

# 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 (ABS) by the Registrar of Births, Deaths and Marriages in each state or territory.

Deaths from external causes are attributed to the event leading to the fatal injury as described in Chapter XX of International Classification of Diseases Revision 10 (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.



### CHANGES IN THIS ISSUE

This issue contains a new section and new tables as well as modifications and extensions to existing tables.

Table 1.1 has been extended to show more selected causes and data for the last three years.

Table 1.2 now shows rates instead of percentages.

Table 1.7 has been introduced as a new table. Previously some Years of Potential Life Lost (YPLL) data were only included in the Technical Note.

Table 2.2 no longer shows data for males and females.

Table 4.1 has been introduced as a new table. It details selected causes of deaths on a year of occurrence basis.

Explanatory and Technical Notes 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 (published 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 (USA)   |
| np       | not available for publication but included in totals where applicable                 |
| WHO      | World Health Organization   |
| 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 in 2001 have been coded using the tenth revision of the International Classification of Diseases (ICD-10). Data from 1997 onwards are available coded to ICD-10 and data from years 1979 to 1996 are coded to ICD-9 which is generally comparable at the broad Chapter level to deaths coded to ICD-10. Further explanation on the comparability between ICD-9 and ICD-10 as detailed in this publication is provided in Appendix 5.

### TRENDS IN LEADING CAUSES

There were 128,544 deaths registered in 2001, consisting of 66,835 male and 61,709 female deaths, which was a slight increase of 0.2% on the corresponding figure for 2000 (128,291 deaths). While there has been a 7.9% increase in the number of deaths between 1991 and 2001, in the same period there has been a corresponding decrease in the standardised death rate of 21%, from 689.3 in 1991 to 542.2 in 2001, which is consistent with continuing improvements in life expectancy in Australia.

The leading underlying causes of death in 2001 are generally consistent with 2000 data with respect to standardised death rates and relative proportions. However, there have been some changes in these relative proportions since 1991. In 2001, Malignant neoplasms and Ischaemic heart diseases, with contributions of 29% and 20% respectively, were responsible for 49% of all deaths, while in 1991 these two causes contributed equally (26%) and were responsible for 52% of all deaths.

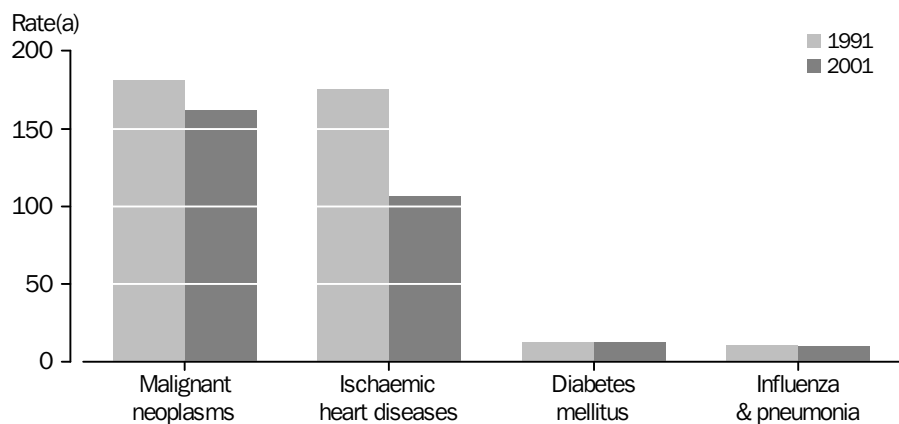
### LEADING CAUSES OF DEATH

| Cause of death and ICD code  | Males<br>no.  | Females<br>no. | Persons<br>no. | Proportion<br>of total<br>deaths |
|--|---------------|----------------|----------------|----------------------------------|
|  |               |                |                | %                                |
| <b>All causes</b>  | <b>66 835</b> | <b>61 709</b>  | <b>128 544</b> | <b>100.0</b>                     |
| Malignant neoplasms (cancer) (C00–C97)   | 20 753        | 15 997         | 36 750         | 28.5                             |
| Ischaemic heart diseases (I20–I25)   | 13 906        | 12 328         | 26 234         | 20.4                             |
| Cerebrovascular diseases (stroke) (I60–I69)  | 4 852         | 7 294          | 12 146         | 9.4                              |
| Chronic lower respiratory diseases (including asthma, emphysema and bronchitis) (J40–J47)                  | 3 419         | 2 497          | 5 916          | 4.6                              |
| Accidents (V01–X59)  | 3 155         | 1 685          | 4 840          | 3.8                              |
| Diabetes mellitus (E10–E14)  | 1 639         | 1 439          | 3 078          | 2.4                              |
| Influenza and pneumonia (J10–J18)  | 1 184         | 1 518          | 2 702          | 2.1                              |
| Diseases of arteries, arterioles and capillaries (including atherosclerosis and aortic aneurysm) (I70–I79) | 1 381         | 1 244          | 2 625          | 2.0                              |
| Heart failure (I50)  | 982           | 1 630          | 2 612          | 2.0                              |
| Intentional self-harm (X60–X84)  | 1 935         | 519            | 2 454          | 1.9                              |
| All other causes   | 13 629        | 15 558         | 29 187         | 22.7                             |

TRENDS IN LEADING CAUSES *continued*

All leading causes of death showed a decrease in standardised death rates between 1991 and 2001 except for Diabetes mellitus and Influenza and pneumonia where the standardised death rates remained relatively unchanged at 13.0 and 10.4 per 100,000 respectively in 2001.

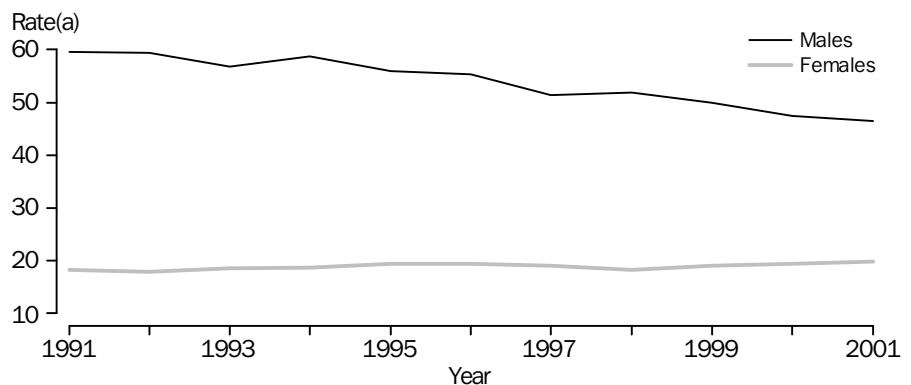
STANDARDISED DEATH RATES, Selected underlying causes



(a) Per 100,000 estimated resident population.

In 2001, the 7,038 deaths caused by Malignant neoplasms of the trachea, bronchus and lung (lung cancer) were responsible for 19% of all deaths caused by Malignant neoplasms.

For males, there was a 1.2% increase in the number of deaths in the twelve months, but a decrease of 2.1% in the standardised death rate in the same period. This continues a downward trend which has seen the standardised male death rate decrease 22% from 59.6 in 1991 to 46.5 per 100,000 in 2001. In contrast, for females, there were only marginal increases in both the numbers of deaths and standardised death rate between 2000 and 2001. The death rate has increased 8.7% since 1991.

STANDARDISED DEATH RATES,  
Malignant neoplasm of trachea, bronchus and lung

(a) Per 100,000 estimated resident population.

## EXTERNAL CAUSES

External causes relate to deaths from accidents, poisonings and violence and were responsible for 7,876 deaths or 6.1% of all deaths registered in 2001. Since 1991 there has been a 14% decrease in the standardised death rate for deaths from External causes, mainly due to a 29% decrease in the death rate for Transport accidents.

The standardised death rate in 2001 from Intentional self-harm (suicide) for all ages was 20.1 for males and 5.1 for females which was a 2.6% increase for males and no change for females from the 2000 rates. There were 2,454 deaths attributed to suicide registered in 2001, 91 (3.9%) higher than the 2000 figure. Most of this increase occurred in the 45–54 age group, with 20 males and 39 females more than the previous year. However, the number of deaths registered in 2001 from Intentional self-harm is 10% lower than the record 2,723 deaths registered in 1997.

## DRUG-INDUCED DEATHS

Drug-induced deaths (excluding alcohol, tobacco and volatile solvents) comprises any death where the underlying cause was attributed to an acute episode of poisoning or toxicity due to drugs and any acute condition caused by drug use where the deceased person was identified as drug dependent. More information on these definitions is given in the ABS Information Paper *Drug-Induced Deaths—A Guide to ABS Causes of Death Data* (cat. no. 4809.0). In 2001, the total number of drug-induced deaths was 1,038 which represents a 34% decrease on the number reported in 2000.

## DRUG-INDUCED DEATHS

| Cause of death and ICD code                | 1997         | 1998         | 1999         | 2000         | 2001         |
|--|--------------|--------------|--------------|--------------|--------------|
| <b>Total Drug-Induced Deaths</b>           | <b>1 323</b> | <b>1 645</b> | <b>1 739</b> | <b>1 569</b> | <b>1 038</b> |
| Accidental (F11–F16, F19, F55, X40–X44)(a) | 916          | 1 243        | 1 403        | 1 274        | 710          |
| Intentional self-harm (X60–X84)            | 309          | 310          | 278          | 273          | 285          |
| Assault (X85)                              | 4            | 6            | 2            | 1            | 4            |
| Undetermined (Y10–Y14)                     | 94           | 86           | 56           | 21           | 39           |

(a) Includes two components: Mental and behavioural disorders due to drug use (F11–F16, F19, F55) and Accidental poisoning by drugs (X40–X44).

## DEATHS OF ABORIGINAL AND TORRES STRAIT ISLANDER PERSONS

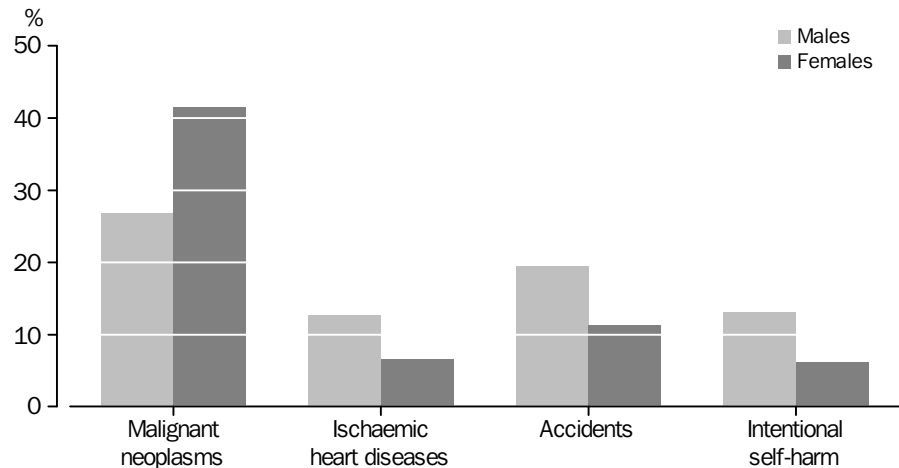
While deaths of Aboriginal and Torres Strait Islander Australians are considered to be underenumerated (see Appendix 6), the comparison of causes of Indigenous deaths with non-Indigenous deaths highlights some major differences. The two leading causes of deaths for Indigenous and non-Indigenous are the same with Ischaemic heart diseases causing 18% and Malignant neoplasms 16% of all recorded Indigenous deaths, compared to 21% and 29% respectively for the non-Indigenous population. External causes account for 17% of Indigenous deaths compared to 6% of non-Indigenous deaths. Diabetes mellitus accounts for 7% of Indigenous deaths compared to 2% of non-Indigenous deaths.

