

# **CAUSES OF DEATH**

AUSTRALIA

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■ For further information about these and related statistics, contact the National Information Service on 1300 135 070, 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 data coded to the tenth revision of the International Classification of Diseases (ICD). All cause text descriptors and code references now reflect this change.

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

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

Table 1.1, Underlying Cause, Selected Causes provides numbers and proportions of leading causes of death for the current year.

Table 1.8, Underlying Cause, Indigenous People has been expanded in this issue to include New South Wales and Victorian data.

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 Revision 9
ICD-9 CM	International Classification of Diseases Revision 9 Clinically Modified
ICD-10	International Classification of Diseases Revision 10
NCHS	National Center for Health Statistics
WHO	World Health Organisation
YPLL	Years of Potential Life Lost
	not applicable
_	nil or rounded to zero (including null cells)

Dennis Trewin Australian Statistician

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# SECTION 1

# UNDERLYING CAUSE OF DEATH .....

#### INTRODUCTION

All deaths registered from 1 January 1999 have been coded using the tenth revision of the International Classification of Diseases (ICD-10). Data for other years are coded to ICD-9. Mortality data coded to ICD-10 are generally comparable at the broad chapter level to deaths coded to ICD-9.

To assist with comparisons over time, at a more detailed level, the ABS is recoding 1997 and 1998 deaths data to ICD-10. Therefore, 1997 and 1998 deaths will be available coded to both ICD versions. In addition to data for these two years, comparability factors will be produced during 2001. Further explanation on the comparability between ICD-9 and ICD-10 as detailed in this publication is provided in Appendix 5.

#### LEADING CAUSES

There were 128,102 deaths registered in 1999, consisting of 67,227 male and 60,875 female deaths. This represented an increase of 0.7% on the corresponding figure for 1998 (127,202 deaths). Malignant neoplasms and ischaemic heart diseases were the leading causes of death, accounting for 27% and 22% respectively of total deaths registered. The introduction of ICD-10 has had only a minor impact on the composition and contribution of the ten leading causes of death in 1999, with pneumonia and influenza being most affected. Changes are discussed further in Appendix 5.

#### LEADING CAUSES OF DEATH

• • • • • • • • • • • • • • • • • • • •	• • • • • •		• • • • • •	• • • •
	Males	Females	P. Persons	roportion of total deaths
Cause of death and ICD code	no.	no.	no.	%
	• • • • • •		• • • • • •	
All causes	67 277	60 875	128 102	100.0
Malignant neoplasms (cancer) (C00–C97) Digestive organs (C15–C26)	19 866 5 600	15 187 4 312	35 053 9 912	27.4 7.7
Trachea, bronchus and lung (C33, C34)	4 655	2 148	6 803	5.3
Ischaemic heart diseases (I20-I25)	14 865	12 744	27 609	21.6
Cerebrovascular diseases (stroke) (I60–I69)	4 894	7 372	12 266	9.6
Chronic lower respiratory diseases (including asthma,				
emphysema and bronchitis) (J40–J47)	3 609	2 487	6 096	4.8
Accidents (V01–X59)	3 486	1 801	5 287	4.1
Transport accidents (V01–V99)	1 441	570	2 011	1.6
Diabetes mellitus (E10–E14)	1 485	1 462	2 947	2.3
Diseases of arteries, arterioles and capillaries (including				
atherosclerosis and aortic aneurysm) (I70–I79)	1 476	1 388	2 864	2.2
Intentional self-harm (X60–X84)	2 002	490	2 492	1.9
Organic, including symptomatic, mental disorders (F00–F09)	648	1 296	1 944	1.5
Influenza and pneumonia (J10–J18)	765	1 133	1 898	1.5
All other causes	14 131	15 515	29 646	23.1

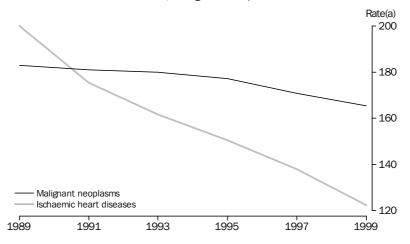
ABS • CAUSES OF DEATH • 3303.0 • 1999

#### TRENDS OVER THE LAST DECADE

While the total number of deaths registered in 1999 was 3.1% greater than the number registered in 1989, the standardised death rate of 584 deaths per 100,000 population recorded in 1999 was 23% lower than the corresponding figure of 759 in 1989. These figures are consistent with continuing improvements in life expectancy in Australia.

During the ten years to 1999, the pattern of decline of the two leading causes of death, malignant neoplasms and ischaemic heart diseases, which account for nearly half the total deaths, has been quite different. Since 1989, the standardised death rate for malignant neoplasms decreased 10%, while the rate for ischaemic heart diseases decreased 39%.

#### STANDARDISED DEATH RATES, Malignant Neoplasms and Ischaemic Heart Diseases



(a) Per 100,000 estimated resident population.

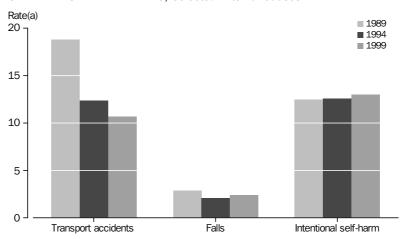
#### EXTERNAL CAUSES

External causes of death relate to deaths from accidents, poisonings and violence and were responsible for 6.5% of all deaths registered in 1999. External causes of death account for a higher proportion of male deaths (8.7%) than females (4.1%). External causes have a relatively higher impact on those in the younger age groups. For example, in 1999, deaths from external causes accounted for 69% of all deaths in the 15–24 year age group, 62% in the 25–34 year age group and 43% in the 1–14 year age group.

Since 1989, there has been a considerable decrease in the number of deaths from external causes. This decrease has largely been driven by the decline in the deaths from transport accidents (from 3,163 in 1989 to 2,011 in 1999). Deaths from accidental drowning declined by 11% during this period from 314 in 1989 to 278 in 1999. However, this decline has not been evident across all external causes. For example, deaths as a result of intentional self-harm (suicide) rose from 2,096 in 1989 to 2,492 in 1999.

#### EXTERNAL CAUSES continued

#### STANDARDISED DEATH RATES, Selected External Causes



# 1.1 UNDERLYING CAUSE, Selected Causes

	NUMBERS				AGE OF AL	
Cause of death and ICD code	Males	Females	Persons	Males	Females	Persons
	• • • • • • • •		• • • • • • •		• • • • • • •	
All causes Chapter I Certain infectious and parasitic diseases (A00–B99)	<b>67 227</b> 842	<b>60 875</b> 761	<b>128 102</b> 1 603	<b>100.0</b> 1.3	<b>100.0</b> 1.3	<b>100.0</b> 1.3
Human immunodeficiency virus (HIV) disease (B20–B24)	126	9	135	0.2	_	0.1
Chapter II Neoplasms (C00–D48)	20 283	15 573	35 856	30.2	25.6	28.0
Malignant neoplasms (C00–C97)	19 866	15 187	35 053	29.6	24.9	27.4
Digestive organs (C15–C26)	5 600	4 312	9 912	8.3	7.1	7.7
Respiratory and intrathoracic organs (C30–C39)	4 923	2 213	7 136	7.3	3.6	5.6
Breast (C50)	22	2 505	2 527	_	4.1	2.0
Female genital organs (C51–C58)		1 300	1 300		2.1	1.0
Male genital organs (C60–C63)	2 546		2 546	3.8	• •	2.0
Eye, brain and other parts of central nervous system (C69–C72)	609	459	1 068	0.9	0.8	0.8
Lymphoid, haematopoietic and related tissue (C81–C96)	1 962	1 596	3 558	2.9	2.6	2.8
In situ and benign neoplasms and neoplasms of uncertain or	1 902	1 590	3 336	2.9	2.0	2.0
unknown behaviour (D00–D48)	417	386	803	0.6	0.6	0.6
Chapter III Diseases of the blood and blood-forming organs and		000	000	0.0	0.0	0.0
certain disorders involving the immune mechanism (D50–D89)	195	255	450	0.3	0.4	0.4
Chapte IV Endocrine, nutritional and metabolic diseases (E00–E90)	2 001	2 099	4 100	3.0	3.4	3.2
Diabetes mellitus (E10–E14)	1 485	1 462	2 947	2.2	2.4	2.3
Chapter V Mental and behavioural disorders (F00–F99)	1 256	1 552	2 808	1.9	2.5	2.2
Organic, including symptomatic, mental disorders (F00–F09)	648	1 296	1 944	1.0	2.1	1.5
Psychoactive substance use (F10-F19)	546	167	713	0.8	0.3	0.6
Chapter VI Diseases of the nervous system (G00–G99)	1 818	2 072	3 890	2.7	3.4	3.0
Extrapyramidal and movement disorders (G20-G26)	471	323	794	0.7	0.5	0.6
Chapter VII Diseases of the eye and adnexa (H00–H59)	_	5	5	_	_	_
Chapter VIII Diseases of the ear and mastoid process (H60–H95)	_	6	6	_	_	_
Chapter IX Diseases of the circulatory system (I00–I99)	24 824	26 479	51 303	36.9	43.5	40.0
All heart disease (I05–I09, I11, I13, I20–I25, I26, I27, I30–I52)	18 116	17 229	35 345	26.9	28.3	27.6
Acute rheumatic fever and chronic rheumatic heart						
disease (100–109)	84	177	261	0.1	0.3	0.2
Hypertensive diseases (I10–I15)	432	745	1 177	0.6	1.2	0.9
Ischaemic heart diseases (I20–I25) Pulmonary heart disease and diseases of pulmonary	14 865	12 744	27 609	22.1	20.9	21.6
circulation (I26–I28)	191	322	513	0.3	0.5	0.4
Other forms of heart disease (I30–I52)	2 764	3 574	6 338	4.1	5.9	4.9
Cerebrovascular diseases (160–169)	4 894	7 372	12 266	7.3	12.1	9.6
Diseases of arteries, arterioles and capillaries (I70–I79)	1 476	1 388	2 864	2.2	2.3	2.2
Chapter X Diseases of the respiratory system (J00–J99)	5 296	4 317	9 613	7.9	7.1	7.5
Influenza and pneumonia (J10–J18)	765	1 133	1 898	1.1	1.9	1.5
Chronic lower respiratory diseases (J40–J47)	3 609	2 487	6 096	5.4	4.1	4.8
Chapter XI Diseases of the digestive system (K00–K93)	2 111	2 110	4 221	3.1	3.5	3.3
Diseases of oesophagus, stomach and duodenum (K20-K31)	313	335	648	0.5	0.6	0.5
Diseases of liver (K70–K77)	863	380	1 243	1.3	0.6	1.0
Chapter XII Diseases of the skin and subcutaneous tissue (L00–L99)	108	181	289	0.2	0.3	0.2
Chapter XIII Diseases of the musculoskeletal system and connective						
tissue (M00–M99)	300	562	862	0.4	0.9	0.7
Chapter XIV Diseases of the genitourinary system (N00–N99)	1 232	1 536	2 768	1.8	2.5	2.2
Glomerular diseases (N00–N08)	48	51	99	0.1	0.1	0.1
Renal failure (N17–N19)	842	919	1 761	1.3	1.5	1.4
Chapter XV Pregnancy, childbirth and the puerperium (000–099) Chapter XVI Certain conditions originating in the perinatal		11	11		_	_
period (P00–P96)	377	264	641	0.6	0.4	0.5
Chapter XVII Congenital malformations, deformations and chromosomal abnormalities (Q00–Q99)	392	323	715	0.6	0.5	0.6
Chapter XVIII Symptoms, signs and abnormal clinical and laboratory						
findings, not elsewhere classified (R00–R99)	324	276	600	0.5	0.5	0.5
Chapter XX External causes of morbidity and mortality (V01–Y98)	5 868	2 493	8 361	8.7	4.1	6.5
Accidents (V01–X59)	3 486	1 801	5 287	5.2	3.0	4.1
Transport accidents (V01–V99)	1 441	570	2 011	2.1	0.9	1.6
Falls (W00–W19)	309	211	520	0.5	0.3	0.4
Accidental drowning and submersion (W65–W74)	203	75 400	278	0.3	0.1	0.2
Intentional self-harm (X60–X84) Assault (X85–Y09)	2 002 204	490 96	2 492 300	3.0 0.3	0.8 0.2	1.9 0.2
Module (NOC 100)	ZU <del>4</del>	90	300	0.5	∪.∠	0.2
0						

#### **1.2** UNDERLYING CAUSE, Selected Causes and Age at Death

PERCENTAGE OF ALL DEATHS OF SAME

NUMBER OF DEATHS AGE AND SEX......

	NUME	BER OF DE	EATHS	AGE A	ND SEX	
Cause of death and ICD code	Males	Females	Persons	Males	Females	Persons
• • • • • • • • • • • • • • • • • • • •	• • • • • •			• • • • • • •		
Under 1 year	812	596	1 408	100.0	100.0	100.0
Certain conditions originating in the perinatal period (P00–P96)  Maternal factors and by complications of pregnancy, labour and	373	262	635	45.9	44.0	45.1
delivery (P00–P04)  Disorders related to short gestation and low birthweight,	213	147	360	26.2	24.7	25.6
not elsewhere classified (P07)	13	15	28	1.6	2.5	2.0
Respiratory and cardiovascular disorders specific to the perinatal period (P20–P29)	75	43	118	9.2	7.2	8.4
Infections specific to the perinatal period (P35–P39) Haemorrhagic and haematological disorders of fetus and newborn (P50–P61)	17 21	13 14	30 35	2.1	2.2	2.1
Congenital malformations, deformations and chromosomal	21	14	33	2.0	2.0	2.0
abnormalities (Q00–Q99)	233	193	426	28.7	32.4	30.3
Congenital malformations of the nervous system (Q00–Q07)	32	24	56	3.9	4.0	4.0
Congenital malformations of circulatory system (Q20–Q28)	76	59	135	9.4	9.9	9.6
Congenital malformations of the respiratory system (Q30–Q34) Sudden infant death syndrome (R95)	29 94	16 61	45 155	3.6 11.6	2.7 10.2	3.2 11.0
•						
1–14 years	371	290	661	100.0	100.0	100.0
Malignant neoplasms (C00–C97)	67	42	109	18.1	14.5	16.5
Brain (C71) Lymphoid, haematopoietic and related tissue (C81–C96)	21 27	9 18	30 45	5.7 7.3	3.1 6.2	4.5 6.8
Leukaemia (C91–C95)	23	16	45 39	6.2	5.5	5.9
Diseases of the nervous system (G00–G99)	30	32	62	8.1	11.0	9.4
Congenital malformations, deformations and chromosomal	00	02	02	0.1	11.0	0.1
abnormalities (Q00–Q99)	33	19	52	8.9	6.6	7.9
External causes of morbidity and mortality (V01–Y98)	167	117	284	45.0	40.3	43.0
Transport accidents (V01–V99)	60	67	127	16.2	23.1	19.2
Accidental drowning and submersion (W65–W74)	46	17	63	12.4	5.9	9.5
15–24 years	1 388	484	1 872	100.0	100.0	100.0
Malignant neoplasms (C00–C97)	95	47	142	6.8	9.7	7.6
Lymphoid, haematopoietic and related tissue (C81–C96) Leukaemia (C91–C95)	49 35	18 11	67 46	3.5 2.5	3.7 2.3	3.6 2.5
Mental and behavioural disorders due to psychoactive substance use (F10–F19)	68	27	95	4.9	5.6	5.1
Diseases of the nervous system (G00–G99)	58	23	81	4.2	4.8	4.3
External causes of morbidity and mortality (V01–Y98)	1 015	278	1 293	73.1	57.4	69.1
Transport accidents (V01–V99)	407	116	523	29.3	24.0	27.9
Intentional self-harm (X60–X84)	309	71	380	22.3	14.7	20.3
25–34 years	2 003	721	2 724	100.0	100.0	100.0
Malignant neoplasms (C00–C97)	143	153	296	7.1	21.2	10.9
Digestive organs (C15–C26)	25	22	47	1.2	3.1	1.7
Melanoma of skin (C43) Breast (C50)	17 —	15 26	32 26	0.8	2.1 3.6	1.2 1.0
Brain (C71)	 25	13	38	1.2	1.8	1.4
Lymphoid, haematopoietic and related tissue (C81–C96)	32	33	65	1.6	4.6	2.4
Mental and behavioural disorders due to psychoactive						
substance use (F10–F19) Diseases of the circulatory system (I00–I99)	137	30	167 186	6.8 6.1	4.2 9.7	6.1
Ischaemic heart diseases (I20–I25)	123 48	63 13	186 61	6.1 2.4	8.7 1.8	6.8 2.2
Acute myocardial infarction (I21)	20	4	24	1.0	0.6	0.9
Diseases of the digestive system (K00–K93)	30	14	44	1.5	1.9	1.6
Diseases of liver (K70–K77)	23	8	31	1.1	1.1	1.1
External causes of morbidity and mortality (V01–Y98)	1 368	328	1 696	68.3	45.5	62.3
Transport accidents (V01–V99)	306	84	390	15.3	11.7	14.3
Intentional self-harm (X60–X84)	507	116	623	25.3	16.1	22.9

# 1.2 UNDERLYING CAUSE, Selected Causes and Age at Death continued

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

	NUMBER OF DEATHS			AGE AND SEX			
Cause of death and ICD code	Males	Females	Persons	Males	Females	Persons	
••••••	• • • • • • •		• • • • • • •	• • • • • • •	• • • • • •		
35–44 years	2 368	1 318	3 686	100.0	100.0	100.0	
Malignant neoplasms (C00–C97)	421	558	979	17.8	42.3	26.6	
Digestive organs (C15–C26)  Melanoma of skin (C43)	98 43	87 30	185 73	4.1 1.8	6.6 2.3	5.0 2.0	
Breast (C50)	43 5	200	205	0.2	2.3 15.2	5.6	
Brain (C71)	52	32	84	2.2	2.4	2.3	
Lymphoid, haematopoietic and related tissue (C81–C96)	70	50	120	3.0	3.8	3.3	
Mental and behavioural disorders due to psychoactive							
substance use (F10–F19)	112	29	141	4.7	2.2	3.8	
Diseases of the circulatory system (I00–I99)	415	150	565	17.5	11.4	15.3	
Ischaemic heart diseases (I20–I25)	267	51	318	11.3	3.9	8.6	
Acute myocardial infarction (I21)	119	20	139	5.0	1.5	3.8	
Diseases of the digestive system (K00–K93)	117	78	195	4.9	5.9	5.3	
Diseases of liver (K70–K77)	96	58	154	4.1	4.4	4.2	
External causes of morbidity and mortality (V01–Y98)	1 019	299	1 318	43.0	22.7	35.8	
Transport accidents (V01–V99)	206	57	263	8.7	4.3	7.1	
Intentional self-harm (X60–X84)	427	104	531	18.0	7.9	14.4	
45–54 years	4 050	2 475	6 525	100.0	100.0	100.0	
Malignant neoplasms (C00–C97)	1 402	1 389	2 791	34.6	56.1	42.8	
Digestive organs (C15–C26)	433	255	688	10.7	10.3	10.5	
Colon (C18)	113	89	202	2.8	3.6	3.1	
Trachea, bronchus and lung (C33, C34)	294	176	470	7.3	7.1	7.2	
Breast (C50)	1	450	451	_	18.2	6.9	
Lymphoid, haematopoietic and related tissue (C81–C96)	158	102	260	3.9	4.1	4.0	
Diseases of the circulatory system (IOO–I99)	1 133	351	1 484	28.0	14.2	22.7	
Ischaemic heart diseases (I20–I25)	813 388	144	957	20.1	5.8	14.7	
Acute myocardial Infarction (I21) Cerebrovascular diseases (I60–I69)	121	81 96	469 217	9.6 3.0	3.3 3.9	7.2 3.3	
Diseases of the respiratory system (J00–J99)	95	99	194	2.3	4.0	3.0	
Disease of the digestive system (K00–K93)	257	87	344	6.3	3.5	5.3	
Diseases of liver (K70–K77)	204	56	260	5.0	2.3	4.0	
External causes of morbidity and mortality (V01–Y98)	686	244	930	16.9	9.9	14.3	
Transport accidents (V01–V99)	128	60	188	3.2	2.4	2.9	
Intentional self-harm (X60–X84)	312	97	409	7.7	3.9	6.3	
55-64 years	7 268	4 104	11 372	100.0	100.0	100.0	
Malignant neoplasms (C00-C97)	3 171	2 216	5 387	43.6	54.0	47.4	
Digestive organs (C15–C26)	1 036	543	1 579	14.3	13.2	13.9	
Colon (C18)	330	214	544	4.5	5.2	4.8	
Trachea, bronchus and lung (C33, C34)	833	364	1 197	11.5	8.9	10.5	
Breast (C50)	4	523	527	0.1	12.7	4.6	
Female genital organs (C51–C58)		207	207		5.0	1.8	
Male genital organs (C60–C63) Diseases of the circulatory system (I00–I99)	151		151	2.1		1.3	
Ischaemic heart diseases (I20–I25)	2 289 1 625	890 462	3 179 2 087	31.5 22.4	21.7 11.3	28.0 18.4	
Acute myocardial infarction (I21)	836	247	1 083	11.5	6.0	9.5	
Cerebrovascular diseases (160–169)	309	213	522	4.3	5.2	4.6	
Diseases of the respiratory system (J00–J99)	372	256	628	5.1	6.2	5.5	
Chronic lower respiratory diseases (J40–J47)	278	196	474	3.8	4.8	4.2	
Diseases of the digestive system (K00–K93)	276	116	392	3.8	2.8	3.4	
External causes of morbidity and mortality (V01–Y98)	433	160	593	6.0	3.9	5.2	

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#### 1.2 UNDERLYING CAUSE, Selected Causes and Age at Death continued

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

Cause of death and ICD code	Males	Females	Persons	Males	Females	Persons
65-74 years	15 878	9 319	25 197	100.0	100.0	100.0
Malignant neoplasms (C00–C97)	6 290	3 846	10 136	39.6	41.3	40.2
Digestive organs (C15–C26)	1 865	1 094	2 959	11.7	11.7	11.7
Colon (C18)	604	377	981	3.8	4.0	3.9
Trachea, bronchus and lung (C33, C34)	1 748	721	2 469	11.0	7.7	9.8
Breast (C50)	6	500	506	_	5.4	2.0
Prostate (C61)	627		627	3.9		2.5
Lymphoid, haematopoietic and related tissue (C81–C96)	547	340	887	3.4	3.6	3.5
Endocrine, nutritional and metabolic diseases (E00–E90)	542	383	925	3.4	4.1	3.7
Diabetes mellitus (E10–E14)	415	284	699	2.6	3.0	2.8
Diseases of the nervous system (G00–G99)	380	277	657	2.4	3.0	2.6
Alzheimer's disease (G30)	84	67	151	0.5	0.7	0.6
Diseases of the circulatory system (I00–I99)	5 667	2 950	8 617	35.7	31.7	34.2
Ischaemic heart diseases (I20–I25)	3 714	1 617	5 331	23.4	17.4	21.2
Acute myocardial infarction (I21)	2 012	966	2 978	12.7	10.4	11.8
Cerebrovascular diseases (I60–I69)	935	701	1 636	5.9	7.5	6.5
Diseases of the respiratory system (J00–J99) Chronic lower respiratory diseases (J40–J47)	1 377 1 075	737 611	2 114 1 686	8.7 6.8	7.9 6.6	8. <i>4</i> 6.7
Diseases of the digestive system (K00–K93)	483	316	799	3.0	3.4	6.7 3.2
Diseases of the digestive system (NOO-N93)	483	310	799	3.0	3.4	3.2
75–84 years	20 976	19 128	40 104	100.0	100.0	100.0
<b>75–84 years</b> Malignant neoplasms (COO–C97)	<b>20 976</b> 6 048	<b>19 128</b> <i>4 470</i>	<b>40 104</b> 10 518	<b>100.0</b> 28.8	<b>100.0</b> 23.4	<b>100.0</b> 26.2
Malignant neoplasms (C00–C97)						
	6 048	4 470	10 518	28.8	23.4	26.2
Malignant neoplasms (C00–C97) Digestive organs (C15–C26)	6 048 1 555	4 470 1 437	10 518 2 992	28.8 7.4	23.4 7.5	26.2 7.5
Malignant neoplasms (C00–C97) Digestive organs (C15–C26) Colon (C18)	6 048 1 555 484	4 470 1 437 498	10 518 2 992 982	28.8 7.4 2.3	23.4 7.5 2.6	26.2 7.5 2.4
Malignant neoplasms (C00–C97) Digestive organs (C15–C26) Colon (C18) Trachea, bronchus and lung (C33, C34)	6 048 1 555 484 1 384	4 470 1 437 498 651	10 518 2 992 982 2 035	28.8 7.4 2.3 6.6	23.4 7.5 2.6 3.4	26.2 7.5 2.4 5.1
Malignant neoplasms (C00–C97) Digestive organs (C15–C26) Colon (C18) Trachea, bronchus and lung (C33, C34) Breast (C50)	6 048 1 555 484 1 384	4 470 1 437 498 651 506	10 518 2 992 982 2 035 512	28.8 7.4 2.3 6.6	23.4 7.5 2.6 3.4 2.6	26.2 7.5 2.4 5.1 1.3
Malignant neoplasms (C00–C97) Digestive organs (C15–C26) Colon (C18) Trachea, bronchus and lung (C33, C34) Breast (C50) Male genital organs (C60–C63)	6 048 1 555 484 1 384 6 1 149	4 470 1 437 498 651 506	10 518 2 992 982 2 035 512 1 149	28.8 7.4 2.3 6.6 — 5.5	23.4 7.5 2.6 3.4 2.6	26.2 7.5 2.4 5.1 1.3 2.9
Malignant neoplasms (C00–C97) Digestive organs (C15–C26) Colon (C18) Trachea, bronchus and lung (C33, C34) Breast (C50) Male genital organs (C60–C63) Prostate (C61)	6 048 1 555 484 1 384 6 1 149 1 140	4 470 1 437 498 651 506	10 518 2 992 982 2 035 512 1 149 1 140	28.8 7.4 2.3 6.6 — 5.5 5.4	23.4 7.5 2.6 3.4 2.6	26.2 7.5 2.4 5.1 1.3 2.9 2.8
Malignant neoplasms (C00–C97) Digestive organs (C15–C26) Colon (C18) Trachea, bronchus and lung (C33, C34) Breast (C50) Male genital organs (C60–C63) Prostate (C61) Lymphoid, haematopoietic and related tissue (C81–C96)	6 048 1 555 484 1 384 6 1 149 1 140 613	4 470 1 437 498 651 506 	10 518 2 992 982 2 035 512 1 149 1 140 1 156	28.8 7.4 2.3 6.6 — 5.5 5.4 2.9	23.4 7.5 2.6 3.4 2.6 	26.2 7.5 2.4 5.1 1.3 2.9 2.8 2.9
Malignant neoplasms (C00–C97) Digestive organs (C15–C26) Colon (C18) Trachea, bronchus and lung (C33, C34) Breast (C50) Male genital organs (C60–C63) Prostate (C61) Lymphoid, haematopoietic and related tissue (C81–C96) Endocrine, nutritional and metabolic diseases (E00–E90)	6 048 1 555 484 1 384 6 1 149 1 140 613 638	4 470 1 437 498 651 506  543 730	10 518 2 992 982 2 035 512 1 149 1 140 1 156 1 368	28.8 7.4 2.3 6.6 — 5.5 5.4 2.9 3.0	23.4 7.5 2.6 3.4 2.6  2.8 3.8	26.2 7.5 2.4 5.1 1.3 2.9 2.8 2.9 3.4
Malignant neoplasms (C00–C97) Digestive organs (C15–C26) Colon (C18) Trachea, bronchus and lung (C33, C34) Breast (C50) Male genital organs (C60–C63) Prostate (C61) Lymphoid, haematopoietic and related tissue (C81–C96) Endocrine, nutritional and metabolic diseases (E00–E90) Diabetes mellitus (E10–E14) Diseases of the nervous system (G00–G99) Alzheimer's disease (G30)	6 048 1 555 484 1 384 6 1 149 1 140 613 638 518 593 198	4 470 1 437 498 651 506  543 730 534	10 518 2 992 982 2 035 512 1 149 1 140 1 156 1 368 1 052	28.8 7.4 2.3 6.6 — 5.5 5.4 2.9 3.0 2.5	23.4 7.5 2.6 3.4 2.6  2.8 3.8 2.8	26.2 7.5 2.4 5.1 1.3 2.9 2.8 2.9 3.4 2.6 3.1
Malignant neoplasms (C00–C97) Digestive organs (C15–C26) Colon (C18) Trachea, bronchus and lung (C33, C34) Breast (C50) Male genital organs (C60–C63) Prostate (C61) Lymphoid, haematopoietic and related tissue (C81–C96) Endocrine, nutritional and metabolic diseases (E00–E90) Diabetes mellitus (E10–E14) Diseases of the nervous system (G00–G99) Alzheimer's disease (G30) Diseases of the circulatory system (I00–I99)	6 048 1 555 484 1 384 6 1 149 1 140 613 638 518 593 198 9 092	4 470 1 437 498 651 506  543 730 534 648 311 9 051	10 518 2 992 982 2 035 512 1 149 1 140 1 156 1 368 1 052 1 241 509 18 143	28.8 7.4 2.3 6.6 — 5.5 5.4 2.9 3.0 2.5 2.8 0.9 43.3	23.4 7.5 2.6 3.4 2.6  2.8 3.8 2.8 3.4 1.6 47.3	26.2 7.5 2.4 5.1 1.3 2.9 2.8 2.9 3.4 2.6 3.1 1.3
Malignant neoplasms (C00–C97) Digestive organs (C15–C26) Colon (C18) Trachea, bronchus and lung (C33, C34) Breast (C50) Male genital organs (C60–C63) Prostate (C61) Lymphoid, haematopoietic and related tissue (C81–C96) Endocrine, nutritional and metabolic diseases (E00–E90) Diabetes mellitus (E10–E14) Diseases of the nervous system (G00–G99) Alzheimer's disease (G30) Diseases of the circulatory system (I00–I99) Ischaemic heart diseases (I20–I25)	6 048 1 555 484 1 384 6 1 149 1 140 613 638 518 593 198 9 092 5 275	4 470 1 437 498 651 506  543 730 534 648 311 9 051 4 534	10 518 2 992 982 2 035 512 1 149 1 140 1 156 1 368 1 052 1 241 509 18 143 9 809	28.8 7.4 2.3 6.6 — 5.5 5.4 2.9 3.0 2.5 2.8 0.9 43.3 25.1	23.4 7.5 2.6 3.4 2.6  2.8 3.8 2.8 3.4 1.6 47.3 23.7	26.2 7.5 2.4 5.1 1.3 2.9 2.8 2.9 3.4 2.6 3.1 1.3 45.2 24.5
Malignant neoplasms (C00–C97) Digestive organs (C15–C26) Colon (C18) Trachea, bronchus and lung (C33, C34) Breast (C50) Male genital organs (C60–C63) Prostate (C61) Lymphoid, haematopoietic and related tissue (C81–C96) Endocrine, nutritional and metabolic diseases (E00–E90) Diabetes mellitus (E10–E14) Diseases of the nervous system (G00–G99) Alzheimer's disease (G30) Diseases of the circulatory system (I00–I99) Ischaemic heart diseases (I20–I25) Acute myocardial infarction (I21)	6 048 1 555 484 1 384 6 1 149 1 140 613 638 518 593 198 9 092 5 275 2 986	4 470 1 437 498 651 506  543 730 534 648 311 9 051 4 534 2 726	10 518 2 992 982 2 035 512 1 149 1 140 1 156 1 368 1 052 1 241 509 18 143 9 809 5 712	28.8 7.4 2.3 6.6 — 5.5 5.4 2.9 3.0 2.5 2.8 0.9 43.3 25.1 14.2	23.4 7.5 2.6 3.4 2.6  2.8 3.8 2.8 3.4 1.6 47.3 23.7 14.3	26.2 7.5 2.4 5.1 1.3 2.9 2.8 2.9 3.4 2.6 3.1 1.3 45.2 24.5 14.2
Malignant neoplasms (C00–C97) Digestive organs (C15–C26) Colon (C18) Trachea, bronchus and lung (C33, C34) Breast (C50) Male genital organs (C60–C63) Prostate (C61) Lymphoid, haematopoietic and related tissue (C81–C96) Endocrine, nutritional and metabolic diseases (E00–E90) Diabetes mellitus (E10–E14) Diseases of the nervous system (G00–G99) Alzheimer's disease (G30) Diseases of the circulatory system (I00–I99) Ischaemic heart diseases (I20–I25) Acute myocardial infarction (I21) Cerebrovascular diseases (I60–I69)	6 048 1 555 484 1 384 6 1 149 1 140 613 638 518 593 198 9 092 5 275 2 986 1 938	4 470 1 437 498 651 506  543 730 534 648 311 9 051 4 534 2 726 2 494	10 518 2 992 982 2 035 512 1 149 1 140 1 156 1 368 1 052 1 241 509 18 143 9 809 5 712 4 432	28.8 7.4 2.3 6.6 — 5.5 5.4 2.9 3.0 2.5 2.8 0.9 43.3 25.1 14.2 9.2	23.4 7.5 2.6 3.4 2.6  2.8 3.8 2.8 3.4 1.6 47.3 23.7 14.3 13.0	26.2 7.5 2.4 5.1 1.3 2.9 2.8 2.9 3.4 2.6 3.1 1.3 45.2 24.5 14.2 11.1
Malignant neoplasms (C00–C97) Digestive organs (C15–C26) Colon (C18) Trachea, bronchus and lung (C33, C34) Breast (C50) Male genital organs (C60–C63) Prostate (C61) Lymphoid, haematopoietic and related tissue (C81–C96) Endocrine, nutritional and metabolic diseases (E00–E90) Diabetes mellitus (E10–E14) Diseases of the nervous system (G00–G99) Alzheimer's disease (G30) Diseases of the circulatory system (I00–I99) Ischaemic heart diseases (I20–I25) Acute myocardial infarction (I21) Cerebrovascular diseases (I60–I69) Diseases of arteries, arterioles and capillaries (I70–I79)	6 048 1 555 484 1 384 6 1 149 1 140 613 638 518 593 198 9 092 5 275 2 986 1 938 601	4 470 1 437 498 651 506  543 730 534 648 311 9 051 4 534 2 726 2 494 480	10 518 2 992 982 2 035 512 1 149 1 140 1 156 1 368 1 052 1 241 509 18 143 9 809 5 712 4 432 1 081	28.8 7.4 2.3 6.6 — 5.5 5.4 2.9 3.0 2.5 2.8 0.9 43.3 25.1 14.2 9.2 2.9	23.4 7.5 2.6 3.4 2.6  2.8 3.8 2.8 3.4 1.6 47.3 23.7 14.3 13.0 2.5	26.2 7.5 2.4 5.1 1.3 2.9 2.8 2.9 3.4 2.6 3.1 1.3 45.2 24.5 14.2 11.1 2.7
Malignant neoplasms (C00–C97) Digestive organs (C15–C26) Colon (C18) Trachea, bronchus and lung (C33, C34) Breast (C50) Male genital organs (C60–C63) Prostate (C61) Lymphoid, haematopoietic and related tissue (C81–C96) Endocrine, nutritional and metabolic diseases (E00–E90) Diabetes mellitus (E10–E14) Diseases of the nervous system (G00–G99) Alzheimer's disease (G30) Diseases of the circulatory system (I00–I99) Ischaemic heart diseases (I20–I25) Acute myocardial infarction (I21) Cerebrovascular diseases (I60–I69) Diseases of the respiratory system (J00–J99)	6 048 1 555 484 1 384 6 1 149 1 140 613 638 518 593 198 9 092 5 275 2 986 1 938 601 2 124	4 470 1 437 498 651 506  543 730 534 648 311 9 051 4 534 2 726 2 494 480 1 503	10 518 2 992 982 2 035 512 1 149 1 140 1 156 1 368 1 052 1 241 509 18 143 9 809 5 712 4 432 1 081 3 627	28.8 7.4 2.3 6.6 — 5.5 5.4 2.9 3.0 2.5 2.8 0.9 43.3 25.1 14.2 9.2 2.9 10.1	23.4 7.5 2.6 3.4 2.6  2.8 3.8 2.8 3.4 1.6 47.3 23.7 14.3 13.0 2.5 7.9	26.2 7.5 2.4 5.1 1.3 2.9 2.8 2.9 3.4 2.6 3.1 1.3 45.2 24.5 14.2 11.1 2.7 9.0
Malignant neoplasms (C00–C97) Digestive organs (C15–C26) Colon (C18) Trachea, bronchus and lung (C33, C34) Breast (C50) Male genital organs (C60–C63) Prostate (C61) Lymphoid, haematopoietic and related tissue (C81–C96) Endocrine, nutritional and metabolic diseases (E00–E90) Diabetes mellitus (E10–E14) Diseases of the nervous system (G00–G99) Alzheimer's disease (G30) Diseases of the circulatory system (I00–I99) Ischaemic heart diseases (I20–I25) Acute myocardial infarction (I21) Cerebrovascular diseases (I60–I69) Diseases of arteries, arterioles and capillaries (I70–I79) Diseases of the respiratory system (J00–J99) Chronic lower respiratory diseases (J40–J47)	6 048 1 555 484 1 384 6 1 149 1 140 613 638 518 593 198 9 092 5 275 2 986 1 938 601 2 124 1 471	4 470 1 437 498 651 506  543 730 534 648 311 9 051 4 534 2 726 2 494 480 1 503 952	10 518 2 992 982 2 035 512 1 149 1 140 1 156 1 368 1 052 1 241 509 18 143 9 809 5 712 4 432 1 081 3 627 2 423	28.8 7.4 2.3 6.6 — 5.5 5.4 2.9 3.0 2.5 2.8 0.9 43.3 25.1 14.2 9.2 2.9 10.1 7.0	23.4 7.5 2.6 3.4 2.6  2.8 3.8 2.8 3.4 1.6 47.3 23.7 14.3 13.0 2.5 7.9 5.0	26.2 7.5 2.4 5.1 1.3 2.9 2.8 2.9 3.4 2.6 3.1 1.3 45.2 24.5 14.2 11.1 2.7 9.0 6.0
Malignant neoplasms (C00–C97) Digestive organs (C15–C26) Colon (C18) Trachea, bronchus and lung (C33, C34) Breast (C50) Male genital organs (C60–C63) Prostate (C61) Lymphoid, haematopoietic and related tissue (C81–C96) Endocrine, nutritional and metabolic diseases (E00–E90) Diabetes mellitus (E10–E14) Diseases of the nervous system (G00–G99) Alzheimer's disease (G30) Diseases of the circulatory system (I00–I99) Ischaemic heart diseases (I20–I25) Acute myocardial infarction (I21) Cerebrovascular diseases (I60–I69) Diseases of arteries, arterioles and capillaries (I70–I79) Diseases of the respiratory system (J00–J99) Chronic lower respiratory diseases (J40–J47) Diseases of the digestive system (K00–K93)	6 048 1 555 484 1 384 6 1 149 1 140 613 638 518 593 198 9 092 5 275 2 986 1 938 601 2 124 1 471 566	4 470 1 437 498 651 506  543 730 534 648 311 9 051 4 534 2 726 2 494 480 1 503 952 663	10 518 2 992 982 2 035 512 1 149 1 140 1 156 1 368 1 052 1 241 509 18 143 9 809 5 712 4 432 1 081 3 627 2 423 1 229	28.8 7.4 2.3 6.6 — 5.5 5.4 2.9 3.0 2.5 2.8 0.9 43.3 25.1 14.2 9.2 2.9 10.1 7.0 2.7	23.4 7.5 2.6 3.4 2.6  2.8 3.8 2.8 3.4 1.6 47.3 23.7 14.3 13.0 2.5 7.9 5.0 3.5	26.2 7.5 2.4 5.1 1.3 2.9 2.8 2.9 3.4 2.6 3.1 1.3 45.2 24.5 14.1 2.7 9.0 6.0 3.1
Malignant neoplasms (C00–C97) Digestive organs (C15–C26) Colon (C18) Trachea, bronchus and lung (C33, C34) Breast (C50) Male genital organs (C60–C63) Prostate (C61) Lymphoid, haematopoietic and related tissue (C81–C96) Endocrine, nutritional and metabolic diseases (E00–E90) Diabetes mellitus (E10–E14) Diseases of the nervous system (G00–G99) Alzheimer's disease (G30) Diseases of the circulatory system (I00–I99) Ischaemic heart diseases (I20–I25) Acute myocardial infarction (I21) Cerebrovascular diseases (I60–I69) Diseases of arteries, arterioles and capillaries (I70–I79) Diseases of the respiratory system (J00–J99) Chronic lower respiratory diseases (J40–J47) Diseases of the genitourinary system (N00–N99)	6 048 1 555 484 1 384 6 1 149 1 140 613 638 518 593 198 9 092 5 275 2 986 1 938 601 2 124 1 471 566 534	4 470 1 437 498 651 506 543 730 534 648 311 9 051 4 534 2 726 2 494 480 1 503 952 663 569	10 518 2 992 982 2 035 512 1 149 1 140 1 156 1 368 1 052 1 241 509 18 143 9 809 5 712 4 432 1 081 3 627 2 423 1 229 1 103	28.8 7.4 2.3 6.6 — 5.5 5.4 2.9 3.0 2.5 2.8 0.9 43.3 25.1 14.2 9.2 2.9 10.1 7.0 2.7 2.5	23.4 7.5 2.6 3.4 2.6  2.8 3.8 2.8 3.4 1.6 47.3 23.7 14.3 13.0 2.5 7.9 5.0 3.5 3.0	26.2 7.5 2.4 5.1 1.3 2.9 2.8 2.9 3.4 2.6 3.1 1.3 45.2 24.5 14.2 11.1 2.7 9.0 6.0 3.1 2.8
Malignant neoplasms (C00–C97) Digestive organs (C15–C26) Colon (C18) Trachea, bronchus and lung (C33, C34) Breast (C50) Male genital organs (C60–C63) Prostate (C61) Lymphoid, haematopoietic and related tissue (C81–C96) Endocrine, nutritional and metabolic diseases (E00–E90) Diabetes mellitus (E10–E14) Diseases of the nervous system (G00–G99) Alzheimer's disease (G30) Diseases of the circulatory system (I00–I99) Ischaemic heart diseases (I20–I25) Acute myocardial infarction (I21) Cerebrovascular diseases (I60–I69) Diseases of arteries, arterioles and capillaries (I70–I79) Diseases of the respiratory system (J00–J99) Chronic lower respiratory diseases (J40–J47) Diseases of the digestive system (K00–K93)	6 048 1 555 484 1 384 6 1 149 1 140 613 638 518 593 198 9 092 5 275 2 986 1 938 601 2 124 1 471 566	4 470 1 437 498 651 506  543 730 534 648 311 9 051 4 534 2 726 2 494 480 1 503 952 663	10 518 2 992 982 2 035 512 1 149 1 140 1 156 1 368 1 052 1 241 509 18 143 9 809 5 712 4 432 1 081 3 627 2 423 1 229	28.8 7.4 2.3 6.6 — 5.5 5.4 2.9 3.0 2.5 2.8 0.9 43.3 25.1 14.2 9.2 2.9 10.1 7.0 2.7	23.4 7.5 2.6 3.4 2.6  2.8 3.8 2.8 3.4 1.6 47.3 23.7 14.3 13.0 2.5 7.9 5.0 3.5	26.2 7.5 2.4 5.1 1.3 2.9 2.8 2.9 3.4 2.6 3.1 1.3 45.2 24.5 14.1 2.7 9.0 6.0 3.1

