases of the skin and subcutaneous	
tissue (680–709)	0.99
Class XIII Diseases of the musculoskeletal system and connective	
tissue (710–739)	0.97
Class IV Congenital anomalies (740–759) Class XV Certain conditions originating in the perinatal	1.09
period (760–779)	0.92
Class XVI Symptoms, signs and ill-defined conditions (780–799)	0.92
Class XVII Accidents, poisonings and violence	0.14
external causes) (E800–E999)	1.01
Accidents (E800–E949)	1.02
Motor vehicle traffic accidents (E810–E819)	1.00
Accidental falls (E880–E888)	1.03
Accidental drowning and submersion (E910)	0.99
Suicide (E950–E959)	1.00
Homicide (E960–E969)	1.03

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APPENDIX 6 INDIGENOUS DEATHS

INTRODUCTION

In 1998, there were 2,114 deaths registered where Indigenous origin of the deceased person was identified. While it is considered likely that virtually all Indigenous deaths are registered, a significant proportion are not registered as Indigenous. Therefore, the 1998 registered Indigenous deaths is an underestimate of the actual number of such deaths.

PROPENSITY TO IDENTIFY AS INDIGENOUS

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

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

- Death registrations: This publication is based on the registration of deaths by each State's and Territory's Registrar of Births, Deaths and Marriages.
- 1991 Census-based projections: These data are estimated using mortality levels based on 1986–91 Indigenous life tables, and the Indigenous population based on the 1991 Census. These are published in *Experimental Projections of the Aboriginal and Torres Strait Islander Population*, 30 June 1991–30 June 2001 (Cat. no. 3231.0).
- 1996 Census-based estimates and projections: Estimates prior to 1996 are derived by backdating estimates of the 1996 Indigenous population. The level of mortality is based on the 1991–96 experimental life tables published in *Experimental Projections of the Aboriginal and Torres Strait Islander Population, 30 June 1996–30 June 2006* (Cat. no. 3231.0). The 1998 projection data assumes no change in mortality and no increase in propensity to identify after 1996.

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

The mismatch of the degree of identification propensity between the census and the death certificates represents a problem with data quality, indicating that the number of registered Indigenous deaths is an undercount of the actual number.