## YEARS OF POTENTIAL LIFE LOST (YPLL)

A measure of premature mortality is years of potential life lost for deaths occurring between the ages of 1 and 75 years inclusive. (Refer to the Technical Note on page 77 for further detail).

In 2001, an estimate of YPLL was 528,594 years for males and 273,945 years for females for all causes of death. Malignant neoplasms as the underlying cause was reported in 37% of deaths for males aged 1–75 years. This represented 27% of the years of potential life lost. For females, Malignant neoplasms were reported in 45% of deaths of females aged 1–75 years and represented 41% of years of potential life lost. An estimated 182,642 and 53,706 years of potential years of life lost for males and females respectively occurred in 2001 due to all External causes. Deaths as a result of External causes were 14% and 8% of all deaths aged 1–75 years for males and females, which represented 35% and 20% for males and females respectively of the total number of years of potential life lost.

PERCENTAGE OF YEARS OF POTENTIAL LIFE LOST, Selected underlying causes



## 1.1 UNDERLYING CAUSE, Selected causes

|   | 1999.....     |                | 2000.....     |                | 2001.....     |                |
|---|---------------|----------------|---------------|----------------|---------------|----------------|
| <i>Cause of death and ICD code</i>  | <i>Males</i>  | <i>Females</i> | <i>Males</i>  | <i>Females</i> | <i>Males</i>  | <i>Females</i> |
| <b>All causes</b>   | <b>67 227</b> | <b>60 875</b>  | <b>66 817</b> | <b>61 474</b>  | <b>66 835</b> | <b>61 709</b>  |
| Chapter I Certain infectious and parasitic diseases (A00–B99)   | 842           | 761            | 867           | 779            | 887           | 788            |
| Septicaemia (A40, A41)  | 401           | 460            | 454           | 486            | 442           | 531            |
| Human immunodeficiency virus (HIV) disease (B20–B24)(a)   | 156           | 10             | 162           | 11             | 134           | 14             |
| Chapter II Neoplasms (C00–D48)  | 20 283        | 15 573         | 20 545        | 15 829         | 21 126        | 16 371         |
| Malignant neoplasms (C00–C97)   | 19 866        | 15 187         | 20 153        | 15 475         | 20 753        | 15 997         |
| Digestive organs (C15–C26)  | 5 600         | 4 312          | 5 676         | 4 379          | 5 918         | 4 462          |
| Oesophagus (C15)  | 641           | 299            | 667           | 287            | 711           | 333            |
| Stomach (C16)   | 754           | 447            | 775           | 414            | 750           | 461            |
| Colon (C18)   | 1 771         | 1 557          | 1 753         | 1 665          | 1 760         | 1 582          |
| Rectosigmoid junction, rectum, anus and anal canal (C19–C21)  | 734           | 514            | 780           | 514            | 855           | 548            |
| Liver and intrahepatic bile ducts (C22)   | 449           | 234            | 510           | 227            | 538           | 240            |
| Pancreas (C25)  | 868           | 850            | 864           | 873            | 950           | 859            |
| Trachea, bronchus and lung (C33, C34)   | 4 655         | 2 148          | 4 587         | 2 291          | 4 642         | 2 396          |
| Melanoma of skin (C43)  | 631           | 359            | 624           | 356            | 686           | 383            |
| Breast (C50)  | 22            | 2 505          | 19            | 2 511          | 27            | 2 585          |
| Female genital organs (C51–C58)   | ..            | 1 300          | ..            | 1 402          | ..            | 1 506          |
| Ovary (C56)   | ..            | 737            | ..            | 774            | ..            | 833            |
| Male genital organs (C60–C63)   | 2 546         | ..             | 2 700         | ..             | 2 753         | ..             |
| Prostate (C61)  | 2 499         | ..             | 2 663         | ..             | 2 711         | ..             |
| Urinary tract (C64–C68)   | 1 112         | 605            | 1 076         | 579            | 1 162         | 662            |
| Kidney, except renal pelvis (C64)   | 482           | 320            | 469           | 295            | 496           | 346            |
| Bladder (C67)   | 587           | 252            | 574           | 247            | 629           | 275            |
| Brain (C71)   | 588           | 430            | 622           | 435            | 631           | 448            |
| Lymphoid, haematopoietic and related tissue (C81–C96)   | 1 962         | 1 596          | 2 062         | 1 682          | 1 997         | 1 663          |
| Leukaemia (C91–C95)   | 768           | 578            | 772           | 582            | 803           | 582            |
| In situ and benign neoplasms and neoplasms of uncertain or unknown behaviour (D00–D48)                                    | 417           | 386            | 392           | 354            | 373           | 374            |
| Chapter III Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50–D89) | 195           | 255            | 190           | 223            | 183           | 225            |
| Chapter IV Endocrine, nutritional and metabolic diseases (E00–E90)  | 2 001         | 2 099          | 2 141         | 2 016          | 2 223         | 2 091          |
| Diabetes mellitus (E10–E14)   | 1 485         | 1 462          | 1 594         | 1 412          | 1 639         | 1 439          |
| Chapter V Mental and behavioural disorders (F00–F99)  | 1 256         | 1 552          | 1 358         | 1 716          | 1 073         | 1 631          |
| Organic, including symptomatic, mental disorders (F00–F09)  | 648           | 1 296          | 668           | 1 439          | 683           | 1 454          |
| Chapter VI Diseases of the nervous system (G00–G99)   | 1 818         | 2 072          | 1 839         | 2 200          | 1 894         | 2 310          |
| Alzheimer's disease (G30)   | 493           | 1 023          | 455           | 1 104          | 497           | 1 110          |
| Chapter VII Diseases of the eye and adnexa (H00–H59)  | —             | 5              | —             | 1              | 2             | 1              |
| Chapter VIII Diseases of the ear and mastoid process (H60–H95)  | —             | 6              | 4             | 5              | 3             | 4              |
| Chapter IX Diseases of the circulatory system (I00–I99)   | 24 824        | 26 479         | 23 756        | 25 931         | 23 602        | 25 724         |
| All heart disease (I05–I09, I11, I13, I20–I25, I26, I27, I30–I52)   | 18 116        | 17 229         | 17 172        | 16 747         | 17 027        | 16 620         |
| Acute rheumatic fever and chronic rheumatic heart diseases (I00–I09)  | 84            | 177            | 101           | 164            | 82            | 160            |
| Hypertensive diseases (I10–I15)   | 432           | 745            | 449           | 753            | 443           | 780            |
| Ischaemic heart diseases (I20–I25)  | 14 865        | 12 744         | 14 052        | 12 469         | 13 906        | 12 328         |
| Acute myocardial infarction (I21)   | 8 028         | 7 124          | 7 586         | 7 030          | 7 484         | 6 959          |
| Pulmonary heart disease and diseases of pulmonary circulation and other forms of heart disease (I26–I52)                  | 2 955         | 3 896          | 2 795         | 3 713          | 2 824         | 3 747          |
| Heart failure (I50)   | 989           | 1 725          | 982           | 1 662          | 982           | 1 630          |
| Cerebrovascular diseases (I60–I69)  | 4 894         | 7 372          | 4 913         | 7 387          | 4 852         | 7 294          |
| Diseases of arteries, arterioles and capillaries (I70–I79)  | 1 476         | 1 388          | 1 321         | 1 296          | 1 381         | 1 244          |
| Atherosclerosis (I70)   | 229           | 423            | 187           | 324            | 175           | 282            |
| Aortic aneurysm and dissection (I71)  | 882           | 568            | 798           | 539            | 793           | 545            |

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



1.1 UNDERLYING CAUSE, Selected causes *continued*

|   | 1999.....    |                | 2000.....    |                | 2001.....    |                |
|---|--------------|----------------|--------------|----------------|--------------|----------------|
| <i>Cause of death and ICD code</i>  | <i>Males</i> | <i>Females</i> | <i>Males</i> | <i>Females</i> | <i>Males</i> | <i>Females</i> |
| Chapter X Diseases of the respiratory system (J00–J99)  | 5 296        | 4 317          | 5 923        | 4 984          | 5 725        | 4 901          |
| Influenza and pneumonia (J10–J18)   | 765          | 1 133          | 1 312        | 1 625          | 1 184        | 1 518          |
| Chronic lower respiratory diseases (J40–J47)  | 3 609        | 2 487          | 3 514        | 2 448          | 3 419        | 2 497          |
| Emphysema (J43)   | 575          | 312            | 490          | 231            | 408          | 270            |
| Asthma and status asthmaticus (J45, J46)  | 160          | 264            | 169          | 285            | 175          | 247            |
| Chapter XI Diseases of the digestive system (K00–K93)   | 2 111        | 2 110          | 2 063        | 2 078          | 2 036        | 2 053          |
| Diseases of oesophagus, stomach and duodenum (K20–K31)  | 313          | 335            | 331          | 360            | 301          | 333            |
| Gastric and duodenal ulcer (K25–K27)  | 215          | 231            | 232          | 245            | 203          | 237            |
| Diseases of liver (K70–K77)   | 863          | 380            | 805          | 357            | 822          | 374            |
| Chapter XII Diseases of the skin and subcutaneous tissue (L00–L99)  | 108          | 181            | 99           | 153            | 106          | 159            |
| Chapter XIII Diseases of the musculoskeletal system and connective tissue (M00–M99)                             | 300          | 562            | 279          | 573            | 285          | 611            |
| Arthropathies and systemic connective tissue disorders (M00–M36)  | 208          | 360            | 187          | 388            | 186          | 375            |
| Chapter XIV Diseases of the genitourinary system (N00–N99)  | 1 232        | 1 536          | 1 186        | 1 506          | 1 242        | 1 570          |
| Renal failure (N17–N19)   | 842          | 919            | 802          | 913            | 813          | 891            |
| Chapter XV Pregnancy, childbirth and the puerperium (O00–O99)   | ..           | 11             | ..           | 15             | ..           | 12             |
| Chapter XVI Certain conditions originating in the perinatal period (P00–P96)                                    | 377          | 264            | 360          | 282            | 395          | 286            |
| Fetus & newborn affected by maternal factors & by complications of pregnancy, labour & delivery (P00–P04)       | 214          | 147            | 177          | 137            | 197          | 189            |
| Chapter XVII Congenital malformations, deformations and chromosomal abnormalities (Q00–Q99)                     | 392          | 323            | 326          | 284            | 335          | 279            |
| Congenital malformations of the circulatory system (Q20–Q28)  | 133          | 118            | 115          | 97             | 117          | 98             |
| Chapter XVIII Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00–R99) | 324          | 276            | 364          | 318            | 272          | 263            |
| Chapter XX External causes of morbidity and mortality (V01–Y98)   | 5 868        | 2 493          | 5 517        | 2 581          | 5 446        | 2 430          |
| Accidents (V01–X59)   | 3 486        | 1 801          | 3 299        | 1 839          | 3 155        | 1 685          |
| Transport accidents (V01–V99)   | 1 441        | 570            | 1 459        | 556            | 1 495        | 509            |
| Falls (W00–W19)   | 309          | 211            | 308          | 257            | 354          | 280            |
| Accidental drowning and submersion (W65–W74)  | 203          | 75             | 179          | 50             | 210          | 51             |
| Intentional self-harm (X60–X84)   | 2 002        | 490            | 1 860        | 503            | 1 935        | 519            |
| Hanging, strangulation and suffocation (X70)  | 868          | 160            | 807          | 182            | 855          | 195            |
| Assault (X85–Y09)   | 204          | 96             | 197          | 116            | 192          | 108            |