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# 1.2 UNDERLYING CAUSE, Selected Causes and Age at Death continued

PERCENTAGE OF ALL DEATHS OF SAME

85 years and over 12 104 22 438 34 542 100.0 100.0 1	ersons
<b>/</b>	• • •
<b>/</b>	
Maligrand manufacture (000, 007)	100.0
0	13.6
Digestive organs (C15–C26) 584 871 1 455 4.8 3.9	4.2
Colon (C18) 213 339 552 1.8 1.5	1.6
Pancreas (C25) 100 146 246 0.8 0.7	0.7
Trachea, bronchus and lung (C33, C34) 345 188 533 2.9 0.8	1.5
Breast (C50) — 298 298 — 1.3	0.9
Male genital organs (C60–C63) 558 558 4.6	1.6
Prostate (C61) 557 557 4.6	1.6
Lymphoid, haematopoietic and related tissue (C81–C96) 179 304 483 1.5 1.4	1.4
Endocrine, nutritional and metabolic diseases (E00–E90) 289 665 954 2.4 3.0	2.8
Diabetes mellitus (E10–E14) 227 454 681 1.9 2.0	2.0
Diseases of the nervous system (G00–G99) 390 835 1 225 3.2 3.7	3.5
Alzheimer's disease (G30) 199 627 826 1.6 2.8	2.4
Diseases of the circulatory system (I00–I99) 6 039 12 977 19 016 49.9 57.8	55.1
Ischaemic heart diseases (I20–I25) 3 111 5 913 9 024 25.7 26.4	26.1
Acute myocardial infarction (I21) 1 662 3 079 4 741 13.7 13.7	13.7
Pulmonary heart disease and diseases of pulmonary circulation	
and other forms of heart disease (I26–I52) 894 2 125 3 019 7.4 9.5	8.7
Heart failure (I50) 463 1 147 1 610 3.8 5.1	4.7
Cerebrovascular diseases (I60–I69) 1 504 3 800 5 304 12.4 16.9	15.4
Diseases of arteries, arterioles and capillaries (I70–I79) 380 682 1 062 3.1 3.0	3.1
Diseases of the respiratory system (J00–J99) 1 224 1 632 2 856 10.1 7.3	8.3
Influenza and pneumonia (J10–J18) 340 728 1 068 2.8 3.2	3.1
Chronic lower respiratory diseases (J40–J47) 670 611 1 281 5.5 2.7	3.7
Diseases of the digestive system (K00–K93) 369 824 1 193 3.0 3.7	3.5
Diseases of the genitourinary system (N00–N99) 468 729 1 197 3.9 3.2	3.5
Renal failure (N17–N19) 318 459 777 2.6 2.0	2.2
External causes of morbidity and mortality (V01–Y98) 301 507 808 2.5 2.3	2.3
Falls (W00–W19) 55 90 145 0.5 0.4	0.4

# **1.3** UNDERLYING CAUSE, Age-Specific Rates

	1989	(a)		1999	(a)	
Cause of death and ICD code	Males	Females	Persons	Males	Females	Persons
		• • • • • •	• • • • • • •	• • • • • • •	• • • • • •	
Under 1 year	8.84	7.09	7.99	6.38	4.90	5.66
Certain conditions originating in the perinatal period (P00–P96)	3.67	3.04	3.36	2.93	2.16	2.55
Disorders related to short gestation and low birthweight, not elsewhere classified (P07)	0.89	0.89	0.89	0.10	0.12	0.11
Respiratory and cardiovascular disorders specific to the	0.89	0.69	0.89	0.10	0.12	0.11
perinatal period (P20–P29)	1.76	1.31	1.54	0.59	0.35	0.47
Infections specific to the perinatal period (P35–P39) Haemorrhagic and haematological disorders of fetus	0.23	0.16	0.20	0.13	0.11	0.12
and newborn (P50–P61)	0.38	0.35	0.37	0.16	0.12	0.14
Congenital malformations, deformations and chromosomal						
abnormalities (Q00–Q99) Congenital malformations of the nervous system (Q00–Q07)	1.98 0.40	1.95 0.43	1.97 0.42	1.83 0.25	1.59 0.20	1.71 0.23
Congenital malformations of the circulatory system (Q20–Q27)  Congenital malformations of the circulatory system (Q20–Q28)	0.40	0.43	0.42	0.25	0.20	0.23
Congenital malformations of the respiratory system (Q30–Q34)	0.22	0.12	0.17	0.23	0.13	0.18
Sudden infant death syndrome (R95)	2.35	1.37	1.87	0.74	0.50	0.62
1–14 years	30.1	22.7	26.5	19.7	16.2	18.0
Malignant neoplasms (C00–C97)	4.4	4.0	4.2	3.6	2.3	3.0
Brain (C71)	1.2	1.0	1.1	1.1	0.5	0.8
Lymphoid, haematopoietic and related tissue (C81–C96)	2.0	1.9	2.0	1.4	1.0	1.2
Leukaemia (C91–C95) Diseases of the nervous system (G00–G99)	1.7 2.0	1.9 1.5	1.8 1.8	1.2 1.6	0.9 1.8	1.1 1.7
Congenital malformations, deformations and chromosomal	2.0	1.5	1.0	1.0	1.0	1.7
abnormalities (Q00–Q99)	3.0	2.7	2.8	1.8	1.1	1.4
External causes of morbidity and mortality (V01–Y98)	15.4	9.7	12.7	8.9	6.5	7.7
Transport accidents (V01–V99)  Accidental drowning and submersion (W65–W74)	7.3 3.9	5.2 1.5	6.3 2.7	3.2 2.4	3.7 0.9	3.5 1.7
Accidental drowning and submersion (WOS-W14)	3.9	1.5	2.1	2.4	0.9	1.7
15–24 years	121.1	42.6	82.6	100.7	36.8	69.5
Malignant neoplasms (C00–C97)  Lymphoid, haematopoietic and related tissue (C81–C96)	6.5 3.1	<i>4.4</i> 1.6	5.5 2.3	6.9 3.6	3.6 1.4	5.3 2.5
Leukaemia (C91–C95)	1.9	1.3	2.3 1.6	2.5	0.8	2.5 1.7
Mental and behavioural disorders due to psychoactive						
substance use (F10–F19)	3.6	2.2	2.9	4.9	2.1	3.5
Diseases of the nervous system (G00–G99)  External causes of morbidity and mortality (V01–Y98)	3.4	1.5	2.4	4.2	1.7	3.0
Transport accidents (V01–V99)	96.5 52.7	26.1 19.0	61.9 36.2	73.6 29.5	21.1 8.8	<i>4</i> 8.0 19.4
Intentional self-harm (X60–X84)	23.9	3.4	13.8	22.4	5.4	14.1
25 24veers	142.0	E1 0	07.4	120.4	40.0	04.0
25–34years Malignant neoplasms (C00–C97)	<b>143.2</b> 13.1	<b>51.2</b> 12.9	<b>97.4</b> 13.0	<b>138.4</b> 9.9	<b>49.9</b> 10.6	<b>94.2</b> 10.2
Digestive organs (C15–C26)	1.9	1.6	1.7	1.7	1.5	1.6
Melanoma of skin (C43)	1.5	8.0	1.1	1.2	1.0	1.1
Breast (C50)	_	3.0	1.5	_	1.8	0.9
Brain (C71) Lymphoid, haematopoietic and related tissue (C81–C96)	1.4 3.7	1.2 1.7	1.3 2.7	1.7 2.2	0.9 2.3	1.3 2.2
Mental and behavioural disorders due to psychoactive		2.,	2.1	2.2	2.0	2.2
substance use (F10–F19)	9.6	2.5	6.1	9.5	2.1	5.8
Diseases of the circulatory system (I00–I99) Ischaemic heart disease (I20–I25)	10.6 3.7	<i>4.</i> 3 0.9	7.5 2.3	8.5 3.3	<i>4.4</i> 0.9	6. <i>4</i> 2.1
Acute myocardial infarction (I21)	2.2	0.6	1.4	1.4	0.3	0.8
Diseases of the digestive system (K00–K93)	3.1	1.0	2.1	2.1	1.0	1.5
Diseases of liver (K70–K77)	2.3	0.5	1.4	1.6	0.6	1.1
External causes of morbidity and mortality (V01–Y98)  Transport accidents (V01–V99)	89.4 37.2	22.0	55.9	94.5	22.7	58.6
Intentional self-harm (X60–X84)	30.0	8.9 6.9	23.1 18.5	21.1 35.0	5.8 8.0	13.5 21.5
		3.0		-0.0	3.0	

explanation.

<sup>(</sup>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

# 1.3 UNDERLYING CAUSE, Age-Specific Rates continued

	1989	(a)		1999	(a)	
Cause of death and ICD code	Males	Females	Persons	Males	Females	Persons
••••••	• • • • • • • • •	• • • • • •	• • • • • •	• • • • • • • •	• • • • • •	• • • • •
35-44 years	180.2	100.0	140.5	162.1	89.9	125.9
Malignant neoplasms (C00–C97)	38.1	47.3	42.6	28.8	38.1	33.4
Digestive organs (C15–C26)	9.0	6.6	7.8	6.7	5.9	6.3
Melanoma of skin (C43)	3.6	2.6	3.1	2.9	2.0	2.5
Breast (C50)	0.1	16.8	8.3	0.3	13.6	7.0
Brain (C71)	2.7	2.5	2.6	3.6	2.2	2.9
Lymphoid, haematopoietic and related tissue (C81–C96)	8.0	3.8	5.9	4.8	3.4	4.1
Mental and behavioural disorders due to psychoactive						
substance use (F10–F19)	5.5	1.4	3.5	7.7	2.0	4.8
Diseases of the circulatory system (I00–I99)	38.9	14.2	26.6	28.4	10.2	19.3
Ischaemic heart disease (I20–I25)	25.1	4.4	14.9	18.3	3.5	10.9
Acute myocardial infarction (I21)	15.4	3.1	9.3	8.1	1.4	4.7
Diseases of the digestive system (K00–K93)	7.9	3.9	5.9	8.0	5.3	6.7
Diseases of liver (K70–K77)	6.0	3.0	4.5	6.6	4.0	5.3
External causes of morbidity and mortality (V01–Y98)	61.5	19.5	40.7	69.8	20.4	45.0
Transport accidents (V01–V99)	23.1	8.2	15.7	14.1	3.9	9.0
Intentional self-harm (X60–X84)	22.4	6.7	14.6	29.2	7.1	18.1
45-54 years	440.1	262.8	353.7	317.0	197.1	257.5
Malignant neoplasms (C00–C97)	147.6	140.5	144.1	109.7	110.6	110.2
Digestive organs (C15–C26)	43.2	28.6	36.1	33.9	20.3	27.2
Colon (C18)	15.0	14.2	14.6	8.8	7.1	8.0
Trachea, bronchus and lung (C33, C34)	38.1	15.5	27.1	23.0	14.0	18.6
Breast (C50)	0.2	46.0	22.6	0.1	35.8	17.8
Lymphoid, haematopoietic and related tissue (C81–C96)	15.9	8.3	12.2	12.4	8.1	10.3
Diseases of the circulatory system (I00–I99)	150.8	55.1	104.1	88.7	27.9	58.6
Ischaemic heart disease (I20–I25)	115.1	27.2	72.2	63.6	11.5	37.8
Acute myocardial infarction (I21)	75.8	17.9	47.5	30.4	6.4	18.5
Cerebrovascular diseases (I60–I69)	14.9	14.3	14.6	9.5	7.6	8.6
Diseases of the respiratory system (J00–J99)	17.6	14.6	16.1	7.4	7.9	7.7
Diseases of the digestive system (K00–K93)	25.9	9.7	18.0	20.1	6.9	13.6
Diseases of liver (K70–K77)	19.5	5.4	12.6	16.0	4.5	10.3
External causes of morbidity and mortality (V01–Y98)	60.6	20.1	40.8	53.7	19.4	36.7
Transport accidents (V01–V99)	19.1	7.9	13.7	10.0	4.8	7.4
Intentional self-harm (X60–X84)	23.9	7.1	15.7	24.4	7.7	16.1
55–64 years	1 325.2	701.8	1 014.4	860.1	494.6	679.0
Malignant neoplasms (C00-C97)	485.9	324.5	405.5	375.2	267.1	321.6
Digestive organs (C15–C26)	146.5	81.5	114.1	122.6	65.4	94.3
Colon (C18)	48.8	34.2	41.5	39.1	25.8	32.5
Trachea, bronchus and lung (C33, C34)	151.4	51.7	101.7	98.6	43.9	71.5
Breast (C50)	0.4	70.3	35.2	0.5	63.0	31.5
Female genital organs (C51–C58)		36.8	18.3		24.9	12.4
Male genital organs (C60–C63)	27.2		13.6	17.9		9.0
Diseases of the circulatory system (I00–I99)	543.7	203.8	374.2	270.9	107.3	189.8
Ischaemic heart disease (I20–I25)	400.5	121.0	261.1	192.3	55.7	124.6
Acute myocardial infarction (I21)	279.5	89.7	184.9	98.9	29.8	64.7
Cerebrovascular diseases (I60–I69)	61.3	45.2	53.3	36.6	25.7	31.2
Diseases of the respiratory system (J00–J99)	93.4	55.8	74.6	44.0	30.9	37.5
Chronic lower respiratory diseases (J40–J47)	72.0	46.3	59.2	32.9	23.6	28.3
Diseases of the digestive system (K00–K93)	58.7	24.5	41.6	32.7	14.0	23.4
External causes of morbidity and mortality (V01–Y98)	61.8	27.9	44.9	51.2	19.3	35.4

<sup>(</sup>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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# 1.3 UNDERLYING CAUSE, Age-Specific Rates continued

	1989(a	a)		1999(a	L999(a)					
Cause of death and ICD code	Males	Females	Persons	Males	Females	Persons				
•••••				• • • • • • • •						
65-74 years	3 456.9		2 579.1	2 554.7	1 379.8	1 942.8				
Malignant neoplasms (C00–C97)	1 077.7	592.9	816.1	1 012.0	569.4	781.5				
Digestive organs (C15–C26)	297.6	182.2	235.3	300.1	162.0	228.2				
Colon (C18)	91.5	68.5	79.1	97.2	55.8	75.6				
Trachea, bronchus and lung (C33, C34)	345.6	95.6	210.7	281.2	106.8	190.4				
Breast (C50)	1.0	91.8	50.0	1.0	74.0	39.0				
Prostate (185)	111.1		51.2	100.9		48.3				
Lymphoid, haematopoietic and related tissue (C81–C96)	84.0	51.9	66.7	88.0	50.3	68.4				
Endocrine, nutritional and metabolic diseases (E00–E90)	73.2	50.9	61.2	87.2	56.7	71.3				
Diabetes mellitus (E10–E14)	60.1	41.9	50.3	66.8	42.0	53.9				
Diseases of the nervous system (G00–G99)	50.3	35.0	42.0	61.1	41.0	50.7				
Alzheimer's disease (G30)	8.9	10.2	9.6	13.5	9.9	11.6				
Diseases of the circulatory system (I00–I99)	1 595.4	803.2	1 167.9	911.8	436.8	664.4				
Ischaemic heart disease (I20–I25)	1 085.0	489.6	763.7	597.6	239.4	411.0				
Acute myocardial infarction (I21)	752.9	353.4	537.3	323.7	143.0	229.6				
Cerebrovascular diseases (I60–I69)	255.0	176.6	212.7	150.4	103.8	126.1				
Diseases of the respiratory system (J00–J99)	350.8	151.6	243.3	221.5	109.1	163.0				
Chronic lower respiratory diseases (J40–J47)	289.5	119.3	197.6	173.0	90.5	130.0				
Diseases of the digestive system (K00–K93)	113.1	56.2	82.4	77.7	46.8	61.6				
75–84 years	8 667.8	5 314.3	6 636.3	6 480.1	4 155.0	5 114.9				
Malignant neoplasms (C00–C97)	2 065.6	970.8	1 402.4	1 868.4	971.0	1 341.5				
Digestive organs (C15–C26)	557.6	339.9	425.8	480.4	312.1	381.6				
Colon (C18)	187.3	128.8	151.9	149.5	108.2	125.2				
Trachea, bronchus and lung (C33, C34)	510.4	101.6	262.7	427.6	141.4	259.5				
Breast (C50)	2.2	136.3	83.4	1.9	109.9	65.3				
Male genital organs (C60–C63)	399.8	200.0	157.6	355.0	100.0	146.5				
Prostate (C61)	398.5		157.1	352.2		145.4				
Lymphoid, haematopoietic and related tissue (C81–C96)	192.6	106.1	140.2	189.4	118.0	147.4				
Endocrine, nutritional and metabolic diseases (E00–E90)	179.8	150.0	161.8	197.1	158.6	174.5				
Diabetes mellitus (E10–E15)	149.9	127.9	136.6	160.0	116.0	134.2				
Diseases of the nervous system (G00–G99)	175.4	111.9	136.9	183.2	140.8	158.3				
Alzheimer's disease (G30)	62.2	51.6	55.8	61.2	67.6	64.9				
Diseases of the circulatory system (I00–I99)	4 311.9	3 069.5	3 559.3	2 808.8	1 966.1	2 314.0				
Ischaemic heart disease (I20–I25)	2 622.3	1 650.1	2 033.4	1 629.6	984.9	1 251.1				
Acute myocardial infarction (I21)	1 778.6	1 105.6	1 370.9	922.5	592.1	728.5				
Cerebrovascular diseases (I60–I69)	883.4	805.8	836.4	598.7	541.8	565.3				
Diseases of arteries, arterioles and capillaries (I70–I79))	286.1	144.9	200.5	185.7	104.3	137.9				
Diseases of the respiratory system (J00–J99)	1 055.7	382.1	647.7	656.2	326.5	462.6				
Chronic lower respiratory diseases (J40–J47)	805.8	240.1	463.1	454.4	206.8	309.0				
Diseases of the digestive system (K00–K93)	260.1	182.4	213.0	174.9	144.0	156.7				
Diseases of the genitourinary system (N00–N99)	166.6	105.9	129.8	165.0	123.6	140.7				
External causes of morbidity and mortality (V01–Y98)	175.0	104.4	132.2	135.9	77.3	101.5				
Falls (W00–W19)	26.0	20.9	22.9	20.4	14.6	17.0				
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<sup>(</sup>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.

ABS • CAUSES OF DEATH • 3303.0 • 1999 15

# 1.3 UNDERLYING CAUSE, Age-Specific Rates continued

	• • • • • • •	• • • • • •			• • • • • • •	• • • • • •
	1989(	a)		1999(	a)	
Cause of death and ICD code	Males	Females	Persons	Males	Females	Persons
	• • • • • • •	• • • • • •	• • • • • •		• • • • • •	• • • • •
85 years and over	19 995.0	15 992.9	17 110.4	16 315.1	13 451.7	14 333.2
Malignant neoplasms (C00–C97)	2 991.5	1 448.5	1 879.3	2 997.7	1 473.6	1 942.8
Digestive organs (C15–C26)	822.9	594.9	658.6	787.2	522.2	603.8
Colon (C18)	315.2	242.2	262.6	287.1	203.2	229.1
Pancreas (C25)	105.1	80.4	87.3	134.8	87.5	102.1
Trachea, bronchus and lung (C33, C34)	465.2	69.8	180.2	465.0	112.7	221.2
Breast (C50)	2.5	235.4	170.4	_	178.7	123.7
Male genital organs (C60–C63)	787.9		220.0	752.1		231.5
Prostate (C61)	785.4		219.3	750.8		231.1
Lymphoid, haematopoietic and related tissue (C81-C96)	295.1	141.5	184.4	241.3	182.2	200.4
Endocrine, nutritional and metabolic diseases (E00–E90)	360.2	334.3	341.5	389.5	398.7	395.9
Diabetes mellitus (E10–E14)	287.6	256.8	265.4	306.0	272.2	282.6
Diseases of the nervous system (G00–G99)	430.2	299.4	335.9	525.7	500.6	508.3
Alzheimer's disease (G30)	180.1	187.0	185.1	268.2	375.9	342.7
Diseases of the circulatory system (I00–I99)	10 660.3	10 300.6	10 401.0	8 140.0	7 779.8	7 890.7
Ischaemic heart disease (I20–I25)	5 527.8	4 448.3	4 749.7	4 193.3	3 544.9	3 744.5
Acute myocardial infarction (I21)	3 499.2	2 650.0	2 887.1	2 240.2	1 845.9	1 967.3
Pulmonary heart disease and diseases of pulmonary circulation						
and other forms of heart disease (I26–I52)	1 563.3	1 719.8	1 676.1	1 205.0	1 274.0	1 252.7
Heart failure (I50)	978.0	1 075.5	1 048.3	624.1	687.6	668.1
Cerebrovascular diseases (I60–I69)	2 568.8	3 003.6	2 882.2	2 027.3	2 278.1	2 200.9
Diseases of arteries, arterioles and capillaries (I70–I79)	710.4	775.1	757.0	512.2	408.9	440.7
Diseases of the respiratory system (J00–J99)	2 816.4	1 260.6	1 695.0	1 649.8	978.4	1 185.1
Influenza and pneumonia (J10-J18)	850.4	679.2	727.0	458.3	436.4	443.2
Chronic lower respiratory diseases (J40–J47)	1 633.3	363.3	717.9	903.1	366.3	531.6
Diseases of the digestive system (K00–K93)	752.9	616.2	654.4	497.4	494.0	495.0
Diseases of the genitourinary system (N00–N99)	532.8	373.0	417.6	630.8	437.0	496.7
Renal failure (N17–N19)	325.2	247.1	268.9	428.6	275.2	322.4
External causes of morbidity and mortality (V01–Y98)	460.2	370.1	395.3	405.7	303.9	335.3
Falls (W00–W19)	85.0	66.9	71.9	74.1	54.0	60.2

<sup>(</sup>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.