PROPENSITY TO IDENTIFY AS INDIGENOUS continued

A6.1	DEATHS OF	INDIGENOUS PEOPLE	, Summary

Year	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust.(a)
• • • • • • • •						• • • • • •		• • • • •	• • • • •
			DEATHS	REGIST	EKED				
1988	206	39	6	106	322	_	479	_	1 158
1989	189	29	3	139	329	3	422	_	1 115
1990	201	42	4	118	322	_	393	_	1 082
1991	206	50	_	135	401	3	412	_	1 208
1992	165	53	_	107	346	5	397	_	1 074
1993	194	50	_	111	386	6	376	9	1 134
1994	207	50	_	123	377	3	380	10	1 153
1995	224	50	_	121	384	3	387	9	1 182
L996	177	49	258	118	370	_	328	5	1 306
1997	88	93	531	132	351	5	458	4	1 662
1998	462	123	593	127	378	13	415	3	2 114
EXP	ECTED DEAT	HS (199				nental p	rojection	ns)(b)	
1993	E01	100	587	101	277	5 0	264	0	2 120
1993 1994	501 509	109 111	587 595	121 124	377 382	52 52	364 368	8 9	2 120 2 152
1995						52 54			
1996	518 528	113 114	604	126 128	385 390		374	10	2 185
1990			613			56 57	379	10	2 220
1998	537 547	116 118	623 634	131 133	394 400	57 59	386 391	11 11	2 257 2 293
EXPECTED [
EXPECTED [s and pr		ns)(c)
EXPECTED [1993 1994	901 916	96 Cens 202 206	us-base 862 874	d experi 178 183	mental 6 477 484	estimate 115 115	s and pr 434 439	rojectio 15 16	ns)(c) 3 191 3 239
EXPECTED [1993 1994 1995	DEATHS (19	96 Cens	us-base 862	d experi	mental e	115 115 119	s and pr	ojectio 15	ns)(c) 3 191 3 239
EXPECTED [1993 1994 1995	901 916	96 Cens 202 206	us-base 862 874	d experi 178 183	mental 6 477 484	estimate 115 115	s and pr 434 439	rojectio 15 16	ns)(c) 3 191 3 239 3 289
EXPECTED [1993 1994 1995 1996 1997	901 916 932	96 Cens 202 206 209	862 874 887	178 183 186	477 484 488	115 115 119	s and pr 434 439 446	rojectio 15 16 18	ns)(c) 3 191 3 239 3 289 3 341
EXPECTED [1993 1994 1995 1996 1997	901 916 932 950	96 Cens 202 206 209 211	862 874 887 900	178 183 186 189	477 484 488 494	115 115 119 124	434 439 446 452	rojectio 15 16 18 18	3 191 3 239 3 289 3 341 3 394
	901 916 932 950 966	202 206 209 211 215	862 874 887 900 915	178 183 186 189 193	477 484 488 494 499	115 115 119 124 126	434 439 446 452 460	15 16 18 18 20	3 191 3 239 3 289 3 341 3 394
EXPECTED D 1993 1994 1995 1996 1997 1998	901 916 932 950 966	96 Cens 202 206 209 211 215 219	862 874 887 900 915 936	178 183 186 189 193 199	477 484 488 494 499 509	estimate 115 115 119 124 126 130	s and pr 434 439 446 452 460 471	rojectio 15 16 18 18 20 21	3 191 3 239 3 289 3 341 3 394 3 469
EXPECTED D 1993 1994 1995 1996 1997 1998	901 916 932 950 966 984	96 Cens 202 206 209 211 215 219	862 874 887 900 915 936	178 183 186 189 193 199	477 484 488 494 499 509	estimate 115 115 119 124 126 130	s and pr 434 439 446 452 460 471	rojectio 15 16 18 18 20 21	3 191 3 239 3 289 3 341 3 394 3 469
EXPECTED D 1993 1994 1995 1996 1997 1998 ESTIMA	901 916 932 950 966 984	96 Cens 202 206 209 211 215 219	862 874 887 900 915 936	178 183 186 189 193 199	477 484 488 494 499 509 Census-	115 115 115 119 124 126 130 based e	s and pr 434 439 446 452 460 471 xpectano	rojectio 15 16 18 18 20 21	ns)(c) 3 191 3 239 3 289 3 341 3 394 3 469