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

| Cause of death and ICD code   | NUMBER OF DEATHS |            |              | RATES(a)..... |             |             |
|---|------------------|------------|--------------|---------------|-------------|-------------|
|   | Males            | Females    | Persons      | Males         | Females     | Persons     |
| <b>Under 1 year</b>   | <b>751</b>       | <b>558</b> | <b>1 309</b> | <b>5.95</b>   | <b>4.65</b> | <b>5.31</b> |
| Certain conditions originating in the perinatal period (P00–P96)  | 392              | 285        | 677          | 3.10          | 2.37        | 2.75        |
| Fetus and newborn affected by maternal factors and by complications of pregnancy, labour and delivery (P00–P04) | 197              | 189        | 386          | 1.56          | 1.57        | 1.57        |
| Disorders related to short gestation and low birthweight, not elsewhere classified (P07)                        | 31               | 20         | 51           | 0.25          | 0.17        | 0.21        |
| Respiratory and cardiovascular disorders specific to the perinatal period (P20–P29)                             | 87               | 38         | 125          | 0.69          | 0.32        | 0.51        |
| Infections specific to the perinatal period (P35–P39)   | 18               | 9          | 27           | 0.14          | 0.07        | 0.11        |
| Haemorrhagic and haematological disorders of fetus and newborn (P50–P61)  | 8                | 7          | 15           | 0.06          | 0.06        | 0.06        |
| Congenital malformations, deformations and chromosomal abnormalities (Q00–Q99)                                  | 186              | 146        | 332          | 1.47          | 1.22        | 1.35        |
| Congenital malformations of the nervous system (Q00–Q07)  | 14               | 22         | 36           | 0.11          | 0.18        | 0.15        |
| Congenital malformations of circulatory system (Q20–Q28)  | 60               | 42         | 102          | 0.48          | 0.35        | 0.41        |
| Congenital malformations of the respiratory system (Q30–Q34)  | 12               | 4          | 16           | 0.10          | 0.03        | 0.06        |
| Sudden infant death syndrome (R95)  | 61               | 40         | 101          | 0.48          | 0.33        | 0.41        |
| <b>1–14 years</b>   | <b>359</b>       | <b>243</b> | <b>602</b>   | <b>18.7</b>   | <b>13.3</b> | <b>16.1</b> |
| Malignant neoplasms (C00–C97)   | 72               | 44         | 116          | 3.7           | 2.4         | 3.1         |
| Brain (C71)   | 26               | 18         | 44           | 1.4           | 1.0         | 1.2         |
| Lymphoid, haematopoietic and related tissue (C81–C96)   | 30               | 14         | 44           | 1.6           | 0.8         | 1.2         |
| Leukaemia (C91–C95)   | 25               | 11         | 36           | 1.3           | 0.6         | 1.0         |
| Diseases of the nervous system (G00–G99)  | 28               | 32         | 60           | 1.5           | 1.8         | 1.6         |
| Congenital malformations, deformations and chromosomal abnormalities (Q00–Q99)                                  | 26               | 25         | 51           | 1.4           | 1.4         | 1.4         |
| External causes of morbidity and mortality (V01–Y98)  | 150              | 81         | 231          | 7.8           | 4.4         | 6.2         |
| Transport accidents (V01–V99)   | 67               | 33         | 100          | 3.5           | 1.8         | 2.7         |
| Accidental drowning and submersion (W65–W74)  | 28               | 16         | 44           | 1.5           | 0.9         | 1.2         |
| <b>15–24 years</b>  | <b>1 122</b>     | <b>388</b> | <b>1 510</b> | <b>82.6</b>   | <b>29.7</b> | <b>56.6</b> |
| Malignant neoplasms (C00–C97)   | 69               | 47         | 116          | 5.1           | 3.6         | 4.3         |
| Lymphoid, haematopoietic and related tissue (C81–C96)   | 22               | 14         | 36           | 1.6           | 1.1         | 1.3         |
| Leukaemia (C91–C95)   | 14               | 9          | 23           | 1.0           | 0.7         | 0.9         |
| Mental and behavioural disorders due to psychoactive substance use (F10–F19)                                    | 20               | 6          | 26           | 1.5           | 0.5         | 1.0         |
| Diseases of the nervous system (G00–G99)  | 46               | 19         | 65           | 3.4           | 1.5         | 2.4         |
| External causes of morbidity and mortality (V01–Y98)  | 881              | 234        | 1 115        | 64.8          | 17.9        | 41.8        |
| Transport accidents (V01–V99)   | 405              | 101        | 506          | 29.8          | 7.7         | 19.0        |
| Intentional self-harm (X60–X84)   | 276              | 63         | 339          | 20.3          | 4.8         | 12.7        |
| <b>25–34 years</b>  | <b>1 641</b>     | <b>606</b> | <b>2 247</b> | <b>114.6</b>  | <b>41.7</b> | <b>77.9</b> |
| Malignant neoplasms (C00–C97)   | 134              | 132        | 266          | 9.4           | 9.1         | 9.2         |
| Digestive organs (C15–C26)  | 24               | 20         | 44           | 1.7           | 1.4         | 1.5         |
| Melanoma of skin (C43)  | 14               | 17         | 31           | 1.0           | 1.2         | 1.1         |
| Breast (C50)  | ..               | 23         | 23           | ..            | 1.6         | 0.8         |
| Brain (C71)   | 22               | 10         | 32           | 1.5           | 0.7         | 1.1         |
| Lymphoid, haematopoietic and related tissue (C81–C96)   | 35               | 23         | 58           | 2.4           | 1.6         | 2.0         |
| Mental and behavioural disorders due to psychoactive substance use (F10–F19)                                    | 49               | 17         | 66           | 3.4           | 1.2         | 2.3         |
| Diseases of the circulatory system (I00–I99)  | 137              | 59         | 196          | 9.6           | 4.1         | 6.8         |
| Ischaemic heart diseases (I20–I25)  | 67               | 10         | 77           | 4.7           | 0.7         | 2.7         |
| Acute myocardial infarction (I21)   | 27               | 6          | 33           | 1.9           | 0.4         | 1.1         |
| Diseases of the digestive system (K00–K93)  | 13               | 12         | 25           | 0.9           | 0.8         | 0.9         |
| Diseases of liver (K70–K77)   | 7                | 5          | 12           | 0.5           | 0.3         | 0.4         |
| External causes of morbidity and mortality (V01–Y98)  | 1 135            | 259        | 1 394        | 79.3          | 17.8        | 48.3        |
| Transport accidents (V01–V99)   | 308              | 61         | 369          | 21.5          | 4.2         | 12.8        |
| Intentional self-harm (X60–X84)   | 486              | 108        | 594          | 33.9          | 7.4         | 20.6        |

(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.

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

| Cause of death and ICD code  | NUMBER OF DEATHS |              |               | RATES(a)..... |              |              |
|--|------------------|--------------|---------------|---------------|--------------|--------------|
|  | Males            | Females      | Persons       | Males         | Females      | Persons      |
| <b>35–44 years</b>   | <b>2 280</b>     | <b>1 312</b> | <b>3 592</b>  | <b>154.2</b>  | <b>87.2</b>  | <b>120.4</b> |
| Malignant neoplasms (C00–C97)  | 440              | 557          | 997           | 29.8          | 37.0         | 33.4         |
| Digestive organs (C15–C26)   | 113              | 98           | 211           | 7.6           | 6.5          | 7.1          |
| Melanoma of skin (C43)   | 54               | 24           | 78            | 3.7           | 1.6          | 2.6          |
| Breast (C50)   | 1                | 189          | 190           | 0.1           | 12.6         | 6.4          |
| Brain (C71)  | 55               | 31           | 86            | 3.7           | 2.1          | 2.9          |
| Lymphoid, haematopoietic and related tissue (C81–C96)                        | 50               | 46           | 96            | 3.4           | 3.1          | 3.2          |
| Mental and behavioural disorders due to psychoactive substance use (F10–F19) | 55               | 15           | 70            | 3.7           | 1.0          | 2.3          |
| Diseases of the circulatory system (I00–I99)                                 | 399              | 184          | 583           | 27.0          | 12.2         | 19.5         |
| Ischaemic heart diseases (I20–I25)   | 256              | 61           | 317           | 17.3          | 4.1          | 10.6         |
| Acute myocardial infarction (I21)  | 126              | 28           | 154           | 8.5           | 1.9          | 5.2          |
| Diseases of the digestive system (K00–K93)                                   | 102              | 49           | 151           | 6.9           | 3.3          | 5.1          |
| Diseases of liver (K70–K77)  | 80               | 35           | 115           | 5.4           | 2.3          | 3.9          |
| External causes of morbidity and mortality (V01–Y98)                         | 946              | 298          | 1 244         | 64.0          | 19.8         | 41.7         |
| Transport accidents (V01–V99)  | 204              | 73           | 277           | 13.8          | 4.9          | 9.3          |
| Intentional self-harm (X60–X84)  | 447              | 118          | 565           | 30.2          | 7.8          | 18.9         |
| <b>45–54 years</b>   | <b>4 049</b>     | <b>2 560</b> | <b>6 609</b>  | <b>303.8</b>  | <b>191.4</b> | <b>247.5</b> |
| Malignant neoplasms (C00–C97)  | 1 400            | 1 449        | 2 849         | 105.0         | 108.3        | 106.7        |
| Digestive organs (C15–C26)   | 494              | 298          | 792           | 37.1          | 22.3         | 29.7         |
| Colon (C18)  | 112              | 101          | 213           | 8.4           | 7.6          | 8.0          |
| Trachea, bronchus and lung (C33, C34)  | 256              | 189          | 445           | 19.2          | 14.1         | 16.7         |
| Breast (C50)   | 2                | 447          | 449           | 0.2           | 33.4         | 16.8         |
| Lymphoid, haematopoietic and related tissue (C81–C96)                        | 127              | 97           | 224           | 9.5           | 7.3          | 8.4          |
| Diseases of the circulatory system (I00–I99)                                 | 1 123            | 350          | 1 473         | 84.3          | 26.2         | 55.2         |
| Ischaemic heart diseases (I20–I25)   | 778              | 151          | 929           | 58.4          | 11.3         | 34.8         |
| Acute myocardial infarction (I21)  | 354              | 63           | 417           | 26.6          | 4.7          | 15.6         |
| Cerebrovascular diseases (I60–I69)   | 133              | 95           | 228           | 10.0          | 7.1          | 8.5          |
| Diseases of the respiratory system (J00–J99)                                 | 112              | 96           | 208           | 8.4           | 7.2          | 7.8          |
| Disease of the digestive system (K00–K93)                                    | 218              | 91           | 309           | 16.4          | 6.8          | 11.6         |
| Diseases of liver (K70–K77)  | 171              | 66           | 237           | 12.8          | 4.9          | 8.9          |
| External causes of morbidity and mortality (V01–Y98)                         | 726              | 268          | 994           | 54.5          | 20.0         | 37.2         |
| Transport accidents (V01–V99)  | 177              | 66           | 243           | 13.3          | 4.9          | 9.1          |
| Intentional self-harm (X60–X84)  | 311              | 106          | 417           | 23.3          | 7.9          | 15.6         |
| <b>55–64 years</b>   | <b>7 515</b>     | <b>4 210</b> | <b>11 725</b> | <b>812.2</b>  | <b>461.4</b> | <b>638.0</b> |
| Malignant neoplasms (C00–C97)  | 3 384            | 2 305        | 5 689         | 365.7         | 252.6        | 309.6        |
| Digestive organs (C15–C26)   | 1 087            | 530          | 1 617         | 117.5         | 58.1         | 88.0         |
| Colon (C18)  | 316              | 197          | 513           | 34.2          | 21.6         | 27.9         |
| Trachea, bronchus and lung (C33, C34)  | 859              | 419          | 1 278         | 92.8          | 45.9         | 69.5         |
| Breast (C50)   | 6                | 481          | 487           | 0.6           | 52.7         | 26.5         |
| Female genital organs (C51–C58)  | ..               | 259          | 259           | ..            | 28.4         | 14.1         |
| Male genital organs (C60–C63)  | 169              | ..           | 169           | 18.3          | ..           | 9.2          |
| Diseases of the circulatory system (I00–I99)                                 | 2 253            | 799          | 3 052         | 243.5         | 87.6         | 166.1        |
| Ischaemic heart diseases (I20–I25)   | 1 564            | 416          | 1 980         | 169.0         | 45.6         | 107.7        |
| Acute myocardial infarction (I21)  | 795              | 211          | 1 006         | 85.9          | 23.1         | 54.7         |
| Cerebrovascular diseases (I60–I69)   | 291              | 184          | 475           | 31.4          | 20.2         | 25.8         |
| Diseases of the respiratory system (J00–J99)                                 | 369              | 292          | 661           | 39.9          | 32.0         | 36.0         |
| Chronic lower respiratory diseases (J40–J47)                                 | 241              | 220          | 461           | 26.0          | 24.1         | 25.1         |
| Diseases of the digestive system (K00–K93)                                   | 319              | 147          | 466           | 34.5          | 16.1         | 25.4         |
| External causes of morbidity and mortality (V01–Y98)                         | 459              | 172          | 631           | 49.6          | 18.9         | 34.3         |