# 1.4 UNDERLYING CAUSE, Selected Years

All causes         66 926         57 306           Chapter I Certain infectious and parasitic diseases (A00–B99)         402         359           Septicaemia (A40, A41)         152         187           Human immunodeficiency virus (HIV) disease (B20–B24)(a)         383         9           Chapter II Neoplasms (C00–C97)         17 201         12 943           Malignant neoplasms (C00–C97)         17 201         12 943           Malignant neoplasms (C15–C26)         4 743         3 859           Oesophagus (C15)         504         270           Stomach (C16)         790         510           Colon (C18)         1 565         1 535           Rectosigmoid junction, rectum, anus and anal canal (C19–C21)         622         379           Liver and intrahepatic bile ducts (C22)         264         125           Pancreas (C25)         719         677           Trachea, bronchus and lung (C33, C34)         4 666         1 570           Melanoma of skin (C43)         487         241           Breast (C50)         17         2 431           Female genital organs (C51–C58)         2 058         2 058           Vary (C56)         3         635           Male genital organs (C60–C63)         2 058 <td< th=""><th>Persons  124 232  761  339  392  30 424  30 144  8 602  774  1 300  3 100  1 001  389  1 396  6 236  768  2 448  1 358  635</th><th>Males  67 459 565 225 721 19 551 19 285 5 268 587 820 1 817 683 353 768 4 810 608 17</th><th>Females  59 224  477 255 43 14 652 14 373 4 183 307 474 1 719  416 198 701 1 887 285</th><th>Persons  126 683  1 042  480  764  34 203  33 658  9 451  894  1 294  3 536  1 099  551  1 469  6 697  893</th></td<>	Persons  124 232  761  339  392  30 424  30 144  8 602  774  1 300  3 100  1 001  389  1 396  6 236  768  2 448  1 358  635	Males  67 459 565 225 721 19 551 19 285 5 268 587 820 1 817 683 353 768 4 810 608 17	Females  59 224  477 255 43 14 652 14 373 4 183 307 474 1 719  416 198 701 1 887 285	Persons  126 683  1 042  480  764  34 203  33 658  9 451  894  1 294  3 536  1 099  551  1 469  6 697  893
Chapter I Certain infectious and parasitic diseases (A00–B99)         402         359           Septicaemia (A40, A41)         152         187           Human immunodeficiency virus (HIV) disease (B20–B24)(a)         383         9           Chapter II Neoplasms (C00–D48)         17 350         13 074           Malignant neoplasms (C00–C97)         17 201         12 943           Digestive organs (C15–C26)         4 743         3 859           Oesophagus (C15)         504         270           Stomach (C16)         790         510           Colon (C18)         790         510           Rectosigmoid junction, rectum, anus and anal canal (C19–C21)         622         379           Liver and intrahepatic bile ducts (C22)         264         125           Pancreas (C25)         719         677           Trachea, bronchus and lung (C33, C34)         466         1 570           Melanoma of skin (C43)         487         281           Breast (C50)         17         2 431           Female genital organs (C51–C58)         635           Male genital organs (C60–C63)         2 058         635           Male genital organs (C60–C63)         2 058         635           Male genital organs (C60–C64)         357 <th>761 339 392 30 424 30 144 8 602 774 1 300 3 100 1 001 389 1 396 6 236 768 2 448 1 358</th> <th>565 225 721 19 551 19 285 5 268 587 820 1 817 683 353 768 4 810 608 17</th> <th>477 255 43 14 652 14 373 4 183 307 474 1 719 416 198 701 1 887 285</th> <th>1 042 480 764 34 203 33 658 9 451 894 1 294 3 536 1 099 551 1 469 6 697</th>	761 339 392 30 424 30 144 8 602 774 1 300 3 100 1 001 389 1 396 6 236 768 2 448 1 358	565 225 721 19 551 19 285 5 268 587 820 1 817 683 353 768 4 810 608 17	477 255 43 14 652 14 373 4 183 307 474 1 719 416 198 701 1 887 285	1 042 480 764 34 203 33 658 9 451 894 1 294 3 536 1 099 551 1 469 6 697
Chapter I Certain infectious and parasitic diseases (A00–B99)         402         359           Septicaemia (A40, A41)         152         187           Human immunodeficiency virus (HIV) disease (B20–B24)(a)         383         9           Chapter II Neoplasms (C00–D48)         17 350         13 074           Malignant neoplasms (C00–C97)         17 201         12 943           Digestive organs (C15–C26)         4 743         3 859           Oesophagus (C15)         504         270           Stomach (C16)         790         510           Colon (C18)         790         510           Rectosigmoid junction, rectum, anus and anal canal (C19–C21)         622         379           Liver and intrahepatic bile ducts (C22)         264         125           Pancreas (C25)         719         677           Trachea, bronchus and lung (C33, C34)         466         1 570           Melanoma of skin (C43)         487         281           Breast (C50)         17         2 431           Female genital organs (C51–C58)         635           Male genital organs (C60–C63)         2 058         635           Male genital organs (C60–C63)         2 058         635           Male genital organs (C60–C63)         2 058<	761 339 392 30 424 30 144 8 602 774 1 300 3 100 1 001 389 1 396 6 236 768 2 448 1 358	565 225 721 19 551 19 285 5 268 587 820 1 817 683 353 768 4 810 608 17	477 255 43 14 652 14 373 4 183 307 474 1 719 416 198 701 1 887 285	1 042 480 764 34 203 33 658 9 451 894 1 294 3 536 1 099 551 1 469 6 697
Septicaemia (A40, A41)         152         187           Human immunodeficiency virus (HIV) disease (B20–B24)(a)         383         9           Chapter II Neoplasms (C00–C97)         17 201         12 943           Malignant neoplasms (C15–C26)         4 743         3 859           Oesophagus (C15)         504         270           Stomach (C16)         790         510           Colon (C18)         1 565         1 535           Rectosigmoid junction, rectum, anus and anal canal (C19–C21)         622         379           Liver and intrahepatic bile ducts (C22)         264         125           Pancreas (C25)         719         677           Trachea, bronchus and lung (C33, C34)         4 666         1 570           Melanoma of skin (C43)         487         281           Breast (C50)         17         2 431           Female genital organs (C51–C58)          1 538           Ovary (C56)          635           Male genital organs (C60–C63)         2 058            Prostate (C61)         2 014            Urinary tract (C64–C68)         875         477           Kidney, except renal pelvis (C64)         357         241 <t< td=""><td>339 392 30 424 30 144 8 602 774 1 300 3 100 1 001 389 1 396 6 236 768 2 448 1 358</td><td>225 721 19 551 19 285 5 268 587 820 1 817 683 353 768 4 810 608 17</td><td>255 43 14 652 14 373 4 183 307 474 1 719 416 198 701 1 887 285</td><td>480 764 34 203 33 658 9 451 894 1 294 3 536 1 099 551 1 469 6 697</td></t<>	339 392 30 424 30 144 8 602 774 1 300 3 100 1 001 389 1 396 6 236 768 2 448 1 358	225 721 19 551 19 285 5 268 587 820 1 817 683 353 768 4 810 608 17	255 43 14 652 14 373 4 183 307 474 1 719 416 198 701 1 887 285	480 764 34 203 33 658 9 451 894 1 294 3 536 1 099 551 1 469 6 697
Human immunodeficiency virus (HIV) disease (B20-B24)(a)   383   9   Chapter II Neoplasms (C00-D48)   17 350   13 074   Malignant neoplasms (C00-C97)   17 201   12 943   243   244   245   255   260   260   270	392 30 424 30 144 8 602 774 1 300 3 100 1 001 389 1 396 6 236 768 2 448 1 358	721 19 551 19 285 5 268 587 820 1 817 683 353 768 4 810 608 17	43 14 652 14 373 4 183 307 474 1 719 416 198 701 1 887 285	764 34 203 33 658 9 451 894 1 294 3 536 1 099 551 1 469 6 697
Chapter II Neoplasms (C00–D48)	30 424 30 144 8 602 774 1 300 3 100 1 001 389 1 396 6 236 768 2 448 1 358	19 551 19 285 5 268 587 820 1 817 683 353 768 4 810 608 17	14 652 14 373 4 183 307 474 1 719 416 198 701 1 887 285	34 203 33 658 9 451 894 1 294 3 536 1 099 551 1 469 6 697
Malignant neoplasms (C00–C97)         17 201         12 943           Digestive organs (C15–C26)         4 743         3 859           Oesophagus (C15)         504         270           Stomach (C16)         790         510           Colon (C18)         1 565         1 535           Rectosigmoid junction, rectum, anus and anal canal (C19–C21)         622         379           Liver and intrahepatic bile ducts (C22)         264         125           Pancreas (C25)         719         677           Trachea, bronchus and lung (C33, C34)         4 666         1 570           Melanoma of skin (C43)         487         281           Breast (C50)         17         2 431           Female genital organs (C51–C58)         1         635           Male genital organs (C60–C63)         2 058            Prostate (C61)         2 014            Urinary tract (C64–C68)         875         477           Kidney, except renal pelvis (C64)         357         241           Brain (C71)         451         361           Lymphoid, haematopoietic and related tissue (C81–C96)         1 621         1 216           Leukaemia (C91–C95)         642         457           In si	30 144 8 602 774 1 300 3 100 1 001 389 1 396 6 236 768 2 448 1 358	19 285 5 268 587 820 1 817 683 353 768 4 810 608 17	14 373 4 183 307 474 1 719 416 198 701 1 887 285	33 658 9 451 894 1 294 3 536 1 099 551 1 469 6 697
Digestive organs (C15-C26)	8 602 774 1 300 3 100 1 001 389 1 396 6 236 768 2 448 1 358	5 268 587 820 1 817 683 353 768 4 810 608 17	4 183 307 474 1 719 416 198 701 1 887 285	9 451 894 1 294 3 536 1 099 551 1 469 6 697
Oesophagus (C15)         504         270           Stomach (C16)         790         510           Colon (C18)         1 565         1 535           Rectosigmoid junction, rectum, anus and anal canal (C19–C21)         622         379           Liver and intrahepatic bile ducts (C22)         264         125           Pancreas (C25)         719         677           Trachea, bronchus and lung (C33, C34)         4 666         1 570           Melanoma of skin (C43)         487         281           Breast (C50)         17         2 431           Female genital organs (C51–C58)         1         2 431           Female genital organs (C60–C63)         2 058          635           Male genital organs (C60–C63)         2 058          477           Kidney, except renal pelvis (C64) <td< td=""><td>774 1 300 3 100 1 001 389 1 396 6 236 768 2 448 1 358</td><td>587 820 1 817 683 353 768 4 810 608 17</td><td>307 474 1 719 416 198 701 1 887 285</td><td>894 1 294 3 536 1 099 551 1 469 6 697</td></td<>	774 1 300 3 100 1 001 389 1 396 6 236 768 2 448 1 358	587 820 1 817 683 353 768 4 810 608 17	307 474 1 719 416 198 701 1 887 285	894 1 294 3 536 1 099 551 1 469 6 697
Stomach (C16)         790         510           Colon (C18)         1 565         1 535           Rectosigmoid junction, rectum, anus and anal canal (C19–C21)         622         379           Liver and intrahepatic bile ducts (C22)         264         125           Pancreas (C25)         719         677           Trachea, bronchus and lung (C33, C34)         4 666         1 570           Melanoma of skin (C43)         487         281           Breast (C50)         17         2 431           Female genital organs (C51–C58)          635           Male genital organs (C60–C63)         2 058            Ovary (C56)         2 014            Male genital organs (C60–C63)         2 058            Prostate (C61)         2 014            Urinary tract (C64–C68)         875         477           Kidney, except renal pelvis (C64)         357         241           Bladder (C67)         493         214           Brain (C71)         451         361           Lymphoid, haematopoietic and related tissue (C81–C96)         1 621         1216           Leukaemia (C91–C95)         642         457           In situ and benign neoplasms	1 300 3 100 1 001 389 1 396 6 236 768 2 448 1 358	820 1 817 683 353 768 4 810 608 17	474 1 719 416 198 701 1 887 285	1 294 3 536 1 099 551 1 469 6 697
Colon (C18)   Rectosigmoid junction, rectum, anus and anal canal (C19–C21)   622   379     Liver and intrahepatic bile ducts (C22)   264   125     Pancreas (C25)   719   677     Trachea, bronchus and lung (C33, C34)   4 666   1 570     Melanoma of skin (C43)   487   281     Breast (C50)   17   2 431     Female genital organs (C51–C58)   1. 1358     Ovary (C56)   635     Male genital organs (C60–C63)   2 058       Prostate (C61)   2 014       Urinary tract (C64–C68)   875   477     Kidney, except renal pelvis (C64)   357   241     Bladder (C67)   493   214     Brain (C71)   451   361     Lymphoid, haematopoietic and related tissue (C81–C96)   1 621   1 216     Leukaemia (C91–C95)   642   457     In situ and benign neoplasms and neoplasms of uncertain or unknown behaviour (D00–D48)   149   131     Chapter IIII Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50–D89)   458   249     Chapter IV Endocrine, nutritional and metabolic diseases (E00–E90)   1 300   1 420     Diabetes mellitus (E10–E14)   1 004   1 111     Chapter V Mental and behavioural disorders (F00–F99)   1 000   1 157     Chapter VII Diseases of the eye and adnexa (H00–H59)   2 69   450     Chapter VII Diseases of the ear and mastoid process (H60–H95)   5 2   2     Chapter IV Diseases of the eirculatory system (I00–I99)   28 376   28 453     All heart disease (I05–I09, I11, I13, I20–I25, I26,	3 100 1 001 389 1 396 6 236 768 2 448 1 358	1 817 683 353 768 4 810 608 17	1 719 416 198 701 1 887 285	3 536 1 099 551 1 469 6 697
Rectosigmoid junction, rectum, anus and anal canal (C19–C21)   622   379     Liver and intrahepatic bile ducts (C22)   264   125     Pancreas (C25)   719   677     Trachea, bronchus and lung (C33, C34)   4666   1570     Melanoma of skin (C43)   487   281     Breast (C50)   17   2 431     Female genital organs (C51–C58)     635     Male genital organs (C60–C63)   2 058       Prostate (C61)   2 014       Urinary tract (C64–C68)   875   477     Kidney, except renal pelvis (C64)   357   241     Brain (C71)   451   361     Lymphoid, haematopoietic and related tissue (C81–C96)   1 621   1 216     Leukaemia (C91–C95)   642   457     In situ and benign neoplasms and neoplasms of uncertain or unknown behaviour (D00–D48)   149   131     Chapter IIII Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50–D89)   458   249     Chapter IV Endocrine, nutritional and metabolic diseases (E00–E90)   1 300   1 420     Diabetes mellitus (E10–E14)   1 004   1111     Chapter V Mental and behavioural disorders (F00–F99)   1 000   1 157     Chapter VI Diseases of the ear and mastoid process (H60–H95)   2 6	1 001 389 1 396 6 236 768 2 448 1 358	683 353 768 4 810 608 17	416 198 701 1 887 285	1 099 551 1 469 6 697
Anal canal (C19-C21)   622   379     Liver and intrahepatic bile ducts (C22)   264   125     Pancreas (C25)   719   677     Trachea, bronchus and lung (C33, C34)   4666   1570     Melanoma of skin (C43)   487   281     Breast (C50)   17   2 431     Female genital organs (C51-C58)     635     Male genital organs (C60-C63)   2 058       Prostate (C61)   2 014       Urinary tract (C64-C68)   875   477     Kidney, except renal pelvis (C64)   357   241     Bladder (C67)   493   214     Brain (C71)   451   361     Lymphoid, haematopoietic and related tissue (C81-C96)   1 621   1 216     Leukaemia (C91-C95)   1 497   457     In situ and benign neoplasms and neoplasms of uncertain or unknown behaviour (D00-D48)   149   131     Chapter IIII Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50-D89)   458   249     Chapter IV Endocrine, nutritional and metabolic diseases (E00-E90)   1 300   1 420     Diabetes mellitus (E10-E14)   1 004   1 111     Chapter V Mental and behavioural disorders (F00-F99)   1 000   1 157     Chapter VI Diseases of the ear and mastoid process (H60-H95)   5 2     Chapter IVI Diseases of the circulatory system (I00-I99)   28 376   28 453     All heart disease (I05-I09, I11, I13, I20-I25, I26,	389 1 396 6 236 768 2 448 1 358	353 768 4 810 608 17	198 701 1 887 285	551 1 469 6 697
Liver and intrahepatic bile ducts (C22)         264         125           Pancreas (C25)         719         677           Trachea, bronchus and lung (C33, C34)         4 666         1 570           Melanoma of skin (C43)         487         281           Breast (C50)         17         2 431           Female genital organs (C51–C58)          1 358           Ovary (C56)          635           Male genital organs (C60–C63)         2 058            Prostate (C61)         2 014            Urinary tract (C64–C68)         875         447           Kidney, except renal pelvis (C64)         357         241           Bladder (C67)         493         214           Brain (C71)         451         361           Lymphoid, haematopoietic and related tissue (C81–C96)         1 621         1 216           Leukaemia (C91–C95)         1 642         457           In situ and benign neoplasms and neoplasms of uncertain or unknown behaviour (D00–D48)         149         131           Chapter IIII Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50–D89)         458         249           Chapter IV Endocrine, nutritional and metabolic diseases (E00–E90)         1 300	389 1 396 6 236 768 2 448 1 358	353 768 4 810 608 17	198 701 1 887 285	551 1 469 6 697
Pancreas (C25)         719         677           Trachea, bronchus and lung (C33, C34)         4 666         1 570           Melanoma of skin (C43)         487         281           Breast (C50)         17         2 431           Female genital organs (C51–C58)          635           Ovary (C56)          635           Male genital organs (C60–C63)         2 058            Prostate (C61)         2 014            Urinary tract (C64–C68)         875         477           Kidney, except renal pelvis (C64)         357         241           Bladder (C67)         493         214           Brain (C71)         451         361           Lymphoid, haematopoietic and related tissue (C81–C96)         1 621         1 216           Leukaemia (C91–C95)         642         457           In situ and benign neoplasms and neoplasms of uncertain or unknown behaviour (D00–D48)         149         131           Chapter IIII Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50–D89)         458         249           Chapter IV Endocrine, nutritional and metabolic diseases (E00–E90)         1 300         1 420           Diabetes mellitus (E10–E14)         1 004 <td< td=""><td>1 396 6 236 768 2 448 1 358</td><td>768 4 810 608 17</td><td>701 1 887 285</td><td>1 469 6 697</td></td<>	1 396 6 236 768 2 448 1 358	768 4 810 608 17	701 1 887 285	1 469 6 697
Trachea, bronchus and lung (C33, C34)       4 666       1 570         Melanoma of skin (C43)       487       281         Breast (C50)       17       2 431         Female genital organs (C51–C58)        1 358         Ovary (C56)        635         Male genital organs (C60–C63)       2 058          Prostate (C61)       2 014          Urinary tract (C64–C68)       875       477         Kidney, except renal pelvis (C64)       357       241         Bladder (C67)       493       214         Brain (C71)       451       361         Lymphoid, haematopoietic and related tissue (C81–C96)       1 621       1 216         Leukaemia (C91–C95)       642       457         In situ and benign neoplasms and neoplasms of uncertain or unknown behaviour (D00–D48)       149       131         Chapter IIII Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50–D89)       458       249         Chapter IV Endocrine, nutritional and metabolic diseases (E00–E90)       1 300       1 420         Diabetes mellitus (E10–E14)       1 004       1 111         Chapter V Mental and behavioural disorders (F00–F99)       1 000       1 157         Chapter VII D	6 236 768 2 448 1 358	4 810 608 17	1 887 285	6 697
Melanoma of skin (C43)       487       281         Breast (C50)       17       2 431         Female genital organs (C51–C58)        1 358         Ovary (C56)        635         Male genital organs (C60–C63)       2 058          Prostate (C61)       2 014          Urinary tract (C64–C68)       875       477         Kidney, except renal pelvis (C64)       357       241         Bladder (C67)       493       214         Brain (C71)       451       361         Lymphoid, haematopoietic and related tissue (C81–C96)       1 621       1 216         Leukaemia (C91–C95)       642       457         In situ and benign neoplasms and neoplasms of uncertain or unknown behaviour (D00–D48)       149       131         Chapter IIII Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50–D89)       458       249         Chapter IV Endocrine, nutritional and metabolic diseases (E00–E90)       1 300       1 420         Diabetes mellitus (E10–E14)       1 004       1 111         Chapter V Mental and behavioural disorders (F00–F99)       1 000       1 157         Chapter VII Diseases of the eye and adnexa (H00–H59)       2       -         Chapte	768 2 448 1 358	608 17 	285	
Breast (C50)         17         2 431           Female genital organs (C51–C58)          1 358           Ovary (C56)          635           Male genital organs (C60–C63)         2 058            Prostate (C61)         2 014            Utrinary tract (C64–C68)         875         477           Kidney, except renal pelvis (C64)         357         241           Bladder (C67)         493         214           Brain (C71)         451         361           Lymphoid, haematopoietic and related tissue (C81–C96)         1 621         1 216           Leukaemia (C91–C95)         642         457           In situ and benign neoplasms and neoplasms of uncertain or unknown behaviour (D00–D48)         149         131           Chapter IIII Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50–D89)         458         249           Chapter IV Endocrine, nutritional and metabolic diseases (E00–E90)         1 300         1 420           Diabetes mellitus (E10–E14)         1 004         1 111           Chapter V Mental and behavioural disorders (F00–F99)         1 000         1 157           Chapter VII Diseases of the eye and adnexa (H00–H59)         269         450           Ch	2 448 1 358	17 		റ്റാ
Female genital organs (C51–C58)          635           Ovary (C56)          635           Male genital organs (C60–C63)         2 058            Prostate (C61)         2 014            Urinary tract (C64–C68)         875         477           Kidney, except renal pelvis (C64)         357         241           Bladder (C67)         493         214           Brain (C71)         451         361           Lymphoid, haematopoietic and related tissue (C81–C96)         1 621         1 216           Leukaemia (C91–C95)         642         457           In situ and benign neoplasms and neoplasms of uncertain or unknown behaviour (D00–D48)         149         131           Chapter IIII Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50–D89)         458         249           Chapter IV Endocrine, nutritional and metabolic diseases (E00–E90)         1 300         1 420           Diabetes mellitus (E10–E14)         1 004         1 111           Chapter V Mental and behavioural disorders (F00–F99)         1 000         1 157           Chapter VI Diseases of the nervous system (G00–G99)         1 198         1 183           Alzheimer's disease (G30)         269         450	1 358			2 672
Ovary (C56)  Male genital organs (C60–C63) Prostate (C61) Urinary tract (C64–C68) Kidney, except renal pelvis (C64) Bladder (C67) Bladder (C67) Brain (C71) Lymphoid, haematopoietic and related tissue (C81–C96) Leukaemia (C91–C95) In situ and benign neoplasms and neoplasms of uncertain or unknown behaviour (D00–D48) Chapter IIII Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50–D89) Chapter IV Endocrine, nutritional and metabolic diseases (E00–E90) Diabetes mellitus (E10–E14) Chapter V Mental and behavioural disorders (F00–F99) Alzheimer's disease (G30) Chapter VI Diseases of the eye and adnexa (H00–H59) Chapter VII Diseases of the ear and mastoid process (H60–H95) Chapter IX Diseases of the circulatory system (I00–I99) All heart disease (I05–I09, I11, I13, I20–I25, I26,			2 655 1 399	1 399
Male genital organs (C60–C63) 2 058 Prostate (C61) 2 014 Urinary tract (C64–C68) 875 477 Kidney, except renal pelvis (C64) 357 241 Bladder (C67) 493 214 Brain (C71) 451 361 Lymphoid, haematopoietic and related tissue (C81–C96) 1 621 1 216 Leukaemia (C91–C95) 642 457 In situ and benign neoplasms and neoplasms of uncertain or unknown behaviour (D00–D48) 149 131 Chapter IIII Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50–D89) 458 249 Chapter IV Endocrine, nutritional and metabolic diseases (E00–E90) 1 300 1 420 Diabetes mellitus (E10–E14) 1 004 1 111 Chapter V Mental and behavioural disorders (F00–F99) 1 000 1 157 Chapter VI Diseases of the nervous system (G00–G99) 1 198 1 183 Alzheimer's disease (G30) 269 450 Chapter VII Diseases of the ear and mastoid process (H60–H95) 5 2 Chapter IX Diseases of the circulatory system (I00–I99) 28 376 28 453 All heart disease (I05–I09, I11, I13, I20–I25, I26,			739	739
Prostate (C61) 2 014 Urinary tract (C64–C68) 875 477 Kidney, except renal pelvis (C64) 357 241 Bladder (C67) 493 214 Brain (C71) 451 361 Lymphoid, haematopoietic and related tissue (C81–C96) 1 621 1 216 Leukaemia (C91–C95) 642 457 In situ and benign neoplasms and neoplasms of uncertain or unknown behaviour (D00–D48) 149 131 Chapter IIII Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50–D89) 458 249 Chapter IV Endocrine, nutritional and metabolic diseases (E00–E90) 1 300 1 420 Diabetes mellitus (E10–E14) 1 004 1 111 Chapter V Mental and behavioural disorders (F00–F99) 1 000 1 157 Chapter VI Diseases of the nervous system (G00–G99) 1 198 1 183 Alzheimer's disease (G30) 269 450 Chapter VII Diseases of the ear and mastoid process (H60–H95) 5 2 Chapter IX Diseases of the circulatory system (I00–I99) 28 376 28 453 All heart disease (I05–I09, I11, I13, I20–I25, I26,	2 058	 2 627		2 627
Urinary tract (C64–C68)       875       477         Kidney, except renal pelvis (C64)       357       241         Bladder (C67)       493       214         Brain (C71)       451       361         Lymphoid, haematopoietic and related tissue (C81–C96)       1 621       1 216         Leukaemia (C91–C95)       642       457         In situ and benign neoplasms and neoplasms of uncertain or unknown behaviour (D00–D48)       149       131         Chapter IIII Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50–D89)       458       249         Chapter IV Endocrine, nutritional and metabolic diseases (E00–E90)       1 300       1 420         Diabetes mellitus (E10–E14)       1 004       1 111         Chapter V Mental and behavioural disorders (F00–F99)       1 000       1 157         Chapter VI Diseases of the nervous system (G00–G99)       1 198       1 183         Alzheimer's disease (G30)       269       450         Chapter VII Diseases of the ear and mastoid process (H60–H95)       5       2         Chapter IX Diseases of the circulatory system (I00–I99)       28 376       28 453         All heart disease (I05–I09, I11, I13, I20–I25, I26,       119, I13       110, I13, I20, I125, I26,	2 014	2 590		2 590
Kidney, except renal pelvis (C64)       357       241         Bladder (C67)       493       214         Brain (C71)       451       361         Lymphoid, haematopoietic and related tissue (C81–C96)       1 621       1 216         Leukaemia (C91–C95)       642       457         In situ and benign neoplasms and neoplasms of uncertain or unknown behaviour (D00–D48)       149       131         Chapter IIII Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50–D89)       458       249         Chapter IV Endocrine, nutritional and metabolic diseases (E00–E90)       1 300       1 420         Diabetes mellitus (E10–E14)       1 004       1 111         Chapter V Mental and behavioural disorders (F00–F99)       1 000       1 157         Chapter VI Diseases of the nervous system (G00–G99)       1 198       1 183         Alzheimer's disease (G30)       269       450         Chapter VII Diseases of the ear and mastoid process (H60–H95)       5       2         Chapter IX Diseases of the circulatory system (I00–I99)       28 376       28 453         All heart disease (I05–I09, I11, I13, I20–I25, I26,	1 352	969	523	1 492
Bladder (C67)         493         214           Brain (C71)         451         361           Lymphoid, haematopoietic and related tissue (C81–C96)         1 621         1 216           Leukaemia (C91–C95)         642         457           In situ and benign neoplasms and neoplasms of uncertain or unknown behaviour (D00–D48)         149         131           Chapter IIII Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50–D89)         458         249           Chapter IV Endocrine, nutritional and metabolic diseases (E00–E90)         1 300         1 420           Diabetes mellitus (E10–E14)         1 004         1 111           Chapter V Mental and behavioural disorders (F00–F99)         1 000         1 157           Chapter VI Diseases of the nervous system (G00–G99)         1 198         1 183           Alzheimer's disease (G30)         269         450           Chapter VII Diseases of the ear and mastoid process (H60–H95)         5         2           Chapter IX Diseases of the circulatory system (I00–I99)         28 376         28 453           All heart disease (I05–I09, I11, I13, I20–I25, I26,         119, I12         110–I12	598	437	284	721
Brain (C71) 451 361 Lymphoid, haematopoietic and related tissue (C81–C96) 1 621 1 216 Leukaemia (C91–C95) 642 457 In situ and benign neoplasms and neoplasms of uncertain or unknown behaviour (D00–D48) 149 131 Chapter IIII Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50–D89) 458 249 Chapter IV Endocrine, nutritional and metabolic diseases (E00–E90) 1 300 1 420 Diabetes mellitus (E10–E14) 1 004 1 111 Chapter V Mental and behavioural disorders (F00–F99) 1 000 1 157 Chapter VI Diseases of the nervous system (G00–G99) 1 198 1 183 Alzheimer's disease (G30) 269 450 Chapter VII Diseases of the ear and mastoid process (H60–H95) 5 2 Chapter IX Diseases of the circulatory system (I00–I99) 28 376 28 453 All heart disease (I05–I09, I11, I13, I20–I25, I26,	707	509	210	719
Lymphoid, haematopoietic and related tissue (C81–C96) 1 621 1 216 Leukaemia (C91–C95) 642 457  In situ and benign neoplasms and neoplasms of uncertain or unknown behaviour (D00–D48) 149 131  Chapter IIII Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50–D89) 458 249  Chapter IV Endocrine, nutritional and metabolic diseases (E00–E90) 1 300 1 420  Diabetes mellitus (E10–E14) 1004 1111  Chapter V Mental and behavioural disorders (F00–F99) 1 000 1 157  Chapter VI Diseases of the nervous system (G00–G99) 1 198 1 183  Alzheimer's disease (G30) 269 450  Chapter VII Diseases of the eye and adnexa (H00–H59) 2 —  Chapter VIII Diseases of the ear and mastoid process (H60–H95) 5 2  Chapter IX Diseases of the circulatory system (I00–I99) 28 376 28 453  All heart disease (I05–I09, I11, I13, I20–I25, I26,	812	539	428	967
Leukaemia (C91–C95) In situ and benign neoplasms and neoplasms of uncertain or unknown behaviour (D00–D48)  Chapter IIII Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50–D89)  Chapter IV Endocrine, nutritional and metabolic diseases (E00–E90)  Diabetes mellitus (E10–E14)  Chapter V Mental and behavioural disorders (F00–F99)  Chapter VI Diseases of the nervous system (G00–G99)  Alzheimer's disease (G30)  Chapter VII Diseases of the ear and mastoid process (H60–H95)  Chapter VIII Diseases of the circulatory system (I00–I99)  All heart disease (I05–I09, I11, I13, I20–I25, I26,	2 837	1 867	1 481	3 348
In situ and benign neoplasms and neoplasms of uncertain or unknown behaviour (D00–D48)  Chapter IIII Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50–D89)  Chapter IV Endocrine, nutritional and metabolic diseases (E00–E90)  Diabetes mellitus (E10–E14)  Chapter V Mental and behavioural disorders (F00–F99)  Chapter VI Diseases of the nervous system (G00–G99)  Alzheimer's disease (G30)  Chapter VII Diseases of the eye and adnexa (H00–H59)  Chapter VIII Diseases of the ear and mastoid process (H60–H95)  Chapter IX Diseases of the circulatory system (I00–I99)  All heart disease (I05–I09, I11, I13, I20–I25, I26,	1 099	723	531	1 254
unknown behaviour (D00–D48)  Chapter IIII Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50–D89)  Chapter IV Endocrine, nutritional and metabolic diseases (E00–E90)  Diabetes mellitus (E10–E14)  Chapter V Mental and behavioural disorders (F00–F99)  Chapter VI Diseases of the nervous system (G00–G99)  Alzheimer's disease (G30)  Chapter VII Diseases of the eye and adnexa (H00–H59)  Chapter VIII Diseases of the ear and mastoid process (H60–H95)  Chapter IX Diseases of the circulatory system (I00–I99)  All heart disease (I05–I09, I11, I13, I20–I25, I26,	1 000	. 20	001	120.
Chapter IIII Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50–D89)  Chapter IV Endocrine, nutritional and metabolic diseases (E00–E90)  Diabetes mellitus (E10–E14)  Chapter V Mental and behavioural disorders (F00–F99)  Chapter VI Diseases of the nervous system (G00–G99)  Alzheimer's disease (G30)  Chapter VII Diseases of the eye and adnexa (H00–H59)  Chapter VIII Diseases of the ear and mastoid process (H60–H95)  Chapter IX Diseases of the circulatory system (I00–I99)  All heart disease (I05–I09, I11, I13, I20–I25, I26,	280	266	279	545
certain disorders involving the immune mechanism (D50–D89)  Chapter IV Endocrine, nutritional and metabolic diseases (E00–E90)  Diabetes mellitus (E10–E14)  Chapter V Mental and behavioural disorders (F00–F99)  Chapter VI Diseases of the nervous system (G00–G99)  Alzheimer's disease (G30)  Chapter VII Diseases of the eye and adnexa (H00–H59)  Chapter VIII Diseases of the ear and mastoid process (H60–H95)  Chapter IX Diseases of the circulatory system (I00–I99)  All heart disease (I05–I09, I11, I13, I20–I25, I26,				
diseases (E00–E90)       1 300       1 420         Diabetes mellitus (E10–E14)       1 004       1 111         Chapter V Mental and behavioural disorders (F00–F99)       1 000       1 157         Chapter VI Diseases of the nervous system (G00–G99)       1 198       1 183         Alzheimer's disease (G30)       269       450         Chapter VII Diseases of the eye and adnexa (H00–H59)       2       —         Chapter VIII Diseases of the ear and mastoid process (H60–H95)       5       2         Chapter IX Diseases of the circulatory system (I00–I99)       28 376       28 453         All heart disease (I05–I09, I11, I13, I20–I25, I26,	707	675	264	939
Diabetes mellitus (E10–E14) 1 004 1 111 Chapter V Mental and behavioural disorders (F00–F99) 1 000 1 157 Chapter VI Diseases of the nervous system (G00–G99) 1 198 1 183 Alzheimer's disease (G30) 269 450 Chapter VII Diseases of the eye and adnexa (H00–H59) 2 — Chapter VIII Diseases of the ear and mastoid process (H60–H95) 5 2 Chapter IX Diseases of the circulatory system (I00–I99) 28 376 28 453 All heart disease (I05–I09, I11, I13, I20–I25, I26,				
Chapter V Mental and behavioural disorders (F00–F99) 1 000 1 157 Chapter VI Diseases of the nervous system (G00–G99) 1 198 1 183 Alzheimer's disease (G30) 269 450 Chapter VII Diseases of the eye and adnexa (H00–H59) 2 — Chapter VIII Diseases of the ear and mastoid process (H60–H95) 5 2 Chapter IX Diseases of the circulatory system (I00–I99) 28 376 28 453 All heart disease (I05–I09, I11, I13, I20–I25, I26,	2 720	1 758	1 815	3 573
Chapter VI Diseases of the nervous system (G00–G99) 1 198 1 183 Alzheimer's disease (G30) 269 450 Chapter VII Diseases of the eye and adnexa (H00–H59) 2 — Chapter VIII Diseases of the ear and mastoid process (H60–H95) 5 2 Chapter IX Diseases of the circulatory system (I00–I99) 28 376 28 453 All heart disease (I05–I09, I11, I13, I20–I25, I26,	2 115	1 377	1 365	2 742
Alzheimer's disease (G30)  Chapter VII Diseases of the eye and adnexa (H00–H59)  Chapter VIII Diseases of the ear and mastoid process (H60–H95)  Chapter IX Diseases of the circulatory system (I00–I99)  All heart disease (I05–I09, I11, I13, I20–I25, I26,	2 157	1 262	1 723	2 985
Chapter VII Diseases of the eye and adnexa (H00–H59) 2 — Chapter VIII Diseases of the ear and mastoid process (H60–H95) 5 2 Chapter IX Diseases of the circulatory system (I00–I99) 28 376 28 453 All heart disease (I05–I09, I11, I13, I20–I25, I26,	2 381	1 386	1 546	2 932
Chapter VIII Diseases of the ear and mastoid process (H60–H95) 5 2 Chapter IX Diseases of the circulatory system (I00–I99) 28 376 28 453 All heart disease (I05–I09, I11, I13, I20–I25, I26,	719	366	683	1 049
Chapter IX Diseases of the circulatory system (I00–I99) 28 376 28 453 All heart disease (I05–I09, I11, I13, I20–I25, I26,	2	2	2	4
All heart disease (105–109, 111, 113, 120–125, 126,	7	6	2	8
` ` ' ' ' ' ' ' '	56 829	27 031	27 856	54 887
127, 130–152) 21 349 18 912	40 261	19 842	18 412	38 254
Acute rheumatic fever and chronic rheumatic				
heart diseases (I00–I09) 146 281	427	111	229	340
Hypertensive diseases (I10–I15) 452 698	1 150	427	691	1 118
Ischaemic heart diseases (I20–I25) 18 132 14 507	32 639	16 515	14 059	30 574
Acute myocardial infarction (I21) 12 299 9 594	21 893	10 240	8 757	18 997
Pulmonary heart disease and diseases of pulmonary		0.00=	0.000	
circulation and other forms of heart disease (I26–I52) 2 849 3 710	0 ===	2 995	3 696	6 691
Heart failure (I50) 1 117 1 925	6 559	1 070	1 833	2 903
Cerebrovascular diseases (I60–I69) 5 057 7 522	3 042	5 260	7 578	12 838
Diseases of arteries, arterioles and capillaries (I70–I79) 1 614 1 587	3 042 12 579	1 611	1 459	3 070
Atherosclerosis (I70) 343 749	3 042 12 579 3 201	004	508 545	832 1 480
Aortic aneurysm and dissection (I71) 895 464	3 042 12 579	324 935		1 4×0

<sup>(</sup>a) See Explanatory Notes, paragraph 16 for further information.

# **1.4** UNDERLYING CAUSE, Selected Years continued

	1998.			1999.		
Cause of death and ICD code	Males	Females	Persons	Males	Females	Persons
	• • • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • •
All causes	67 073	60 129	127 202	67 227	60 875	128 102
Chapter I Certain infectious and parasitic diseases (A00–B99)	752	603	1 355	842	761	1 603
Septicaemia (A40, A41)	304	366	670	401	460	861
Human immunodeficiency virus (HIV) disease (B20-B24)(a)	176	11	187	156	10	166
Chapter II Neoplasms (C00–D48)	19 861	15 212	35 073	20 283	15 573	35 856
Malignant neoplasms (C00-C97)	19 590	14 970	34 560	19 866	15 187	35 053
Digestive organs (C15–C26)	5 409	4 307	9 716	5 600	4 312	9 912
Oesophagus (C15)	654	323	977	641	299	940
Stomach (C16)	753	438	1 191	754	447	1 201
Colon (C18)	1 733	1 661	3 394	1 771	1 557	3 328
Rectosigmoid junction, rectum, anus and						
anal canal (C19-C21)	736	504	1 240	734	514	1 248
Liver and intrahepatic bile ducts (C22)	427	221	648	449	234	683
Pancreas (C25)	811	801	1 612	868	850	1 718
Trachea, bronchus and lung (C33, C34)	4 821	2 053	6 874	4 655	2 148	6 803
Melanoma of skin (C43)	635	345	980	631	359	990
Breast (C50)	16	2 542	2 558	22	2 505	2 527
Female genital organs (C51–C58)		1 367	1 367		1 300	1 300
Ovary (C56)		743	743		737	737
Male genital organs (C60–C63)	2 570		2 570	2 546		2 546
Prostate (C61)	2 531		2 531	2 499		2 499
Urinary tract (C64–C68)	1 064	594	1 658	1 112	605	1 717
Kidney, except renal pelvis (C64)	465	320	785	482	320	802
Bladder (C67)	572	247	819	587	252	839
Brain (C71)	567	443	1 010	588	430	1 018
Lymphoid, haematopoietic and related tissue (C81–C96)	1 870	1 600	3 470	1 962	1 596	3 558
Leukaemia (C91–C95)	763	553	1 316	768	578	1 346
In situ and benign neoplasms and neoplasms of uncertain or unknown behaviour (D00–D48)	271	242	513	417	386	803
Chapter IIII Diseases of the blood and blood-forming organs and	211	242	513	411	360	803
certain disorders involving the immune mechanism (D50-D89)	225	235	460	195	255	450
Chapter IV Endocrine, nutritional and metabolic diseases (E00–E90)	1.046	1 007	2 022	2.001	2.000	4 100
	1 946	1 887	3 833	2 001	2 099	4 100
Diabetes mellitus (E10–E14)  Chanter V Montal and behavioural disorders (E00, E00)	1 424	1 327	2 751	1 485	1 462	2 947
Chapter V Mental and behavioural disorders (F00–F99)	1 558	1 720	3 278	1 256	1 552 2 072	2 808 3 890
Chapter VI Diseases of the nervous system (G00–G99) Alzheimer's disease (G30)	1 369 245	1 421 535	2 790 780	1 818 493	1 023	1 516
Chapter VII Diseases of the eye and adnexa (H00–H59)		3	4	493		
Chapter VIII Diseases of the ear and mastoid process (H60–H95)	1 5	6	4 11	_	5 6	5 6
Chapter IX Diseases of the circulatory system (I00–I99) All heart disease (I05–I09, I11, I13, I20–I25, I26,	24 746	26 051	50 797	24 824	26 479	51 303
127, 130–152)	18 201	17 054	35 255	18 116	17 229	35 345
Acute rheumatic fever and chronic rheumatic			0=0			
heart diseases (I00–I09)	87	171	258	84	177	261
Hypertensive diseases (I10–I15)	410	730	1 140	432	745	1 177
Ischaemic heart diseases (I20–I25)	15 024	12 801	27 825	14 865	12 744	27 609
Acute myocardial infarction (I21)	8 897	7 630	16 527	8 028	7 124	15 152
Pulmonary heart disease and diseases of pulmonary						
circulation and other forms of heart disease (I26–I52)	2 895	3 678	6 573	2 955	3 896	6 851
Heart failure (I50)	988	1 567	2 555	989	1 725	2 714
Cerebrovascular diseases (I60–I69)	4 812	7 170	11 982	4 894	7 372	12 266
Diseases of arteries, arterioles and capillaries (I70–I79)	1 415	1 330	2 745	1 476	1 388	2 864
Atherosclerosis (I70)	193	338	531	229	423	652
Aortic aneurysm and dissection (I71)	878	551	1 429	882	568	1 450
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<sup>(</sup>a) See Explanatory Notes, paragraph 16 for further information.

# 1.4 UNDERLYING CAUSE, Selected Years continued

	1989			1994		
Cause of death and ICD code	Males	Females	Persons	Males	Females	Females
•••••	• • • • • • •			• • • • • •	• • • • • • •	• • • • •
Chapter X Diseases of the respiratory system (J00–J99)	6 366	4 245	10 611	5 791	4 167	9 958
Influenza and pneumonia (J10–J18)	1 062	1 242	2 304	894	994	1 888
Chronic lower respiratory diseases (J40–J47)	4 711	2 469	7 180	4 132	2 581	6 713
Emphysema (J43)	719	289	1 008	591	304	895
Asthma and status asthmaticus (J45, J46)	434	530	964	329	496	825
Chapter XI Diseases of the digestive system (K00–K93)	2 299	1 945	4 244	1 961	1 897	3 858
Diseases of oesophagus, stomach and duodenum (K20–K31)	530	481	1 011	374	396	770
Gastric and duodenal ulcer (K25–K27)	460	412	872	287	321	608
Diseases of liver (K70–K77)	897	328	1 225	793	370	1 163
Chapter XII Diseases of the skin and subcutaneous						
tissue (L00-L99)	55	89	144	85	126	211
Chapter XIII Diseases of the musculoskeletal system and						
connective tissue (M00–M99)	216	476	692	229	546	775
Arthropathies and systemic connective tissue						
disorders (M00–M36)	158	374	532	148	368	516
Chapter XIV Diseases of the genitourinary system (N00–N99)	842	1 087	1 929	977	1 133	2 110
Renal failure (N17–N19)	449	546	995	625	661	1 286
Chapter XV Pregnancy, childbirth and the puerperium (000–099)		13	13		16	16
Chapter XVI Certain conditions originating in the perinatal						
period (P00–P96)	481	372	853	402	293	695
Chapter XVII Congenital malformations, deformations and	.01	0.2	000		200	000
chromosomal abnormalities (000–099)	400	373	773	413	341	754
Congenital malformations of the circulatory	400	373	113	415	341	134
system (Q20–Q28)	156	126	282	177	139	316
Chapter XVIII Symptoms, signs and abnormal clinical and laboratory	100	120	202	111	100	310
findings, not elsewhere classified (R00–R99)	473	341	814	278	269	547
Chapter XX External causes of morbidity and mortality (V01–Y98)	5 703	2 468	8 171	5 087	2 099	7 <b>1</b> 86
Accidents (V01–X59)	3 736	1 885	5 621	2 969	1 521	4 490
Transport accidents (V01–V99)	2 266	897	3 163	1 562	635	2 197
·						
Falls (W00–W19)	285	198	483	253	149	402
Accidental drowning and submersion (W65–W74)	244	70	314	208	41	249
Intentional self-harm (X60–X84)	1 658	438	2 096	1 830	428	2 258
Hanging, strangulation and suffocation (X70)	467	88	555	532	107	639
Assault (X85–Y09)	210	109	319	211	121	332

# **1.4** UNDERLYING CAUSE, Selected Years continued

	1998			1999		
Cause of death and ICD code	Males	Females	Persons	Males	Females	Persons
• • • • • • • • • • • • • • • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • • •	• • • • •
Chapter X Diseases of the respiratory system (J00–J99)	6 593	5 817	12 410	5 296	4 317	9 613
Influenza and pneumonia (J10–J18)	2 049	2 530	4 579	765	1 133	1 898
Chronic lower respiratory diseases (J40–J47)	3 628	2 486	6 114	3 609	2 487	6 096
Emphysema (J43)	575	287	862	575	312	887
Asthma and status asthmaticus (J45, J46)	278	407	685	160	264	424
Chapter XI Diseases of the digestive system (K00–K93)	1 969	1 968	3 937	2 111	2 110	4 221
Diseases of oesophagus, stomach and duodenum (K20-K31)	323	353	676	313	335	648
Gastric and duodenal ulcer (K25–K27)	225	253	478	215	231	446
Diseases of liver (K70–K77)	810	376	1 186	863	380	1 243
Chapter XII Diseases of the skin and subcutaneous						
tissue (L00-L99)	92	145	237	108	181	289
Chapter XIII Diseases of the musculoskeletal system and						
connective tissue (M00–M99)	197	474	671	300	562	862
Arthropathies and systemic connective tissue						
disorders (M00–M36)	125	334	459	208	360	568
Chapter XIV Diseases of the genitourinary system (NOO–N99)	1 117	1 433	2 550	1 232	1 536	2 768
Renal failure (N17–N19)	668	762	1 430	842	919	1 761
Chapter XV Pregnancy, childbirth and the puerperium (000–099)		7	7		11	11
Chapter XVI Certain conditions originating in the perinatal						
period (P00–P96)	325	252	577	377	264	641
Chapter XVII Congenital malformations, deformations and						
chromosomal abnormalities (Q00–Q99)	334	271	605	392	323	715
Congenital malformations of the circulatory						
system (Q20–Q28)	111	93	204	133	118	251
Chapter XVIII Symptoms, signs and abnormal clinical and						
laboratory findings, not elsewhere classified (R00-R99)	369	292	661	324	276	600
Chapter XX External causes of morbidity and mortality (V01–Y98)	5 614	2 332	7 946	5 868	2 493	8 361
Accidents (V01–X59)	3 168	1 652	4 820	3 486	1 801	5 287
Transport accidents (V01–V99)	1 411	547	1 958	1 441	570	2 011
Falls (W00–W19)	267	190	457	309	211	520
Accidental drowning and submersion (W65–W74)	187	58	245	203	75	278
Intentional self-harm (X60–X84)	2 150	533	2 683	2 002	490	2 492
Hanging, strangulation and suffocation (X70)	1 035	182	1 217	868	160	1 028
Assault (X85–Y09)	203	104	307	204	96	300

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#### **1.5** UNDERLYING CAUSE, Selected Years—Standardised Death Rates(a)