EXPECTED D 1993 1994 1995 1996 1997 1998 ESTIMA 1993 1994	901 916 932 950 966 984 ATED COVER	96 Cens 202 206 209 211 215 219 RAGE OF	862 874 887 900 915 936	178 183 186 189 193 199	477 484 488 494 499 509 Census-	115 115 119 124 126 130 based e	s and pr 434 439 446 452 460 471 xpectano	rojectio 15 16 18 18 20 21 cies)(%	ns)(c) 3 191 3 239 3 289 3 341 3 394 3 469
EXPECTED E 1993 1994 1995 1996 1997 1998 ESTIMA 1993 1994 1995	901 916 932 950 966 984 ATED COVER	96 Cens 202 206 209 211 215 219 RAGE OF	862 874 887 900 915 936 DEATHS	178 183 186 189 193 199 5 (1991 92 99	mental 6 477 484 488 494 499 509 Census- 102 99	115 115 115 119 124 126 130 based e	s and pr 434 439 446 452 460 471 xpectano 103 103	15 16 18 18 20 21 	ns)(c) 3 191 3 239 3 289 3 341 3 394 3 469
EXPECTED E 1993 1994 1995 1996 1997 1998 ESTIMA 1993 1994 1995 1996	901 916 932 950 966 984 ATED COVER 39 41 43	96 Cens 202 206 209 211 215 219 RAGE OF 46 45 44	862 874 887 900 915 936 DEATHS	178 183 186 189 193 199 5 (1991 92 99 96	mental 6 477 484 488 494 499 509 Census- 102 99 100	115 115 115 119 124 126 130 based e	s and pr 434 439 446 452 460 471 xpectano 103 103 103	rojectio 15 16 18 18 20 21 cies)(% 113 111 90	ns)(c) 3 191 3 239 3 289 3 341 3 394 3 469
EXPECTED E 1993 1994 1995 1996 1997 1998 ESTIMA 1993 1994 1995 1996 1997	901 916 932 950 966 984 ATED COVER 39 41 43 34	96 Cens 202 206 209 211 215 219 RAGE OF 46 45 44 43	862 874 887 900 915 936 DEATHS	178 183 186 189 193 199 6 (1991 92 99 96 92	mental 6 477 484 488 494 499 509 Census- 102 99 100 95	115 115 115 119 124 126 130 based e	s and pr 434 439 446 452 460 471 xpectand 103 103 103 87	rojectio 15 16 18 18 20 21 cies)(% 113 111 90 50	ns)(c) 3 191 3 239 3 289 3 341 3 394 3 469
EXPECTED D 1993 1994 1995 1996 1997 1998	901 916 932 950 966 984 ATED COVER 39 41 43 34 16	96 Cens 202 206 209 211 215 219 RAGE OF 46 45 44 43 80	862 874 887 900 915 936 DEATHS	178 183 186 189 193 199 6 (1991 92 99 96 92 101	mental 6 477 484 488 494 499 509 Census- 102 99 100 95 89	115 115 115 119 124 126 130 based e	s and pr 434 439 446 452 460 471 xpectand 103 103 103 87 119	rojectio 15 16 18 18 20 21 cies)(% 113 111 90 50 36	3 191 3 239 3 289 3 341 3 394 3 469
EXPECTED E 1993 1994 1995 1996 1997 1998 ESTIMA 1993 1994 1995 1996 1997 1998	901 916 932 950 966 984 ATED COVER 39 41 43 34 16	96 Cens 202 206 209 211 215 219 RAGE OF 46 45 44 43 80 104	862 874 887 900 915 936 DEATHS	178 183 186 189 193 199 (1991 92 99 96 92 101 95	mental 6 477 484 488 494 499 509 Census- 102 99 100 95 89 95	115 115 119 124 126 130 based e	s and pr 434 439 446 452 460 471 xpectano 103 103 103 87 119 106	rojectio 15 16 18 18 20 21 cies) (% 113 111 90 50 36 27	ns)(c) 3 191 3 239 3 289 3 341 3 394 3 469