(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.

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

| Cause of death and ICD code                                | NUMBER OF DEATHS |               |               | RATES(a).....  |                |                |
|--|------------------|---------------|---------------|----------------|----------------|----------------|
|  | Males            | Females       | Persons       | Males          | Females        | Persons        |
| <b>65–74 years</b>   | <b>14 570</b>    | <b>8 935</b>  | <b>23 505</b> | <b>2 278.9</b> | <b>1 309.4</b> | <b>1 778.4</b> |
| Malignant neoplasms (C00–C97)                              | 6 190            | 3 856         | 10 046        | 968.2          | 565.1          | 760.1          |
| Digestive organs (C15–C26)                                 | 1 823            | 1 039         | 2 862         | 285.1          | 152.3          | 216.5          |
| Colon (C18)  | 543              | 383           | 926           | 84.9           | 56.1           | 70.1           |
| Trachea, bronchus and lung (C33, C34)                      | 1 668            | 757           | 2 425         | 260.9          | 110.9          | 183.5          |
| Breast (C50)   | 7                | 557           | 564           | 1.1            | 81.6           | 42.7           |
| Prostate (C61)   | 645              | ..            | 645           | 100.9          | ..             | 48.8           |
| Lymphoid, haematopoietic and related tissue (C81–C96)      | 534              | 387           | 921           | 83.5           | 56.7           | 69.7           |
| Endocrine, nutritional and metabolic diseases (E00–E90)    | 571              | 368           | 939           | 89.3           | 53.9           | 71.0           |
| Diabetes mellitus (E10–E14)                                | 420              | 261           | 681           | 65.7           | 38.2           | 51.5           |
| Diseases of the nervous system (G00–G99)                   | 335              | 283           | 618           | 52.4           | 41.5           | 46.8           |
| Alzheimer's disease (G30)                                  | 63               | 73            | 136           | 9.9            | 10.7           | 10.3           |
| Diseases of the circulatory system (I00–I99)               | 4 749            | 2 626         | 7 375         | 742.8          | 384.8          | 558.0          |
| Ischaemic heart diseases (I20–I25)                         | 3 122            | 1 407         | 4 529         | 488.3          | 206.2          | 342.7          |
| Acute myocardial infarction (I21)                          | 1 727            | 830           | 2 557         | 270.1          | 121.6          | 193.5          |
| Cerebrovascular diseases (I60–I69)                         | 810              | 629           | 1 439         | 126.7          | 92.2           | 108.9          |
| Diseases of the respiratory system (J00–J99)               | 1 267            | 834           | 2 101         | 198.2          | 122.2          | 159.0          |
| Chronic lower respiratory diseases (J40–J47)               | 910              | 625           | 1 535         | 142.3          | 91.6           | 116.1          |
| Diseases of the digestive system (K00–K93)                 | 417              | 262           | 679           | 65.2           | 38.4           | 51.4           |
| <b>75–84 years</b>   | <b>21 395</b>    | <b>18 980</b> | <b>40 375</b> | <b>5 992.0</b> | <b>3 829.1</b> | <b>4 734.7</b> |
| Malignant neoplasms (C00–C97)                              | 6 597            | 4 862         | 11 459        | 1 847.6        | 980.9          | 1 343.8        |
| Digestive organs (C15–C26)                                 | 1 772            | 1 492         | 3 264         | 496.3          | 301.0          | 382.8          |
| Colon (C18)  | 543              | 514           | 1 057         | 152.1          | 103.7          | 124.0          |
| Trachea, bronchus and lung (C33, C34)                      | 1 440            | 756           | 2 196         | 403.3          | 152.5          | 257.5          |
| Breast (C50)   | 9                | 562           | 571           | 2.5            | 113.4          | 67.0           |
| Male genital organs (C60–C63)                              | 1 208            | ..            | 1 208         | 338.3          | ..             | 141.7          |
| Prostate (C61)   | 1 200            | ..            | 1 200         | 336.1          | ..             | 140.7          |
| Lymphoid, haematopoietic and related tissue (C81–C96)      | 635              | 581           | 1 216         | 177.8          | 117.2          | 142.6          |
| Endocrine, nutritional and metabolic diseases (E00–E90)    | 713              | 737           | 1 450         | 199.4          | 148.7          | 169.9          |
| Diabetes mellitus (E10–E14)                                | 572              | 529           | 1 101         | 160.2          | 106.7          | 129.1          |
| Organic, including symptomatic, mental disorders (F00–F09) | 272              | 355           | 627           | 76.2           | 71.6           | 73.5           |
| Diseases of the nervous system (G00–G99)                   | 642              | 686           | 1 328         | 179.8          | 138.4          | 155.7          |
| Alzheimer's disease (G30)                                  | 202              | 320           | 522           | 56.6           | 64.6           | 61.2           |
| Diseases of the circulatory system (I00–I99)               | 8 541            | 8 381         | 16 922        | 2 392.0        | 1 690.8        | 1 984.4        |
| Ischaemic heart diseases (I20–I25)                         | 4 852            | 4 148         | 9 000         | 1 358.9        | 836.8          | 1 055.4        |
| Acute myocardial infarction (I21)                          | 2 654            | 2 488         | 5 142         | 743.3          | 501.9          | 603.0          |
| Cerebrovascular diseases (I60–I69)                         | 1 936            | 2 383         | 4 319         | 542.2          | 480.8          | 506.5          |
| Diseases of arteries, arterioles and capillaries (I70–I79) | 573              | 436           | 1 009         | 160.5          | 88.0           | 118.3          |
| Diseases of the respiratory system (J00–J99)               | 2 345            | 1 647         | 3 992         | 656.8          | 332.3          | 468.1          |
| Chronic lower respiratory diseases (J40–J47)               | 1 441            | 943           | 2 384         | 403.6          | 190.2          | 279.6          |
| Diseases of the digestive system (K00–K93)                 | 596              | 612           | 1 208         | 166.9          | 123.5          | 141.7          |
| Diseases of the genitourinary system (N00–N99)             | 546              | 550           | 1 096         | 152.9          | 111.0          | 128.5          |
| External causes of morbidity and mortality (V01–Y98)       | 406              | 355           | 761           | 113.7          | 71.8           | 89.4           |
| Falls (W00–W19)  | 71               | 81            | 152           | 19.9           | 16.3           | 17.8           |

(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.