1989..... 1994..... Males Females Cause of death and ICD code Males Females Persons Persons 758.9 **All causes** 980.8 588.9 861.7 523.5 671.6 Chapter I Certain infectious and parasitic diseases (A00–B99) 5.9 3.8 4.6 7.1 4.3 5.6 Septicaemia (A40, A41) 3.1 2.1 2.2 2.5 2.4 1.9 142.8 Chapter II Neoplasms (C00–D48) 244.5 184.7 242.5 141.6 183.8 Malignant neoplasms (C00-C97) 242.4 141.4 183.0 239.0 139.1 181.0 Digestive organs (C15–C26) 66.8 41.2 52.3 64.7 39.2 50.7 Oesophagus (C15) 6.8 2.8 4.7 7.1 2.8 4.8 Stomach (C16) 11.5 7.9 6.9 5.4 10.2 4.4 Colon (C18) 22.3 16.4 18.9 22.3 16.2 19.0 Rectosigmoid junction, rectum, anus and anal canal (C19-C21) 8.7 4.1 6.1 8.4 3.9 5.9 Liver and intrahepatic bile ducts (C22) 3.5 1.4 2.4 4.3 1.9 3.0 Pancreas (C25) 10.0 7.2 8.5 9.4 6.6 7.9 Trachea, bronchus and lung (C33, C34) 64.0 37.7 58.7 17.5 18.7 36.3 Melanoma of skin (C43) 6.5 4.7 2.8 3.2 7.3 4.8 Breast (C50) 0.2 27.2 14.9 0.2 26.5 14.3 Female genital organs (C51-C58) 8.2 7.5 15.1 13.9 . . . . Ovary (C56) 7.1 3.8 7.4 4.0 Male genital organs (C60–C63) 32.2 12.6 35.1 13.9 . . . . Prostate (C61) 12.3 31.7 34.7 13.7 Urinary tract (C64–C68) 12.8 8.2 12.2 4.9 5.1 8.0 Kidney, except renal pelvis (C64) 4.9 3.6 2.8 3.9 2.6 5.2 Bladder (C67) 7.5 2.2 4.3 6.7 1.9 3.8 Brain (C71) 5.7 4.1 4.9 6.2 4.4 5.3 Lymphoid, haematopoietic and related tissue (C81-C96) 22.7 13.2 17.2 23.0 14.2 18.0 Leukaemia (C91-C95) 4.9 9.0 6.8 In situ and benign neoplasms and neoplasms of uncertain or unknown behaviour (D00-D48) 2.2 1.4 1.7 3.5 2.5 2.9 Chapter III Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D00-D48) 6.2 2.5 4.3 7.8 2.4 5.1 Chapter IV Endocrine, nutritional and metabolic diseases (E00-E90) 19.1 14.6 16.6 22.5 16.4 19.0 Diabetes mellitus (E10-E14)) 14.9 11.4 13.0 17.8 12.2 14.5 Chapter V Mental and behavioural disorders (F00–F99) 15.4 11.2 13.3 16.8 13.7 15.5 Class VI Disease of the nervous system (G00–G99) 18.0 12.3 14.6 18.1 13.6 15.4 Alzheimer's disease (G30 4.6 4.4 4.5 5.4 5.2 5.4 Chapter VII Diseases of the eye and adnexa (H00–H59) Chapter VIII Diseases of the ear and mastoid process (H60–H95) 0.1 0.1 Chapter IX Diseases of the circulatory system (I00–I99) 432.7 281.5 349.1 355.8 231.4 287.0 All heart disease (I05-I09, I11, I13, I20-I25, I26, 127, 130-152) 320.7 188.3 247.0 258.7 200.6 154.0 Acute rheumatic fever and chronic rheumatic heart diseases (I00-I09) 2.0 3.0 2.6 1.4 2.1 1.8 Hypertensive diseases (I10-I15) 7.1 6.9 7.1 5.6 5.7 5.8 Ischaemic heart diseases (I20-I25) 270.0 200.0 145.4 214.1 118.4 160.7 Acute myocardial infarction (I21) 182.1 96.9 134.1 74.6 100.1 132.3 Pulmonary heart disease and diseases of pulmonary circulation and other forms of heart disease (I26-I52) 40.4 45.3 40.3 30.1 34.8 35.9 Heart failure (I50) 19.6 18.0 18.9 15.4 14.1 14.8 Cerebrovascular diseases (I60–I69) 81.0 73.7 77.6 71.5 61.9 66.5 Diseases of arteries, arterioles and capillaries (I70-I79) 25.4 15.2 19.7 21.5 12.0 16.0 Atherosclerosis (I70) 6.2 6.8 4.6 3.9 4.2 Aortic aneurysm and dissection (I71) 4.7 7.8 13.2 8.3 12.1 4.8 

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

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

1998..... 1999..... Males Females Cause of death and ICD code Males Females Persons Persons **All causes** 758.2 468.8 597.6 737.1 460.1 584.2 9.2 4.5 Chapter I Certain infectious and parasitic diseases (A00–B99) 8.4 4.7 6.4 5.8 7.3 Septicaemia (A40 A41) 3.0 2.6 3.6 3.3 3.8 Chapter II Neoplasms (C00–D48) 220.1 132.6 170.0 218.9 132.1 169.1 167.6 214.2 47.1 60.1 Malignant neoplasms (C00-C97) 217.1 130.7 129.2 165.5 60.1 Digestive organs (C15–C26) 59.7 36.7 47.1 35.5 46.7 Oesophagus (C15) 2.6 6.8 2.4 7.2 4.7 4.4 Stomach (C16) 5.7 8.1 3.6 5.7 8.3 3.7 Colon (C18) 19.1 14.2 16.4 19.1 12.8 15.6 Rectosigmoid junction, rectum, anus and anal canal (C19-C21) 8.1 4.4 6.1 7.8 4.3 5.9 Liver and intrahepatic bile ducts (155) 4.7 1.9 3.2 4.8 2.0 3.3 Pancreas (C25) 8.9 6.8 7.8 9.3 7.1 8.1 Trachea, bronchus and lung (C33, C34) 53.1 33.9 49.9 32.7 18.6 19.0 Melanoma of skin (C43) 4.8 3.2 6.9 3.0 6.7 4.7 Breast (C50) 0.2 22.9 12.3 0.2 22.1 11.9 Female genital organs (C51-C58) 6.6 12.1 11.3 6.1 . . . . Ovary (C56) 6.7 3.6 6.4 3.5 Male genital organs (C60–C63) 29.7 12.1 28.5 11.6 . . . . Prostate (C61) 29.2 11.8 28.0 11.3 Urinary tract (C64–C68) 5.0 7.9 4.9 11.9 12.1 8.0 Kidney, except renal pelvis (C64) 3.8 2.7 3.8 5.1 2.7 5.1 Bladder (C67) 6.5 2.0 3.8 6.5 2.0 3.8 Brain (C71) 6.0 4.2 5.0 6.0 4.0 5.0 Lymphoid, haematopoietic and related tissue (C81–C96) 20.7 13.8 16.8 21.1 13.3 16.8 Leukaemia (C91-C95) 4.8 8.3 4.8 In situ and benign neoplasms and neoplasms of uncertain or unknown behaviour (D00–D48) 3.1 1.9 2.4 4.7 2.9 3.6 Chapter III Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D00–D48) 2.6 1.8 2.1 2.1 2.0 2.1 Chapter IV Endocrine, nutritional and metabolic diseases (E00-E90) 21.8 15.2 18.2 21.7 16.3 18.8 Diabetes mellitus (E10-E14)) 16.0 10.6 13.0 16.2 11.3 13.5 Chapter V Mental and behavioural disorders (F00–F99) 17.9 12.1 15.1 14.1 10.4 12.3 Class VI Disease of the nervous system (320–389) 15.6 11.3 13.2 20.0 15.4 17.5 Alzheimer's disease (G30) 3.4 6.6 2.9 3.6 5.6 6.3 Chapter VII Diseases of the eye and adnexa (H00–H59) Chapter VIII Diseases of the ear and mastoid process (H60–H95) 0.1 0.1 0.1 Chapter IX Diseases of the circulatory system (I00–I99) 283.7 187.1 230.7 275.4 182.4 224.6 All heart disease (I05-I09, I11, I13, I20-I25, I26, 127, 130-152) 207.5 123.2 161.1 200.0 119.3 155.8 Acute rheumatic fever and chronic rheumatic heart diseases (I00-I09) 1.0 1.5 1.2 0.9 1.4 1.2 Hypertensive diseases (I10-I15) 4.7 5.2 5.1 4.8 5.1 5.1 Ischaemic heart diseases (I20-I25) 170.8 92.8 127.7 163.6 88.9 122.4 Acute myocardial infarction (I21) 101.1 50.2 56.0 76.1 88.6 67.3 Pulmonary heart disease and diseases of pulmonary circulation and other forms of heart disease (I26-I52) 26.3 29.5 33.6 26.1 29.5 33.1 Heart failure (I50) 11.9 10.2 10.9 11.4 10.8 11.1 Cerebrovascular diseases (I60-I69) 56.1 50.6 53.4 55.1 49.9 52.6 Diseases of arteries, arterioles and capillaries (I70–I79) 9.5 16.4 9.6 12.5 16.5 12.5 Atherosclerosis (I70) 2.3 2.2 2.3 2.7 Aortic aneurysm (I71) 10.0 4.3 6.7 9.8 4.2 6.6 

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

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

1989..... 1994..... Cause of death and ICD code Males Males Females Females Persons Persons Chapter X Diseases of the respiratory system (J00–J99) 36.9 99.7 43.3 65.0 76.9 52.5 Influenza and pneumonia (J10-J18) 17.9 11.8 14.2 12.2 8.1 9.8 43.9 26.2 54.3 Chronic lower respiratory diseases (J40-J47) 72.3 23.8 35.6 3.1 6.1 7.6 2.9 4.8 Emphysema (J43) 10.8 5.8 25.9 Asthma and status asthmaticus (J45, J46) 5.9 5.8 4.2 4.7 4.4 24.7 Chapter XI Diseases of the digestive system (K00–K93) 33.6 19.7 16.5 20.4 Diseases of oesophagus, stomach and duodenum (K20-K31) 6.2 5.0 8.4 4.8 3.3 4.0 Gastric and duodenal ulcer (K25-K27) 7.4 4.1 5.4 3.8 2.7 3.2 Diseases of liver (K70-K77) 7.4 11.4 3.7 9.1 3.8 6.3 Chapter XII Diseases of the skin and subcutaneous tissue (L00-L99) 0.9 0.8 0.9 1.2 1.0 1.1 Chapter XIII Diseases of the musculoskeletal system and connective tissue (M00-M99) 3.4 4.9 4.2 3.0 4.8 4.1 Arthropathies and systemic connective tissue disorders (M00-M36) 2.5 3.9 3.3 1.9 3.3 2.7 Chapter XIV Diseases of the genitourinary system (N00-N99) 14.1 11.9 9.5 10.9 10.9 13.8 Renal failure (N17-N19) 7.8 5.2 6.2 9.0 5.2 6.6 Chapter XV Pregnancy, childbirth and the puerperium (000–099) 0.2 0.2 0.1 . . Chapter XVI Certain conditions originating in the perinatal period (P00-P96) 5.6 4.6 5.1 4.6 3.5 4.0 Chapter XVII Congenital malformations, deformations and 4.5 chromosomal abnormalities (Q00-Q99) 4.8 4.6 4.7 3.9 4.3 Congenital malformations of the circulatory system (Q20–Q28) 1.9 1.5 1.7 2.0 1.6 1.8 Chapter XVIII Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00-R99) 5.9 3.8 4.9 3.3 2.6 3.0 Chapter XX External causes of morbidity and mortality (V01–Y98) 71.0 27.5 48.9 58.9 21.2 39.7 Accidents (V01-X59) 47.1 20.6 33.6 35.0 14.9 24.7 Transport accidents (V01-V99) 27.2 10.5 18.8 17.9 7.0 12.4 Falls (W00-W19) 4.0 2.0 2.9 3.1 1.3 2.1 Accidental drowning and submersion (W65–W74) 2.3 3.0 8.0 1.9 0.5 1.4 12.5 5.2 20.7 Intentional self-harm (X60-X84) 20.2 4.7 12.6 Hanging, strangulation and suffocation (X70) 5.7 1.0 3.3 6.1 1.2 3.6 Assault (X85-Y09) 2.5 1.3 1.9 2.4 1.4 1.9

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

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

1008 1000

	1998.			1999		
Cause of death and ICD code	Males	Females	Persons	Males	Females	Persons
• • • • • • • • • • • • • • • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • • •	
Chapter X Diseases of the respiratory system (J00–J99)	76.7	43.2	56.6	59.1	32.0	43.1
Influenza and pneumonia (J10–J18)	24.5	16.8	19.9	8.8	7.2	7.9
Chronic lower respiratory diseases (J40–J47)	41.5	20.5	29.0	40.1	19.7	28.0
Emphysema (J43)	6.5	2.4	4.1	6.3	2.5	4.1
Asthma and status asthmaticus (J45 ,J46)	3.1	3.5	3.3	1.7	2.2	2.0
Chapter XI Diseases of the digestive system (K00–K93)	21.9	15.1	18.3	22.7	15.6	19.0
Diseases of oesophagus, stomach and						
duodenum (K20–K31)	3.7	2.5	3.0	3.5	2.3	2.8
Gastric and duodenal ulcer (K25–K27)	2.6	1.8	2.1	2.4	1.6	2.0
Diseases of liver (K70–K77)	8.5	3.5	5.9	8.8	3.5	6.0
Chapter XII Diseases of the skin and subcutaneous						
tissue (L00-L99)	1.1	1.0	1.0	1.2	1.2	1.2
Chapter XIII Diseases of the musculoskeletal system and						
connective tissue (M00–M99)	2.2	3.7	3.1	3.3	4.2	3.8
Arthropathies and systemic connective tissue						
disorders (M00–M36)	1.4	2.8	2.2	2.3	2.9	2.6
Chapter XIV Diseases of the genitourinary system (N00–N99)	13.2	10.3	11.3	14.1	10.6	11.8
Renal failure (N17–N19)	8.0	5.3	6.3	9.6	6.2	7.5
Chapter XV Pregnancy, childbirth and the puerperium (000–099)		0.1	_		0.1	0.1
Chapter XVI Certain conditions originating in the perinatal						
period (P00–P96)	3.8	3.1	3.5	4.2	3.1	3.7
Chapter XVII Congenital malformations, deformations and						
chromosomal abnormalities (Q00-Q99)	3.8	3.1	3.5	4.3	3.6	4.0
Congenital malformations of the circulatory system (Q20–Q28)	1.3	1.1	1.2	1.5	1.3	1.4
Chapter XVIII Symptoms, signs and abnormal clinical and						
laboratory findings, not elsewhere classified (R00-R99)	4.1	2.5	3.3	3.6	2.4	3.0
Chapter XX External causes of morbidity and mortality (V01–Y98)	61.2	21.6	41.2	63.1	22.8	42.6
Accidents (V01–X59)	35.0	14.5	24.6	37.9	15.8	26.7
Transport accidents (V01–V99)	15.4	5.7	10.5	15.7	5.9	10.7
Falls (W00–W19)	3.0	1.5	2.2	3.3	1.5	2.4
Accidental drowning and submersion (W65–W74)	2.0	0.6	1.3	2.2	0.8	1.5
Intentional self-harm (X60–X84)	23.1	5.6	14.3	21.1	5.1	13.0
Hanging, strangulation and suffocation (X70)	11.3	2.0	6.6	9.3	1.7	5.4
Assault (X85–Y09)	2.2	1.1	1.6	2.2	1.0	1.6
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<sup>(</sup>a) Standardised death rate per 100,000 of the mid-year 1991 population. See Glossary for further explanation.

	NSW		VIC		QLD		SA	
Cause of death and ICD code	Males F		Males F		Males F		Males F	
••••••	• • • • • • •		• • • • • •	• • • • •	• • • • • •			• • •
Under 1 year	281	223	188	143	159	107	50	28
Certain conditions originating in the perinatal period (P00–P96) Congenital malformations, deformations and chromosomal	138	98	85	70	61	46	21	10
abnormalities (Q00–Q99)	74	67	64	49	52	36	11	7
Sudden infant death syndrome (R95)	29	26	17	12	21	11	10	_
1–14 years	115	91	87	62	<b>70</b>	68	24	18
Malignant neoplasms (C00–C97) Diseases of the nervous system (G00–G99)	24 8	10 8	19 11	14 8	10 4	8 10	<i>4</i> 3	2 3
Diseases of the circulatory system (I00–I99)	2	6	4	3	1	4	1	1
Congenital malformations, deformations and chromosomal								
abnormalities (Q00–Q99)	10	10	6	3	6	4	4	1
External causes of morbidity and mortality (V01–Y98)	48	36	33	18	37	31	10	6
15–24 years	430	168	318	111	270	88	96	39
Malignant neoplasms (C00–C97)  Mental and behavioural disorders due to psychoactive	34	19	19	8	19	14	3	3
substance use (F10–F19)	40	13	7	1	3	2	6	6
Diseases of the nervous system (G00–G99)	17	7	15	6	11	3	3	4
External causes of morbidity and mortality (V01–Y98)	287	87	244	78	206	48	77	18
Transport accidents (V01–V99) Intentional self-harm (X60–X84)	113 91	40 31	91 60	24 16	76 69	20 10	39 17	8 5
interitional sent faith (NOS NOS)	31	01	00	10	05	10	Δ,	3
25–34 years	682	209	469	202	352	133	153	57
Malignant neoplasms (C00–C97)  Mental and behavioural disorders due to psychoactive	42	52	39	38	29	23	9	19
substance use (F10–F19)	75	14	14	5	9	5	17	_
Diseases of the circulatory system (I00–I99)	35	22	22	10	22	17	18	4
Diseases of the digestive system (K00–K93)	9	4	5	4	5	2	4	2
External causes of morbidity and mortality (V01–Y98)  Transport accidents (V01–V99)	451 94	83 22	349 74	99 19	256 57	64 23	88 19	23 5
Intentional self-harm (X60–X84)	176	31	104	34	97	23	45	11
<b>35–44 years</b> Malignant neoplasms (C00–C97)	<b>818</b> 136	<b>420</b> 172	<b>537</b> 113	<b>319</b> 147	<b>431</b> 77	<b>261</b> 106	<b>205</b> 40	<b>101</b> 43
Mental and behavioural disorders due to psychoactive	200		110			200		.0
substance use (F10–F19)	66	18	12	6	8	_	13	3
Diseases of the circulatory system (I00–I99)	148	47	80	33	83	34	31	11
Diseases of the digestive system (K00–K93)  External causes of morbidity and mortality (V01–Y98)	42 333	23 107	21 250	18 69	20 194	17 57	18 84	5 22
Transport accidents (V01–V99)	61	15	40	11	44	8	19	7
Intentional self-harm (X60–X84)	142	47	109	19	84	17	36	9
45–54 years	1 398	827	924	566	802	463	294	204
Malignant neoplasms (C00–C97)	469	456	336	338	274	259	109	108
Trachea, bronchus and lung (C33, C34)	107	63	61	35	61	39	22	11
Breast (C50)	1	132	_	125	_	79 75	— 01	30
Diseases of the circulatory system (I00–I99) Ischaemic heart diseases (I20–I25)	<i>4</i> 13 301	117 46	224 158	72 25	238 171	75 31	81 56	30 18
Cerebrovascular diseases (160–169)	39	34	24	22	29	20	9	6
Diseases of the respiratory system (J00–J99)	43	41	16	16	16	23	5	5
Disease of the digestive system (K00–K93)	89	21	58	17	56	19	19	13
External causes of morbidity and mortality (V01–Y98)  Transport accidents (V01–V99)	223	91 25	168 40	54 16	139 21	34 5	<i>4</i> 5 11	23
Intentional self-harm (X60–X84)	36 110	25 34	40 67	16 18	69	13	20	6 14

...... ABS • CAUSES OF DEATH • 3303.0 • 1999 25

	WA		TAS		NT		ACT	
Cause of death and ICD code	Males F	emales	Males Fe	emales	Males Fe	emales	Males F	emales
• • • • • • • • • • • • • • • • • • • •	• • • • • • •	• • • • •		• • • • •		• • • • •		
Under 1 year	70	47	27	19	24	18	13	11
Certain conditions originating in the perinatal period (P00–P96)	31	21	16	8	13	4	8	5
Congenital malformations, deformations and chromosomal								
abnormalities (Q00–Q99)	20	15	5	8	4	7 3	3 2	4
Sudden infant death syndrome (R95)	10	5	4	2	1	3	2	2
1–14 years	51	29	12	10	6	7	6	5
Malignant neoplasms (C00-C97)	7	2	2	3	_	1	1	2
Diseases of the nervous system (G00–G99)	3	2	_	1	_	_	1	_
Diseases of the circulatory system (I00–I99) Congenital malformations, deformations and chromosomal	_	_	_	_	1	_	_	_
abnormalities (Q00–Q99)	3	1	1	_	1	_	2	_
External causes of morbidity and mortality (V01–Y98)	28	17	7	5	2	3	2	1
15–24 years	177	44	39	15	41	13	17	6
Malignant neoplasms (C00–C97)  Mental and behavioural disorders due to psychoactive	13	2	3	_	2	1	2	_
substance use (F10–F19)	10	4	_	_	2	1	_	_
Diseases of the nervous system (G00–G99)	8	1	1	1	1	1	2	_
External causes of morbidity and mortality (V01–Y98)	127	23	33	12	29	7	12	5
Transport accidents (V01–V99)	54	10	15	9	15	3	4	2
Intentional self-harm (X60–X84)	43	4	10	2	12	1	7	2
25–34 years	205	75	48	16	62	19	31	10
Malignant neoplasms (C00–C97)	18	10	3	4	2	2	1	5
Mental and behavioural disorders due to psychoactive substance use (F10–F19)	14	5	_	_	4	_	4	1
Diseases of the circulatory system (I00–I99)	9	5	3	2	9	2	5	1
Diseases of the digestive system (K00–K93)	4	1	1	_	2	1	_	_
External causes of morbidity and mortality (V01–Y98)	141	43	33	7	32	6	17	3
Transport accidents (V01–V99)	39	14	6	_	11	1	5	_
Intentional self-harm (X60–X84)	52	11	18	3	8	1	7	2
35–44 years	223	132	62	35	58	27	34	22
Malignant neoplasms (COO-C97)	38	61	9	13	1	6	7	10
Mental and behavioural disorders due to psychoactive substance use (F10–F19)	8	1	_	_	4	_	1	1
Diseases of the circulatory system (I00–I99)	40	13	11	4	14	5	8	2
Diseases of the digestive system (K00–K93)	9	7	_	1	6	4	1	3
External causes of morbidity and mortality (V01–Y98)	93	28	33	8	21	5	11	3
Transport accidents (V01–V99)	24	11	12	3	5	1	1	1
Intentional self-harm (X60–X84)	34	7	14	3	3	2	5	_
45–54 years	396	234	111	95	57	42	66	44
Malignant neoplasms (C00-C97)	143	141	43	50	11	13	17	24
Trachea, bronchus and lung (C33, C34)	27	25	11	2	3	_	2	1
Breast (C50) Diseases of the circulatory system (I00–I99)	 107	50 32	_ 29	18 9	_ 19	11 10	 21	5 6
Ischaemic heart diseases (120–125)	76	32 12	29 19	5	16	5	16	2
Cerebrovascular diseases (160–169)	13	8	4	1	1	3	1	2
Diseases of the respiratory system (J00–J99)	9	7	1	5	4	1	1	1
Disease of the digestive system (K00–K93)	19	8	5	4	3	5	8	_
External causes of morbidity and mortality (V01–Y98)	67 17	16	23	12	8	5	12 —	9
Transport accidents (V01–V99) Intentional self-harm (X60–X84)	17 24	4 10	3 14	1 1	3	2 1	 5	1 6
		10		-	•	-	0	0

	NSW		VIC		QLD		SA	
Cause of death and ICD code	Males	Females	Males	Females	Males	Females	Males I	emales
•••••	• • • • • •	• • • • •	• • • • •	• • • • • •	• • • • •	• • • • • •	• • • • •	• • • •
55–64 years	2 590	1 496	1 706	950	1 428	749	534	349
Malignant neoplasms (C00–C97)	1 089	801	752	529	651	403	228	176
Digestive organs (C15–C26)	351	185	274	146	194	96	72	41
Trachea, bronchus and lung (C33, C34)	280	139	195	73	188	78	51	26
Breast (C50)	2	192		125	_	84	2	42
Diseases of the circulatory system (I00–I99)	859	332	512	193	434	167	178	77
Ischaemic heart diseases (I20–I25 Cerebrovascular diseases (I60–I69	623 116	182 75	361 62	104 40	310 63	95 41	119 25	29 22
Diseases of the respiratory system (J00–J99)	148	107	70	46	71	41	25 26	22 28
Diseases of the digestive system (K00–K93)	107	39	69	29	45	21	22	28 8
External causes of morbidity and mortality (V01–Y98)	151	53	102	39	91	31	32	10
65–74 years	<b>5 768</b>	3 344	3 877	2 326	2 872	1 647	1 376	795
Malignant neoplasms (C00–C97)	2 176 611	1 300 368	1 585	1 052 306	1 132 304	666	564	321 94
Digestive organs (C15–C26) Trachea, bronchus and lung (C33, C34)	610	368 243	543 398	202	304 346	173 129	166 158	94 61
Breast (C50)	610	150	390	202 151	340 —	88	136	40
Female genital organs (C51–C58)		112		93		62		28
Male genital organs (C60–C63)	217		170		108		61	
Endocrine, nutritional and metabolic diseases (E00–E90)	170	121	170	108	86	59	55	47
Diseases of the circulatory system (I00–I99)	2 173	1 106	1 315	670	1 023	542	495	263
Ischaemic heart diseases (I20–I25)	1 410	599	839	372	695	316	337	135
Cerebrovascular diseases (I60–I69)	351	268	226	169	166	116	79	67
Diseases of the respiratory system (J00–J99)	482	294	336	164	277	128	103	51
Chronic lower respiratory diseases (J40–J47)	364	245	262	139	224	103	83	43
Diseases of the digestive system (K00–K93)	189	115	108	68	91	56	35	30
75-84 years	7 508	6 806	5 188	4 938	3 658	3 278	1 979	1 735
Malignant neoplasms (C00-C97)	2 143	1 527	1 543	1 225	1 031	737	573	411
Digestive organs (C15–C26)	544	492	400	397	274	237	151	132
Trachea, bronchus and lung (C33, C34)	480	220	363	182	210	95	136	57
Breast (C50)	_	173	3	149	_	78	1	44
Female genital organs (C51–C58)		113		104		71		38
Male genital organs (C60–C63)	398		306		201		112	
Prostate (C61)	394		302		201		111	
Diabetes mellitus (E10–E14)	142	134	174	186	79	97	53	38
Mental and behavioural disorders (F00–F99)	97	119	78 160	118	47	68	23	39
Diseases of the nervous system (G00–G99) Diseases of the circulatory system (I00–I99)	212 3 313	247 3 357	160 2 135	164 2 194	94 1 671	119 1 586	36 887	33 808
Ischaemic heart diseases (I20–I25)	1 870	1 630	1 251	1 079	1 023	876	523	417
Acute myocardial infarction (I21)	1 035	975	726	657	590	517	302	282
Cerebrovascular diseases (160–169)	719	934	454	624	347	399	185	218
Diseases of arteries, arterioles and capillaries (I70–I79)	240	186	131	110	99	86	57	34
Diseases of the respiratory system (J00–J99)	737	537	523	379	359	231	213	186
Chronic lower respiratory diseases (J40–J47)	504	354	384	252	268	147	108	86
Diseases of the digestive system (K00–K93)	210	220	139	185	92	109	54	54

WA...... TAS...... NT...... ACT...... Cause of death and ICD code Males Females Males Females Males Females Males Females 55-64 years Malignant neoplasms (C00-C97) Digestive organs (C15–C26) Trachea, bronchus and lung (C33, C34) Breast (C50) Diseases of the circulatory system (I00–I99) Ischaemic heart diseases (I20-I25) Cerebrovascular diseases (I60-I69) Diseases of the respiratory system (J00–J99) Diseases of the digestive system (K00–K93) External causes of morbidity and mortality (V01–Y98) 1 300 65-74 years Malignant neoplasms (C00-C97) Digestive organs (C15–C26) Trachea, bronchus and lung (C33, C34) Breast (C50) Female genital organs (C51–C58) Male genital organs (C60-C63) Endocrine, nutritional and metabolic diseases (E00–E90) Diseases of the circulatory system (I00–I99) Ischaemic heart diseases (I20-I25) Cerebrovascular diseases (I60-I69) Diseases of the respiratory system (J00–J99) Chronic lower respiratory diseases (J40–J47) Diseases of the digestive system (K00-K93) 75-84 years 1 734 1 516 Malignant neoplasms (C00-C97) Digestive organs (C15–C26) Trachea, bronchus and lung (C33, C34) Breast (C50) Female genital organs (C51–C58) Male genital organs (C60-C63) . . . . . . Prostate (C61) Diabetes mellitus (E10-E14) Mental and behavioural disorders (F00–F99) Diseases of the nervous system (G00–G99) Diseases of the circulatory system (I00–I99) Ischaemic heart diseases (I20-I25) Acute myocardial infarction (I21) Cerebrovascular diseases (I60-I69) Diseases of arteries, arterioles and capillaries (I70–I79) Diseases of the respiratory system (J00–J99) Chronic lower respiratory diseases (J40–J47) Diseases of the digestive system (K00-K93) 

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	NSW.		VIC		QLD		SA	
Cause of death and ICD code	Males	Females	Males	Females	Males	Females	Males	Females
	• • • • • •	• • • • •		• • • • •	• • • • •	• • • • •	• • • • •	
85 years and over	4 186	7 847	3 138	5 868	2 138	3 875	1 129	2 125
Malignant neoplasms (C00–C97)	738	801	589	667	397	409	212	246
Digestive organs (C15–C26)	197	272	144	242	102	134	51	97
Female genital organs (C51–C58)		62		49		19		13
Male genital organs (C60–C63)	172		158		113		57	
Diabetes mellitus (E10–E14)	62	123	82	153	41	78	16	48
Mental and behavioural disorders (F00–F99)	113	286	109	285	70	140	28	96
Diseases of the circulatory system (I00–I99)	2 174	4 765	1 483	3 242	1 074	2 307	547	1 183
Ischaemic heart diseases (I20–I25)	1 064	2 092	784	1 473	599	1 114	276	549
Cerebrovascular diseases (I60–I69)	571	1 422	337	905	265	691	138	356
Diseases of arteries, arterioles and capillaries (I70–I79)	136	232	91	179	58	132	38	50
Diseases of the respiratory system (J00–J99)	375	527	334	414	216	261	150	219
Chronic lower respiratory diseases (J40–J47)	223	221	189	150	125	111	52	47
Diseases of the digestive system (K00–K93)	122	270	89	212	66	145	38	82
Diseases of the genitourinary system (N00–N99)	155	243	136	226	81	107	44	69
••• • • • •								
All ages(a) Chapter I Certain infectious and parasitic diseases (A00–B99)	<b>23 782</b> 352	<b>21 433</b> 293	<b>16 433</b> 204	<b>15 485</b> 192	<b>12 180</b> 122	<b>10 669</b> 126	<b>5 840</b> 67	<b>5 451</b> 71
Chapter II Neoplasms (C00–D48)	7 022	5 275	5 098	4 129	3 685	2 702	1 778	1 364
Malignant neoplasms (C00–C97)	6 853	5 141	4 996	4 020	3 620	2 628	1 743	1 329
Trachea, bronchus and lung (C33, C34)	1 608	735	1 126	553	878	388	405	178
Melanoma of skin (C43)	237	132	118	79	149	78	44	29
Breast (C50)	11	811	5	684	1	428	3	197
Female genital organs (C51–C58)		434		328		240		118
Male genital organs (C60–C63)	843		693		454		250	
Chapter III Diseases of the blood and blood-forming organs and	0.10		000	• •	10 1	• • •	200	
certain disorders involving the immune mechanism (D50–D89)	78	100	55	58	29	44	19	26
Chapter IV Endocrine, nutritional and metabolic diseases (E00–E90)	577	615	652	633	341	359	188	211
Diabetes mellitus (E10–E14)	418	398	499	476	249	258	140	130
Chapter V Mental and behavioural disorders (F00–F99)	515	504	276	458	175	231	112	167
Chapter VI Diseases of the nervous system (G00–G99)	641	735	480	542	300	382	123	116
Chapter VII Diseases of the eye and adnexa (H00–H59)	_	1	_	1	_	2		
Chapter VIII Diseases of the ear and mastoid process (H60–H95)	_	2	_	_	_	4	_	_
Chapter IX Diseases of the circulatory system (I00–I99)	9 137	9 764	5 783	6 423	4 561	4 740	2 240	2 380
All heart disease (105–109, 111, 113, 120–125, 126,								
127, 130–152)	6 616	6 322	4 232	4 192	3 372	3 116	1 633	1 556
Ischaemic heart diseases (I20–I25)	5 379	4 569	3 450	3 070	2 866	2 449	1 344	1 154
Acute myocardial infarction (I21)	2 836	2 528	1 867	1 726	1 628	1 370	737	717
Cerebrovascular diseases (160–169)	1 824	2 757	1 128	1 775	887	1 286	440	672
Chapter X Diseases of the respiratory system (J00–J99)	1 821	1 531	1 296	1 042	964	714	502	496
Influenza and pneumonia (J10–J18)	216	317	172	294	133	175	131	208
Chronic lower respiratory diseases (J40–J47)	1 245	940	909	603	697	429	267	202
Chapter XI Diseases of the digestive system (K00–K93)	775	695	490	534	377	373	190	195
Diseases of liver (K70–K77)	335	125	207	92	130	72	82	32
Chapter XII Diseases of the skin and subcutaneous tissue (L00–L99)	42	73	25	42	23	32	7	16
Chapter XIII Diseases of the musculoskeletal system and connective		70	20		20	02	•	
tissue (M00–M99)	88	175	82	159	55	107	35	50
Chapter XIV Diseases of the genitourinary system (NO0–N99)	442	547	334	432	203	250	99	133
Chapter XV Pregnancy, childbirth and the puerperium (000–099)		4		2		3		1
Chapter XVI Certain conditions originating in the perinatal				_	• • •	Ü	• • •	-
period (P00–P96)	139	99	87	70	61	46	21	11
Chapter XVII Congenital malformations, deformations and chromosomal		55	0,	. 0	01	, ,		
abnormalities (Q00–Q99)	127	102	97	79	84	64	24	23
Chapter XVIII Symptoms, signs and abnormal clinical and laboratory	121	102	31	13	04	04	24	23
findings, not elsewhere classified (R00–R99)	90	88	51	53	47	33	19	12
Chapter XX External causes of morbidity and mortality (V01–Y98)	1 936	830	1 423	636	1 153	457	416	179
Transport accidents (V01–V99)	441	192	338	134	270	457 94	114	179 50
Falls (W00–W19)								
	127 689	81 180	63 440	38 112	61 396	41 84	15 155	12 45
Intentional self-harm (X60–X84)								

(a) Including age not stated.

	WA		TAS		NT		ACT	
Cause of death and ICD code	Males	Females	Males	Females	Males F	emales	Males F	emales
		• • • • •	• • • • •				• • • • •	• • • •
85 years and over	1 048	1 872	341	626	23	24	101	201
Malignant neoplasms (C00–C97)	209	236	56	63	5	3	18	33
Digestive organs (C15–C26)	68	83	16	27	1	_	5	16
Female genital organs (C51–C58)		17		4		_		1
Male genital organs (C60–C63)	40		14		_		4	
Diabetes mellitus (E10–E14)	17	41	6	6	_	2	3	3
Mental and behavioural disorders (F00–F99)	27	81	12	20	1	1	5	10
Diseases of the circulatory system (I00–I99)	518	1 005	181	350	9	9	53	116
Ischaemic heart diseases (I20–I25)	271	474	88	158	5	5	24	48
Cerebrovascular diseases (I60–I69)	137	294	42	88	2	2	12	42
Diseases of arteries, arterioles and capillaries (I70–I79)	36	57	14	30	1	_	6	2
Diseases of the respiratory system (J00–J99)	101	146	38	54	2	1	8	10
Chronic lower respiratory diseases (J40–J47)	53	55	24	21	_	_	4	6
Diseases of the digestive system (K00–K93)	39	74	10	27	1	1	4	13
Diseases of the genitourinary system (N00–N99)	33	53	13	23	2	4	4	4
All ages(a)	5 843	5 034	1 954	1 829	509	323	682	649
Chapter I Certain infectious and parasitic diseases (A00–B99)	55	39	18	24	13	11	11	5
Chapter II Neoplasms (C00–D48)	1 835	1 359	565	470	104	72	196	202
Malignant neoplasms (C00–C97)	1 803	1 336	554	460	101	72	196	201
Trachea, bronchus and lung (C33, C34)	445	207	130	55	29	10	34	22
Melanoma of skin (C43)	59	30	12	9	5	_	7	2
Breast (C50)	1	240	_	86	_	26	1	33
Female genital organs (C51–C58)		121		34		10		15
Male genital organs (C60–C63)	203		78		4		21	
Chapter III Diseases of the blood and blood-forming organs and certain	203	• • •	10	• •	4	• •	21	
disorders involving the immune mechanism (D50–D89)	10	19	2	4	1	3	1	1
Chapter IV Endocrine, nutritional and metabolic diseases (E00–E90)	154	19 176	52	67	20	24	17	14
Diabetes mellitus (E10–E14)	116	130	35	41	20 15	18	13	11
Chapter V Mental and behavioural disorders (F00–F99)	116	138	33		15 15	5	13 14	20
Chapter VI Diseases of the nervous system (G00–G99)	192	208	33 48	29 64	13	10	14 21	20 15
								13
Chapter VII Diseases of the eye and adnexa (H00–H59)	_	1	_	_		_	_	_
Chapter VIII Diseases of the ear and mastoid process (H60–H95)	_	_	740	704	_	_	_	-
Chapter IX Diseases of the circulatory system (IOO-I99)	1 999	2 060	740	761	141	84	221	265
All heart disease (I05–I09, I11, I13, I20–I25, I26,	4 450	4 000	540	F00	440		100	404
127, 130–152)	1 459	1 323	516	500	118	55	169	164
Ischaemic heart diseases (I20–I25)	1 185	988	417	366	91	32	133	115
Acute myocardial infarction (I21)	633	525	227	178	29	14	71	66
Cerebrovascular diseases (I60–I69)	412	578	149	190	18	24	35	89
Chapter X Diseases of the respiratory system (J00–J99)	439	325	176	149	42	22	56	38
Influenza and pneumonia (J10–J18)	66	91	27	35	7	4	13	9
Chronic lower respiratory diseases (J40–J47)	302	184	126	92	27	14	36	23
Chapter XI Diseases of the digestive system (K00–K93)	184	199	45	72	20	17	30	25
Diseases of liver (K70–K77)	64	32	15	14	11	8	19	5
Chapter XII Diseases of the skin and subcutaneous tissue (L00–L99)	7	12	3	6	_	_	1	_
Chapter XIII Diseases of the musculoskeletal system and connective								
tissue (M00-M99)	24	47	12	13	2	6	2	5
Chapter XIV Diseases of the genitourinary system (N00–N99)	90	102	37	40	15	19	12	13
Chapter XV Pregnancy, childbirth and the puerperium (000–099)		_		_		1		_
Chapter XVI Certain conditions originating in the perinatal								
period (P00–P96)	32	21	16	8	13	4	8	5
Chapter XVII Congenital malformations, deformations and chromosomal	20	0.7	0	10	0	0	0	7
abnormalities (Q00–Q99)  Chapter W/III Symptoms, signs, and abnormal alinical and laboratory	36	27	8	12	8	9	8	7
Chapter XVIII Symptoms, signs and abnormal clinical and laboratory			~-		_	_		-
findings, not elsewhere classified (R00–R99)	80	53	27	26	6	8	4	3
Chapter XX External causes of morbidity and mortality (V01–Y98)	590	248	172	84	96	28	80	31
Transport accidents (V01–V99)	177	63	56	22	31	8	13	7
Falls (W00–W19)	25	29	6	9	2	_	9	1
Intentional self-harm (X60–X84)	192	44	68	10	27	5	35	10

(a) Including age not stated.