EXPECTED E 1993 1994 1995 1996 1997 1998 ESTIMA 1993 1994 1995 1996 1997 1998	901 916 932 950 966 984 ATED COVER 39 41 43 34 16 84	96 Cens 202 206 209 211 215 219 RAGE OF 46 45 44 43 80 104	862 874 887 900 915 936 DEATHS	178 183 186 189 193 199 (1991 92 99 96 92 101 95	mental 6 477 484 488 494 499 509 Census- 102 99 100 95 89 95	115 115 119 124 126 130 based e	s and pr 434 439 446 452 460 471 xpectano 103 103 103 87 119 106	rojectio 15 16 18 18 20 21 cies) (% 113 111 90 50 36 27	ns)(c) 3 191 3 239 3 289 3 341 3 394 3 469
EXPECTED E 1993 1994 1995 1996 1997 1998 ESTIMA 1993 1994 1995 1996 1997 1998	901 916 932 950 966 984 ATED COVER 39 41 43 34 16 84	96 Cens 202 206 209 211 215 219 RAGE OF 46 45 44 43 80 104	862 874 887 900 915 936 DEATHS	178 183 186 189 193 199 6 (1991 92 99 96 92 101 95	mental 6 477 484 488 494 499 509 Census- 102 99 100 95 89 95 Census-	115 115 119 124 126 130 based e	s and pr 434 439 446 452 460 471 xpectand 103 103 103 87 119 106	15 16 18 18 20 21 cies)(% 113 111 90 50 36 27	ns)(c) 3 191 3 239 3 289 3 341 3 394 3 469
EXPECTED E 1993 1994 1995 1996 1997 1998 ESTIMA 1993 1994 1995 1996 1997 1998 ESTIMA	901 916 932 950 966 984 ATED COVER 39 41 43 34 16 84	96 Cens 202 206 209 211 215 219 RAGE OF 46 45 44 43 80 104 RAGE OF	862 874 887 900 915 936 DEATHS	178 183 186 189 193 199 6 (1991 92 99 96 92 101 95	mental 6 477 484 488 494 499 509 Census- 102 99 100 95 89 95 Census- 81 78	115 115 115 119 124 126 130 based e	s and pr 434 439 446 452 460 471 xpectand 103 103 103 103 103 87 119 106 xpectand 87 87	rojectio 15 16 18 18 20 21 cies)(% 113 111 90 50 36 27	ns)(c) 3 191 3 239 3 289 3 341 3 394 3 469
EXPECTED E 1993 1994 1995 1996 1997 1998 ESTIMA 1993 1994 1995 1998 ESTIMA 1998	901 916 932 950 966 984 ATED COVER 39 41 43 34 16 84 ATED COVER	96 Cens 202 206 209 211 215 219 RAGE OF 46 45 44 43 80 104 RAGE OF	B62 862 874 887 900 915 936 DEATHS	178 183 186 189 193 199 96 92 101 95 6 (1996 62 67 65	mental 6 477 484 488 494 499 509 Census- 102 99 100 95 89 95 Census- 81 78 79	115 115 115 119 124 126 130 based e	s and pr 434 439 446 452 460 471 xpectand 103 103 103 103 104 105 xpectand 87 87 87 87	rojectio 15 16 18 18 20 21 cies)(% 113 111 90 50 36 27	ns)(c) 3 191 3 239 3 289 3 341 3 394 3 469) 53 54 59 72 92) 36 36
EXPECTED D 1993 1994 1995 1996 1997 1998 ESTIMA 1993 1994 1995 1996 1997 1998	901 916 932 950 966 984 ATED COVER 39 41 43 34 16 84	96 Cens 202 206 209 211 215 219 RAGE OF 46 45 44 43 80 104 RAGE OF	B62 862 874 887 900 915 936 DEATHS	178 183 186 189 193 199 6 (1991 92 99 96 92 101 95	mental 6 477 484 488 494 499 509 Census- 102 99 100 95 89 95 Census- 81 78	estimate 115 115 119 124 126 130 based e 12 6 6 - 9 22 based e	s and pr 434 439 446 452 460 471 xpectand 103 103 103 103 103 87 119 106 xpectand 87 87	rojectio 15 16 18 18 20 21 cies)(% 113 111 90 50 36 27	ns)(c) 3 191 3 239 3 289 3 341 3 394 3 469