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

| Cause of death and ICD code  | NUMBER OF DEATHS |               |               | RATES(a).....   |                 |                 |
|--|------------------|---------------|---------------|-----------------|-----------------|-----------------|
|  | Males            | Females       | Persons       | Males           | Females         | Persons         |
| <b>85 years and over</b>   | <b>13 140</b>    | <b>23 914</b> | <b>37 054</b> | <b>16 031.8</b> | <b>12 980.8</b> | <b>13 920.2</b> |
| Malignant neoplasms (C00–C97)  | 2 465            | 2 743         | 5 208         | 3 007.5         | 1 488.9         | 1 956.5         |
| Digestive organs (C15–C26)   | 600              | 983           | 1 583         | 732.0           | 533.6           | 594.7           |
| Colon (C18)  | 216              | 348           | 564           | 263.5           | 188.9           | 211.9           |
| Pancreas (C25)   | 84               | 183           | 267           | 102.5           | 99.3            | 100.3           |
| Trachea, bronchus and lung (C33, C34)  | 346              | 220           | 566           | 422.1           | 119.4           | 212.6           |
| Breast (C50)   | 2                | 325           | 327           | 2.4             | 176.4           | 122.8           |
| Male genital organs (C60–C63)  | 676              | ..            | 676           | 824.8           | ..              | 254.0           |
| Prostate (C61)   | 673              | ..            | 673           | 821.1           | ..              | 252.8           |
| Lymphoid, haematopoietic and related tissue (C81–C96)  | 232              | 324           | 556           | 283.1           | 175.9           | 208.9           |
| Endocrine, nutritional and metabolic diseases (E00–E90)  | 400              | 698           | 1 098         | 488.0           | 378.9           | 412.5           |
| Diabetes mellitus (E10–E14)  | 300              | 463           | 763           | 366.0           | 251.3           | 286.6           |
| Organic, including symptomatic, mental disorders (F00–F09)   | 333              | 1 033         | 1 366         | 406.3           | 560.7           | 513.2           |
| Diseases of the nervous system (G00–G99)   | 454              | 983           | 1 437         | 553.9           | 533.6           | 539.8           |
| Alzheimer's disease (G30)  | 214              | 702           | 916           | 261.1           | 381.1           | 344.1           |
| Diseases of the circulatory system (I00–I99)   | 6 336            | 13 288        | 19 624        | 7 730.4         | 7 212.9         | 7 372.2         |
| Ischaemic heart diseases (I20–I25)   | 3 257            | 6 134         | 9 391         | 3 973.8         | 3 329.6         | 3 528.0         |
| Acute myocardial infarction (I21)  | 1 798            | 3 333         | 5 131         | 2 193.7         | 1 809.2         | 1 927.6         |
| Pulmonary heart disease and diseases of pulmonary circulation and other forms of heart disease (I26–I52) | 915              | 2 072         | 2 987         | 1 116.4         | 1 124.7         | 1 122.1         |
| Heart failure (I50)  | 492              | 1 104         | 1 596         | 600.3           | 599.3           | 599.6           |
| Cerebrovascular diseases (I60–I69)   | 1 606            | 3 936         | 5 542         | 1 959.4         | 2 136.5         | 2 082.0         |
| Diseases of arteries, arterioles and capillaries (I70–I79)   | 401              | 624           | 1 025         | 489.3           | 338.7           | 385.1           |
| Diseases of the respiratory system (J00–J99)   | 1 501            | 1 926         | 3 427         | 1 831.3         | 1 045.5         | 1 287.4         |
| Influenza and pneumonia (J10–J18)  | 480              | 957           | 1 437         | 585.6           | 519.5           | 539.8           |
| Chronic lower respiratory diseases (J40–J47)   | 707              | 594           | 1 301         | 862.6           | 322.4           | 488.8           |
| Diseases of the digestive system (K00–K93)   | 362              | 873           | 1 235         | 441.7           | 473.9           | 464.0           |
| Diseases of the genitourinary system (N00–N99)   | 461              | 807           | 1 268         | 562.5           | 438.0           | 476.4           |
| Renal failure (N17–N19)  | 309              | 485           | 794           | 377.0           | 263.3           | 298.3           |
| External causes of morbidity and mortality (V01–Y98)   | 342              | 568           | 910           | 417.3           | 308.3           | 341.9           |
| Falls (W00–W19)  | 94               | 126           | 220           | 114.7           | 68.4            | 82.6            |

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

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

| Cause of death and ICD code   | 1991.....    |              |              | 1996.....    |              |              |
|---|--------------|--------------|--------------|--------------|--------------|--------------|
|   | Males        | Females      | Persons      | Males        | Females      | Persons      |
| <b>All causes</b>   | <b>885.1</b> | <b>537.3</b> | <b>689.3</b> | <b>820.0</b> | <b>500.9</b> | <b>641.4</b> |
| Chapter I Certain infectious and parasitic diseases (A00–B99)   | 6.2          | 3.7          | 4.8          | 12.2         | 4.8          | 8.3          |
| Septicaemia (A40, A41)  | 2.7          | 1.8          | 2.2          | 3.5          | 2.4          | 2.9          |
| Human immunodeficiency virus (HIV) disease (B20–B24)(b)   | 6.4          | 0.3          | 3.4          | 5.8          | 0.2          | 3.0          |
| Chapter II Neoplasms (C00–D48)  | 237.1        | 144.3        | 182.9        | 234.0        | 140.9        | 179.8        |
| Malignant neoplasms (C00–C97)   | 234.8        | 142.7        | 181.0        | 230.2        | 138.6        | 177.0        |
| Digestive organs (C15–C26)  | 64.5         | 39.7         | 50.7         | 62.3         | 38.3         | 49.1         |
| Oesophagus (C15)  | 6.7          | 2.8          | 4.6          | 7.2          | 2.8          | 4.8          |
| Stomach (C16)   | 10.6         | 5.0          | 7.4          | 8.8          | 4.2          | 6.2          |
| Colon (C18)   | 21.1         | 15.5         | 17.9         | 21.7         | 15.1         | 18.0         |
| Rectosigmoid junction, rectum, anus and anal canal (C19–C21)  | 8.6          | 4.8          | 6.5          | 7.5          | 3.8          | 5.5          |
| Liver and intrahepatic bile ducts (C22)   | 3.8          | 1.4          | 2.5          | 4.7          | 1.7          | 3.1          |
| Pancreas (C25)  | 9.6          | 6.7          | 7.9          | 9.0          | 7.3          | 8.2          |
| Trachea, bronchus and lung (C33, C34)   | 59.6         | 18.3         | 36.3         | 55.4         | 19.4         | 35.3         |
| Melanoma of skin (C43)  | 6.5          | 3.2          | 4.7          | 6.7          | 3.0          | 4.7          |
| Breast (C50)  | 0.2          | 27.0         | 14.6         | 0.2          | 25.0         | 13.5         |
| Female genital organs (C51–C58)   | ..           | 14.7         | 8.1          | ..           | 13.8         | 7.5          |
| Ovary (C56)   | ..           | 7.6          | 4.1          | ..           | 7.6          | 4.1          |
| Male genital organs (C60–C63)   | 31.7         | ..           | 12.5         | 33.7         | ..           | 13.4         |
| Prostate (C61)  | 31.1         | ..           | 12.2         | 33.1         | ..           | 13.2         |
| Urinary tract (C64–C68)   | 12.3         | 5.7          | 8.5          | 12.0         | 5.1          | 8.0          |
| Kidney, except renal pelvis (C64)   | 5.1          | 3.1          | 4.0          | 5.0          | 2.8          | 3.8          |
| Bladder (C67)   | 6.9          | 2.2          | 4.1          | 6.7          | 2.0          | 3.9          |
| Brain (C71)   | 6.3          | 4.2          | 5.2          | 6.7          | 4.0          | 5.2          |
| Lymphoid, haematopoietic and related tissue (C81–C96)   | 21.4         | 13.9         | 17.2         | 21.6         | 13.9         | 17.3         |
| Leukaemia (C91–C95)   | 8.4          | 5.2          | 6.6          | 9.0          | 4.8          | 6.7          |
| In situ and benign neoplasms and neoplasms of uncertain or unknown behaviour (D00–D48)                                    | 2.3          | 1.6          | 1.9          | 3.8          | 2.3          | 2.8          |
| Chapter III Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50–D89) | 7.8          | 2.3          | 5.0          | 2.6          | 1.8          | 2.1          |
| Chapter IV Endocrine, nutritional and metabolic diseases (E00–E90)  | 19.9         | 15.0         | 17.0         | 23.4         | 16.3         | 19.4         |
| Diabetes mellitus (E10–E14)   | 15.8         | 11.5         | 13.2         | 18.3         | 12.3         | 14.9         |
| Chapter V Mental and behavioural disorders (F00–F99)  | 12.8         | 9.2          | 10.9         | 18.7         | 15.0         | 17.1         |
| Organic, including symptomatic, mental disorders (F00–F09)  | 8.0          | 7.4          | 7.7          | 11.9         | 13.0         | 12.8         |
| Class VI Disease of the nervous system (G00–G99)  | 16.1         | 11.8         | 13.6         | 18.5         | 12.7         | 15.2         |
| Alzheimer's disease (G30)   | 4.7          | 4.3          | 4.5          | 4.8          | 4.9          | 4.9          |
| 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)   | 381.1        | 246.1        | 306.7        | 326.3        | 211.2        | 262.7        |
| All heart disease (I05–I09, I11, I13, I20–I25, I26, I27, I30–I52)   | 280.4        | 164.9        | 216.4        | 238.1        | 139.2        | 183.3        |
| Acute rheumatic fever and chronic rheumatic heart diseases (I00–I09)  | 1.8          | 2.6          | 2.3          | 1.5          | 2.0          | 1.7          |
| Hypertensive diseases (I10–I15)   | 5.9          | 5.8          | 6.0          | 5.4          | 5.1          | 5.3          |
| Ischaemic heart diseases (I20–I25)  | 235.4        | 127.9        | 175.4        | 195.5        | 105.5        | 145.4        |
| Acute myocardial infarction (I21)   | 155.4        | 84.7         | 115.8        | 117.2        | 64.1         | 87.5         |
| Pulmonary heart disease and diseases of pulmonary circulation and other forms of heart disease (I26–I52)                  | 40.4         | 31.3         | 35.6         | 38.3         | 28.7         | 33.2         |
| Heart failure (I50)   | 17.2         | 15.0         | 15.9         | 14.6         | 12.7         | 13.5         |
| Cerebrovascular diseases (I60–I69)  | 72.3         | 64.9         | 68.8         | 65.5         | 57.7         | 61.5         |
| Diseases of arteries, arterioles and capillaries (I70–I79)  | 23.7         | 12.4         | 17.2         | 18.6         | 10.9         | 14.2         |
| Atherosclerosis (I70)   | 5.0          | 4.9          | 5.1          | 3.8          | 3.7          | 3.8          |
| Aortic aneurysm and dissection (I71)  | 13.3         | 4.4          | 8.1          | 11.0         | 4.3          | 7.1          |