# 1.7 UNDERLYING CAUSE, Standardised Death Rates(a)

	• • • • • • • • • • • • •	• • • • • • • • • •		• • • • •
Cause of death and ICD code	NSW	Vic.	Qld	SA
1989	• • • • • • • • • • • • •	• • • • • • • • •	• • • • • • • •	• • • • •
All causes	776.0	749.0	767.5	740.1
Malignant neoplasms (C00–C97)	181.5	189.6	179.8	178.1
Trachea, bronchus and lung (C33, C34)	38.0	38.4	36.5	33.7
Diabetes mellitus (E10–E14)	10.5	18.0	11.3	12.4
Mental and behavioural disorders (F00–F99)	13.0	16.1	12.0	9.9
Diseases of the nervous system (G00–G99)	14.1	15.9	13.8	11.2
Diseases of the circulatory system (IOO–I99)	367.4	330.5	354.0	351.8
Ischaemic heart disease (I20–I25)	205.0	188.5	212.2	205.9
Acute myocardial infarction (I21)	137.4	120.5	145.4	146.4
Cerebrovascular diseases (160–169)	87.4	69.7	74.2	75.5
Diseases of arteries, arterioles and capillaries (I70–I79)	19.8	19.8	18.9	21.7
Diseases of the respiratory system (J00–J99)	65.8	62.1	67.1	66.7
Influenza and pneumonia (J40–J47)	12.3	11.9	13.9	23.7
Chronic lower respiratory diseases (J40–J47)	45.9	43.5	46.1	37.2
Diseases of the digestive system (K00–K93)	25.0	25.9	27.8	25.0
Accidents (V01–X59)	33.9	34.4	34.5	29.7
Transport accidents (V01–V99)	18.1	21.3	17.5	17.1
Intentional self-harm (X60–X84)	11.8	11.5	14.8	14.1
1999	• • • • • • • • • • • • •	• • • • • • • • •	• • • • • • • • •	• • • • •
All causes	591.5	565.4	598.0	563.3
Malignant neoplasms (C00–C97)	162.4	166.2	168.7	160.9
Trachea, bronchus and lung (C33, C34)	32.2	31.4	35.1	30.8
Diabetes mellitus (E10–E14)	10.7	17.4	13.3	13.3
Mental and behavioural disorders (F00–F99)	13.4	12.0	10.0	13.8
Diseases of the nervous system (G00–G99)	17.7	17.8	17.6	12.5
Diseases of the circulatory system (I00–I99)	236.5	206.2	236.1	216.5
Ischaemic heart disease (I20–I25)	126.3	111.6	136.4	118.9
Acute myocardial infarction (I21)	68.3	61.5	77.3	68.7
Cerebrovascular diseases (I60–I69)	56.1	48.3	54.0	50.5
Diseases of arteries, arterioles and capillaries (I70–I79)	13.4	11.4	13.0	11.2
Diseases of the respiratory system (J00–J99)	43.1	40.3	43.8	46.7
Influenza and pneumonia (J40–J47)	6.4	7.3	7.5	14.6
Chronic lower respiratory diseases (J40–J47)	28.6	26.9	29.9	23.4
Diseases of the digestive system (K00–K93)	19.2	17.9	19.3	19.1
Accidents (V01–X59)	25.2	27.8	27.1	22.0
Transport accidents (V01–V99)	9.9	10.0	10.6	11.2
Intentional self-harm (X60–X84)	13.4	11.5	13.6	13.3

<sup>(</sup>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	) continued
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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 (C00–C97)	182.5	190.1	183.4	146.2
Trachea, bronchus and lung (C33,C34)	39.9	41.5	42.6	31.9
Diabetes mellitus (E10–E14)	11.2	11.1	27.3	8.5
Mental and behavioural disorders (F00–F99)	11.3	15.5	29.1	6.3
Diseases of the nervous system (G00–G99)	18.7	11.8	15.4	7.5
Diseases of the circulatory system (I00–I99)	308.1	383.8	357.0	290.8
Ischaemic heart disease (I20-I25)	181.1	214.7	197.9	166.8
Acute myocardial infarction (I21)	123.3	149.3	101.7	102.8
Cerebrovascular diseases (I60–I69)	70.7	81.7	57.6	57.1
Diseases of arteries, arterioles and capillaries (I70–I79)	16.2	27.5	11.1	20.1
Diseases of the respiratory system (J00–J99)	57.7	69.4	194.3	69.6
Influenza and pneumonia (J40–J47)	15.6	21.5	33.4	15.5
Chronic lower respiratory diseases (J40–J47)	36.4	45.5	119.5	41.2
Diseases of the digestive system (K00–K93)	25.3	27.8	45.6	30.7
Accidents (V01–X59)	28.6	38.8	66.8	23.3
Transport accidents (V01–V99)	16.4	19.8	37.7	11.6
Intentional self-harm (X60–X84)	12.0	13.2	23.1	13.4
1999		• • • • • • • • •	• • • • • • • • • •	• • • • •
All causes	570.9	647.7	873.8	535.9
Malignant neoplasms (C00–C97)	169.3	180.0	208.9	159.8
Trachea, bronchus and lung (C33, C34)	36.0	33.2	52.8	23.3
Diabetes mellitus (E10–E14)	13.1	12.9	38.5	9.9
Mental and behavioural disorders (F00–F99)	12.8	9.4	15.8	13.8
Diseases of the nervous system (G00–G99)	20.5	19.1	25.2	14.4
Diseases of the circulatory system (I00–I99)	208.6	243.2	285.2	202.8
Ischaemic heart disease (I20–I25)	112.7	128.3	141.6	102.6
Acute myocardial infarction (I21)	60.3	67.6	53.9	56.7
Cerebrovascular diseases (I60–I69)	50.1	54.2	65.0	52.6
Diseases of arteries, arterioles and capillaries (I70–I79)	11.6	17.7	10.2	10.9
Diseases of the respiratory system (J00–J99)	40.0	53.9	79.7	40.0
Influenza and pneumonia (J40–J47)	7.6	9.5	10.7	8.6
Chronic lower respiratory diseases (J40–J47)	26.2	36.8	52.3	25.8
Diseases of the digestive system (K00–K93)	19.9	19.5	34.2	21.8
Accidents (V01–X59)	29.4	32.6	38.3	21.7
Transport accidents (V01–V99)	13.2	17.0	18.1	6.7
Intentional self-harm (X60–X84)	12.6	16.9	15.2	13.8

<sup>(</sup>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 Usual Residence(a)

	• • • • • •	• • • • • •	• • • • • •	• • • • • • •	• • • • • •	• • • • • •		
	INDIG	ENOUS			NON-I	NDIGENO	OUS(b)	
	Proportion				Proportion of total			
	Males	Females	Persons	of total deaths	Males	Females	Persons	deaths
Cause of death and ICD code	no.	no.	no.	%	no.	no.	no.	%
• • • • • • • • • • • • • • • • • • • •				• • • • • • •	• • • • • •	• • • • • •	• • • • • •	
	NEW SC	OUTH WAL	.ES					
All causes	257	178	435	100.0	23 525	21 255	44 780	100.0
Malignant neoplasms (C00–C97) Digestive organs (C15–C26)	37 10	32 2	69 12	15.9 2.8	6 816 1 877	5 109 1 432	11 925 3 309	26.6 7.4
Trachea, bronchus and lung (C33, C34)	10 7	10	12 17	2.8 3.9	1 601	725	2 326	7.4 5.2
Diabetes mellitus (E10–E14)	8	10	18	4.1	410	388	798	1.8
Mental and behavioural disorders (F00–F99)	14	1	15	3.4	501	503	1 004	2.2
Diseases of the circulatory system (I00–I99)	90	54	144	33.1	9 047	9 710	18 757	41.9
Ischaemic heart diseases (I20-I25)	57	32	89	20.5	5 322	4 537	9 859	22.0
Cerebrovascular diseases (I60–I69)	14	7	21	4.8	1 810	2 750	4 560	10.2
Diseases of the respiratory system (J00–J99)	21	17	38	8.7	1 800	1 514	3 314	7.4
Chronic lower respiratory diseases (J40–J47)	16	11	27	6.2	1 229	929	2 158	4.8
Diseases of the digestive system (K00–K93) Diseases of the liver (K70–K77)	15 12	<i>4</i> 2	19 14	4.4 3.2	760 323	691 123	1 451 446	3.2 1.0
Certain conditions originating in the perinatal	12	2	14	3.2	323	123	440	1.0
period (P00–P96)	8	11	19	4.4	131	88	219	0.5
Congenital malformations, deformations and								
chromosomal abnormalities (Q00-Q99)	3	9	12	2.8	124	93	217	0.5
All other medical conditions (remainder of (A00–R99)	16	18	34	7.8	2 045	2 351	4 396	9.8
External causes of morbidity and mortality (V01–Y98)	45	22	67	15.4	1 891	808	2 699	6.0
Transport accidents (V01–V99)	16	2	18	4.1	425	190	615	1.4
Intentional self-harm (X60–X84)	6 8	1 4	7	1.6	683	179	862	1.9
Assault (X85–Y09) Other external causes (remainder of V01–Y98)	15	15	12 30	2.8 6.9	70 713	28 411	98 1 124	0.2 2.5
	VI	CTORIA						
All causes	80	50	130	100.0	16 353	15 435	31 788	100.0
Malignant neoplasms (C00–C97)	12	11	23	17.7	4 984	4 009	8 993	28.3
Digestive organs (C15–C26)	4	3	7	5.4	1 505	1 183	2 688	8.5
Trachea, bronchus and lung (C33, C34) Diabetes mellitus (E10–E14)	5 3	4 1	9 4	6.9 3.1	1 121 <i>4</i> 96	549 <i>47</i> 5	1 670 971	5.3 3.1
Mental and behavioural disorders (F00–F99)	2	2	4	3.1	274	456	730	2.3
Diseases of the circulatory system (I00–I99)	22	17	39	30.0	5 761	6 406	12 167	38.3
Ischaemic heart diseases (I20–I25)	15	8	23	17.7	3 435	3 062	6 497	20.4
Cerebrovascular diseases (I60–I69)	4	5	9	6.9	1 124	1 770	2 894	9.1
Diseases of the respiratory system (J00–J99)	2	4	6	4.6	1 294	1 038	2 332	7.3
Chronic lower respiratory diseases (J40–J47)	2	4	6	4.6	907	599	1 506	4.7
Diseases of the digestive system (K00–K93) Diseases of the liver (K70–K77)	4 2	1 1	5 3	3.8 2.3	486 205	533 91	1 019 296	3.2 0.9
Certain conditions originating in the perinatal period (P00–P96)	2	1	3	2.3	85	69	154	0.5
Congenital malformations, deformations and	2	4	4	2.4	0.4	70	470	0.5
chromosomal abnormalities (Q00–Q99)	3 6	1 8	4	3.1 10.8	94 1 490	78 1 720	172 2 210	0.5 10.1
All other medical conditions (remainder of (A00–R99) External causes of morbidity and mortality (V01–Y98)	24	8 4	14 28	21.5	1 480 1 399	1 739 632	3 219 2 031	10.1 6.4
Transport accidents (V01–V99)	24 5	1	20 6	4.6	333	133	2 031 466	1.5
Intentional self-harm (X60–X84)	4	_	4	3.1	436	112	548	1.7
Assault (X85–Y09)	_	1	1	0.8	41	22	63	0.2
Other external causes (remainder of V01–Y98)	15	2	17	13.1	589	365	954	3.0

<sup>(</sup>a) Coverage varies for States and Territories Indigenous death registration data. (b) Includes not stated. See Appendix 6, page 86 for further explanation.

ABS • CAUSES OF DEATH • 3303.0 • 1999 33

1.8 UNDERLYING CAUSE, Indigenous People and Usual Residence(a) continued

	• • • • • • •	• • • • • •	• • • • • •	• • • • • •	• • • • • • •	• • • • • •	• • • • • •	• • • • •
	INDIG	ENOUS			NON-	INDIGEN	OUS(b)	
	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.	%
••••••			• • • • • •	• • • • • •	• • • • • • •		• • • • • •	
	QUEE	ENSLAND						
All causes	305	224	529	100.0	11 875	10 445	22 320	100.0
Malignant neoplasms (C00-C97)	53	39	92	17.4	3 567	2 589	6 156	27.6
Digestive organs (C15–C26)	14	4	18	3.4	955	693	1 648	7.4
Trachea, bronchus and lung (C33, C34)	24	10	34	6.4	854	378	1 232	5.5
Diabetes mellitus (E10–E14)	24	22	46	8.7	225	236	461	2.1
Mental and behavioural disorders (F00–F99) Diseases of the circulatory system (I00–I99)	3 87	— 82	3 169	0.6 31.9	172 4 474	231 4 658	403 9 132	1.8 40.9
Ischaemic heart diseases (I20–I25)	57	38	95	18.0	2 809	2 411	5 220	23.4
Cerebrovascular diseases (160–169)	14	22	36	6.8	873	1 264	2 137	9.6
Diseases of the respiratory system (J00–J99)	16	17	33	6.2	948	697	1 645	7.4
Chronic lower respiratory diseases (J40–J47)	9	14	23	4.3	688	415	1 103	4.9
Diseases of the digestive system (K00–K93)	17	14	31	5.9	360	359	719	3.2
Diseases of the liver (K70–K77)	10	10	20	3.8	120	62	182	0.8
Certain conditions originating in the perinatal								
period (P00–P96)	12	1	13	2.5	49	45	94	0.4
Congenital malformations, deformations and								
chromosomal abnormalities (Q00–Q99)	10	2	12	2.3	74	62	136	0.6
All other medical conditions (remainder of (A00–R99)	27	28	55	10.4	909	1 130	2 039	9.1
External causes of morbidity and mortality (V01–Y98)	56	19	75 42	14.2	1 097	438	1 535	6.9
Transport accidents (VO1–V99)	9	4	13	2.5	261	90	351	1.6
Intentional self-harm (X60–X84) Assault (X85–Y09)	22 4	2 5	24 9	4.5 1.7	374 29	82 14	456 43	2.0 0.2
Other external causes (remainder of V01–Y98)	21	8	29	5.5	433	252	685	3.1
	SOUTH	AUSTRAL	IA					
All causes	62	54	116	100.0	5 778	5 397	11 175	100.0
Malignant neoplasms (C00–C97)	6	7	13	11.2	1 737	1 322	3 059	27.4
Digestive organs (C15–C26)	2	1	3	2.6	483	397	880	7.9
Trachea, bronchus and lung (C33, C34)	_	3	3	2.6	405	175	580	5.2
Diabetes mellitus (E10–E14)  Mental and behavioural disorders (F00–F99)	6 3	2 2	8 5	6.9 <i>4.</i> 3	134 109	128 165	262 274	2.3 2.5
Diseases of the circulatory system (I00–I99)	20	16	36	31.0	2 220	2 364	4 584	41.0
Ischaemic heart diseases (I20–I25)	16	8	24	20.7	1 328	1 146	2 474	22.1
Cerebrovascular diseases (I60–I69)	2	3	5	4.3	438	669	1 107	9.9
Diseases of the respiratory system (J00–J99)	4	6	10	8.6	498	490	988	8.8
Chronic lower respiratory diseases (J40–J47)	2	2	4	3.4	265	200	465	4.2
Diseases of the digestive system (K00–K93)	3	2	5	4.3	187	193	380	3.4
Diseases of the liver (K70–K77)	2	2	4	3.4	80	30	110	1.0
Certain conditions originating in the perinatal period (P00–P96)		1	1	0.9	21	10	31	0.3
Congenital malformations, deformations and		1	1	0.3	21	10	31	0.5
chromosomal abnormalities (Q00–Q99)	_	1	1	0.9	24	22	46	0.4
All other medical conditions (remainder of (A00–R99)	5	11	16	13.8	447	530	977	8.7
External causes of morbidity and mortality (V01–Y98)	15	6	21	18.1	401	173	574	5.1
Transport accidents (V01–V99)	4	2	6	5.2	110	48	158	1.4
Intentional self-harm (X60–X84)	2	_	2	1.7	153	45	198	1.8
Assault (X85–Y09)	_	1	1	0.9	23	5	28	0.3
Other external causes (remainder of V01–Y98)	9	3	12	10.3	115	75	190	1.7

<sup>(</sup>a) Coverage varies for States and Territories Indigenous death registration data. (b) Includes not stated. See Appendix 6, page 86 for further explanation.

#### 1.8 UNDERLYING CAUSE, Indigenous People and Usual Residence(a) continued

	INDIG	ENOUS			NON-	INDIGEN	IOUS(b)	
			ı	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	N AUCTO		• • • • • • •	• • • • • •	• • • • • •	• • • • • •	
	WESTER	N AUSTR	ALIA					
All causes	208	142	350	100.0	5 635	4 892	10 527	100.0
Malignant neoplasms (C00–C97) Digestive organs (C15–C26)	22	13	35	10.0	1 781	1 323	3 104	29.5
Trachea, bronchus and lung (C33, C34)	6 5	6 3	12 8	3.4 2.3	497 440	380 204	877 644	8.3 6.1
Diabetes mellitus (E10–E14)	12	19	31	8.9	104	111	215	2.0
Mental and behavioural disorders (F00–F99)	10	3	13	3.7	106	135	241	2.3
Diseases of the circulatory system (I00–I99)	57	41	98	28.0	1 942	2 019	3 961	37.6
Ischaemic heart diseases (I20-I25)	29	20	49	14.0	1 156	968	2 124	20.2
Cerebrovascular diseases (I60–I69)	14	7	21	6.0	398	571	969	9.2
Diseases of the respiratory system (J00–J99)	14	8	22	6.3	425	317	742	7.0
Chronic lower respiratory diseases (J40–J47)	11	6	17	4.9	291	178	469	4.5
Diseases of the digestive system (K00–K93) Diseases of the liver (K70–K77)	10 8	7 4	17 12	<i>4.</i> 9 3.4	174 56	192 28	366 84	3.5 0.8
Certain conditions originating in the perinatal	0	4	12	3.4	30	20	04	0.6
period (P00–P96)	7	10	17	4.9	25	11	36	0.3
Congenital malformations, deformations and								
chromosomal abnormalities (Q00-Q99)	2	5	7	2.0	34	22	56	0.5
All other medical conditions (remainder of (A00–R99)	30	19	49	14.0	498	531	1 029	9.8
External causes of morbidity and mortality (V01–Y98)	44	17	61	17.4	546	231	777	7.4
Transport accidents (V01–V99)	16	11	27	7.7	161	52	213	2.0
Intentional self-harm (X60–X84)	11 3	1 1	12 4	3.4 1.1	181 15	43 7	224 22	2.1 0.2
Assault (X85–Y09) Other external causes (remainder of V01–Y98)	3 14	4	18	5.1	189	129	318	3.0
	NORTHER	RN TERRI	ΓORY					
All causes	221	178	399	100.0	288	145	433	100.0
Malignant neoplasms (C00–C97)	21	25	46	11.5	80	47	127	29.3
Digestive organs (C15–C26)	11	1	12	3.0	18	11	29	6.7
Trachea, bronchus and lung (C33, C34) Diabetes mellitus (E10–E14)	5 8	3 13	8 21	2.0 5.3	24 7	7 5	31 <i>12</i>	7.2 2.8
Mental and behavioural disorders (F00–F99)	6	3	9	2.3	9	2	11	2.5
Diseases of the circulatory system (I00–I99)	65	48	113	28.3	76	36	112	25.9
Ischaemic heart diseases (I20–I25)	38	20	58	14.5	53	12	65	15.0
Cerebrovascular diseases (I60–I69)	11	8	19	4.8	7	16	23	5.3
Diseases of the respiratory system (J00–J99)	24	15	39	9.8	18	7	25	5.8
Chronic lower respiratory diseases (J40–J47)	14	7	21	5.3	13	7	20	4.6
Diseases of the digestive system (K00–K93)	9	10	19	4.8	11	7	18	4.2
Diseases of the liver (K70–K77)	6	6	12	3.0	5	2	7	1.6
Certain conditions originating in the perinatal period (P00–P96)	10	2	12	3.0	3	2	5	1.2
Congenital malformations, deformations and	10	_	12	5.0	5	~	3	1.2
chromosomal abnormalities (Q00–Q99)	4	4	8	2.0	4	5	9	2.1
All other medical conditions (remainder of (A00–R99)	36	40	76	19.0	22	24	46	10.6
External causes of morbidity and mortality (V01–Y98)	38	18	56	14.0	58	10	68	15.7
Transport accidents (V01–V99)	8	3	11	2.8	23	5	28	6.5
Intentional self-harm (X60–X84)	13	3	16	4.0	14	2	16	3.7
Assault (X85–Y09) Other external causes (remainder of V01–Y98)	4 13	2 10	6 23	1.5 5.8	4 17	2 1	6 18	1.4 4.2
orner evremai canses (remainder of AOT-130)	13	10	23	5.0	Τ1	Т	10	4.2

<sup>(</sup>a) Coverage varies for States and Territories Indigenous death registration data. (b) Includes not stated. See Appendix 6, page 86 for further explanation.

# SECTION 2

#### MULTIPLE CAUSE OF DEATH .....

#### INTRODUCTION

Multiple causes of death include all causes and conditions reported on the death certificate (i.e. both underlying and associated causes, see glossary page 90 for further details). Deaths due to external causes are those which occur as a result of accidents, poisonings and/or violence. They are classified according to the event, such as accidental fall, leading to the fatal injury. Multiple cause data for external causes include the nature of injury or poisoning, as well as any other conditions reported on the death certificate.

The introduction of ICD-10 will lead to some differences when comparing certain causes of death in 1999 to previous years. (See Appendix 5 for details on the comparability between ICD-9 and ICD-10).

#### NUMBERS OF CAUSES

For the 128,102 deaths registered in 1999, there were 357,144 causes reported (including 12,881 injuries) giving a mean 2.8 causes per death. Twenty percent of deaths were reported with only one condition.

The average number of causes reported per death varies with age, sex and underlying cause of death. For example, in 1999, males aged 45–54 years averaged 2.5 causes per death, while females aged 25–34 years recorded 3.0 causes per death. Deaths as a result of external causes recorded 3.4 causes (including injuries) per death in 1999, with deaths as a result of accidental falls averaging 4.3 causes, reflecting the number of injuries sustained.

#### LEADING MULTIPLE CAUSES

The following table lists the ten leading multiple causes of death (underlying and associated causes) appearing on death certificates for deaths registered in 1999, and their corresponding ranking in terms of underlying causes.

#### LEADING MULTIPLE CAUSES OF DEATH

	Multiple ca	ause(a)	Underlying cause			
Cause of death and ICD code	no.	%	rank	%	rank	
	• • • • • • • •	• • • • • •	• • • • •	• • • • • • • •	• • •	
Malignant neoplasms (COO-C97)	39 417	30.8	1	27.4	1	
Ischaemic heart diseases (I20–I25)	37 966	29.6	2	21.6	2	
Cerebrovascular diseases (I60–I69)	20 027	15.6	3	9.6	3	
Influenza and pneumonia (J10–J18)	17 723	13.8	4	1.5	10	
Chronic lower respiratory diseases (J40–J47)	13 913	10.9	5	4.8	4	
Renal failure (N17–N19)	11 032	8.6	6	1.4	11	
Diabetes mellitus (E10–E14)	9 588	7.5	7	2.3	6	
Organic, including symptomatic, mental						
disorders (F00–F09)	8 573	6.7	8	1.5	9	
Diseases of arteries, arterioles and						
capillaries (I70-I79)	8 543	6.7	9	2.2	7	
Accidents (V01–X59)	7 827	6.1	10	4.1	5	
Deaths from all causes	128 102	100.0		100.0		

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

### LEADING MULTIPLE CAUSES continued

The leading multiple causes of death are generally consistent with the leading underlying causes of death. In particular, the closeness of the percentages for malignant neoplasms indicate that neoplasms are very likely to be identified as the underlying cause whenever they are reported on the death certificate. This is less likely for heart disease, and the remaining causes present quite a different pattern. For example, although influenza and pneumonia are reported on almost 14% of death records, they are identified as the underlying cause for only 1.5% of deaths.

#### EXTERNAL CAUSES OF DEATH

In 1999, there were 8,361 deaths due to external causes. For these deaths, 28,396 multiple causes were reported, including 12,881 injuries. The average of 3.4 causes per death is consistent with data from recent years.

In 1999, transport accidents and intentional self-harm accounted for over 50% of all injuries reported for deaths due to external causes. Transport accidents were the largest source accounting for 27% of the total number of injuries, with almost 30% of these being injuries to the head. Intentional self-harm accounted for 25% of total injuries recorded in 1999, of these asphyxiation was the most common (32%).

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

			NUMB	ER OF CA	USES PEI	R DEATH			
	Mean conditions per death	Total deaths	Total	1	2	3	4	5	6 or more
Age group (years)	no.	no.	%	%	%	%	%	%	%
• • • • • • • • • • •	• • • • • • • • •	• • • • • • • • •		ALES		• • • • • •	• • • • • • •		• • • • •
			IVI	ALES					
All ages(a)	2.8	67 227	100.0	19.9	27.8	24.0	14.6	7.7	6.0
Under 1	2.8	812	100.0	24.8	24.5	22.3	12.8	9.2	6.4
1–14	2.6	371	100.0	17.3	41.8	22.6	10.0	5.1	3.2
15–24	2.8	1 388	100.0	8.4	48.1	21.0	10.1	6.0	6.4
25–34	3.0	2 003	100.0	10.0	42.9	18.8	11.5	7.2	9.6
35–44	2.8	2 368	100.0	20.4	36.7	17.8	10.5	6.5	8.0
45–54	2.5	4 050	100.0	27.9	31.2	18.9	11.4	5.6	5.1
55–64	2.6	7 268	100.0	28.9	27.3	21.2	12.0	5.9	4.7
65–74	2.8	15 878	100.0	22.8	25.9	23.0	14.5	7.8	6.0
75–84	3.0	20 976	100.0	17.4	25.4	26.3	16.1	8.7	6.2
85 and over	3.0	12 104	100.0	15.0	26.8	27.2	16.8	8.4	5.8
• • • • • • • • • • •	• • • • • • • • • •	• • • • • • • • • •	• • • • • • • •	• • • • • •	• • • • • •	• • • • • •	• • • • • • •		• • • • •
			FEN	MALES					
All ages(a)	2.8	60 875	100.0	20.6	27.9	24.5	14.4	7.3	5.4
Under 1	2.6	596	100.0	24.3	27.2	25.8	12.8	5.9	4.0
1–14	2.4	290	100.0	19.3	43.4	21.7	9.0	4.1	2.4
15–24	3.0	484	100.0	13.6	34.5	24.0	12.2	7.9	7.9
25–34	3.0	721	100.0	17.1	32.7	19.8	12.5	7.1	10.8
35–44	2.6	1 318	100.0	29.4	27.3	18.6	11.4	6.4	6.9
45–54	2.4	2 475	100.0	35.4	26.9	17.0	10.1	5.5	5.2
55–64	2.5	4 104	100.0	32.3	26.4	18.7	11.8	6.3	4.5
65–74	2.7	9 319	100.0	25.0	25.4	22.6	13.5	7.6	5.9
75–84	2.9	19 128	100.0	19.1	27.0	25.0	15.7	7.6	5.6
85 and over	2.9	22 438	100.0	15.9	29.7	27.2	15.0	7.4	4.8
• • • • • • • • • •	• • • • • • • • •	• • • • • • • • • •			• • • • • •	• • • • • •	• • • • • • •		• • • • •
			PEF	RSONS					
All ages(a)	2.8	128 102	100.0	20.2	27.8	24.2	14.5	7.5	5.7
Under 1	2.7	1 408	100.0	24.6	25.6	23.8	12.8	7.8	5.4
1–14	2.5	661	100.0	18.2	42.5	22.2	9.5	4.7	2.9
15–24	2.9	1 872	100.0	9.7	44.6	21.8	10.6	6.5	6.8
25–34	3.0	2 724	100.0	11.9	40.2	19.1	11.8	7.2	9.9
35-44	2.7	3 686	100.0	23.7	33.3	18.1	10.8	6.5	7.6
45-54	2.5	6 525	100.0	30.7	29.5	18.2	10.9	5.5	5.1
55-64	2.5	11 372	100.0	30.1	27.0	20.3	11.9	6.1	4.6
65-74	2.8	25 197	100.0	23.6	25.7	22.9	14.1	7.7	5.9
				400			4= 0	- 4	5.9
75–84	2.9	40 104	100.0	18.2	26.1	25.7	15.9	8.1	5.9

<sup>(</sup>a) Including age not stated.

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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				
onderlying cause of dead and lob code	reported dione	cause	causes	causes	causes	caases				
MALES										
All causes	13 377	18 677	16 125	9 812	9 236	2.8				
Chapter I Certain infectious and parasitic diseases (A00–B99)	115	177	193	147	210	3.4				
Septicaemia (A40, A41)	42	77	87	86	109	3.6				
Human immunodeficiency virus (HIV) disease (B20–B24)	40	20	00	40	7	0.0				
Chapter II Neoplasms (C00–D48)	48 7 744	39 5 330	22 3 749	10 1 903	7 1 557	2.2 2.3				
Malignant neoplasms (COO–C97)	7 687	5 219	3 646	1 831	1 483	2.3				
Digestive organs (C15–C26)	2 277	1 438	989	504	392	2.2				
Oesophagus (C15)	264	155	123	53	46	2.2				
Stomach (C16)	343	188	118	55	50	2.1				
Colon (C18)	717	438	309	172	135	2.3				
Rectosigmoid junction, rectum, anus and										
anal canal (C19–C21)	302	174	132	76	50	2.2				
Liver and intrahepatic bile ducts (C22) Pancreas (C25)	121 394	139 230	100 137	54 62	35 45	2.5 2.0				
Trachea, bronchus and lung (C33, C34)	1 811	1 282	871	384	307	2.0				
Melanoma of skin (C43)	298	177	78	38	40	2.0				
Breast (C50)	6	4	6	4	2	2.6				
Female genital organs (C51–C58)										
Ovary (C56)										
Male genital organs (C60–C63)	965	682	482	230	187	2.3				
Prostate (C61)	946	670	473	227	183	2.3				
Urinary tract (C64–C68)	417	286	192	120	97	2.3				
Kidney, except renal pelvis (C64)	206 192	123 155	72 115	42 71	39 54	2.2 2.5				
Bladder (C67) Brain (C71)	332	150	71	23	54 12	2.5 1.7				
Lymphoid, haematopoietic and related	332	130	11	25	12	1.7				
tissue (C81–C96)	534	498	423	273	234	2.7				
Leukaemia (C91–C95)	148	208	189	119	104	2.9				
In situ and benign neoplasms and neoplasms of uncertain or	•									
unknown behaviour (D00-D48)	57	111	103	72	74	3.1				
Chapter IIII Diseases of the blood and blood-forming										
organs and certain disorders involving the immune										
mechanism (D50–D89)	11	35	48	39	62	3.8				
Chapter IV Endocrine, nutritional and metabolic diseases (E00–E90)	47	346	664	503	441	3.6				
Diabetes mellitus (E10–E14)	17	258	509	380	321	3.6				
Chapter V Mental and behavioural disorders (F00–F99)	94	354	354	215	239	3.3				
Chapter VI Diseases of the nervous system (G00–G99)	301	588	485	233	211	2.8				
Alzheimer's disease (G30)	87	200	125	44	37	2.5				
Chapter VII Diseases of the eye and adnexa (H00-H59)	_	_	_	_	_					
Chapter VIII Diseases of the ear and mastoid										
process (H60–H95)										
Chapter IX Diseases of the circulatory system (I00–I99) All heart disease (I05–I09, I11, I13, I20–I25, I26,	3 630	6 672	6 814	4 174	3 534	3.0				
127, 130–152)	2 433	4 769	5 108	3 170	2 636	3.0				
Acute rheumatic fever and chronic rheumatic	2 400	4 703	3 100	3110	2 000	5.0				
heart diseases (IOO–IO9)	2	15	21	18	28	4.0				
Hypertensive diseases (I10–I15)	61	109	113	84	65	3.1				
Ischaemic heart diseases (I20–I25)	2 057	3 970	4 203	2 559	2 076	3.0				
Acute myocardial infarction (I21)	763	2 492	2 436	1 356	981	3.0				
Pulmonary heart disease and diseases of pulmonary										
circulation and other forms of heart disease (I26–I52)	332	717	832	567	507	3.2				
Heart failure (I50)	111	261	307	175	135	3.0				
Cerebrovascular diseases (I60–I69) Diseases of arteries, arterioles and capillaries (I70–I79)	963 210	1 437 389	1 262 362	694 228	538 287	2.7 3.2				
Atherosclerosis (I70)	11	58 58	362 67	51	42	3.4				
Acric aneurysm and dissection (I71)	192	270	210	102	108	2.7				
	<b>-</b>					=::				

# 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
	• • • • • • • • • •		• • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • •
Chapter X Diseases of the respiratory system (J00–J99)	750	1 452	1 469	909	716	3.0
Influenza and pneumonia (J10–J18)	334	218	111	59	43	2.1
Chronic lower respiratory diseases (J40–J47)	291	977	1 110	698	533	3.1
Emphysema (J43)	55	195	162	101	62	2.9
Asthma and status asthmaticus (J45, J46)	26	48	50	25	11	2.7
Chapter XI Diseases of the digestive system (K00–K93)	192	452	544	417	506	3.5
Diseases of oesophagus, stomach and						
duodenum (K20–K31)	27	72	69	61	84	3.5
Gastric and duodenal ulcer (K25–K27)	25	57	47	41	45	3.2
Diseases of liver (K70–K77)	91	227	231	165	149	3.2
Chapter XII Diseases of the skin and subcutaneous						
tissue (L00–L99)	_	10	34	37	27	4.0
Chapter XIII Diseases of the musculoskeletal system and						
connective tissue (M00–M99)	5	41	84	73	97	4.0
Arthropathies and systemic connective tissue						
disorders (M00–M36)	4	27	64	58	55	3.9
Chapter XIV Diseases of the genitourinary system (N00–N99)	61	222	340	263	346	3.7
Renal failure (N17-N19)	55	162	233	176	216	3.6
Chapter XV Pregnancy, childbirth and the						
puerperium (000–099)						
Chapter XVI Certain conditions originating in the perinatal						
period (P00–P96)	33	95	100	69	80	3.3
Fetus and newborn affected by maternal factors and						
by complications of pregnancy, labour and						
delivery (P00–P04)	2	61	57	39	55	3.6
Chapter XVII Congenital malformations, deformations and						
chromosomal abnormalities (Q00–Q99)	53	87	110	61	81	3.2
Congenital malformations of the circulatory						
system (Q20–Q28)	31	32	30	20	20	2.9
Chapter XVIII Symptoms, signs and abnormal clinical and				_	_	
laboratory findings, not elsewhere classified (R00–R99)	292	14	10	3	5	1.2
Chapter XX External causes of morbidity and						
mortality (V01–Y98)	49	2 802	1 127	766	1 124	3.2
Accidents (V01–X59)	32	1 423	650	529	852	3.5
Transport accidents (V01–V99)	22	811	251	151	206	3.0
Falls (W00–W19)	2	77	57	55	118	4.2
Accidental drowning and submersion (W65–W74)	_	139	30	25	9	2.6
Intentional self-harm (X60–X84)	6	1 247	381	173	195	2.7
Hanging, strangulation and suffocation (X70)	3	586	180	61	38	2.5
Assault (X85–Y09)	10	112	54	18	10	2.6

		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
••••••••••	FEMALES	• • • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •
All causes	12 534	16 996	14 895	8 765	7 685	2.8
Chapter I Certain infectious and parasitic diseases (A00–B99)	74	172	187	148	180	3.4
Septicaemia (A40, A41)	38	115	118	86	103	3.4
Human immunodeficiency virus (HIV) disease (B20–B24)	4	2	2	1		2.0
Chapter II Neoplasms (C00–D48)	6 381	4 115	2 691	1 315	1 071	2.0
Malignant neoplasms (COO-C97)	6 321	4 010	2 589	1 255	1 012	2.2
Digestive organs (C15–C26)	1 872	1 127	718	329	266	2.1
Oesophagus (C15)	113	89	52	24	21	2.2
Stomach (C16)	231	101	66	27	22	1.9
Colon (C18)	663	409	262	122	101	2.1
Rectosigmoid junction, rectum, anus and anal canal (C19–C21)	222	106	90	46	40	2.2
Liver and intrahepatic bile ducts (C22)	222 76	126 48	80 59	46 29	40 22	2.2 2.5
Pancreas (C25)	409	232	121	52	36	1.9
Trachea, bronchus and lung (C33, C34)	881	596	360	190	121	2.1
Melanoma of skin (C43)	180	88	50	19	22	1.9
Breast (C50)	1 138	632	406	186	143	2.1
Female genital organs (C51–C58)	574	329	209	106	82	2.1
Ovary (C56)	352	187	111	54	33	2.0
Male genital organs (C60–C63)	• •					
Prostate (C61) Urinary tract (C64–C68)	231	 151	 118	53	 52	2.3
Kidney, except renal pelvis (C64)	130	79	55	25	31	2.3
Bladder (C67)	89	64	54	26	19	2.3
Brain (C71)	249	103	54	12	12	1.7
Lymphoid, haematopoietic and related						
tissue (C81–C96)	500	426	322	190	158	2.5
Leukaemia (C91–C95)	145	159	131	81	62	2.7
In situ and benign neoplasms and neoplasms of uncertain or unknown behaviour (D00–D48)		105	100	60	FO	2.0
Chapter IIII Diseases of the blood and blood-forming	60	105	102	60	59	3.0
organs and certain disorders involving the immune						
mechanism (D50-D89)	14	45	71	59	66	3.7
Chapter IV Endocrine, nutritional and metabolic						
diseases (E00–E90)	39	390	649	513	508	3.7
Diabetes mellitus (E10–E14)	16	272	482	363	329	3.6
Chapter V Mental and behavioural disorders (F00–F99)	191	618	357	205	181	2.8
Chapter VI Diseases of the nervous system (G00–G99)  Alzheimer's disease (G30)	407 221	730 396	520 246	226 100	189 60	2.6 2.4
Chapter VII Diseases of the eye and adnexa (H00–H59)		2	_	3	_	3.2
Chapter VIII Diseases of the ear and mastoid						
process (H60–H95)	_	1	3	2	_	3.2
Chapter IX Diseases of the circulatory system (I00–I99)	3 886	7 874	7 400	4 167	3 152	2.9
All heart disease (105–109, 111, 113, 120–125, 126,						
127, 130–152)	1 925	4 891	5 033	3 022	2 358	3.0
Acute rheumatic fever and chronic rheumatic heart diseases (IOO–IO9)	6	26	50	41	54	2.0
Hypertensive diseases (110–115)	93	26 217	216	132	87	3.9 2.9
Ischaemic heart diseases (I20–I25)	1 427	3 600	3 748	2 282	1 687	3.0
Acute myocardial infarction (I21)	854	2 256	2 087	1 186	741	2.9
Pulmonary heart disease and diseases of pulmonary						
circulation and other forms of heart disease (I26–I52)	420	1 135	1 129	642	570	3.0
Heart failure (I50)	206	561	523	254	181	2.8
Cerebrovascular diseases (I60–I69)	1 749	2 431	1 823	826	543	2.5
Diseases of arteries, arterioles and capillaries (I70–I79) Atherosclerosis (I70)	187	415 148	387 137	224 53	175 34	2.9 2.7
Autheroscierosis (170) Aortic aneurysm and dissection (171)	51 122	148 205	137	53 66	34 37	2.7
Mordo anearyon and dissection (II 1)	122	200	100	00	31	2.5