⁽a) Includes Other Territories from 1993.

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⁽b) Source: ABS, Experimental Projections of the Aboriginal and Torres Strait Islander Population, 30 June 1991–30 June 2001 (Cat. no. 3231.0), medium series.

⁽c) Source: 1992–1996 estimates derived from ABS, Experimental Estimates of the Aboriginal and Torres StraitPopulation, 1991–1996 (Cat. no. 3230.0). 1997 and 1998 projection from ABS, Experimental Projections Aboriginal and Torres Strait Island population, 1991–2006 (Cat. no. 3231.0), low series.

TECHNICAL NOTE

YEARS OF POTENTIAL LIFE LOST

YPLL measures the extent of 'premature' mortality, which is assumed to be any death at ages of 1–75 years inclusive, and aids in assessing the significance of specific diseases or trauma as a cause of premature death.

PREMATURE MORTALITY, Deaths of Persons Aged 1–75 Years

	YPLL(a)	
Cause of death and ICD code	Males	Females
• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • •	• • • • • •
All causes	589 139	297 310
Malignant neoplasms (cancer) (140–208)	147 563	119 020
Accidents (E800–E949)	104 135	32 482
Motor vehicle traffic accidents (E810–E819)	49 858	17 563
Suicide (E950–E959)	78 658	17 848
Ischaemic heart disease (410–414)	76 209	22 173
Drug dependence (304)	23 442	5 503
Cerebrovascular disease (stroke) (430–438)	16 140	12 043
Chronic obstructive pulmonary disease and allied conditions		
(including asthma, emphysema and bronchitis) (490–496)	14 213	11 060
Chronic liver disease and cirrhosis (571)	11 154	4 258
Diabetes mellitus (250)	8 768	5 470
Pneumonia and influenza (480–487)	4 973	3 460
Diseases of arteries, arterioles and capillaries		
(including atherosclerosis and aortic aneurysm) (440–448)	4 687	2 435
Hereditary and degenerative diseases of the central nervous		
system (330–337)	4 197	2 909
••••••	• • • • • • • • • • •	• • • • • •

(a) Years of potential life lost standardised for age.

Estimates of YPLL were calculated for deaths of persons aged 1–75 years based on the assumption that deaths occurring at these ages are untimely. A number of variables are used in these calculations, as described below.

YPLL is derived from:

$$YPLL = \sum_{x} (D_x (76 - A_x))$$

where

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

 $D_x = \text{registered number of deaths at age } x \text{ due to a particular cause of death.}$

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YEARS OF POTENTIAL LIFE LOST continued

YPLL was standardised for age using the following formula:

$$YPLL_s = \sum_{x} (D_x (76 - A_x) C_x)$$

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

$$C_{x} = \frac{N_{xx}}{N_{s}} \cdot \frac{1}{N_{x}} \cdot N$$

where:

N = number of persons aged 1–75 years in the 1998 population

 N_x = number of persons aged x years in the 1998 population

 N_{xx} = number of persons aged x years in the standard population

 N_s = number of persons aged 1–75 years in the standard population

The Australian population at 30 June 1991 was chosen as the standard population.

GLOSSARY

Adjusted births

Registered births adjusted by removing all stillbirths and neonatal deaths where birthweight was known to be less than 400 g. 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.

Death rates

Four forms of death rate are shown in the general deaths section in this publication. These are crude death rates, standardised death rates, age-specific death rates and infant death rates, as defined below:

- *Crude death rates* relate to the total number of deaths for specific causes and are the number of deaths for those causes per 100,000 of estimated resident population at 30 June of that year—see table 2.4.
- 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 1991 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. It is the overall death rate that would have prevailed in the standard population if it had experienced at each age the death rates of the population under study—see tables 1.4 and 1.7.
- 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 births in the year—see table1.2.

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 live births and fetal deaths combined (where birthweight was at least 400 g).
- for neonatal deaths, the rates represent the number of deaths per 1,000 live births (where birthweight was at least 400 g).

Fetal death

A fetal death is the delivery of a child who did not, at any time after delivery, breathe or show any other evidence of life such as a heartbeat. (A birthweight criterion applies. See Explanatory Notes, paragraphs 4–6.)

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 4–6.)

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Multiple causes of death

All morbid conditions, diseases and injuries entered on the death certificate. These include those involved in the morbid train of events leading to death which were classified as either the underlying cause, the immediate cause, or any intervening causes and those conditions which contributed to death, but were not related to the disease or condition causing death. For deaths where the underlying cause was identified as an external cause (injury or poisoning) multiple causes include circumstances of injury, the nature of injury as well as any other conditions reported on the death certificate.

Neonatal death

A neonatal death is the death within 28 days of birth of any child who after delivery, breathed or showed any other evidence of life such as a heartbeat. (A birthweight criterion applies. See Explanatory Notes, paragraphs 4–6.)

Perinatal death

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

Period of gestation

Period of gestation is measured from the first day of the last normal menstrual period to the date of birth and is expressed in completed weeks.

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 1–75 years inclusive. By estimating YPLL for deaths of people aged 1–75 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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