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

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

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

| Cause of death and ICD code   | 2000.....    |              |              | 2001.....    |              |              |
|---|--------------|--------------|--------------|--------------|--------------|--------------|
|   | Males        | Females      | Persons      | Males        | Females      | Persons      |
| <b>All causes</b>   | <b>707.9</b> | <b>444.9</b> | <b>562.1</b> | <b>680.8</b> | <b>430.0</b> | <b>542.2</b> |
| Chapter I Certain infectious and parasitic diseases (A00–B99)   | 9.2          | 5.7          | 7.3          | 9.0          | 5.5          | 7.1          |
| Septicaemia (A40–A41)   | 4.9          | 3.3          | 3.9          | 4.6          | 3.5          | 3.9          |
| Human immunodeficiency virus (HIV) disease (B20–B24)(b)   | 1.6          | 0.1          | 0.9          | 1.3          | 0.1          | 0.7          |
| Chapter II Neoplasms (C00–D48)  | 213.7        | 129.0        | 165.1        | 212.2        | 129.7        | 165.1        |
| Malignant neoplasms (C00–C97)   | 209.5        | 126.4        | 161.9        | 208.3        | 127.1        | 162.0        |
| Digestive organs (C15–C26)  | 58.7         | 34.5         | 45.6         | 59.1         | 34.1         | 45.5         |
| Oesophagus (C15)  | 6.9          | 2.1          | 4.3          | 7.0          | 2.5          | 4.6          |
| Stomach (C16)   | 8.0          | 3.2          | 5.4          | 7.5          | 3.5          | 5.3          |
| Colon (C18)   | 18.2         | 13.2         | 15.5         | 17.7         | 12.2         | 14.6         |
| Rectosigmoid junction, rectum, anus and anal canal (C19–C21)  | 8.1          | 4.1          | 5.9          | 8.5          | 4.3          | 6.2          |
| Liver and intrahepatic bile ducts (C22)   | 5.3          | 1.9          | 3.4          | 5.3          | 1.9          | 3.5          |
| Pancreas (C25)  | 8.9          | 6.9          | 7.9          | 9.5          | 6.5          | 7.9          |
| Trachea, bronchus and lung (C33, C34)   | 47.5         | 19.4         | 31.9         | 46.5         | 19.9         | 31.8         |
| Melanoma of skin (C43)  | 6.4          | 3.0          | 4.5          | 6.8          | 3.1          | 4.8          |
| Breast (C50)  | 0.2          | 21.2         | 11.4         | 0.3          | 21.3         | 11.5         |
| Female genital organs (C51–C58)   | ..           | 11.8         | 6.4          | ..           | 12.2         | 6.6          |
| Ovary (C56)   | ..           | 6.5          | 3.5          | ..           | 6.8          | 3.7          |
| Male genital organs (C60–C63)   | 29.0         | ..           | 11.8         | 28.3         | ..           | 11.5         |
| Prostate (C61)  | 28.6         | ..           | 11.6         | 27.8         | ..           | 11.3         |
| Urinary tract (C64–C68)   | 11.2         | 4.5          | 7.4          | 11.7         | 5.0          | 7.9          |
| Kidney, except renal pelvis (C64)   | 4.8          | 2.4          | 3.5          | 4.9          | 2.7          | 3.7          |
| Bladder (C67)   | 6.1          | 1.8          | 3.6          | 6.4          | 1.9          | 3.8          |
| Brain (C71)   | 6.2          | 3.9          | 5.0          | 6.2          | 3.9          | 5.0          |
| Lymphoid, haematopoietic and related tissue (C81–C96)   | 21.4         | 13.6         | 17.0         | 20.1         | 13.0         | 16.1         |
| Leukaemia (C91–C95)   | 8.0          | 4.8          | 6.2          | 8.1          | 4.6          | 6.1          |
| In situ and benign neoplasms and neoplasms of uncertain or unknown behaviour (D00–D48)                                    | 4.2          | 2.6          | 3.2          | 3.8          | 2.6          | 3.1          |
| Chapter III Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50–D89) | 2.0          | 1.6          | 1.8          | 1.9          | 1.6          | 1.7          |
| Chapter IV Endocrine, nutritional and metabolic diseases (E00–E90)  | 22.4         | 15.2         | 18.4         | 22.5         | 14.8         | 18.3         |
| Diabetes mellitus (E10–E14)   | 16.8         | 10.6         | 13.3         | 16.5         | 10.2         | 13.0         |
| Chapter V Mental and behavioural disorders (F00–F99)  | 14.8         | 11.0         | 13.1         | 11.2         | 9.5          | 10.5         |
| Organic, including symptomatic, mental disorders (F00–F09)  | 7.4          | 8.5          | 8.2          | 7.2          | 8.1          | 7.9          |
| Class VI Disease of the nervous system (G00–G99)  | 19.6         | 15.5         | 17.4         | 19.4         | 15.8         | 17.4         |
| Alzheimer's disease (G30)   | 5.0          | 6.7          | 6.2          | 5.2          | 6.4          | 6.0          |
| 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)   | 253.7        | 170.2        | 208.1        | 240.9        | 161.2        | 197.5        |
| All heart disease (I05–I09, I11, I13, I20–I25, I26, I27, I30–I52)   | 182.6        | 110.6        | 143.1        | 173.2        | 104.8        | 135.9        |
| Acute rheumatic fever and chronic rheumatic heart diseases (I00–I09)  | 1.1          | 1.3          | 1.2          | 0.8          | 1.2          | 1.1          |
| Hypertensive diseases (I10–I15)   | 4.8          | 4.9          | 5.0          | 4.5          | 4.8          | 4.8          |
| Ischaemic heart diseases (I20–I25)  | 149.0        | 82.8         | 112.5        | 141.2        | 78.0         | 106.5        |
| Acute myocardial infarction (I21)   | 80.7         | 47.1         | 62.1         | 76.2         | 44.3         | 58.7         |
| Pulmonary heart disease and diseases of pulmonary circulation and other forms of heart disease (I26–I52)                  | 30.1         | 23.9         | 26.8         | 29.0         | 23.3         | 26.0         |
| Heart failure (I50)   | 10.9         | 9.9          | 10.3         | 10.3         | 9.3          | 9.7          |
| Cerebrovascular diseases (I60–I69)  | 53.2         | 47.6         | 50.5         | 50.0         | 44.8         | 47.4         |
| Diseases of arteries, arterioles and capillaries (I70–I79)  | 14.2         | 8.5          | 11.0         | 14.2         | 7.9          | 10.5         |
| Atherosclerosis (I70)   | 2.1          | 1.9          | 2.0          | 1.8          | 1.5          | 1.7          |
| Aortic aneurysm and dissection (I71)  | 8.5          | 3.9          | 5.9          | 8.1          | 3.8          | 5.6          |

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

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



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

| Cause of death and ICD code   | 1991..... |         |         | 1996..... |         |         |
|---|-----------|---------|---------|-----------|---------|---------|
|   | Males     | Females | Persons | Males     | Females | Persons |
| Chapter X Diseases of the respiratory system (J00–J99)  | 78.2      | 34.2    | 51.5    | 71.1      | 37.5    | 50.7    |
| Influenza and pneumonia (J10–J18)   | 12.7      | 9.0     | 10.5    | 10.0      | 7.8     | 8.8     |
| Chronic lower respiratory diseases (J40–J47)  | 56.3      | 20.9    | 34.8    | 51.0      | 24.3    | 34.7    |
| Emphysema (J43)   | 7.7       | 2.4     | 4.5     | 7.4       | 2.9     | 4.8     |
| Asthma and status asthmaticus (J45, J46)  | 4.4       | 4.3     | 4.3     | 3.5       | 3.8     | 3.7     |
| Chapter XI Diseases of the digestive system (K00–K93)   | 28.9      | 18.9    | 23.5    | 23.9      | 15.2    | 19.3    |
| Diseases of oesophagus, stomach and duodenum (K20–K31)  | 6.4       | 4.5     | 5.3     | 3.9       | 2.9     | 3.3     |
| Gastric and duodenal ulcer (K25–K27)  | 5.1       | 3.8     | 4.4     | 2.9       | 2.2     | 2.5     |
| Diseases of liver (K70–K77)   | 10.5      | 3.8     | 7.0     | 9.3       | 3.5     | 6.3     |
| Chapter XII Diseases of the skin and subcutaneous tissue (L00–L99)  | 0.6       | 0.7     | 0.7     | 0.8       | 0.9     | 0.8     |
| Chapter XIII Diseases of the musculoskeletal system and connective tissue (M00–M99)                             | 2.9       | 4.5     | 3.8     | 2.9       | 4.6     | 3.9     |
| Arthropathies and systemic connective tissue disorders (M00–M36)  | 1.8       | 3.5     | 2.8     | 1.8       | 3.2     | 2.6     |
| Chapter XIV Diseases of the genitourinary system (N00–N99)  | 13.9      | 10.2    | 11.4    | 12.9      | 9.7     | 10.8    |
| Renal failure (N17–N19)   | 7.5       | 5.1     | 5.9     | 9.0       | 6.0     | 7.1     |
| Chapter XV Pregnancy, childbirth and the puerperium (O00–O99)   | ..        | 0.2     | 0.1     | ..        | 0.1     | 0.1     |
| Chapter XVI Certain conditions originating in the perinatal period (P00–P96)                                    | 5.0       | 4.2     | 4.6     | 4.3       | 3.6     | 4.0     |
| Chapter XVII Congenital malformations, deformations and chromosomal abnormalities (Q00–Q99)                     | 4.8       | 4.2     | 4.5     | 3.9       | 3.4     | 3.6     |
| Congenital malformations of the circulatory system (Q20–Q28)  | 1.7       | 1.4     | 1.6     | 1.5       | 1.3     | 1.4     |
| Chapter XVIII Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00–R99) | 4.7       | 2.9     | 3.8     | 3.2       | 2.4     | 2.8     |
| Chapter XX External causes of morbidity and mortality (V01–Y98)   | 64.8      | 24.9    | 44.6    | 61.2      | 20.6    | 40.5    |
| Accidents (V01–X59)   | 39.2      | 16.6    | 27.7    | 36.2      | 14.1    | 25.0    |
| Transport accidents (V01–V99)   | 21.3      | 8.0     | 14.6    | 18.2      | 6.2     | 12.1    |
| Falls (W00–W19)   | 3.6       | 1.8     | 2.6     | 3.4       | 1.4     | 2.3     |
| Accidental drowning and submersion (W65–W74)  | 2.4       | 0.7     | 1.6     | 2.1       | 0.6     | 1.4     |
| Intentional self-harm (X60–X84)   | 21.7      | 5.9     | 13.7    | 21.3      | 4.9     | 13.0    |
| Hanging, strangulation and suffocation (X70)  | 5.7       | 1.2     | 3.4     | 7.5       | 1.3     | 4.3     |
| Assault (X85–Y09)   | 2.4       | 1.7     | 2.0     | 2.5       | 1.1     | 1.8     |