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
Chapter X Diseases of the respiratory system (J00–J99)	926	1 160	1 092	647	492	2.8
Influenza and pneumonia (J10–J18)	597	286	148	57	45	1.8
Chronic lower respiratory diseases (J40–J47)	225	675	760	471	356	3.1
Emphysema (J43)	32	98	96	59	27	2.9
Asthma and status asthmaticus (J45, J46)	41	66	84	39	34	2.9
Chapter XI Diseases of the digestive system (K00–K93)	188	444	567	446	465	3.4
Diseases of oesophagus, stomach and						
duodenum (K20–K31)	23	74	103	69	66	3.4
Gastric and duodenal ulcer (K25–K27)	23	66	67	39	36	3.1
Diseases of liver (K70–K77)	52	98	97	68	65	3.1
Chapter XII Diseases of the skin and subcutaneous						
tissue (L00-L99)	2	28	61	57	33	3.6
Chapter XIII Diseases of the musculoskeletal system and						
connective tissue (M00–M99)	14	98	173	131	146	3.7
Arthropathies and systemic connective tissue						
disorders (M00–M36)	12	69	104	81	94	3.7
Chapter XIV Diseases of the genitourinary system (N00–N99)	84	344	414	320	374	3.5
Renal failure (N17–N19)	75	226	243	180	195	3.4
Chapter XV Pregnancy, childbirth and the	_	_	_			
puerperium (000–099)	3	3	1	3	1	2.6
Chapter XVI Certain conditions originating in the perinatal	20	0.4	0.4	40	00	0.0
period (P00–P96)	29	81	81	43	30	2.9
Fetus and newborn affected by maternal factors and by complications of pregnancy, labour and						
delivery (P00–P04)		49	50	26	22	3.2
Chapter XVII Congenital malformations, deformations and	_	49	50	20	22	3.2
chromosomal abnormalities (000–099)	40	83	96	55	49	3.1
Congenital malformations of the circulatory	40	65	90	55	49	3.1
system (Q20–Q28)	16	29	36	15	22	3.0
Chapter XVIII Symptoms, signs and abnormal clinical and	10	23	30	15	22	5.0
laboratory findings, not elsewhere classified (R00–R99)	227	29	12	1	7	1.3
Chapter XX External causes of morbidity and				_	·	2.0
mortality (V01–Y98)	29	779	520	424	741	3.8
Accidents (V01–X59)	15	504	349	319	614	3.9
Transport accidents (V01–V99)	9	324	123	57	57	2.8
Falls (W00-W19)	_	22	47	46	96	4.5
Accidental drowning and submersion (W65–W74)	_	45	21	6	3	2.6
Intentional self-harm (X60–X84)	3	220	131	66	70	3.1
Hanging, strangulation and suffocation (X70)	_	96	47	13	4	2.5
Assault (X85–Y09)	11	49	16	10	10	2.7

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Modern Construction of the Atlantic and MOD and	Departual plans	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
••••••	PERSONS	• • • • • • • •	• • • • • • • •		• • • • • • •	
All causes	25 911	35 673	31 020	18 577	16 921	2.8
Chapter I Certain infectious and parasitic diseases (A00–B99)	189	349	380	295	390	3.4
Septicaemia (A40, A41)	80	192	205	172	212	3.5
Human immunodeficiency virus (HIV)	50	44	0.4	4.4	-	0.0
disease (B20–B24) Chapter II Neoplasms (C00–D48)	52 14 125	41 9 445	24 6 440	11 3 218	7 2 628	2.2 2.2
Malignant neoplasms (C00–C97)	14 125	9 229	6 235	3 086	2 495	2.2
Digestive organs (C15–C26)	4 149	2 565	1 707	833	658	2.2
Oesophagus (C15)	377	244	175	77	67	2.2
Stomach (C16)	574	289	184	82	72	2.0
Colon (C18)	1 380	847	571	294	236	2.2
Rectosigmoid junction, rectum, anus and						
anal canal (C19–C21)	524	300	212	122	90	2.2
Liver and intrahepatic bile ducts (C22) Pancreas (C25)	197 803	187 462	159 258	83 114	57 81	2.5 2.0
Trachea, bronchus and lung (C33, C34)	2 692	1 878	1 231	574	428	2.0
Melanoma of skin (C43)	478	265	128	57	62	2.0
Breast (C50)	1 144	636	412	190	145	2.1
Female genital organs (C51–C58)	574	329	209	106	82	2.1
Ovary (C56)	352	187	111	54	33	2.0
Male genital organs (C60–C63)	965	682	482	230	187	2.3
Prostate (C61)	946	670	473	227	183	2.3
Urinary tract (C64–C68)	648	437	310	173	149	2.3
Kidney, except renal pelvis (C64) Bladder (C67)	336 281	202 219	127 169	67 97	70 73	2.2 2.4
Brain (C71)	581	253	125	35	24	1.7
Lymphoid, haematopoietic and related	001	200	120	00		2.,
tissue (C81-C96)	1 034	924	745	463	392	2.6
Leukaemia (C91–C95)	293	367	320	200	166	2.8
In situ and benign neoplasms and neoplasms of uncertain or						
unknown behaviour (D00–D48)	117	216	205	132	133	3.0
Chapter IIII Diseases of the blood and blood-forming						
organs and certain disorders involving the immune mechanism (D50–D89)	25	80	119	98	128	3.7
Chapter IV Endocrine, nutritional and metabolic	25	80	119	90	128	3.1
diseases (E00–E90)	86	736	1 313	1 016	949	3.7
Diabetes mellitus (E10–E14)	33	530	991	743	650	3.6
Chapter V Mental and behavioural disorders (F00–F99)	285	972	711	420	420	3.0
Chapter VI Diseases of the nervous system (G00–G99)	708	1 318	1 005	459	400	2.7
Alzheimer's disease (G30)	308	596	371	144	97	2.5
Chapter VII Diseases of the eye and adnexa (H00–H59) Chapter VIII Diseases of the ear and mastoid	_	2	_	3	_	3.2
process (H60–H95)	_	1	3	2	_	3.2
Chapter IX Diseases of the circulatory system (I00–I99)	7 516	14 546	14 214	8 341	6 686	2.9
All heart disease (I05–I09, I11, I13, I20–I25, I26,	. 010	2.0.0		00.1	0 000	2.0
127, 130–152)	4 358	9 660	10 141	6 192	4 994	3.0
Acute rheumatic fever and chronic rheumatic						
heart diseases (I00–I09)	8	41	71	59	82	3.9
Hypertensive diseases (I10–I15)	154	326	329	216	152	3.0
Ischaemic heart diseases (I20–I25)	3 484	7 570	7 951	4 841	3 763	3.0
Acute myocardial infarction (I21) Pulmonary heart disease and diseases of pulmonary	1 617	4 748	4 523	2 542	1 722	2.9
circulation and other forms of heart disease (I26–I52)	752	1 852	1 961	1 209	1 077	3.1
Heart failure (I50)	317	822	830	429	316	2.9
Cerebrovascular diseases (I60–I69)	2 712	3 868	3 085	1 520	1 081	2.6
Diseases of arteries, arterioles and capillaries (I70-I79)	397	804	749	452	462	3.1
Atherosclerosis (I70)	62	206	204	104	76	3.0
Aortic aneurysm and dissection (I71)	314	475	348	168	145	2.6

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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
• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • •	• • • • • • • •	• • • • • • •	• • • • • • •	• • • • • • • •	• • • • • •
Chapter X Diseases of the respiratory system (J00–J99)	1 676	2 612	2 561	1 556	1 208	2.9
Influenza and pneumonia (J10–J18)	931	504	259	116	88	1.9
Chronic lower respiratory diseases (J40–J47)	516	1 652	1 870	1 169	889	3.1
Emphysema (J43)	87	293	258	160	89	2.9
Asthma and status asthmaticus (J45, J46)	67	114	134	64	45	2.8
Chapter XI Diseases of the digestive system (K00–K93)	380	896	1 111	863	971	3.5
Diseases of oesophagus, stomach and						
duodenum (K20–K31)	50	146	172	130	150	3.5
Gastric and duodenal ulcer (K25–K27)	48	123	114	80	81	3.2
Diseases of liver (K70–K77)	143	325	328	233	214	3.2
Chapter XII Diseases of the skin and subcutaneous						
tissue (L00-L99)	2	38	95	94	60	3.7
Chapter XIII Diseases of the musculoskeletal system and						
connective tissue (M00-M99)	19	139	257	204	243	3.8
Arthropathies and systemic connective tissue						
disorders (M00–M36)	16	96	168	139	149	3.8
Chapter XIV Diseases of the genitourinary system (N00–N99)	145	566	754	583	720	3.6
Renal failure (N17–N19)	130	388	476	356	411	3.5
Chapter XV Pregnancy, childbirth and the						
puerperium (000–099)	3	3	1	3	1	2.6
Chapter XVI Certain conditions originating in the perinatal period						
(P00-P96)	62	176	181	112	110	3.2
Fetus and newborn affected by maternal factors and						
by complications of pregnancy, labour and						
delivery (P00–P04)	2	110	107	65	77	3.4
Chapter XVII Congenital malformations, deformations and						
chromosomal abnormalities (Q00–Q99)	93	170	206	116	130	3.2
Congenital malformations of the circulatory						
system (Q20-Q28)	47	61	66	35	42	2.9
Chapter XVIII Symptoms, signs and abnormal clinical and						
laboratory findings, not elsewhere classified (R00-R99)	519	43	22	4	12	1.3
Chapter XX External causes of morbidity and						
mortality (V01–Y98)	78	3 581	1 647	1 190	1 865	3.4
Accidents (V01–X59)	47	1 927	999	848	1 466	3.7
Transport accidents (V01–V99)	31	1 135	374	208	263	3.0
Falls (W00-W19)	2	99	104	101	214	4.3
Accidental drowning and submersion (W65–W74)	_	184	51	31	12	2.6
Intentional self-harm (X60–X84)	9	1 467	512	239	265	2.8
Hanging, strangulation and suffocation (X70)	3	682	227	74	42	2.5
Assault (X85–Y09)	21	161	70	28	20	2.7

MULTIPLE CAUSE(a)..... RATIO(b)

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

Cause of death and ICD code Males Females Persons Males Females Persons Persons 163 995 67 227 128 102 180 268 344 263 60 875 2.7 Chapter I Certain infectious and parasitic diseases (A00-B99) 842 761 1 603 4 539 4 050 8 589 5.4 Septicaemia (A40, A41) 401 3 265 3 283 6 548 460 861 7.6 Human immunodeficiency virus (HIV) disease (B20-B24) 126 9 135 160 10 170 1.3 20 718 Chapter II Neoplasms (C00-D48) 20 283 15 573 35 856 27 677 48 395 1.3 Malignant neoplasms (C00-C97) 19 866 15 187 35 053 26 807 19 960 46 767 1.3 Digestive organs (C15-C26) 5 600 4 312 9 9 1 2 6 2 7 0 4 760 11 030 1.1 Oesophagus (C15) 641 299 940 334 1 025 691 1.1 Stomach (C16) 754 447 1 201 826 485 1 311 1.1 Colon (C18) 1 771 1 557 3 328 2 020 1 725 3 745 1.1 Rectosigmoid junction, rectum, anus and anal canal (C19-C21) 514 1 248 822 565 734 1 387 1.1 Liver and intrahepatic bile ducts (C22) 449 234 683 503 251 754 1.1 Pancreas (C25) 868 850 1 718 914 888 1 802 1.0 Trachea, bronchus and lung (C33, C34) 4 655 2 148 6 803 5 003 2 266 7 269 1.1 Melanoma of skin (C43) 631 359 990 710 411 1 121 1.1 Breast (C50) 3 002 22 2 505 2 527 29 3 031 1.2 Female genital organs (C51-C58) 1 300 1 300 1 477 1 477 1.1 . . . . Ovary (C56) 737 737 791 791 1.1 Male genital organs (C60-C63) 2 546 2 546 3 710 3 710 1.5 . . . . Prostate (C61) 2 499 2 499 1.5 3 649 3 649 Urinary tract (C64-C68) 1 112 605 1 717 1 410 729 2 139 1.2 Kidney, except renal pelvis (C64) 482 320 802 567 372 939 1.2 Bladder (C67) 587 252 839 796 320 1 116 1.3 Brain (C71) 588 430 1 018 450 604 1 054 1.0 Lymphoid, haematopoietic and related tissue (C81-C96) 1 962 1 596 3 558 2 446 1 952 4 398 1.2 Leukaemia (C91-C95) 768 578 1 346 1 002 743 1 745 1.3

417

195

2 001

1 485

1 256

1 818

493

UNDERLYING CAUSE....

386

255

2 099

1 462

1 552

2 072

1 023

3 896

1 725

7 372

1 388

423

5

803

450

4 100

2 947

2 808

3 890

1 516

6 851

2 714

2 864

1 450

652

12 266

5

870

1 677

7 812

5 096

6 889

5 098

978

113

20 736

7 720

9 5 7 5

4 818

2 123

1 218

758

1 775

7 769

4 501

7 239

5 180

1 927

179

1 628

3 452

15 581

9 597

14 128

10 278

2 905

42 249

17 244

22 347

9 270

4 618

1 940

292

2.0

7.7

3.8

3.3

5.0

2.6

1.9

58.4

2.5

2.6

2.3

3.1

1.8

1.2

6.2

6.4

1.8

3.2

7.1

1.3

2 955

4 894

1 476

229

989

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

Diseases of arteries, arterioles and capillaries (I70–I79)

In situ and benign neoplasms and neoplasms of uncertain or unknown behaviour (D00-D48)

Chapter V Mental and behavioural disorders (F00-F99)

Chapter VI Diseases of the nervous system (G00-G99)

Chapter VII Diseases of the eye and adnexa (H00–H59)

Chapter IIII Diseases of the blood and blood-forming organs and certain disorders involving the immune

Chapter IV Endocrine, nutritional and metabolic

circulation and other forms of heart disease (I26-I52)

Aortic aneurysm and dissection (I71)

Heart failure (I50)

Atherosclerosis (170)

Cerebrovascular diseases (I60-I69)

mechanism (D50-D89)

Diabetes mellitus (E10-E14)

Alzheimer's disease (G30)

diseases (F00-F90)

21 513

9 524

12 772

4 452

2 495

Chapter VIII Diseases of the ear and mastoid process (H60-H95) 6 6 25 41 66 11.0 Chapter IX Diseases of the circulatory system (I00-I99) 24 824 26 479 51 303 64 578 63 611 128 189 All heart disease (I05-I09, I11, I13, I20-I25, I26, 127, 130-152) 18 116 17 229 35 345 48 138 43 895 92 033 Acute rheumatic fever and chronic rheumatic heart diseases (I00-I09) 84 177 261 229 381 610 Hypertensive diseases (I10-I15) 432 745 1 177 1 494 2 176 3 670 Ischaemic heart diseases (I20-I25) 14 865 12 744 27 609 26 888 21 499 48 387 Acute myocardial infarction (I21) 8 028 7 124 15 152 9 753 8 472 18 225 Pulmonary heart disease and diseases of pulmonary

<sup>(</sup>b) Ratio of multiple (underlying and contributory) to underlying cause.

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

	UNDEF	RLYING CA	USE	MULTIPLE CAUSE(a)			RATIO(b)	
Cause of death and ICD code	Males	Females	Persons	Males	Females	Persons	Persons	
					• • • • • • •			
Chapter X Diseases of the respiratory system (J00–J99)	5 296	4 317	9 613	26 584	21 728	48 312	5.0	
Influenza and pneumonia (J10-J18)	765	1 133	1 898	8 892	8 871	17 763	9.4	
Chronic lower respiratory diseases (J40–J47)	3 609	2 487	6 096	8 846	5 601	14 447	2.4	
Emphysema (J43)	575	312	887	1 246	589	1 835	2.1	
Asthma and status asthmaticus (J45, J46)	160	264	424	557	825	1 382	3.3	
Chapter XI Diseases of the digestive system (K00–K93)	2 111	2 110	4 221	7 352	6 451	13 803	3.3	
Diseases of oesophagus, stomach and								
duodenum (K20-K31)	313	335	648	1 172	1 046	2 218	3.4	
Gastric and duodenal ulcer (K25–K27)	215	231	446	694	567	1 261	2.8	
Diseases of liver (K70–K77)	863	380	1 243	2 725	1 433	4 158	3.3	
Chapter XII Diseases of the skin and subcutaneous								
tissue (L00-L99)	108	181	289	593	817	1 410	4.9	
Chapter XIII Diseases of the musculoskeletal system and								
connective tissue (M00–M99)	300	562	862	1 582	2 885	4 467	5.2	
Arthropathies and systemic connective tissue								
disorders (M00–M36)	208	360	568	1 012	1 629	2 641	4.6	
Chapter XIV Diseases of the genitourinary								
system (N00-N99)	1 232	1 536	2 768	7 986	7 505	15 491	5.6	
Renal failure (N17–N19)	842	919	1 761	6 460	5 668	12 128	6.9	
Chapter XV Pregnancy, childbirth and the								
puerperium (000–099)		11	11		18	18	1.6	
Chapter XVI Certain conditions originating in the perinatal								
period (P00–P96)	377	264	641	1 445	915	2 360	3.7	
Fetus and newborn affected by maternal factors and by								
complications of pregnancy, labour								
and delivery (P00–P04)	214	147	361	491	345	836	2.3	
Chapter XVII Congenital malformations, deformations and								
chromosomal abnormalities (Q00-Q99)	392	323	715	703	541	1 244	1.7	
Congenital malformations of the circulatory								
system (Q20–Q28)	133	118	251	224	204	428	1.7	
Chapter XVIII Symptoms, signs and abnormal clinical and								
laboratory findings, not elsewhere	00.4	070	200	0.440	7.045	40.057	00.0	
classified (R00–R99) (c)	324	276	600	6 412	7 245	13 657	22.8	
Chapter XX External causes of morbidity and	= 000				= 000			
mortality (V01–Y98)	5 868	2 493	8 361	9 203	5 328	14 531	1.7	
Accidents (V01–X59)	3 486	1 801	5 287	5 002	3 191	8 193	1.5	
Transport accidents (V01–V99)	1 441	570	2 011	1 451	574	2 025	1.0	
Falls (W00–W19)	309	211	520	363	291	654	1.3	
Accidental drowning and submersion (W65–W74)	203	75	278	216	81	297	1.1	
Intentional self-harm (X60–X84)	2 002	490	2 492	2 070	530	2 600	1.0	
Hanging, strangulation and suffocation (X70)	868	160	1 028	870	163	1 033	1.0	
Assault (X85–Y09)	204	96	300	210	102	312	1.0	

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 <sup>(</sup>a) Total mentions of cause on death certificates. See Glossary for further information.
 Excludes injury codes (ICD codes S000–T983).

<sup>(</sup>b) Ratio of multiple (underlying and contributory) to underlying cause.

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

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

	UNDER	LYING CAU	JSE	MULTIF	PLE CAUSE	(b)
Cause of death and ICD code	Males	Females	Persons	Males	Females	Persons
		• • • • • • •		• • • • • • •		• • • • •
All causes(c)	712.1	639.0	675.4	712.1	639.0	675.4
Chapter I Certain infectious and parasitic diseases (A00–B99)	8.9	8.0	8.5	48.1	42.5	45.3
Septicaemia (A40, A41) Human immunodeficiency virus (HIV)	4.2	4.8	4.5	34.6	34.5	34.5
disease (B20–B24)	1.3	0.1	0.7	1.7	0.1	0.9
Chapter II Neoplasms (C00–D48)	214.9	163.5	189.0	293.2	217.5	255.2
Malignant neoplasms (C00–C97)	210.4	159.4	184.8	284.0	209.5	246.6
Digestive organs (C15–C26)	59.3	45.3	52.3	66.4	50.0	58.2
Oesophagus (C15)	6.8	3.1	5.0	7.3	3.5	5.4
Stomach (C16) Colon (C18)	8.0 18.8	4.7 16.3	6.3 17.5	8.7 21.4	5.1 18.1	6.9 19.7
Rectosigmoid junction, rectum, anus and	10.0	10.5	17.5	21.4	10.1	19.7
anal canal (C19–C21)	7.8	5.4	6.6	8.7	5.9	7.3
Liver and intrahepatic bile ducts (C22)	4.8	2.5	3.6	5.3	2.6	4.0
Pancreas (C25)	9.2	8.9	9.1	9.7	9.3	9.5
Trachea, bronchus and lung (C33, C34)	49.3	22.5	35.9	53.0	23.8	38.3
Melanoma of skin (C43)	6.7	3.8	5.2	7.5	4.3	5.9
Breast (C50) Female genital organs (C51–C58)	0.2	26.3 13.6	13.3 6.9	0.3	31.5 15.5	16.0 7.8
Ovary (C56)		7.7	3.9		8.3	4.2
Male genital organs (C60–C63)	27.0		13.4	39.3		19.6
Prostate (C61)	26.5		13.2	38.7		19.2
Urinary tract (C64–C68)	11.8	6.4	9.1	14.9	7.7	11.3
Kidney, except renal pelvis (C64)	5.1	3.4	4.2	6.0	3.9	5.0
Bladder (C67)	6.2	2.6	4.4	8.4	3.4	5.9
Brain (C71)	6.2	4.5	5.4	6.4	4.7	5.6
Lymphoid, haematopoietic and related tissue (C81–C96)	20.8	16.8	18.8	25.9	20.5	23.2
Leukaemia (C91–C95)	8.1	6.1	7.1	10.6	7.8	9.2
In situ and benign neoplasms and neoplasms of uncertain						
or unknown behaviour (D00–D48)	4.4	4.1	4.2	9.2	8.0	8.6
Chapter IIII Diseases of the blood and blood-forming						
organs and certain disorders involving the immune mechanism (D50–D89)	0.4	0.7	0.4	47.0	40.0	40.0
Chapter IV Endocrine, nutritional and metabolic	2.1	2.7	2.4	17.8	18.6	18.2
diseases (E00–E90)	21.2	22.0	21.6	82.7	81.6	82.1
Diabetes mellitus (E10–E14)	15.7	15.3	15.5	54.0	47.2	50.6
Chapter V Mental and behavioural disorders (F00–F99)	13.3	16.3	14.8	73.0	76.0	74.5
Chapter VI Diseases of the nervous system (G00–G99)	19.3	21.8	20.5	54.0	54.4	54.2
Alzheimer's disease (G30)	5.2	10.7	8.0	10.4	20.2	15.3
Chapter VII Diseases of the eye and adnexa (H00–H59)		0.1	_	1.2	1.9	1.5
Chapter VIII Diseases of the ear and mastoid process (H60–H95)		0.1		0.3	0.4	0.3
Chapter IX Diseases of the circulatory system (I00–I99)	263.0	278.0	270.5	684.1	667.7	675.9
All heart disease (I05–I09, I11, I13, I20–I25, I26,	200.0	2.0.0	2.0.0	00	00	0.0.0
127, 130–152)	191.9	180.9	186.4	509.9	460.8	485.2
Acute rheumatic fever and chronic rheumatic						
heart diseases (I00–I09)	0.9	1.9	1.4	2.4	4.0	3.2
Hypertensive diseases (I10–I15)	4.6	7.8	6.2	15.8	22.8	19.3
Ischaemic heart diseases (I20–I25)  Acute myocardial infarction (I21)	157.5 85.0	133.8 74.8	145.6 79.9	284.8 103.3	225.7 88.9	255.1 96.1
Pulmonary heart disease and diseases of pulmonary	85.0	14.0	19.9	103.3	00.9	90.1
circulation and other forms of heart disease (126–152)	31.3	40.9	36.1	219.6	225.8	222.8
Heart failure (I50)	10.5	18.1	14.3	81.8	100.0	90.9
Cerebrovascular diseases (I60–I69)	51.8	77.4	64.7	101.4	134.1	117.8
Diseases of arteries, arterioles and capillaries (I70–I79)	15.6	14.6	15.1	51.0	46.7	48.9
Atherosclerosis (I70)	2.4	4.4	3.4	22.5	26.2	24.3
Aortic aneurysm and dissection (I71)	9.3	6.0	7.6	12.9	7.6	10.2

<sup>(</sup>a) Rates are expressed per 100,000 estimated mid year population.

<sup>(</sup>c) Rates are based on total deaths.

<sup>(</sup>b) Total mentions of cause on death certificates. 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 Males Females Persons Males Females Persons Chapter X Diseases of the respiratory system (J00–J99) 56.1 45.3 50.7 281.6 228.1 254.7 Influenza and pneumonia (J10-J18) 11.9 10.0 94.2 93.1 93.7 Chronic lower respiratory diseases (J40–J47) 38.2 26.1 32.1 93.7 58.8 76.2 Emphysema (J43) 6.1 3.3 4.7 13.2 6.2 9.7 Asthma and status asthmaticus (J45, J46) 2.8 2.2 5.9 8.7 7.3 1.7 Chapter XI Diseases of the digestive system (K00–K93) 22.4 22.1 22.3 77.9 67.7 72.8 Diseases of oesophagus, stomach and duodenum (K20-K31) 3.3 3.5 3.4 12.4 11.0 11.7 Gastric and duodenal ulcer (K25-K27) 2.3 2.4 2.4 7.4 6.0 6.6 Diseases of liver (K70-K77) 28.9 15.0 21.9 9.1 4.0 6.6 Chapter XII Diseases of the skin and subcutaneous tissue (L00-L99) 1.9 1.5 6.3 8.6 7.4 1.1 Chapter XIII Diseases of the musculoskeletal system and connective tissue (M00-M99) 3.2 5.9 4.5 30.3 23.6 16.8 Arthropathies and systemic connective tissue disorders (M00-M36) 2.2 3.8 3.0 10.7 17.1 13.9 Chapter XIV Diseases of the genitourinary system (N00–N99) 84.6 78.8 81.7 13.1 16.1 14.6 Renal failure (N17-N19) 8.9 9.6 9.3 68.4 59.5 63.9 Chapter XV Pregnancy, childbirth and the puerperium (000-099) 0.1 0.1 0.2 0.1 Chapter XVI Certain conditions originating in the perinatal period (P00-P96) 4.0 15.3 12.4 2.8 3.4 9.6 Fetus and newborn affected by maternal factors and by complications of pregnancy, labour and delivery (P00-P04) 2.3 1.5 1.9 5.2 3.6 4.4 Chapter XVII Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99) 4.2 7.4 5.7 6.6 3.4 3.8 Congenital malformations of the circulatory system (Q20-Q28) 2.3 1.4 1.2 1.3 2.4 2.1 Chapter XVIII Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00-R99)(c) 3.4 2.9 3.2 67.9 76.1 72.0 Chapter XX External causes of morbidity and mortality (V01-Y98) 62.2 26.2 97.5 55.9 76.6 44.1 Accidents (V01-X59) 36.9 18.9 27.9 53.0 33.5 43.2 Transport accidents (V01-V99) 15.3 6.0 10.6 15.4 6.0 10.7 Falls (W00-W19) 2.2 3.1 3.4 3.3 2.7 3.8 Accidental drowning and submersion (W65–W74) 2.2 0.8 1.5 2.3 0.9 1.6 Intentional self-harm (X60-X84) 21.2 5.1 13.1 21.9 5.6 13.7 Hanging, strangulation and suffocation (X70) 9.2 1.7 5.4 9.2 1.7 5.4 Assault (X85-Y09) 2.2 1.0 1.6 2.2 1.6

<sup>(</sup>a) Rates are expressed per 100,000 estimated mid-year population.

<sup>(</sup>b) Total mentions of cause on death certificates. See Glossary for further information. Excludes injury codes (ICD codes N800–N999).

<sup>(</sup>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 (C00–C97) Reported alone	19 866 7 687	100.0 38.7	15 187 6 321	100.0 41.6	35 053 14 008	100.0 40.0
Reported with						
Septicaemia (A40, A41)	729	3.7	552	3.6	1 281	3.7
Diabetes mellitus (E10–E14)	785	4.0	483	3.2	1 268	3.6
Diseases of liver (K70–K77)	669	3.4	444	2.9	1 113	3.2
Ischaemic heart diseases (I20–I25) Heart failure (I50)	1 515 723	7.6	755 567	5.0	2 270	6.5 3.7
Cerebrovascular diseases (I60–I69)	684	3.6 3.4	567 539	3.7 3.5	1 290 1 223	3. <i>1</i> 3.5
Influenza and pneumonia (J10–J18)	1 961	9.9	1 163	7.7	3 124	8.9
Chronic lower respiratory diseases (J40–J47)	1 413	7.1	628	4.1	2 041	5.8
Renal failure (N17–N19)	1 092	5.5	602	4.0	1 694	4.8
Diabetes mellitus (E10–E14)	1 485	100.0	1 462	100.0	2 947	100.0
Reported alone	17	1.1	16	1.1	33	1.1
Reported with					00	
Ischaemic heart diseases (I20-I25)	824	55.5	691	47.3	1 515	51.4
Heart failure (I50)	246	16.6	260	17.8	506	17.2
Cerebrovascular diseases (I60–I69)	314	21.1	331	22.6	645	21.9
Diseases of arteries, arterioles and capillaries (I70–I79)	147	9.9	145	9.9	292	9.9
Influenza and pneumonia (J10–J18)	196	13.2	169	11.6	365	12.4
Renal failure (N17–N19)	305	20.5	307	21.0	612	20.8
Organic, including symptomatic, mental disorders (F00–F09)	648	100.0	1 296	100.0	1 944	100.0
Reported alone	56	8.6	181	14.0	237	12.2
Reported with						
Heart failure (I50)	41	6.3	93	7.2	134	6.9
Cerebrovascular diseases (I60–I69)	34	5.2	60	4.6	94	4.8
Influenza and pneumonia (J10–J18)	364	56.2	580	44.8	944	48.6
Diseases of the nervous system (G00–G99)	1 818	100.0	2 072	100.0	3 890	100.0
Reported alone	301	16.6	407	19.6	708	18.2
Reported with						
Organic, including symptomatic, mental disorders (F00–F09)	194	10.7	233	11.2	427	11.0
Ischaemic heart diseases (I20–I25)	112	6.2	119	5.7	231	5.9
Cerebrovascular diseases (I60–I69)	149	8.2	186	9.0	335	8.6
Influenza and pneumonia (J10–J18)	685	37.7	693	33.4	1 378	35.4
Ischaemic heart diseases (I20–I25)	14 865	100.0	12 744	100.0	27 609	100.0
Reported alone	2 057	13.8	1 427	11.2	3 484	12.6
Reported with	054	C 4	F0F	4.0	4.450	F 2
Malignant neoplasms (C00–C97) Diabetes mellitus (E10–E14)	954 1 409	6.4	505	4.0	1 459	5.3
Organic, including symptomatic, mental disorders (F00–F09)	1 409 505	9.5 3.4	1 088 894	8.5 7.0	2 497 1 399	9.0 5.1
Heart failure (I50)	2 920	19.6	3 429	26.9	6 349	23.0
Cerebrovascular diseases (I60–I69)	1 116	7.5	1 276	10.0	2 392	8.7
Diseases of arteries, arterioles and capillaries (I70–I79)	1 282	8.6	1 051	8.2	2 333	8.5
Influenza and pneumonia (J10–J18)	830	5.6	825	6.5	1 655	6.0
Chronic lower respiratory diseases (J40–J47)	1 800	12.1	990	7.8	2 790	10.1
Renal failure (N17–N19)	1 291	8.7	991	7.8	2 282	8.3
Heart failure (I50)	989	100.0	1 725	100.0	2 714	100.0
Reported alone	111	11.2	206	11.9	317	11.7
Reported with						
Organic, including symptomatic, mental disorders (F00–F09)	91	9.2	188	10.9	279	10.3
Cerebrovascular diseases (I60–I69)	78	7.9	141	8.2	219	8.1
Influenza and pneumonia (J10–J18)	274	27.7	527	30.6	801	29.5
Chronic lower respiratory diseases (J40–J47)	156	15.8	163	9.4	319	11.8
Renal failure (N17–N19)	214	21.6	250	14.5	464	17.1

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

Males..... Females..... Persons..... Underlying cause/associated cause and ICD code % % 4 894 100.0 Cerebrovascular diseases (I60-I69) 7 372 100.0 12 266 100.0 Reported alone 963 19.7 1 749 23.7 2 712 22.1 Reported with Diabetes mellitus (E10-E14) 392 8.0 411 5.6 803 6.5 Organic, including symptomatic, mental disorders (F00–F09) 557 11.4 966 13.1 1 523 12.4 Diseases of the nervous system (G00–G99) 468 9.6 674 9.1 1 142 9.3 Ischaemic heart diseases (I20-I25) 548 11.2 665 9.0 1 213 9.9 Diseases of arteries, arterioles and capillaries (I70–I79) 605 12.4 849 11.5 1 454 11.9 Influenza and pneumonia (J10-J18) 19.3 1 154 2 097 943 15.7 17.1 Diseases of arteries, arterioles and capillaries (I70–I79) 100.0 1 476 100.0 1 388 100.0 2 864 Reported alone 210 14.2 187 13.5 397 13.9 Reported with Ischaemic heart diseases (I20-I25) 284 19.2 168 12.1 452 15.8 Heart failure (I50) 227 12.9 143 9.7 16.4 370 Cerebrovascular diseases (I60-I69) 9.6 120 262 9.1 142 8.6 Influenza and pneumonia (J10-J18) 120 8.1 182 13.1 302 10.5 Renal failure (N17-N19) 137 187 12.7 9.9 324 11.3 Influenza and pneumonia (J10–J18) 1 133 100.0 100.0 765 100.0 1 898 Reported alone 334 43.7 597 52.7 931 49.1 Reported with Septicaemia (A40, A41) 86 11.2 71 6.3 157 8.3 Ischaemic heart diseases (I20-I25) 58 7.6 47 4.1 105 5.5 Heart failure (I50) 32 4.2 55 4.9 87 4.6 Renal failure (N17-N19) 41 5.4 35 3.1 76 4.0 Chronic lower respiratory diseases (J40-J47) 3 609 2 487 100.0 6 096 100.0 100.0 Reported alone 291 225 9.0 516 8.5 8.1 Reported with Malignant neoplasms (C00–C97) 300 8.3 96 3.9 396 6.5 Organic, including symptomatic, mental disorders (F00–F09) 178 4.9 126 5.1 304 5.0 Ischaemic heart diseases (I20-I25) 629 17.4 423 17.0 1 052 17.3 Heart failure (I50) 612 17.0 478 19.2 1 090 17.9 Cerebrovascular diseases (I60-I69) 192 4.5 303 5.3 111 5.0 Influenza and pneumonia (J10-J18) 1 219 33.8 754 30.3 1 973 32.4 Renal failure (N17-N19) 223 6.2 143 5.7 366 6.0 Renal failure (N17-N19) 842 100.0 919 100.0 1 761 100.0 Reported alone 55 6.5 75 8.2 130 7.4 Reported with Septicaemia (A40, A41) 98 10.7 212 12.0 114 13.5 Diabetes mellitus (E10–E14) 67 8.0 64 7.0 131 7.4 Ischaemic heart diseases (I20-I25) 227 27.0 199 426 24.2 21.7 Heart failure (I50) 253 233 27.7 27.5 486 27.6 Cerebrovascular diseases (I60-I69) 6.9 68 7.4 126 7.2 Influenza and pneumonia (J10–J18) 339 162 19.2 177 19.3 19.3