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



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

| Cause of death and ICD code   | 2000..... |         |         | 2001..... |         |         |
|---|-----------|---------|---------|-----------|---------|---------|
|   | Males     | Females | Persons | Males     | Females | Persons |
| Chapter X Diseases of the respiratory system (J00–J99)  | 63.8      | 35.0    | 46.5    | 58.8      | 33.7    | 43.8    |
| Influenza and pneumonia (J10–J18)   | 14.4      | 10.0    | 11.7    | 12.3      | 9.1     | 10.4    |
| Chronic lower respiratory diseases (J40–J47)  | 37.6      | 18.8    | 26.3    | 35.0      | 18.8    | 25.2    |
| Emphysema (J43)   | 5.2       | 1.9     | 3.2     | 4.2       | 2.1     | 2.9     |
| Asthma and status asthmaticus (J45 ,J46)  | 1.8       | 2.4     | 2.1     | 1.8       | 1.9     | 1.9     |
| Chapter XI Diseases of the digestive system (K00–K93)   | 21.4      | 14.6    | 17.8    | 20.4      | 13.9    | 17.0    |
| Diseases of oesophagus, stomach and duodenum (K20–K31)  | 3.5       | 2.4     | 2.9     | 3.1       | 2.1     | 2.5     |
| Gastric and duodenal ulcer (K25–K27)  | 2.5       | 1.7     | 2.0     | 2.1       | 1.5     | 1.8     |
| Diseases of liver (K70–K77)   | 8.0       | 3.1     | 5.4     | 7.9       | 3.1     | 5.4     |
| Chapter XII Diseases of the skin and subcutaneous tissue (L00–L99)  | 1.1       | 1.0     | 1.0     | 1.1       | 1.0     | 1.0     |
| Chapter XIII Diseases of the musculoskeletal system and connective tissue (M00–M99)                             | 3.0       | 4.2     | 3.7     | 2.9       | 4.2     | 3.7     |
| Arthropathies and systemic connective tissue disorders (M00–M36)  | 2.0       | 3.0     | 2.5     | 1.9       | 2.8     | 2.4     |
| Chapter XIV Diseases of the genitourinary system (N00–N99)  | 13.0      | 10.0    | 11.1    | 12.9      | 9.8     | 11.0    |
| Renal failure (N17–N19)   | 8.8       | 5.9     | 7.0     | 8.4       | 5.4     | 6.5     |
| Chapter XV Pregnancy, childbirth and the puerperium (O00–O99)   | ..        | 0.2     | 0.1     | ..        | 0.1     | 0.1     |
| Chapter XVI Certain conditions originating in the perinatal period (P00–P96)                                    | 4.0       | 3.3     | 3.7     | 4.4       | 3.3     | 3.9     |
| Chapter XVII Congenital malformations, deformations and chromosomal abnormalities (Q00–Q99)                     | 3.6       | 3.1     | 3.3     | 3.6       | 3.0     | 3.3     |
| Congenital malformations of the circulatory system (Q20–Q28)  | 1.3       | 1.1     | 1.2     | 1.3       | 1.0     | 1.1     |
| Chapter XVIII Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00–R99) | 3.8       | 2.5     | 3.2     | 2.8       | 2.0     | 2.4     |
| Chapter XX External causes of morbidity and mortality (V01–Y98)   | 58.8      | 22.8    | 40.5    | 56.9      | 20.6    | 38.4    |
| Accidents (V01–X59)   | 35.5      | 15.4    | 25.3    | 33.2      | 13.5    | 23.1    |
| Transport accidents (V01–V99)   | 15.7      | 5.7     | 10.6    | 15.9      | 5.0     | 10.4    |
| Falls (W00–W19)   | 3.3       | 1.8     | 2.5     | 3.6       | 1.9     | 2.7     |
| Accidental drowning and submersion (W65–W74)  | 1.9       | 0.5     | 1.2     | 2.2       | 0.5     | 1.3     |
| Intentional self-harm (X60–X84)   | 19.6      | 5.1     | 12.2    | 20.1      | 5.1     | 12.5    |
| Hanging, strangulation and suffocation (X70)  | 8.7       | 1.9     | 5.2     | 9.1       | 2.0     | 5.5     |
| Assault (X85–Y09)   | 2.1       | 1.2     | 1.7     | 2.0       | 1.1     | 1.6     |

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

## 1.4 UNDERLYING CAUSE, Age and state or territory of usual residence

|  | NSW.....     |            | Vic. ....  |            | Qld.....   |            | SA.....    |            |
|--|--------------|------------|------------|------------|------------|------------|------------|------------|
| Cause of death and ICD code  | Males        | Females    | Males      | Females    | Males      | Females    | Males      | Females    |
| <b>Under 1 year</b>  | <b>251</b>   | <b>198</b> | <b>166</b> | <b>118</b> | <b>164</b> | <b>118</b> | <b>36</b>  | <b>43</b>  |
| Certain conditions originating in the perinatal period (P00–P96)               | 143          | 100        | 91         | 68         | 86         | 58         | 17         | 24         |
| Congenital malformations, deformations and chromosomal abnormalities (Q00–Q99) | 58           | 48         | 49         | 35         | 37         | 28         | 9          | 16         |
| Sudden infant death syndrome (R95)   | 18           | 14         | 11         | 4          | 16         | 13         | 3          | —          |
| <b>1–14 years</b>  | <b>110</b>   | <b>82</b>  | <b>61</b>  | <b>57</b>  | <b>93</b>  | <b>51</b>  | <b>23</b>  | <b>19</b>  |
| Malignant neoplasms (C00–C97)  | 25           | 16         | 15         | 8          | 13         | 8          | 4          | 2          |
| Diseases of the nervous system (G00–G99)                                       | 7            | 8          | 6          | 8          | 9          | 7          | 1          | 6          |
| Diseases of the circulatory system (I00–I99)                                   | 8            | 4          | 1          | 5          | 4          | 6          | 1          | —          |
| Congenital malformations, deformations and chromosomal abnormalities (Q00–Q99) | 9            | 14         | 1          | 4          | 7          | 5          | —          | 1          |
| External causes of morbidity and mortality (V01–Y98)                           | 43           | 25         | 27         | 16         | 40         | 19         | 13         | 6          |
| <b>15–24 years</b>   | <b>339</b>   | <b>133</b> | <b>243</b> | <b>82</b>  | <b>254</b> | <b>78</b>  | <b>74</b>  | <b>21</b>  |
| Malignant neoplasms (C00–C97)  | 29           | 21         | 11         | 9          | 9          | 6          | 12         | 4          |
| Mental and behavioural disorders due to psychoactive substance use (F10–F19)   | 9            | 2          | 5          | 2          | 3          | 1          | 1          | —          |
| Diseases of the nervous system (G00–G99)                                       | 14           | 8          | 13         | 8          | 9          | 2          | 1          | —          |
| External causes of morbidity and mortality (V01–Y98)                           | 251          | 71         | 191        | 48         | 209        | 48         | 57         | 15         |
| Transport accidents (V01–V99)  | 119          | 34         | 98         | 21         | 88         | 20         | 22         | 7          |
| Intentional self-harm (X60–X84)  | 75           | 18         | 51         | 16         | 70         | 13         | 27         | 4          |
| <b>25–34 years</b>   | <b>517</b>   | <b>171</b> | <b>364</b> | <b>165</b> | <b>318</b> | <b>114</b> | <b>127</b> | <b>46</b>  |
| Malignant neoplasms (C00–C97)  | 49           | 31         | 31         | 45         | 24         | 24         | 15         | 8          |
| Mental and behavioural disorders due to psychoactive substance use (F10–F19)   | 24           | 7          | 10         | 4          | 9          | 1          | 3          | 2          |
| Diseases of the circulatory system (I00–I99)                                   | 45           | 19         | 23         | 9          | 26         | 16         | 8          | 5          |
| Diseases of the digestive system (K00–K93)                                     | 4            | 4          | 1          | 1          | 2          | 4          | —          | —          |
| External causes of morbidity and mortality (V01–Y98)                           | 344          | 75         | 258        | 70         | 224        | 43         | 86         | 20         |
| Transport accidents (V01–V99)  | 95           | 20         | 76         | 15         | 60         | 6          | 22         | 9          |
| Intentional self-harm (X60–X84)  | 138          | 31         | 112        | 34         | 91         | 21         | 38         | 4          |
| <b>35–44 years</b>   | <b>733</b>   | <b>423</b> | <b>518</b> | <b>278</b> | <b>449</b> | <b>264</b> | <b>198</b> | <b>126</b> |
| Malignant neoplasms (C00–C97)  | 138          | 196        | 122        | 133        | 89         | 111        | 46         | 50         |
| Mental and behavioural disorders due to psychoactive substance use (F10–F19)   | 26           | 8          | 9          | 3          | 10         | 2          | 1          | —          |
| Diseases of the circulatory system (I00–I99)                                   | 134          | 56         | 87         | 27         | 81         | 50         | 27         | 17         |
| Diseases of the digestive system (K00–K93)                                     | 39           | 8          | 21         | 9          | 19         | 14         | 7          | 5          |
| External causes of morbidity and mortality (V01–Y98)                           | 295          | 85         | 194        | 63         | 193        | 54         | 90         | 31         |
| Transport accidents (V01–V99)  | 49           | 19         | 48         | 13         | 47         | 18         | 21         | 5          |
| Intentional self-harm (X60–X84)  | 137          | 35         | 95         | 30         | 87         | 16         | 50         | 13         |
| <b>45–54 years</b>   | <b>1 386</b> | <b>799</b> | <b>905</b> | <b>654</b> | <b>840</b> | <b>498</b> | <b>314</b> | <b>199</b> |
| Malignant neoplasms (C00–C97)  | 465          | 443        | 334        | 399        | 298        | 264        | 96         | 118        |
| Trachea, bronchus and lung (C33, C34)  | 86           | 64         | 55         | 46         | 57         | 38         | 18         | 17         |
| Breast (C50)   | —            | 137        | 1          | 123        | 1          | 88         | —          | 30         |
| Diseases of the circulatory system (I00–I99)                                   | 396          | 121        | 260        | 79         | 219        | 78         | 85         | 25         |
| Ischaemic heart diseases (I20–I25)   | 273          | 48         | 176        | 33         | 163        | 35         | 59         | 13         |
| Cerebrovascular diseases (I60–I69)   | 37           | 38         | 39         | 18         | 29         | 21         | 8          | 6          |
| Diseases of the respiratory system (J00–J99)                                   | 33           | 29         | 24         | 19         | 27         | 19         | 12         | 8          |
| Disease of the digestive system (K00–K93)                                      | 77           | 22         | 41         | 23         | 39         | 24         | 22         | 4          |
| External causes of morbidity and mortality (V01–Y98)                           | 258          | 89         | 136        | 59         | 171        | 57         | 61         | 18         |
| Transport accidents (V01–V99)  | 48           | 22         | 44         | 11         | 42         | 19         | 14         | 4          |
| Intentional self-harm (X60–X84)  | 121          | 37         | 57         | 24         | 69         | 20         | 28         | 8          |