## 2.6 CAUSES OF DEATH, Associated Cause and Underlying Cause

Males..... Females..... Persons..... Multiple cause/underlying cause and ICD code % no. % no. % Septicaemia (A40-A41) 3 261 100.0 3 281 100.0 6 542 100.0 Reported as underlying cause 401 12.3 460 14.0 861 13.2 Reported in association with an underlying cause of Malignant neoplasms (C00–C97) 16.8 729 22.4 552 1 281 19.6 Diabetes mellitus (E10-E14) 116 3.6 135 4.1 251 3.8 Ischaemic heart diseases (I20-I25) 179 5.5 163 5.0 342 5.2 Cerebrovascular diseases (I60-I69) 133 4.1 135 4.1 268 4.1 Diseases of arteries, arterioles and capillaries (I70–I79) 139 4.3 108 3.3 247 3.8 Malignant neoplasms (C00-C97) 22 594 100.0 16 823 100.0 39 417 100.0 Reported as underlying cause 35 053 19 866 87.9 15 187 90.3 88.9 Reported in association with an underlying cause of Ischaemic heart diseases (I20-I25) 954 4.2 505 3.0 1 459 3.7 Cerebrovascular diseases (I60-I69) 328 1.5 245 1.5 573 1.5 Diabetes mellitus (E10-E14) 5 091 100.0 100.0 9 588 100.0 4 497 Reported as underlying cause 1 485 1 462 32.5 2 947 30.7 29.2 Reported in association with an underlying cause of 785 483 10.7 1 268 Malignant neoplasms (C00–C97) 15.4 13.2 Ischaemic heart diseases (I20-I25) 1 409 27.7 1 088 24.2 2 497 26.0 Cerebrovascular diseases (I60-I69) 392 7.7 411 9.1 803 8.4 Organic, including symptomatic, mental disorders (F00–F09) 100.0 5 362 100.0 100.0 3 211 8 573 Reported as underlying cause 648 20.2 1 296 24.2 1 944 22.7 Reported in association with an underlying cause of Malignant neoplasms (C00–C97) 6.2 7.8 332 583 251 6.8 Diseases of the nervous system (G00-G99) 194 6.0 233 4.3 427 5.0 Ischaemic heart diseases (I20-I25) 505 15.7 894 16.7 1 399 16.3 Cerebrovascular diseases (I60-I69) 557 17.3 966 18.0 1 523 17.8 Diseases of the nervous system (G00–G99) 4 786 100.0 4 901 100.0 9 687 100.0 Reported as underlying cause 1 818 38.0 2 072 42.3 3 890 40.2 Reported in association with an underlying cause of Malignant neoplasms (C00-C97) 513 10.7 370 7.5 9.1 Ischaemic heart diseases (I20-I25) 680 621 1 301 14.2 12.7 13.4 Cerebrovascular diseases (I60–I69) 468 9.8 674 13.8 1 142 11.8 Hypertensive diseases (I10-I15) 1 494 100.0 2 176 100.0 3 670 100.0 Reported as underlying cause 432 28.9 745 34.2 1 177 32.1 Reported in association with an underlying cause of Malignant neoplasms (C00-C97) 406 27.2 503 23.1 909 24.8 Diabetes mellitus (E10-E14) 145 62 83 3.8 4.0 4.1 Diseases of arteries, arterioles and capillaries (I70–I79) 123 8.2 92 4.2 215 5.9 Chronic lower respiratory diseases (J40–J47) 103 6.9 104 4.8 207 5.6 Ischaemic heart diseases (I20-I25) 20 786 100.0 100.0 17 180 37 966 100.0 Reported as underlying cause 14 865 12 744 27 609 71.5 74.2 72.7 Reported in association with an underlying cause of Malignant neoplasms (C00-C97) 1 515 7.3 755 4.4 2 2 7 0 6.0 Diabetes mellitus (E10-E14) 824 4.0 691 4.0 1 5 1 5 4.0 Cerebrovascular diseases (I60-I69) 548 2.6 665 3.9 1 213 3.2 Chronic lower respiratory diseases (J40–J47) 423 629 3.0 2.5 1 052 2.8 Heart failure (I50) 7 690 100.0 9 470 100.0 100.0 17 160 Reported as underlying cause 989 12.9 1 725 18.2 2 714 15.8 Reported in association with an underlying cause of Malignant neoplasms (C00–C97) 723 9.4 567 6.0 1 290 7 5 Ischaemic heart diseases (I20-I25) 2 920 38.0 3 429 36.2 6 349 37.0 Cerebrovascular diseases (I60-I69) 257 453 48 33 710 41 Chronic lower respiratory diseases (J40–J47) 612 8.0 478 5.0 1 090 6.4

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# 2.6 CAUSES OF DEATH, Associated Cause and Underlying Cause continued

	Males		Females.		Persons	
Multiple cause/underlying cause and ICD code	no.	%	no.	%	no.	%
•••••	• • • • • • •				• • • • • • • •	• • • • •
Cerebrovascular diseases (I60–I69)	8 680	100.0	11 347	100.0	20 027	100.0
Reported as underlying cause	4 894	56.4	7 372	65.0	12 266	61.2
Reported in association with an underlying cause of			=00		4 000	
Malignant neoplasms (C00–C97)	684	7.9	539	4.8	1 223	6.1
Diabetes mellitus (E10–E14)	314	3.6	331	2.9	645	3.2
Diseases of the nervous system (G00–G99)	149	1.7	186	1.6	335	1.7
Ischaemic heart diseases (I20–I25)	1 116	12.9	1 276	11.2	2 392	11.9
Diseases of arteries, arterioles and capillaries (I70-I79)	4 382	100.0	4 161	100.0	8 543	100.0
Reported as underlying cause	1 476	33.7	1 388	33.4	2 864	33.5
Reported in association with an underlying cause of						
Malignant neoplasms (C00–C97)	235	5.4	111	2.7	346	4.1
Diabetes mellitus (E10–E14)	147	3.4	145	3.5	292	3.4
Ischaemic heart diseases (I20–I25)	1 282	29.3	1 051	25.3	2 333	27.3
Cerebrovascular diseases (I60–I69)	605	13.8	849	20.4	1 454	17.0
Influenza and pneumonia (J10–J18)	8 881	100.0	8 842	100.0	17 723	100.0
Reported as underlying cause	765	8.6	1 133	12.8	1 898	10.7
Reported in association with an underlying cause of						
Malignant neoplasms (C00–C97)	1 961	22.1	1 163	13.2	3 124	17.6
Organic, including symptomatic, mental disorders (F00–F09)	364	4.1	580	6.6	944	5.3
Diseases of the nervous system (G00–G99)	685	7.7	693	7.8	1 378	7.8
Ischaemic heart diseases (I20–I25)	830	9.3	825	9.3	1 655	9.3
Heart failure (I50)	274	3.1	527	6.0	801	4.5
Cerebrovascular diseases (I60–I69)	943	10.6	1 154	13.1	2 097	11.8
Chronic lower respiratory diseases (J40–J47)	1 219	13.7	754	8.5	1 973	11.1
Chronic lower respiratory diseases (J40–J47)	8 538	100.0	5 375	100.0	13 913	100.0
Reported as underlying cause	3 609	42.3	2 487	46.3	6 096	43.8
Reported in association with an underlying cause of						
Malignant neoplasms (C00–C97)	1 413	16.5	628	11.7	2 041	14.7
Ischaemic heart diseases (I20–I25)	1 800	21.1	990	18.4	2 790	20.1
Cerebrovascular diseases (I60–I69)	260	3.0	220	4.1	480	3.5
Diseases of liver (K70–K77)	2 291	100.0	1 225	100.0	3 516	100.0
Reported as underlying cause	863	37.7	380	31.0	1 243	35.4
Reported in association with an underlying cause of						
Malignant neoplasms (C00–C97)	669	29.2	444	36.2	1 113	31.7
Ischaemic heart diseases (I20–I25)	173	7.6	47	3.8	220	6.3
Renal failure (N17–N19)	5 866	100.0	5 166	100.0	11 032	100.0
Reported as underlying cause	842	14.4	919	17.8	1 761	16.0
Reported in association with an underlying cause of						
Malignant neoplasms (C00–C97)	1 092	18.6	602	11.7	1 694	15.4
Diabetes mellitus (E10–E14)	305	5.2	307	5.9	612	5.5
Ischaemic heart diseases (I20-I25)	1 291	22.0	991	19.2	2 282	20.7
Heart failure (I50)	214	3.6	250	4.8	464	4.2
Cerebrovascular diseases (I60–I69)	233	4.0	232	4.5	465	4.2

# 2.7 NATURE OF INJURY, By External Cause

	ACCIDENTS						
Nature of injury or poisoning and ICD code	Transport accidents (V01–V99)	Accidental falls (W00–W19)	Accidental drowning and submersion (W65–W74)	Exposure to smoke, fire and flames (X00–X09)	Accidental poisonings (X40–X49)	Other	Tota
ture of injury or poisoning and ICD code    Tarisport   Accidental   drowning and   smoke, fire   subtenession   subtenession   subtenession   (W65-W74)   (W60-W39)   (W40-W39)   (W40-W3							
						%	9
						100.0	100.0
				_		11.4 1.0	19.3 2.7
			_	_	_	9.3	10.6
	10.7	11.1				0.0	10.
	8.5	5.7	0.9	_	_	5.6	5.3
Injuries to the hip and thigh (S70–S79)	0.7	6.5	0.4	_	_	20.8	4.5
, ,				_	_	20.3	4.4
					_	2.8	10.4
	1.0	_	_	53.2	_	0.8	1.:
	0.4	1 1	2.2		92.7	0.2	22.3
	0.4	1.1	2.2	_	03.1	0.2	22
	0.2	0.2	0.4	_	49.3	_	12.9
nonmedicinal as to source (T51-T65)	0.4	0.2	1.3	38.7	12.5	0.8	4.0
· · · · · · · · · · · · · · · · · · ·	0.1	_	_	4.8	1.5	_	0.5
•							
				1.6		16.2	8.0
· ·				_		10.0	2.3
Certain early complications of trauma (179)	1.9	0.9	_	3.2	0.3	13.1	3.8
	no.	no.	no.	no.	no.	no.	no
Total injuries	2 484	540	225	62	1 513	1 009	5 833
				• • • • • • • •	• • • • • • • •		
	F						
	%	%	%	%	%	%	%
Total injuries (S00-T98)	100.0	100.0	100.0	100.0		100.0	100.0
			2.4	_		4.8	15.3
			_	_	_	0.3	2.0
• • • • • • • • • • • • • • • • • • • •	15.3	4.4	1.2	_	_	3.4	6.6
	83	63	_	_	0.2	5.6	5.2
			_	_		38.5	14.
			_	_		38.1	14.3
Unspecified multiple injuries (T07)	23.6	0.9	_	_	_	0.6	8.0
Burns and corrosions (T20-T32)	0.7	_	_	51.3	_	0.5	1.3
	_	2.5	_	_	89.7	0.4	19.3
							7.
Poisoning by narcotics and		0.0			00.0		7.3
Poisoning by narcotics and psychodysleptics (hallucinogens) (T40)	_	0.9	_	_	33.8	0.1	
Poisoning by narcotics and psychodysleptics (hallucinogens) (T40) Toxic effects of substances chiefly	- 0.2		_ 1 2	41.0			
Poisoning by narcotics and psychodysleptics (hallucinogens) (T40) Toxic effects of substances chiefly nonmedicinal as to source (T51–T65)	0.2	0.9	1.2 —	41.0 5.1	7.8	0.1	2.4
Poisoning by narcotics and psychodysleptics (hallucinogens) (T40) Toxic effects of substances chiefly nonmedicinal as to source (T51–T65) Toxic effect of carbon monoxide (T58)	0.2 —		1.2 —	41.0 5.1			2.4
Poisoning by narcotics and psychodysleptics (hallucinogens) (T40) Toxic effects of substances chiefly nonmedicinal as to source (T51–T65)	0.2 — 0.9		1.2 — 91.5		7.8		2.4 0.2
Poisoning by narcotics and psychodysleptics (hallucinogens) (T40) Toxic effects of substances chiefly nonmedicinal as to source (T51–T65) Toxic effect of carbon monoxide (T58) Other and unspecified effects of external causes (T66–T78) Asphyxiation (T71)	_	0.3 —	_		7.8 0.8	0.2 —	2.4 0.2 4.3
Poisoning by narcotics and psychodysleptics (hallucinogens) (T40) Toxic effects of substances chiefly nonmedicinal as to source (T51–T65) Toxic effect of carbon monoxide (T58) Other and unspecified effects of external causes (T66–T78)	0.9	0.3 — 2.5	_		7.8 0.8 0.6	0.2 — 3.5	2.4 0.2 4.3 0.9
Poisoning by narcotics and psychodysleptics (hallucinogens) (T40) Toxic effects of substances chiefly nonmedicinal as to source (T51–T65) Toxic effect of carbon monoxide (T58) Other and unspecified effects of external causes (T66–T78) Asphyxiation (T71)	0.9 0.5	0.3 — 2.5 0.3	91.5 —	5.1 — —	7.8 0.8 0.6 0.3	0.2 — 3.5 1.9	2.4 0.2 4.3 0.9 7.8
Poisoning by narcotics and psychodysleptics (hallucinogens) (T40) Toxic effects of substances chiefly nonmedicinal as to source (T51–T65) Toxic effect of carbon monoxide (T58) Other and unspecified effects of external causes (T66–T78) Asphyxiation (T71)	0.9 0.5	0.3 — 2.5 0.3	91.5 —	5.1 — —	7.8 0.8 0.6 0.3	0.2 — 3.5 1.9	2.4 0.2 4.3 0.9

## 2.7 NATURE OF INJURY, By External Cause continued

	INTENTION	AL INJURY AN	ID OTHER		
	INTENTION	AL INJUNT AN	ID OTTILIN		
	Intentional				
	self-harm	Assault			External
Nature of injury or poisoning and ICD code	(X60-X84)	(X85-Y09)	Other	Total	causes
	MALES				
	%	%	%	%	%
Total injuries (S00–T98)	100.0	100.0	100.0	100.0	100.0
Injuries to the head (S00–S09)	<b>100.0</b> 13.0	<b>100.0</b> 35.8	<b>100.0</b> 3.5	<b>100.0</b> 14.4	17.6
Fracture of skull and facial bones (S02)	0.8	2.7	- -	0.9	2.1
Injuries to the thorax (S20–S29)	3.6	24.6	2.7	5.6	8.9
Injuries to the abdomen, lower back, lumbar					
spine and pelvis (S30–S39)	1.4	9.9	0.4	2.2	4.1
Injuries to the hip and thigh (S70–S79)	0.1	1.0	0.4	0.2	3.0
Fracture of femur (S72)	 2.5	_	0.4	0.1	2.9
Unspecified multiple injuries (T07) Burns and corrosions (T20–T32)	3.5 0.5	2.4 0.7	2.3	3.3 0.5	8.0 0.9
Poisoning by drugs, medicaments and biological	0.5	0.1		0.5	0.9
substances (T36–T50)	12.9	0.3	35.0	13.5	19.2
Poisoning by narcotics and psychodysleptics					
(hallucinogens) (T40)	4.2	0.3	16.3	4.8	10.1
Toxic effects of substances chiefly nonmedicinal					
as to source (T51–T65)	21.8	1.4	2.7	18.3	8.9
Toxic effect of carbon monoxide (T58) Other and unspecified effects of external	18.9	1.0	0.4	15.6	5.7
causes (T66–T78)	36.4	6.5	3.9	30.8	15.9
Asphyxiation (T71)	34.6	5.1	1.2	29.0	11.5
Certain early complications of trauma (T79)	0.4	0.7	1.6	0.5	2.7
		• • • • • • • • • •		• • • • • • • • •	• • • • • • •
	no.	no.	no.	no.	no.
Total injuries	2 509	293	257	3 059	8 892
• • • • • • • • • • • • • • • • • • • •					
	FEMALES				
	%	%	%	%	%
	70	70	70	70	70
Total injuries (S00–T98)	100.0	100.0	100.0	100.0	100.0
Injuries to the head (S00–S09)	3.5	27.7	0.7	6.5	13.1
Fracture of skull and facial bones (S02)	0.3	0.7	0.7	0.4	1.6
Injuries to the thorax (S20–S29)	2.8	19.9	2.1	5.1	6.2
Injuries to the abdomen, lower back, lumbar		- 0			
spine and pelvis (S30–S39) Injuries to the hip and thigh (S70–S79)	0.8	5.0	0.7	1.4	4.2
Fracture of femur (S72)	_	0.7	0.7 0.7	0.2 0.1	10.9 10.7
Unspecified multiple injuries (T07)	4.2	0.7	— —	3.1	6.7
Burns and corrosions (T20–T32)	1.8	2.8	2.1	2.0	1.3
Poisoning by drugs, medicaments and biological					
substances (T36-T50)	37.9	1.4	30.5	31.7	22.4
Poisoning by narcotics and psychodysleptics					
(hallucinogens) (T40)	7.9	0.7	10.6	7.3	7.3
Toxic effects of substances chiefly nonmedicinal as to source (T51–T65)	177	4.2	4.2	12.0	F 2
Toxic effect of carbon monoxide (T58)	17.7 13.2	4.3 2.1	4.3	13.9 9.8	5.3 2.6
Other and unspecified effects of external	10.2	۷.1	_	3.0	2.0
causes (T66–T78)	26.5	12.8	1.4	21.0	8.5
Asphyxiation (T71)	23.0	12.1	_	18.2	5.2
Certain early complications of trauma (T79)	0.1	1.4	0.7	0.4	5.9
	no.	no.	no.	no.	no.
Total injuries	740	4 4 4	4 4 4	1 000	2.000
Total injuries	718	141	141	1 000	3 989

# 2.7 NATURE OF INJURY, By External Cause continued

ACCIDENTS	
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7.00.22.110.						
Transport accidents (V01–V99)	Accidental falls (W00–W19)	Accidental drowning and submersion (W65–W74)	Exposure to smoke, fire and flames (X00–X09)	Accidental poisonings (X40–X49)	Other	Total
Р	ERSONS					
%	%	%	%	%	%	%
100.0	100.0	100.0	100.0	100.0	100.0	100.0
29.3	46.4	2.9	_	0.3	8.2	18.0
5.0	3.7	_	_	_	0.7	2.5
17.7	8.6	0.3	_	_	6.4	9.2
8.4	6.0	0.7	_	_	5.6	5.2
0.8	10.9	0.3	_	_	29.4	7.9
0.6	10.5	0.3	_	_	28.9	7.7
22.6	3.5	0.3	_	_	1.7	9.6
1.0	_	_	52.5	_	0.7	1.1
0.3	1.6	1.6	_	85.4	0.3	21.2
0.2	0.5	0.3	_	44.8	0.1	11.0
0.4	0.2	1.3	39.6	11.1	0.5	3.5
0.1	_	_	5.0	1.3	_	0.4
2.7	2.2	90.2	1.0	0.6	10.0	6.8
0.9	0.5	0.7	_	0.3	6.1	1.8
2.0	8.3	1.0	4.0	0.3	15.4	5.2
no.	no.	no.	no.	no.	no.	no.
3 455	856	307	101	2 143	1 960	8 822
	accidents (V01-V99)  P  %  100.0  29.3  5.0  17.7  8.4  0.8  0.6  22.6  1.0  0.3  0.2  0.4  0.1  2.7  0.9  2.0  no.	accidents (V01–V99)         falls (W00–W19)           PERSONS         %           100.0         100.0           29.3         46.4           5.0         3.7           17.7         8.6           8.4         6.0           0.8         10.9           0.6         10.5           22.6         3.5           1.0         —           0.3         1.6           0.2         0.5           0.4         0.2           0.1         —           2.7         2.2           0.9         0.5           2.0         8.3	Transport accidents (V01-V99)         Accidental falls (W00-W19)         drowning and submersion (W65-W74)           PERSONS           %         %         %           100.0         100.0         100.0           29.3         46.4         2.9           5.0         3.7         —           17.7         8.6         0.3           8.4         6.0         0.7           0.8         10.9         0.3           0.6         10.5         0.3           22.6         3.5         0.3           1.0         —         —           0.3         1.6         1.6           0.2         0.5         0.3           0.4         0.2         1.3           0.1         —         —           2.7         2.2         90.2           0.9         0.5         0.7           2.0         8.3         1.0	Transport accidents (VO1-V99)         Accidental falls falls submersion (W65-W74)         smoke, fire and flames (X00-X09)           PERSONS           %         %         %         %           100.0         100.0         100.0         100.0           29.3         46.4         2.9         —           5.0         3.7         —         —           17.7         8.6         0.3         —           8.4         6.0         0.7         —           0.8         10.9         0.3         —           0.6         10.5         0.3         —           22.6         3.5         0.3         —           1.0         —         —         52.5           0.3         1.6         1.6         —           0.2         0.5         0.3         —           0.4         0.2         1.3         39.6           0.1         —         5.0           2.7         2.2         90.2         1.0           0.9         0.5         0.7         —           2.0         8.3         1.0         4.0	Transport accidents (VO1-V99)         Accidental falls submersion (W65-W74)         smoke, fire and flames (X00-X09)         Accidental poisonings (X40-X49)           PERSONS           %         %         %         %           100.0         100.0         100.0         100.0         100.0           29.3         46.4         2.9         —         0.3           5.0         3.7         —         —         —           17.7         8.6         0.3         —         —           8.4         6.0         0.7         —         —           0.8         10.9         0.3         —         —           22.6         3.5         0.3         —         —           1.0         —         —         52.5         —           0.3         1.6         1.6         —         85.4           0.2         0.5         0.3         —         44.8           0.4         0.2         1.3         39.6         11.1           0.1         —         —         5.0         1.3           2.7         2.2         90.2         1.0         0.6           0.9         0.5         0.7	Transport accidents (V01-V99)         Accidental falls submersion (W00-W19)         smoke, fire and flames (X00-X09)         Accidental poisonings (X40-X49)         Other           PERSONS           %         %         %         %         %         %           100.0         100.0         100.0         100.0         100.0         100.0         100.0           29.3         46.4         2.9         —         0.3         8.2         5.0         3.7         —         —         0.7         17.7         8.6         0.3         —         —         0.7         —         6.4         4.4         6.0         0.7         —         —         5.6         6.4         4.4         6.0         0.7         —         —         5.6         6.4         6.2         6.4         6.2         7.2         7.2         7.2         7.2         8.5         6.2         7.2         7.2         7.2         7.2

# 2.7 NATURE OF INJURY, By External Cause continued

INTENTIONAL INJURY AND OTHER	
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Nature of injury or poisoning and ICD code	Intentional self-harm (X60–X84)	Assault (X85–Y09)	Other	Total	External causes
	PERSONS				
	%	%	%	%	%
Total injuries (S00–T98)	100.0	100.0	100.0	100.0	100.0
Injuries to the head (S00–S09)	10.9	33.2	2.5	12.4	16.2
Fracture of skull and facial bones (S02)	0.7	2.1	0.3	0.8	1.9
Injuries to the thorax (S20–S29)	3.4	23.0	2.5	5.4	8.0
Injuries to the abdomen, lower back, lumbar					
spine and pelvis (S30–S39)	1.3	8.3	0.5	2.0	4.2
Injuries to the hip and thigh (S70–S79)	0.1	0.9	0.5	0.2	5.5
Fracture of femur (S72)	_	_	0.5	0.1	5.3
Unspecified multiple injuries (T07)	3.7	1.8	1.5	3.3	7.6
Burns and corrosions (T20–T32)	0.8	1.4	0.8	0.9	1.0
Poisoning by drugs, medicaments and biological substances (T36–T50)	18.4	0.7	33.4	18.0	20.2
Poisoning by narcotics and psychodysleptics (hallucinogens) (T40)	5.0	0.5	14.3	5.4	9.3
Toxic effects of substances chiefly nonmedicinal					
as to source (T51–T65)	20.9	2.3	3.3	17.2	7.8
Toxic effect of carbon monoxide (T58)	17.6	1.4	0.3	14.2	4.7
Other and unspecified effects of external					
causes (T66–T78)	34.2	8.5	3.0	28.4	13.6
Asphyxiation (T71)	32.0	7.4	0.8	26.3	9.5
Certain early complications of trauma (T79)	0.3	0.9	1.3	0.5	3.7
			• • • • • • •		• • • • • • •
	no.	no.	no.	no.	no.
Total injuries	3 227	434	398	4 059	12 881

# SECTION 3 PERINATAL DEATHS ......

#### INTRODUCTION

Perinatal deaths comprise stillbirths (fetal deaths) and deaths of infants within the first 28 days of life (neonatal deaths). In Cause of Death publications from 1997, these deaths have included infants and fetuses weighing at least 400 grams or having a gestational age of 20 weeks. Previously, data relating to perinatal deaths were based on the World Health Organisation recommended definition which included infants and fetuses weighing at least 500 grams or having a gestational age of 22 weeks (Refer to Explanatory Notes, paragraphs 4–8 for further information on perinatal death statistics).

To assist the reader, this section includes summary data based on the 500 g/22 weeks definition (table 3.1). Further unpublished tables based on this definition are available from the ABS. All other tables and data are based on the 400 g/20 weeks definition.

### TRENDS IN PERINATAL DEATHS

In 1999, there were 2,133 perinatal deaths registered in Australia, a 2.1% increase on the number registered in 1998. The perinatal death rate was 8.5 deaths per 1,000 total relevant births (see Glossary, death rates for further information). Although this was slightly higher than the record low rate of 8.3 recorded for 1998, the overall perinatal rate during the last decade has exhibited a downward trend.

In 1999, there were 1,284 fetal and 849 neonatal deaths. The higher perinatal death rate in 1999 was due to an increase in neonatal deaths. However, since 1989 the neonatal death rate has fallen relatively more than the fetal death rate (4.5 to 3.4 deaths per 1,000 births) and 6.5 to 5.1 per 1,000 births respectively).

#### CAUSES OF PERINATAL DEATHS

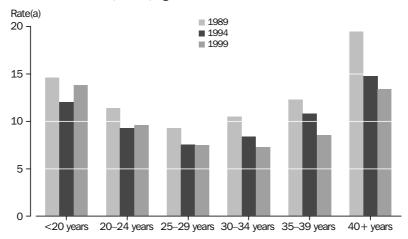
In 1999, over one third (35%) of fetal deaths were not allocated a specific cause of death. Medical certifiers are often unwilling or unable to provide an accurate cause of death without the assistance of an autopsy. The major conditions reported in fetal deaths registered in 1999 were intrauterine hypoxia (23% of total), congenital malformations, deformations and chromosomal abnormalities (16%) and disorders related to length of gestation and fetal growth (13%).

Congenital malformations, deformations and chromosomal abnormalities accounted for 35% of total neonatal deaths registered in 1999, while respiratory and cardiovascular disorders, specific to the perinatal period (19%) and disorders related to length of gestation and fetal growth (17%) were the other major contributors.

#### AGE OF MOTHER

In 1999, more than 86% of babies who died in the perinatal period were born to mothers aged 20–39 years and 7.6% to mothers under 20 years. Over the period 1989 to 1999, the perinatal death rate decreased by 23%. The extent of this decrease, however, has not been reflected across all age groups. The greatest reduction occurred for mothers aged 30 years and over with a decrease in each age group of at least 30% while the rate for mothers under 20 years decreased by less than 6%.

## PERINATAL DEATHS, Rates, Age of Mother



(a) Per 1,000 relevant births.

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

FETAL DEATHS..... NEONATAL DEATHS...... PERINATAL DEATHS..... Year Males Females Persons Males Males Females Persons Females Persons NUMBER 1989 1 451 1 058 769 682 595 463 1 364 1 145 2 509 1990 888 702 1 590 1 548 1 164 660 462 1 122 2 712 2 490 701 1 478 714 1 493 577 1 245 571 441 1 012 596 419 1 015 511 375 886 1991 777 1 375 1 133 1 179 1992 779 2 508 668 1993 886 2 131 1994 692 515 1 207 517 351 868 1 209 866 2 075 344 811 1 283 1 148 946 1995 681 602 467 2 094 446 313 1996 759 652 1 411 759 1 205 965 2 170 408 310 718 1 100 588 1 280 1997 692 898 1 998 1998 590 532 1 122 395 284 679 985 816 1 801 446 298 744 505 1 054 995 1999 549 803 1 798 RATE(b) 1989 5.9 5.5 5.8 4.6 3.8 4.2 10.6 9.3 9.9 5.5 5.6 3.6 4.3 3.5 3.9 1990 6.5 4.9 11.4 9.1 10.3 6.0 10.2 1991 5.9 5.7 4.3 9.1 9.6 1992 5.5 5.6 4.4 3.3 3.8 10.1 5.7 8.8 9.4 3.0 1993 5.0 4.5 4.8 3.8 3.4 8.8 7.5 8.2 4.1 4.7 4.8 5.0 5.3 5.5 4.8 5.1 
 3.9
 2.8
 3.4

 3.6
 2.8
 3.2

 3.4
 2.5
 3.0

 3.2
 2.5
 2.9
 1994 5.2 4.1 9.1 6.9 8.0 8.1 1995 5.2 8.7 7.5 1996 5.8 3. 2.9 9.2 7.8 8.5 8.5 7.3 1997 5.3 7.9 2.3 1998 4.6 3.1 7.7 2.7 6.7 7.2 4.3 4.1 3.5 2.5 1999 4.2 3.0 7.8 6.6 7.2

<sup>(</sup>a) See Explanatory Notes, paragraph 5 for further information.

<sup>(</sup>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 1 139 1989 1 632 862 770 633 506 1 495 1 276 2 771 511 1 217 1990 989 791 1 780 1 695 1 302 706 2 997 790 1 658 812 1 701 674 1 439 616 481 1 097 664 466 1 130 563 409 972 1 484 1 271 **2 755** 1991 868 1992 889 1 553 1 278 2 831 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 1 101 707 1 319 1995 805 514 2 420 370 1996 768 1 668 509 879 1 409 1 138 2 547 805 1997 687 1 516 443 362 1 272 1 049 829 2 321 1998 707 629 1 336 435 319 754 1 142 948 2 090 1 142 948 1 192 941 339 1 284 510 849 1999 682 602 2 133 RATE(b) 4.1 4.5 4.0 4.6 3.8 4.3 6.7 6.3 6.5 7.3 6.2 6.7 11.6 1989 4.9 10.4 11.0 12.4 11.2 6.2 6.3 1990 5.2 10.2 7.3 6.4 6.7 11.3 3.8 1991 6.5 4.7 10.1 10.6 6.3 6.4 1992 3.6 4.3 6.5 4.9 11.4 9.9 10.7 1993 5.7 5.3 5.5 4.2 3.2 3.7 9.9 8.5 9.2 6.0 4.9 5.4 6.1 5.6 5.9 6.8 6.2 6.5 6.4 5.6 6.0 4.2 3.1 3.7 3.9 3.2 3.5 3.9 3.0 3.5 3.4 3.0 3.2 1994 10.2 8.0 9.1 8.8 1995 10.0 9.4 3.5 3.2 1996 10.7 9.2 10.0 1997 6.4 5.6 6.0 3.4 3.0 9.8 8.5 9.2 3.4 1998 5.1 2.6 8.9 5.5 5.3 3.0 7.8 8.3 4.0 2.8 3.4 9.3 1999 5.3 4.9 5.1 7.7 8.5

<sup>(</sup>a) See Explanatory Notes, paragraph 4 for further information.

<sup>(</sup>b) Rates are per 1.000 total relevant births. See Glossary for further information.

# **3.3** PERINATAL DEATHS(a), By State or Territory of Usual Residence of Mother

Year	NSW	Vic.	Old	SA	WA	Tas.	NT	ACT	Aust.
rear	NSW	VIC.	Qiu	SA	WA	ias.	INI	ACI	Aust.
• • • • • • • • •		• • • • • • • •	• • • • • • •	NUMBER		• • • • • • • •		• • • • • • •	• • • • • •
				NONDLI	_				
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
1999	705	543	385	119	208	65	58	50	2 133
				RATE(b)					
				. ,					
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	16.9	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	8.5	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
1999	8.1	9.2	8.2	6.6	8.3	10.7	16.1	11.7	8.5

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

<sup>(</sup>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 (VEARS)

	AGE OF MO	THER (YEA	RS)					
Year	Under 20	20–24	25–29	30–34	35–39	40 and over	Not stated	Total
• • • • • • • • • •	• • • • • • • • •	• • • • • • • •	N	UMBER	• • • • • • •		• • • • • • • • •	• • • • • •
1989	210	593	899	687	261	61	60	2 771
1990	233	610	977	771	303	71	32	2 997
1991	226	570	831	739	272	76	41	2 755
1992	201	591	843	744	302	75	r75	2 831
1993	168	488	718	627	281	56	r73	2 411
1994	155	461	651	651	311	68	64	2 361
1995	181	487	670	614	289	67	112	2 420
1996	177	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
1999	163	374	598	566	307	85	40	2 133
• • • • • • • • • •	• • • • • • • • •	• • • • • • •			• • • • • • •	• • • • • • • •	• • • • • • • • •	• • • • • •
			К	ATE(b)				
1989	14.6	11.4	9.3	10.5	12.3	19.5		11.0
1990	15.3	11.4	10.0	10.9	13.2	20.0		11.3
1991	15.2	11.0	9.0	10.3	11.3	20.8		10.6
1992	14.1	11.1	9.2	9.8	11.6	18.0		10.7
1993	12.7	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	14.2	10.2	8.0	7.9	9.5	13.4		9.4
1996	14.0	10.9	8.4	8.9	9.9	17.3		10.0
1997	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	12.6		8.3
1999	13.8	9.6	7.5	7.3	8.6	13.4		8.5

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

<sup>(</sup>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		NATAL HS	PERIN DEATH	IATAL HS
Cause of death and ICD code	Males	Females	Males	Females	Males	Female
TOTAL		• • • • • • • •				
All causes	682	602	510	339	1 192	94:
		• • • • • • • •				
MAIN CONDITION IN	FETUS/INF	ANT				
Certain conditions originating in the perinatal period (P00–P96)	566	492	310	200	876	69
Disorders related to length of gestation and fetal growth (P05–P08)  Extremely low birth weight (P07.0)	84 32	82 28	83 75	64 60	167 107	14
Respiratory and cardiovascular disorders specific to the perinatal						
period (P20–P29)	159	156	103	61 7	262	21
Intrauterine hypoxia (P20) Birth asphyxia (P21)	154 —	147	7 17	10	161 17	15- 1-
Cardiovascular disorders originating in the perinatal period (P29)	1	4	16	7	17	1:
Infections specific to the perinatal period (P35–P39) Haemorrhagic and haematological disorders of fetus	6	15	25	18	31	3:
and newborn (P50–P61)	14	13	48	25	62	38
Intracranial nontraumatic haemorrhage of fetus						
and newborn (P52)	1	1	41	18	42	19
Other disorders originating in the perinatal period (P90–P96)	283	214	30	16	313	230
Fetal death of unspecified cause (P95)  Condition originating in the perinatal period, unspecified (P96.9)	120 133	88 110	— 5	_ 8	120 138	88 118
Congenital malformations, deformations and chromosomal abnormalities (Q00–Q99)						
Congenital malformations of the nervous system (Q00–Q07)	113 31	97 24	178 25	116 15	291 56	213 39
Anencephaly and similar malformations (Q00)	3	7	6	2	9	9
Congenital hydrocephalus (Q03)	11	6	6	5	17	13
Spina bifida (Q05)	5	6	_	1	5	-
Congenital malformations of the circulatory system (Q20–Q28)	22	8	51	33	73	4:
Congenital malformations of the heart (Q20–Q24) Congenital malformations of aortic and mitral valves (Q23)	19 6	7 3	45 20	25 9	64 26	32 12
Congenital malformations of lung (Q33)	2	1	24	17	26	18
Congenital malformations of the urinary system (Q60–Q64)	9	5	13	1	22	(
Congenital malformations and deformations of the musculoskeletal						
system (Q65–Q79)	12	14	24	18	36	32
Congenital diaphragmatic hernia (Q79.0)  Down's syndrome (Q90)	 14	1 13	13 9	8 5	13 23	18
Edwards' syndrome and Patau's syndrome (Q91)	8	8	17	10	25 25	18
MAIN CONDITION	N MOTHE	R				
Maternal conditions that may be unrelated to present pregnancy (P00)	106	84	37	23	143	10
Maternal hypertensive disorders (P00.0)	30	25	17	7	47	32
Maternal complications of pregnancy (P01) Incompetent cervix (P01.0)	66	46 9	182 17	113 8	248 24	159 1
Premature rupture of membranes (P01.1)	7 8	5	23	18	31	23
Multiple pregnancy (P01.5)	22	17	55	26	77	43
Complications of placenta, cord and membranes (PO2)	250	247	99	62	349	309
Placenta praevia and other forms of placental separation and haemorrhage (P02.0–P02.1)	96	80	47	27	143	10
Other and unspecified morphological and functional						
abnormalities of placenta (P02.2)	44	46	2	3	46	49
Prolapsed cord (P02.4) Other compression of umbilical cord (P02.5)	9	10 47	7	5	16	1
Other compression of umbilical cord (PO2.5)  Chorioamnionitis (PO2.7)	50 20	47 28	3 26	 24	53 46	41 52
Complications of labour and delivery (PO3)	64	47	25	12	89	59
Breech delivery and extraction (P03.0)	1	3	3	_	4	;
Noxious influences transmitted via placenta or breast milk (PO4)	7	2	2	1	9	3
No maternal condition reported	189	176	165	128	354	304

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

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3.6	PERINATAL DEATHS(a), By Birthweight	

	• • • • • •		• • • • • •		• • • • •		• • • •	
	BIRTHWEIGHT (GRAMS)							
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	312	616	358	394	316	54	2 133	
			• • • • • •		• • • • •			
MAIN CONDITION IN FE	ETUS/INF	ANT						
Certain conditions originating in the perinatal period (P00–P96)	231	483	253	278	227	43	1 568	
Disorders related to length of gestation and fetal growth (P05–P08)  Extremely low birth weight (P07.0)	93 83	136 111	36 1	27 —	7	6	313 195	
Respiratory and cardiovascular disorders specific to the perinatal	00	111	_	_		_	195	
period (P20-P29)	41	126	80	99	105	13	479	
Intrauterine hypoxia (P20)	22	50	56	80	88	9	315	
Birth asphyxia (P21) Cardiovascular disorders originating in the perinatal period (P29)	2 2	8 8	4 7	6 7	7 2	_ 1	27 28	
Infections specific to the perinatal period (P35–P39)	7	36	11	6	4	_	64	
Haemorrhagic and haematological disorders of fetus								
and newborn (P50–P61) Intracranial nontraumatic haemorrhage of fetus	10	54	12	12	6	3	100	
and newborn (P52)	5	42	5	3	2	2	61	
Other disorders originating in the perinatal period (P90–P96)	80	115	97	122	92	14	543	
Fetal death of unspecified cause (P95)	22	42	37	52	37	7	208	
Condition originating in the perinatal period, unspecified (P96.9)  Congenital malformations, deformations and chromosomal	21	69	53	61	39	5	256	
abnormalities (Q00–Q99)	80	125	100	94	68	10	504	
Congenital malformations of the nervous system (Q00–Q07)	19	27	24	11	5	1	95	
Anencephaly and similar malformations (Q00)	2	_	8	2	2	_	18	
Congenital hydrocephalus (Q03) Spina bifida (Q05)	7 4	8 5	8 1	1 2	_	1	28 12	
Congenital malformations of the circulatory system (Q20–Q28)	4 14	5 18	9	29	32	9	114	
Congenital malformations of the heart (Q20–Q24)	13	13	7	26	27	7	96	
Congenital malformations of aortic and mitral valves (Q23)	5	4	1	8	15	3	38	
Congenital malformations of lung (Q33)  Congenital malformations of the urinary system (Q60–Q64)	7	15 6	10 6	13 5	6 3	_	44 28	
Congenital malformations and deformations of the musculoskeletal	,	0	O	3	3		20	
system (Q65–Q79)	9	9	10	17	18	_	68	
Congenital diaphragmatic hernia (Q79.0)	_	_	1	6	14	_	22	
Down's syndrome (Q90) Edwards' syndrome and Patau's syndrome (Q91)	13 4	20 6	2 23	4 7	1 1	_	41 43	
cawards syndrome and radius syndrome (QSE)	•	_			_			
MAIN CONDITION IN			• • • • • •		• • • • •	• • • • • •	• • • •	
Maternal conditions that may be unrelated to present pregnancy (P00)	68	63	41	36	30	5	250	
Maternal hypertensive disorders (P00.0)	15	25	24	9	5	1	79	
Maternal complications of pregnancy (P01)	78	200	76	31	9	_	407	
Incompetent cervix (P01.0) Premature rupture of membranes (P01.1)	19 8	15 29	1 11	1 4	_	_	41 54	
Multiple pregnancy (P01.5)	14	57	30	12	3	_	120	
Complications of placenta, cord and membranes (P02)	85	213	111	123	93	13	658	
Placenta praevia and other forms of placental separation and haemorrhage (P02.0–P02.1)	36	88	51	40	24	4	250	
Other and unspecified morphological and functional	0	0.0	0.4	00	4.0	0	0.5	
abnormalities of placenta (P02.2) Prolapsed cord (P02.4)	3 2	26 14	24 1	26 3	12 9	3	95 31	
Other compression of umbilical cord (P02.5)	4	11	14	28	32	 5	100	
Chorioamnionitis (P02.7)	32	46	7	5	7	1	98	
Complications of labour and delivery (P03)	44	53	8	13	10	8	148	
Breech delivery and extraction (P03.0)  Noxious influences transmitted via placenta or breast milk (P04)	_	2	_ 3	4 3	1	_	7 12	
No maternal condition reported	 37	3 84	3 119	3 188	3 171	 28	658	

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

<sup>(</sup>b) Including deaths of 'birthweight not stated'.

# **3.7** PERINATAL DEATHS(a), By Period of Gestation

	PERIOD OF GESTATION (COMPLETED WEEKS)							
Cause of death and ICD code	Under 22	22–27	28–31	32–36	37–41	42 and over	Total(b)	
TOT		• • • • •	• • • • • •	• • • • • •	• • • • • •	• • • • •	• • • • •	
All causes	196	708	219	355	583	13	2 133	
MAIN CONDITION			• • • • • •	• • • • •	• • • • • •	• • • • •	• • • •	
MAIN CONDITION I	N FEIUS/II	NFANI						
Certain conditions originating in the perinatal period (P00–P96)	123	568	167	248	414	10	1 568	
Disorders related to length of gestation and fetal growth (P05–P08) Extremely low birth weight (P07.0)	56 52	161 138	18 2	29	41	4	313 195	
Respiratory and cardiovascular disorders specific to the perinatal	52	136	2	_	_	_	193	
period (P20–P29)	18	150	45	95	163	1	479	
Intrauterine hypoxia (P20)	10	59	29	83	130	1	315	
Birth asphyxia (P21)	1	9	4	3	9	_	27	
Cardiovascular disorders originating in the perinatal period (P29)	1	10	3	6	8	_	28	
Infections specific to the perinatal period (P35–P39) Haemorrhagic and haematological disorders of fetus and newborn (P50–P61)	4	38	10	4	7	1	64	
Intracranial nontraumatic haemorrhage of fetus	2	60	11	8	16	_	100	
and newborn (P52)	_	46	7	1	6	_	61	
Other disorders originating in the perinatal period (P90–P96)	41	142	67	99	172	4	543	
Fetal death of unspecified cause (P95)	16	44	29	40	72	1	208	
Condition originating in the perinatal period, unspecified (P96.9)	13	67	34	52	77	2	256	
Congenital malformations, deformations and chromosomal	70	400	40	400	400	0	504	
abnormalities (Q00–Q99) Congenital malformations of the nervous system (Q00–Q07)	72 20	130 30	<i>4</i> 8 10	100 18	136 11	3 1	50 <i>4</i> 95	
Anencephaly and similar malformations (Q00)	3	30 1	10	18	5	1	95 18	
Congenital hydrocephalus (Q03)	7	11	5	2	_	_	28	
Spina bifida (Q05)	3	6	1	1	1	_	12	
Congenital malformations of the circulatory system (Q20–Q28)	7	21	8	13	57	1	114	
Congenital malformations of the heart (Q20–Q24)	7	16	7	9	50	1	96	
Congenital malformations of aortic and mitral valves (Q23)	3	5	3	2	22	1	38	
Congenital malformations of lung (Q33)  Congenital malformations of the urinary system (Q60–Q64)	9	13 5	6 2	12 6	12 6	_	44 28	
Congenital malformations of the unitary system (Q60–Q64)  Congenital malformations and deformations of the musculoskeletal system (Q65–Q79)		11			24	1		
Congenital diaphragmatic hernia (Q79.0)	8		8 2	16 2	24 17	1	68 22	
Down's syndrome (Q90)	15	17	1	5	3	_	41	
Edwards' syndrome and Patau's syndrome (Q91)	1	9	5	14	14	_	43	
MAIN CONDITIO	N IN MOTH	HER						
Maternal conditions that may be unrelated to present pregnancy (P00)	24	101	34	28	57	2	250	
Maternal hypertensive disorders (P00.0)	2	32	17	11	16	_	79	
Maternal complications of pregnancy (P01)	50	234	39	48	27	_	407	
Incompetent cervix (P01.0) Premature rupture of membranes (P01.1)	15 7	22 34	— 6	2 4	_ 1		41 54	
Multiple pregnancy (P01.5)	9	60	14	20	16		120	
Complications of placenta, cord and membranes (PO2)	53	227	67	122	176	2	658	
Placenta praevia and other forms of placental separation and haemorrhage (P02.0–P02.1)	27	102	27	53	39	_	250	
Other and unspecified morphological and functional								
abnormalities of placenta (P02.2)	1	15	14	29	35	1	95	
Prolapsed cord (P02.4)	2	15	1	1	12	_	31	
Other compression of umbilical cord (P02.5) Chorioamnionitis (P02.7)	2 20	9 57	8 7	20 2	56 11	1	100 98	
Chorloamhionius (PO2.7)  Complications of labour and delivery (PO3)	20 42	63	7 5	2 10	23	1	98 148	
Breech delivery and extraction (P03.0)	-	1	_	1	4	_	7	
Noxious influences transmitted via placenta or breast milk (P04)	1	1	_	4	4	1	12	
No maternal condition reported	26	82	74	143	296	7	658	
		• • • • •		• • • • •				

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

<sup>(</sup>b) Including deaths of 'weeks not stated'.

# **3.8** PERINATAL DEATHS(a) by State or Territory of Usual Residence

	NSW		VIC		QLD		SA	
Particulars	Males	Females	Males	Females	Males	Females	Males	Females
			L DEATHS					• • • • •
Weight at delivery (grams) (b)	204	181	188	155	116	125	50	31
400–999	80	69	82	59	51	45	22	16
1,000–2,999	83	76	66	65	37	56	19	8
3,000 or more	41	35	30	25	22	14	9	7
Period of gestation (weeks) (b)	204	181	188	155	116	125	50	31
Less than 28	73	63	81	59	49	46	19	13
28–41	128	113	105	94	64	75	31	17
42 or more	_	1	2	1	1	2	_	_
Age of mother (years) (b)	204	181	188	155	116	125	50	31
Less than 20	14	11	15	5	11	12	8	2
20–29	95	83	81	65	51	53	17	10
30–39 40 or more	84 11	77 10	85 4	75 8	51 2	56 1	23 2	17 2
	• • • • • • • •		TAL DEATH					• • • • •
Are at death	400							4.
Age at death  Less than 1 day	<b>198</b> 99	<b>122</b> 67	<b>111</b> 58	<b>89</b> 47	<b>90</b> 48	<b>54</b> 26	<b>25</b> 17	<b>1</b> 3
1 day to under 1 week	56	29	29	22	27	11	4	2
1 week to under 4 weeks	43	26	24	20	15	17	4	5
Weight at delivery (grams) (b)	198	122	111	89	90	54	25	13
400-999	99	55	58	42	42	28	14	5
1,000–2,999 3,000 or more	57 39	47 19	32 17	28 17	32 14	15 11	5 6	2
,								
Period of gestation (weeks) (b)	198	122	111	89	90	54	25	13
Less than 28 28–41	99 93	55 62	54 54	42 47	42 47	30 22	15 10	5
42 or more	93	—	2	<del>4</del> 1	41 —	1	_	_
0								
Age of mother (years) (b)	198	122	111	89	90	54	25	13
Less than 20	14	8	4	2	8	3	3	1
20–29 30–39	98 76	53 49	50 54	42 44	42 33	29 10	13 8	7
40 or more	8	10	3	1	33 6	19 2	1	2
• • • • • • • • • • • • • • • • • • • •								
		PERINA	TAL DEATH	IS				
Age at death	198	122	111	89	90	54	25	13
Less than 1 day	99	67	58	47	48	26	17	6
1 day to under 1 week 1 week to under 4 weeks	56 43	29 26	29 24	22 20	27 15	11 17	4 4	2
1 week to under 4 weeks	43	26	24	20	15	17	4	5
Weight at delivery (grams) (b)	402	303	299	244	206	179	75	44
400–999	179	124	140	101	93	73	36	21
1,000–2,999	140	123	98	93	69	71	24	12
3,000 or more	80	54	47	42	36	25	15	11
Period of gestation (weeks) (b)	402	303	299	244	206	179	75	44
Less than 28	172	118	135	101	91	76	34	18
28–41	221	175	159	141	111	97	41	23
42 or more	1	1	4	1	1	3	_	_
Age of mother (years) (b)	402	303	299	244	206	179	75	44
Less than 20	28	19	19	7	19	15	11	3
20–29	193	136	131	107	93	82	30	17
30–39	160	126	139	119	84	75	31	20
40 or more	19	20	7	9	8	3	3	

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

<sup>(</sup>b) Not stated is included in total.

# 3.8 PERINATAL DEATHS(a) by State or Territory of Usual Residence continued

	WA		TAS		NT		ACT	
Particulars	Males	Females	Males	Females	Males	Females	Males	Females
			L DEATHS	• • • • • • • •		• • • • • • • •		• • • • •
Weight at delivery (grams) (b)	71	66	17	18	19	12	17	14
400–999	37	28	7	2	7	8	7	8
1,000–2,999	20	29	5	5	7	1	6	2
3,000 or more	13	9	1	<del></del>	5	1	4	4
Period of gestation (weeks) (b)	71	66	17	18	19	12	17	14
Less than 28	33	25	9	5	4	8	5	6
28–41	35	37	5	12	14	4	9	5
42 or more	1	1	_	_	_	_	_	_
Age of mother (years) (b)	71	66	17	18	19	12	17	14
Less than 20	4	7	2	_	3	1	_	_
20–29	37	36	7	7	10	5	9	4
30–39	26	22	4	2	4	6	6	8
40 or more	3	1	_	_	2	_	2	2
	• • • • • • • •		TAL DEATH		• • • • • •	• • • • • • • •		• • • • •
Age at death	43	28	16	14	16	11	11	8
Less than 1 day	17	16	6	4	8	5	4	4
1 day to under 1 week 1 week to under 4 weeks	15	6	6 4	3 7	3 5	2 4	3 4	1
I week to under 4 weeks	11	6	4	1	5	4	4	3
Weight at delivery (grams) (b)	43	28	16	14	16	11	11	8
400–999	14	12	6	3	9	4	7	2
1,000–2,999	17	8	4	2	4	6	3	3
3,000 or more	12	7	1	_	1	_	1	1
Period of gestation (weeks) (b)	43	28	16	14	16	11	11	ε
Less than 28	15	12	7	6	9	5	7	3
28-41	27	16	7	1	5	5	3	4
42 or more	_	_	_	_	_	_	_	_
Age of mother (years) (b)	43	28	16	14	16	11	11	8
Less than 20	6	3	6	1	8	1	_	_
20–29	22	15	3	6	7	7	4	4
30–39	14	9	5	_	1	2	7	3
40 or more	_	1	_	_	_	1	_	_
	• • • • • • • •					• • • • • • • •		• • • • •
Navada da alb			TAL DEATH					_
Age at death	43	28	16	14	16	11	11	8
Less than 1 day 1 day to under 1 week	17 15	16 6	6 6	4 3	8 3	5 2	4	1
1 week to under 4 weeks	11	6	4	3 7	5 5	4	4	3
Weight at delivery (grams) (b)	114	94	33	32	35	23	28	22
400–999	51	40	13	5	16	12	14	10
1,000–2,999 3,000 or more	37 25	37 16	9 2	7 —	11 6	7 1	9 5	5
3,000 of more	25	16	2	_	0	1	5	٠
Period of gestation (weeks) (b)	114	94	33	32	35	23	28	22
Less than 28	48	37	16	11	13	13	12	9
28–41	62 1	53 1	12	13	19	9	12	g
42 or more	1	1	_	_	_	_	_	_
Age of mother (years) (b)	114	94	33	32	35	23	28	22
Less than 20	10	10	8	1	11	2	_	_
20–29	59	51	10	13	17	12	13	8
30–39	40	31	9	2	5	8	13	11
40 or more	3	2	_	_	2	1	2	2

<sup>(</sup>a) Based on 400 grams/20 weeks definition. See Explanatory Notes, paragraph 4 for further (b) Not Stated is included in total.

## 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** These statistics include all deaths registered in Australia during the registration year, irrespective of the usual residence of the deceased. Deaths of Australian residents which took place outside Australia are not included in the statistics.

### Perinatal death statistics

- **4** The perinatal death statistics contained in this publication, unless otherwise stated, include all fetuses and infants delivered weighing at least 400 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 table A3.4 shows 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 tenth revision of the International Classification of Diseases (ICD-10) was adopted for Australian use for deaths registered from 1 January 1999. However, to identify changes between the ninth and tenth revisions, deaths for 1997 and 1998 have been coded to both revisions. In this publication, underlying cause data for 1999 only, has been coded to the tenth revision while previous years' data is coded to the ninth revision. All multiple cause data in this publication is coded to the tenth revision (see Glossary for definition of underlying and multiple cause). For underlying cause of death, accidental and violent deaths are classified according to the external cause, that is, to the circumstances of the accident or violence which produced the fatal injury rather than to the nature of the injury.
- **12** The extensive nature of the ICD enables classification of causes of death at various levels of detail. For the purpose of this publication, two summary classifications are used. They are:
- the ICD at the Class level (with further disaggregation for major causes of death);
- main Causes of Death for age groups.
- **13** Tables 1.3, 1.4, 2.2, 2.3 and 2.4 present statistics at the ICD Class level with further disaggregation for mjaor causes of death. Background on this summary classification is given in volume 1 of the ICD.

#### CAUSE OF DEATH CLASSIFICATION USED continued

- **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 Chapter level, with further disaggregation below the Chapter level where appropriate.
- **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** ICD-10 allows for the coding of AIDS and AIDS-related deaths. As ICD-9 did 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 to 1998, all AIDS-related deaths (i.e. deaths where AIDS was mentioned in any place on the death certificate) were coded to HIV infection (042–044). For all years where ICD-9 has been used, all AIDS-related deaths in table 1.3 have been reported as ICD-9 CM HIV infection (042–044).
- **17** All data in this publication refer to AIDS-related deaths rather than only those deaths where AIDS is the underlying cause. Hence in table 1.3, AIDS-related deaths, differ from the data provided for all other causes in that table since for all other causes, only data for underlying cause are given.

### Perinatal statistics

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

#### DATA QUALITY

- **19** 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.
- **20** 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

**21** This publication includes Indigenous deaths data for all States and Territories with the exception of Tasmania and the Australian Capital Territory, where there are very small numbers of Indigenous deaths. While all States and Territories have provision for the identification of Indigenous deaths on their death registration forms, the coverage of Indigenous deaths varies greatly from State to State. Detailed information on coverage of indigenous deaths is provided in Appendix 6.

## **POPULATIONS**

**22** Appendix 2 provides details of the number of live births registered and the estimated age 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**

**23** 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**

24 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

Suicides, Australia, 1921–1998 (Cat. no. 3309.0) — issued irregularly

Trends in Mortality by Causes of Death in Australia,

the States and Territories during 1971–1992 and in Statistical Divisions and

Sub-divisions during 1991–1992 (Cat. no. 3313.0)

— issued irregularly — discontinued

Women's Health, 1994 (Cat. no. 4365.0) — issued irregularly — discontinued

#### UNPUBLISHED DATA

- **25** 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.
- **26** 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.
- **27** For more information about related unpublished statistics or data concepts contact Peter Burke on 1800 620 963.

## EFFECTS OF ROUNDING

**28** 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 1964–1967
- ICD-8 1968–1978
- ICD-9 1979–1998
- ICD-10 1999

Documentation is available detailing the relationship between the various revisions of ICD. 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
  - **•** 1985–1990
    - Females aged 15–59 years only
- Sex
- Age
  - In completed days under one week
  - In completed days under one month
  - In completed months under one year
  - In completed years other ages
- Date of death
- Country of birth
- Duration of residence in Australia (where not Australian born)
- Marital status
- Number of issue
- Indigenous status
- Post-mortem indicator (not available for all States)
- Drowning indicator (from 1992)
- AIDS indicator (where AIDS is mentioned on the death certificate, whether the underlying cause or not) (up to 1997)
- Certifier of cause of death (doctor or coroner)
- Cancer indicator (where cancer is mentioned on the death certificate, whether the underlying cause or not) (up to 1997)

# **A1.1** STANDARD UNDERLYING CAUSE OF DEATH TABLES

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

••••••

# APPENDIX 2 DATA USED IN CALCULATING RATES ..........

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	1999
• • • • • •	• • • • • • • • •	• • • • • • • • •	• • • • • • •
Males Females <b>Persons</b>		128 510 122 343 <b>250 853</b>	127 357 121 513 <b>248 870</b>

<sup>(</sup>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.(b)
• • • • • • • • • •	• • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • •	• • • • • •	• • • • • •
Males Females <b>Persons</b>	44 438 42 346 <b>86 784</b>	30 101 28 774 <b>58 875</b>	23 919 22 584 <b>46 503</b>	9 184 8 774 <b>17 958</b>	12 686 12 163 <b>24 849</b>	3 056 2 976 <b>6 032</b>	1 823 1 753 <b>3 576</b>	2 129 2 124 <b>4 253</b>	127 357 121 513 <b>248 870</b>

<sup>(</sup>a) Used to calculate infant death rates.

## A2.3 AGES OF ESTIMATED RESIDENT POPULATION AT 30 JUNE

A2.3	AGES OF	ESTIMATE	D KESIDEN	• • • • • • • •	ON AT SU.	JUINE	• • • • • • •	• • • • • • • •	• • • • • •	• • • • • • •	• • • • • • •
	AGE	GROUPS(YI	EARS)								
Year	Under 1	1–14	15–24	25–34	35–44	45–54	55–64	65–74	75–84	85 and over	All ages
MALES											
1989 1999	127 847 126 635	1 782 512 1 884 474	1 399 357 1 378 722	1 399 016 1 447 687	1 268 740 1 460 891	888 220 1 277 628	735 885 845 044	519 169 621 531	226 863 323 697	39 980 74 189	8 387 589 9 440 498
			• • • • • • •		FE	MALES	• • • • • • •	• • • • • • • •	• • • • • •	• • • • • • •	• • • • • • •
1989 1999	121 711 120 059	1 692 848 1 790 921	1 349 711 1 316 396	1 383 752 1 444 118	1 241 632 1 466 414	845 097 1 256 014	731 593 829 803	608 685 675 403	348 590 460 358	103 208 166 804	8 426 827 9 526 290
PERSONS											
1989 1999	249 558 246 694	3 475 360 3 675 395	2 749 068 2 695 118	2 782 768 2 891 805	2 510 372 2 927 305	1 733 317 2 533 642	1 467 478 1 674 847	1 127 854 1 296 934	575 453 784 055		16 814 416 18 966 788
		• • • • • • • •		• • • • • • • •							• • • • • • • •

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

# 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	44 434	30 101	23 916	9 184	12 683	3 056	1 823	2 128	127 346
	Females	42 338	28 774	22 579	8 771	12 159	2 976	1 753	2 124	121 493
Stillbirths(c)	Males	204	188	116	50	71	17	19	17	682
	Females	181	155	125	31	66	18	12	14	602
Total	Males	44 638	30 289	24 032	9 234	12 754	3 073	1 842	2 145	128 028
	Females	42 519	28 929	22 704	8 802	12 225	2 994	1 765	2 138	122 095
	Persons	87 157	59 218	46 736	18 036	24 979	6 067	3 607	4 283	250 123

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

AGE OF MOTHER (YEARS).....

		Under 20	20–24	25–29	30–34	35–39	40 and over	Not stated	Total
Live births	Males	5 963	19 897	40 801	39 209	18 151	3 265	60	127 346
	Females	5 787	19 041	38 747	37 557	17 305	3 017	39	121 493
Stillbirths(b)	Males	57	110	197	182	101	26	9	682
	Females	38	95	168	179	84	24	14	602
Total	Males	6 020	20 007	40 998	39 391	18 252	3 291	69	128 028
	Females	5 825	19 136	38 915	37 736	17 389	3 041	53	122 095
	Persons	11 845	39 143	79 913	77 127	35 641	6 332	122	250 123

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

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

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

A3.2 ADJUSTED BIRTHS(a), By Sex of Child and Age of Mother

<sup>(</sup>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		STIL	STILLBIRTHS(b)				TOTAL		
	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	
1999	127 346	121 493	248 839	682	602	1 284	128 028	122 095	250 123	

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

## 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 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 Sex

	LIVE BIRTHS		STILL	STILLBIRTHS(b)			TOTAL		
	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
1999	127 297	121 456	248 753	549	505	1 054	127 846	121 961	249 807

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

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

<sup>(</sup>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. The underlying cause is selected so that preventive strategies can be instituted to address that particular cause. Since its adoption in 1948, statistics based on the underlying cause concept have served the purpose of summarising international cause-specific mortality statistics into a single index, which has been used to assess trends in causes of death.

The current leading causes of death are now 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. Since the introduction of multiple cause coding, data suggests 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, ABS began with 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 ICD 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

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

**A5.1** MAJOR COMPARABILITY CHANGES

Years	Coding method	ICD revision	Comments
• • • • • • • • •		• • • • • • • • • • •	• • • • • • • • • • • • • • • • • • •
1979–1996	Manual	ICD-9	Prior to 1979, manual coding under relevant ICD revisions
1997–1998	Automated	ICD-9 and 10	Comparability factors between manual and automated coding are available, based on a sample of dual coded 1997 data.
1999	Automated	ICD-10	Comparability factors between ICD-9 (manually coded) and ICD-10 (automatically coded) will be available in 2001.

## COMPARISON OF AUTOMATIC AND MANUAL ICD-9 CODING

For processing deaths registered from 1 January 1997, Australia adopted the use of the Automated Coding System (ACS). Its use has enabled efficient production of multiple causes of death statistics and has introduced more consistency into coding practices. It 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.

As ACS was developed in the United States it used US 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.

The specific cause of death most affected was pneumonia and, hence, the category of pneumonia and influenza (ICD-9 codes 480–487). The other causes significantly affected include senile and presenile organic psychotic conditions—dementia (ICD-9 code 290), and alzheimer's disease (ICD-9 code 331.0). Under the previous Australian coding interpretations, many of the deaths attributed to pneumonia in 1997 would have been attributed to dementia or alzheimer's disease, and, to a lesser extent, ischaemic heart disease, cardiac dysrhythmias and heart failure, malignant neoplasms, chronic obstructive pulmonary disease or renal failure. Hence, with the introduction of ACS there was a large increase in pneumonia deaths, in association with a decrease in deaths attributed to these causes.

#### COMPARISON OF AUTOMATIC AND MANUAL ICD-9 CODING continued

To provide a link between underlying causes of death data coded manually and by ACS, the records for more than 34,000 deaths registered in 1997 were dual coded. Comparability factors were then calculated for groups of causes of death as a means of adjusting data for 1996 and previous years. 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.

Comparability factors for deaths due to external causes are close to 1.0 due to the extensive clerical intervention which has continued after the introduction of ACS.

An adjusted estimate of the number of deaths attributed to a particular cause in ICD-9 can be produced by multiplying the number of deaths attributed to that cause in 1996 (or in earlier years) by its corresponding comparability factor.

Table A5.2 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.

#### **A5.2** 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) Trachea, bronchus and lung (162)	1.00 1.00
Bone, connective tissue, skin and breast (170–175)	0.98
Melanoma of skin (172)	0.98
Breast (174, 175)	0.99
bicast (174, 170)	0.55
Genitourinary organs (179–189)	0.99
Ovary and other uterine adnexa (183)	1.01
Prostate (185)	0.99
Bladder (188)	0.97
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
Danish and warnerified accordance (O40, O20)	0.00
Benign and unspecified neoplasms (210239)	0.90
Class III Endocrine, nutritional and metabolic diseases and	
immunity disorders (240–279)	0.97
Diabetes mellitus (250)	0.94
	3.31
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

## A5.2 COMPARABILITY FACTORS continued

Comparability Cause of death and ICD code factor 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, 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 Cerebrovascular diseases (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) 1.09 Class XV Certain conditions originating in the perinatal period (760-779) 0.92 Class XVI Symptoms, signs and ill-defined conditions (780–799) 0.74 Class XVII Accidents, poisonings and violence 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

#### COMPARISON OF NINTH AND TENTH REVISIONS OF ICD

Australia introduced ICD-10 for classifying deaths registered from 1 January 1999. The introduction of this major revision has resulted in changes to the interpretation and resultant coding of a number of causes, as outlined in the WHO publication *International Statistical Classification of Diseases and Related Health Problems Tenth Revision*, *Volume 2*. Causes most affected are asthma, hypertension and influenza and pneumonia.

Under ICD-10, asthma more clearly links with chronic obstructive airways diseases (COAD), especially bronchitis and emphysema. Where these conditions are present, COAD takes precedence, resulting in a decrease in the reporting of asthma as the underlying cause.

For hypertension, under ICD-10, there has been an expansion of conditions relating to diseases of the heart and clearer linkages of hypertension to these diseases. These conditions now take precedence over hypertension, thus reducing the reporting hypertension as the underlying cause.

Similarly, where influenza and pneumonia appear with a wide range of associated conditions, these conditions now take precedence. The major impact is a substantial decrease in the reporting of influenza and pneumonia (J10–J18), under ICD-10, back to the levels recorded under manual ICD-9 coding (see comparison of automatic and manual coding above). In association with this there is an increase in the number of deaths attributed to conditions relating to the group 'organic, including symptomatic, mental disorders' (F00–F09).

Table A5.3 presents a concordance between the ninth and tenth revisions of ICD for each cause of death (or groups of causes of death) presented in this publication. Further information or clarification on the concordance between these revisions is available from the ABS on 1800 620 963.

The ABS is recoding 1997 and 1998 deaths data to ICD-10 to assist with comparisons over time. Therefore, 1997 and 1998 deaths will be available coded to both ICD revisions. In addition to data for these two years, comparability factors for causes or groups of causes of deaths will be produced during 2001 as a means of adjusting ICD-9 data to make them more comparable with data coded using ICD-10.

#### **A5.3** CONCORDANCE

Cause of death	ICD-10 code	ICD-9 code
All causes	A00-Y98	001-999
Chapter I Certain infectious and parasitic diseases	A00-B99	001–139
Septicaemia	A40, A41	038
Human immunodeficiency virus (HIV) disease	B20-B24	042–044
Chapter II Neoplasms	C00-D48	140-239
Malignant neoplasms	C00-C97	140-208
Digestive organs	C15-C26	150–157, 159
Oesophagus	C15	150
Stomach	C16	151
Colon	C18	153
Rectosigmoid junction, rectum, anus and		
anal canal	C19-C21	154
Liver and intrahepatic bile ducts	C22	155
Pancreas	C25	157
Respiratory and intrathoracic organs	C30-C39	160–165
Trachea, bronchus and lung	C33, C34	162

# **A5.3** CONCORDANCE continued

Cause of death	ICD-10 code	ICD-9 code
		• • • • • • • •
Malignant neoplasms continued		
Melanoma of skin	C43	172
Breast	C50	174, 175
Female genital organs	C51–C58	179–184
Ovary	C56	1830
Male genital organs	C60-C63	185–187
Prostate	C61	185
Urinary tract	C64-C68	188, 189
Kidney, except renal pelvis	C64	1890
Bladder	C67	188
Eye, brain and other parts of central nervous		
system	C69-C72	190-192
Brain	C71	191
Lymphoid, haematopoietic and related tissue	C81-C96	200–208
Leukaemia	C91-C95	204–208
Leanachtia	091-093	204-200
In situ and benign neoplasms and neoplasms of		
uncertain or unknown behaviour	D00-D48	210–239
Chapter III Diseases of the blood and blood-forming		
organs and certain disorders involving the immune		
mechanism	D50-D89	279, 280–289
Chapter IV Endocrine, nutritional and metabolic diseases	E00-E90	240–278
Diabetes mellitus	E10-E14	250
Chapter V Mental and behavioural disorders	F00-F99	290-319
Psychoactive substance use	F10-F19	291, 292, 303,
•		304,305
Chapter VI Diseases of the nervous system	G00-G99	320–359
Extrapyramidal and movement disorders	G20-G26	332–333
Alzheimer's disease	G20-G20 G30	3310
Alzheimer 3 diaedae	<b>u</b> 50	3310
Chapter VII Diseases of the eye and adnexa	H00-H59	360-379
Chapter VIII Diseases of the ear and mastoid process	H60-H95	380–389
Chapter IX Disease of the circulatory system	100–199	390–459
All heart disease	105–109, 111, 113,	393–398, 402,
	120–125, 126, 127,	404, 410–414,
	130–152	415, 416,
Acute rheumatic fever and chronic rheumatic heart		
diseases	100–109	390–398
Hypertensive diseases	110–115	401–405
Ischaemic heart diseases	120–125	410–414
Acute myocardial infarction	l21	410
Pulmonary heart disease and diseases of pulmonary		
circulation and other forms of heart disease	126-152)	415-429
Cerebrovascular diseases	160–169	430-438
Diseases of arteries, arterioles and capillaries	170–179	440–448
Atherosclerosis	170	440
Aortic aneurysm	171	441
Chapter X Diseases of the respiratory system	J00-J99	460–519
Influenza and pneumonia	J10-J18	480–487
Chronic lower respiratory diseases	J40-J47	490-496
Emphysema	J43	492
Asthma and status asthmaticus	J45, J46	493

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## **A5.3** CONCORDANCE continued

Cause of death	ICD-10 code	ICD-9 code
Chapter XI Diseases of the digestive system	K00-K93	520–579
Diseases of oesophagus, stomach and duodenum	K20-K31	530-537
Gastric and duodenal ulcer	K25-K27	531–533
Diseases of liver	K70-K77	570–573
Chapter XII Diseases of the skin and subcutaneous tissue Chapter XIII Diseases of the musculoskeletal system and	L00-L99	680–709
connective tissue	M00-M99	710-739
Arthropathies and systemic connective tissue		
disorders	M00-M36	710–719
Chapter XIV Diseases of the genitourinary system	N00-N99	580-629
Glomerular diseases	N00-N08	580-583
Renal failure	N17-N19	584–586
Chapter XV Pregnancy, childbirth and the puerperium Chapter XVI Certain conditions originating in the perinatal	000-099	630–676
period Fetus and newborn affected by maternal conditions	P00-P96	760–779
that may be unrelated to present pregnancy  Disorders related to short gestation and low	P00-P04	760
birthweight, not elsewhere classified	P07	765
Infections specific to the perinatal period	P35-P39	771
Haemorrhagic and haematological disorders of fetus		
and newborn	P50-P61	772–774, 776
Chapter XVII Congenital malformations, deformations and		
chromosomal abnormalities	Q00-Q99	740–759
Congenital malformations of the nervous system	Q00-Q07	740–742
Congenital malformations of the circulatory system	Q20-Q28	745–747
Congenital malformations of the respiratory system	Q30-Q34	748
Chapter XVIII Symptoms, signs and abnormal clinical and		
laboratory findings, not elsewhere classified	R00-R99	780–799
Sudden infant death syndrome	R95	7980
Chapter XX External causes of morbidity and mortality	V01-Y98	E800-E999
Accidents	V01-X59	E800-E949
Transport accidents	V01-V99	E800-E848
Falls	W00-W19	E880-E886,
Accidental drowning and submersion	W65-W74	E910
Accidental poisoning by and exposure to noxious substances	X40-X49	E850-E869
Intentional self-harm	X60-X84	E950-E959
Hanging, strangulation and suffocation	X70	E953
Assault	X85-Y09	E960-E969

# APPENDIX 6 INDIGENOUS DEATHS .....

#### INTRODUCTION

In 1999, there were 1,976 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 1999 registered Indigenous deaths is an underestimate of the actual number of such deaths.

# PROPENSITY TO IDENTIFY AS INDIGENOUS

Propensity to identify as Aboriginal and Torres Strait Islander 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 Aboriginal and Torres Strait Islander:

- 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 1986–1991 Indigenous life tables, and the Indigenous population based on the 1991 Census. These are published in *Experimental Projections of the Aboriginal and Torres Strait Islander Population*, 30 June 1991–30 June 2001 (Cat. no. 3231.0).
- 1996 Census-based estimates and projections: Estimates prior to 1996 are derived by backdating estimates of the 1996 Indigenous population. The level of mortality is based on the 1991–1996 experimental life tables published in *Experimental Projections of the Aboriginal and Torres Strait Islander Population, 30 June 1996–30 June 2006* (Cat. no. 3231.0). The 1999 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 Aboriginal and Torres Strait Islander 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)
• • • • • • • •	• • • • • • • •	• • • • • •	DEATHO	DECICE	EDED	• • • • • •	• • • • • •	• • • • •	• • • • •
			DEATHS	REGIST	EKED				
1990	201	42	4	118	322	_	393	_	1 082
1991	206	50	_	135	401	3	412	_	1 208
1992	165	53	_	107	346	5	397	_	1 074
1993	194	50	_	111	386	6	376	9	1 134
1994	207	50	_	123	377	3	380	10	1 153
1995	224	50	_	121	384	3	387	9	1 182
1996	177	49	258	118	370	_	328	5	1 306
1997	88	93	531	132	351	5	458	4	1 662
1998	462	123	593	127	378	13	415	3	2 114
1999	435	130	529	116	350	11	399	6	1 976
EXP	ECTED DEAT	HS (199	91 Censi	us-base	d experir	nental p	rojection	ns)(b)	
1004	500	444	505	404	000	F.0	000		0.450
1994	509	111	595	124	382	52	368	9	2 152
1995	518	113	604	126	385	54	374	10	2 185
1996 1007	528 537	114	613	128	390	56	379	10	2 220
1997		116	623	131	394	57 50	386	11	2 257
1998 1999	547 556	118 121	634 644	133 135	400 406	59 61	391 397	11 12	2 293 2 334
EXPECTED	DEATHS (1	996 Cer	nsus-bas	ed expe	rimental	estimat	tes and <sub>l</sub>	projecti	ons)
1994(c)	916	206	874	183	484	115	439	16	3 239
1995(c)	932	209	887	186	488	119	446	18	3 289
1996(c)	950	211	900	189	494	124	452	18	3 341
1997(d)	966	215	915	193	499	126	460	20	3 397
1998(d)	984	219	936	199	509	130	471	21	3 472
1999(d)	1 010	222	960	202	518	133	482	22	3 552
FSTIM	IATED COVER	PAGE OF	DEATHS		Canque.	hased e	vnectan	ries)(%	• • • • •
	MILD GOVE	WIGE OF	DEMINE	(1331	ocnous	buscu c	хростан	0100) (70)	,
1994	41	45	_	99	99	6	103	111	54
1995	43	44		96	100	6	103	90	54
1996	34	43	42	92	95	_	87	50	59
1997	16	80	85	101	89	9	119	36	74
1998	84	104	94	95	95	22	106	27	92
1999	78	107	82	86	86	18	101	50	85
ECTIM	IATED COVER		DEATH		Concue				• • • • •
LSTIM	IAILD COVER	NAGE OF	DLATTIS	(1990	Census-	baseu e	xpectani	CIES) ( 70,	,
1994	23	24	_	67	78	3	87	61	36
1995	24	24	_	65	79	3	87	50	36
1996	19	23	29	63	75	_	73	28	39
1997	9	43	58	68	70	4	100	20	49
1998	47	56	63	64	74	10	88	14	61
1999	43	59	55	57	68	8	83	27	56

<sup>(</sup>a) Includes 'Other Territories' from 1993.

<sup>(</sup>b) Source: Experimental Projections of the Aboriginal and Torres Strait Islander Population, 30 June 1991-30 June 2001 (Cat. no. 3231.0), medium series.

<sup>(</sup>c) Source: Experimental Estimates of the Aboriginal and Torres Strait Islander Population, 1991–1996 (Cat. no. 3230.0), unpublished data.

<sup>(</sup>d) Source: Experimental Projections of the Aboriginal and Torres Strait Islander Population, 1996-2006 (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.

	VPLL(a)	YPLL(a)	
	TFLL(a)		
Cause of death and ICD code	Males	Females	
• • • • • • • • • • • • • • • • • • • •		• • • • • •	
All causes	575 129	295 529	
Malignant neoplasms (cancer) (C00-C97)	144 379	116 137	
Digestive organs (C15–C26)	40 017	23 581	
Trachea, bronchus and lung (C33–C34)	30 355	14 766	
Accidents (V01–X59)	119 140	39 572	
Transport accidents (V01–V99)	57 055	21 095	
Accidental poisoning by and exposure to noxious			
substances (X40–X49)	34 254	11 021	
Ischaemic heart diseases (I20–I25)	73 466	20 388	
Intentional self harm (X60–X84)	69 782	17 313	
Cerebrovascular diseases (stroke) (I60–I69)	15 639	11 312	
Diseases of the nervous system (G00–G99)	15 929	10 995	
Mental and behavioural disorders due to psychoactive			
substance use (F10–F19)	16 984	4 995	
Chronic lower respiratory diseases (J40–J47)	13 834	9 857	
Diseases of liver (K70–K77)	13 110	5 247	
Diabetes mellitus (E10–E14)	8 542	5 306	
Diseases of arteries, arterioles and capillaries			
(including atherosclerosis and aortic aneurysm) (I70–I79)	4 760	1 971	
Human immunodeficiency virus (HIV) disease (B20–B24)	4 159	360	
Influenza and pneumonia (J10–J18)	2 301	1 868	

(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).

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

# 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 1999 population

 $N_x$  = number of persons aged x years in the 1999 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.)

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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