## 1.4 UNDERLYING CAUSE, Age and state or territory of usual residence *continued*

|  | WA.....      |                | Tas.....     |                | NT.....      |                | ACT.....     |                |
|--|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|
| <i>Cause of death and ICD code</i>   | <i>Males</i> | <i>Females</i> | <i>Males</i> | <i>Females</i> | <i>Males</i> | <i>Females</i> | <i>Males</i> | <i>Females</i> |
| <b>Under 1 year</b>  | <b>73</b>    | <b>49</b>      | <b>22</b>    | <b>18</b>      | <b>30</b>    | <b>11</b>      | <b>9</b>     | <b>3</b>       |
| Certain conditions originating in the perinatal period (P00–P96)               | 26           | 22             | 8            | 6              | 19           | 5              | 2            | 2              |
| Congenital malformations, deformations and chromosomal abnormalities (Q00–Q99) | 21           | 7              | 5            | 8              | 5            | 3              | 2            | 1              |
| Sudden infant death syndrome (R95)   | 7            | 6              | 2            | 2              | 2            | 1              | 2            | —              |
| <b>1–14 years</b>  | <b>52</b>    | <b>17</b>      | <b>9</b>     | <b>3</b>       | <b>6</b>     | <b>11</b>      | <b>5</b>     | <b>3</b>       |
| Malignant neoplasms (C00–C97)  | 10           | 4              | 3            | 2              | 1            | 3              | 1            | 1              |
| Diseases of the nervous system (G00–G99)                                       | 2            | 1              | 1            | —              | —            | 2              | 2            | —              |
| Diseases of the circulatory system (I00–I99)                                   | 2            | 1              | —            | —              | 1            | 1              | —            | —              |
| Congenital malformations, deformations and chromosomal abnormalities (Q00–Q99) | 7            | —              | 1            | —              | —            | —              | 1            | 1              |
| External causes of morbidity and mortality (V01–Y98)                           | 20           | 10             | 3            | —              | 3            | 4              | 1            | 1              |
| <b>15–24 years</b>   | <b>136</b>   | <b>44</b>      | <b>27</b>    | <b>12</b>      | <b>32</b>    | <b>12</b>      | <b>17</b>    | <b>6</b>       |
| Malignant neoplasms (C00–C97)  | 6            | 6              | 1            | 1              | 1            | —              | —            | —              |
| Mental and behavioural disorders due to psychoactive substance use (F10–F19)   | —            | —              | —            | —              | 2            | 1              | —            | —              |
| Diseases of the nervous system (G00–G99)                                       | 3            | —              | 1            | 1              | 2            | —              | 3            | —              |
| External causes of morbidity and mortality (V01–Y98)                           | 117          | 32             | 20           | 7              | 25           | 8              | 11           | 5              |
| Transport accidents (V01–V99)  | 58           | 13             | 9            | 3              | 10           | 2              | 1            | 1              |
| Intentional self-harm (X60–X84)  | 39           | 5              | 2            | 2              | 8            | 2              | 4            | 3              |
| <b>25–34 years</b>   | <b>176</b>   | <b>74</b>      | <b>46</b>    | <b>10</b>      | <b>60</b>    | <b>15</b>      | <b>33</b>    | <b>11</b>      |
| Malignant neoplasms (C00–C97)  | 11           | 20             | 2            | 1              | —            | —              | 2            | 3              |
| Mental and behavioural disorders due to psychoactive substance use (F10–F19)   | 2            | 3              | —            | —              | —            | —              | 1            | —              |
| Diseases of the circulatory system (I00–I99)                                   | 15           | 7              | 3            | —              | 14           | 3              | 3            | —              |
| Diseases of the digestive system (K00–K93)                                     | 1            | 2              | 1            | —              | 3            | 1              | 1            | —              |
| External causes of morbidity and mortality (V01–Y98)                           | 129          | 33             | 32           | 8              | 38           | 6              | 24           | 4              |
| Transport accidents (V01–V99)  | 30           | 5              | 9            | 1              | 7            | 3              | 9            | 2              |
| Intentional self-harm (X60–X84)  | 61           | 13             | 17           | 4              | 18           | —              | 11           | 1              |
| <b>35–44 years</b>   | <b>232</b>   | <b>141</b>     | <b>51</b>    | <b>36</b>      | <b>71</b>    | <b>32</b>      | <b>28</b>    | <b>12</b>      |
| Malignant neoplasms (C00–C97)  | 29           | 46             | 5            | 16             | 7            | 3              | 4            | 2              |
| Mental and behavioural disorders due to psychoactive substance use (F10–F19)   | 7            | 2              | —            | —              | 1            | —              | 1            | —              |
| Diseases of the circulatory system (I00–I99)                                   | 36           | 20             | 7            | 5              | 22           | 6              | 5            | 3              |
| Diseases of the digestive system (K00–K93)                                     | 9            | 8              | 3            | 1              | 3            | 3              | 1            | 1              |
| External causes of morbidity and mortality (V01–Y98)                           | 111          | 43             | 27           | 7              | 22           | 9              | 14           | 6              |
| Transport accidents (V01–V99)  | 28           | 12             | 3            | 3              | 7            | 2              | 1            | 1              |
| Intentional self-harm (X60–X84)  | 52           | 18             | 14           | —              | 4            | 1              | 8            | 5              |
| <b>45–54 years</b>   | <b>351</b>   | <b>235</b>     | <b>118</b>   | <b>86</b>      | <b>69</b>    | <b>44</b>      | <b>66</b>    | <b>45</b>      |
| Malignant neoplasms (C00–C97)  | 130          | 139            | 40           | 39             | 12           | 17             | 25           | 30             |
| Trachea, bronchus and lung (C33, C34)  | 27           | 13             | 6            | 6              | 1            | 4              | 6            | 1              |
| Breast (C50)   | —            | 45             | —            | 13             | —            | 3              | —            | 8              |
| Diseases of the circulatory system (I00–I99)                                   | 87           | 23             | 31           | 9              | 25           | 8              | 20           | 7              |
| Ischaemic heart diseases (I20–I25)   | 61           | 10             | 18           | 4              | 18           | 6              | 10           | 2              |
| Cerebrovascular diseases (I60–I69)   | 9            | 9              | 5            | 2              | 2            | —              | 4            | 1              |
| Diseases of the respiratory system (J00–J99)                                   | 9            | 10             | 6            | 7              | 1            | 3              | —            | 1              |
| Disease of the digestive system (K00–K93)                                      | 17           | 9              | 10           | 6              | 7            | 2              | 5            | 1              |
| External causes of morbidity and mortality (V01–Y98)                           | 61           | 22             | 21           | 14             | 9            | 5              | 9            | 4              |
| Transport accidents (V01–V99)  | 16           | 2              | 8            | 4              | 3            | 4              | 2            | —              |
| Intentional self-harm (X60–X84)  | 23           | 12             | 5            | 3              | 4            | —              | 4            | 2              |

1.4 UNDERLYING CAUSE, Age and state or territory of usual residence *continued*

|  | NSW.....     |                | Vic.....     |                | Qld.....     |                | SA.....      |                |
|--|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|
| <i>Cause of death and ICD code</i>                         | <i>Males</i> | <i>Females</i> | <i>Males</i> | <i>Females</i> | <i>Males</i> | <i>Females</i> | <i>Males</i> | <i>Females</i> |
| <b>55–64 years</b>   | <b>2 618</b> | <b>1 450</b>   | <b>1 725</b> | <b>1 010</b>   | <b>1 487</b> | <b>792</b>     | <b>609</b>   | <b>353</b>     |
| Malignant neoplasms (C00–C97)                              | 1 148        | 795            | 826          | 577            | 658          | 413            | 291          | 195            |
| Digestive organs (C15–C26)                                 | 356          | 188            | 273          | 132            | 221          | 96             | 94           | 46             |
| Trachea, bronchus and lung (C33, C34)                      | 304          | 153            | 218          | 99             | 157          | 77             | 60           | 27             |
| Breast (C50)   | 3            | 156            | -            | 118            | 1            | 93             | 1            | 47             |
| Diseases of the circulatory system (I00–I99)               | 825          | 280            | 490          | 176            | 443          | 170            | 180          | 70             |
| Ischaemic heart diseases (I20–I25)                         | 572          | 156            | 322          | 75             | 325          | 90             | 114          | 31             |
| Cerebrovascular diseases (I60–I69)                         | 106          | 53             | 77           | 54             | 45           | 39             | 22           | 22             |
| Diseases of the respiratory system (J00–J99)               | 124          | 112            | 80           | 61             | 71           | 46             | 30           | 29             |
| Diseases of the digestive system (K00–K93)                 | 120          | 52             | 64           | 30             | 62           | 23             | 33           | 17             |
| External causes of morbidity and mortality (V01–Y98)       | 151          | 53             | 92           | 48             | 114          | 43             | 33           | 10             |
| <b>65–74 years</b>   | <b>5 187</b> | <b>3 160</b>   | <b>3 613</b> | <b>2 254</b>   | <b>2 618</b> | <b>1 582</b>   | <b>1 282</b> | <b>792</b>     |
| Malignant neoplasms (C00–C97)                              | 2 150        | 1 336          | 1 583        | 987            | 1 140        | 694            | 511          | 348            |
| Digestive organs (C15–C26)                                 | 599          | 343            | 488          | 274            | 344          | 188            | 150          | 104            |
| Trachea, bronchus and lung (C33, C34)                      | 581          | 248            | 424          | 208            | 305          | 151            | 132          | 56             |
| Breast (C50)   | 3            | 199            | 1            | 128            | 2            | 96             | 1            | 52             |
| Female genital organs (C51–C58)                            | ..           | 126            | ..           | 95             | ..           | 52             | ..           | 39             |
| Male genital organs (C60–C63)                              | 223          | ..             | 170          | ..             | 130          | ..             | 58           | ..             |
| Endocrine, nutritional and metabolic diseases (E00–E90)    | 173          | 85             | 165          | 119            | 98           | 68             | 47           | 37             |
| Diseases of the circulatory system (I00–I99)               | 1 749        | 1 004          | 1 129        | 627            | 845          | 455            | 444          | 239            |
| Ischaemic heart diseases (I20–I25)                         | 1 114        | 516            | 719          | 334            | 597          | 271            | 301          | 129            |
| Cerebrovascular diseases (I60–I69)                         | 314          | 242            | 198          | 151            | 136          | 103            | 68           | 62             |
| Diseases of the respiratory system (J00–J99)               | 462          | 298            | 304          | 217            | 213          | 149            | 123          | 65             |
| Chronic lower respiratory diseases (J40–J47)               | 320          | 224            | 228          | 161            | 162          | 110            | 82           | 51             |
| Diseases of the digestive system (K00–K93)                 | 163          | 87             | 97           | 59             | 72           | 46             | 41           | 24             |
| <b>75–84 years</b>   | <b>7 593</b> | <b>6 699</b>   | <b>5 417</b> | <b>4 852</b>   | <b>3 738</b> | <b>3 120</b>   | <b>2 040</b> | <b>1 931</b>   |
| Malignant neoplasms (C00–C97)                              | 2 383        | 1 656          | 1 643        | 1 405          | 1 131        | 742            | 621          | 464            |
| Digestive organs (C15–C26)                                 | 618          | 497            | 460          | 442            | 289          | 232            | 180          | 138            |
| Trachea, bronchus and lung (C33, C34)                      | 532          | 262            | 340          | 223            | 257          | 93             | 128          | 83             |
| Breast (C50)   | 2            | 196            | 3            | 151            | 1            | 96             | 2            | 45             |
| Female genital organs (C51–C58)                            | ..           | 128            | ..           | 136            | ..           | 70             | ..           | 39             |
| Male genital organs (C60–C63)                              | 436          | ..             | 301          | ..             | 231          | ..             | 109          | ..             |
| Prostate (C61)   | 431          | ..             | 299          | ..             | 230          | ..             | 109          | ..             |
| Diabetes mellitus (E10–E14)                                | 165          | 135            | 184          | 183            | 84           | 73             | 53           | 58             |
| Mental and behavioural disorders (F00–F99)                 | 111          | 140            | 115          | 100            | 44           | 45             | 23           | 54             |
| Diseases of the nervous system (G00–G99)                   | 232          | 258            | 168          | 180            | 106          | 101            | 42           | 52             |
| Diseases of the circulatory system (I00–I99)               | 3 056        | 3 048          | 2 103        | 1 982          | 1 573        | 1 458          | 809          | 845            |
| Ischaemic heart diseases (I20–I25)                         | 1 650        | 1 434          | 1 221        | 1 003          | 920          | 765            | 503          | 435            |
| Acute myocardial infarction (I21)                          | 870          | 826            | 664          | 592            | 500          | 468            | 301          | 278            |
| Cerebrovascular diseases (I60–I69)                         | 765          | 907            | 445          | 544            | 361          | 401            | 153          | 240            |
| Diseases of arteries, arterioles and capillaries (I70–I79) | 209          | 146            | 125          | 103            | 114          | 71             | 46           | 44             |
| Diseases of the respiratory system (J00–J99)               | 823          | 579            | 596          | 387            | 397          | 288            | 248          | 201            |
| Chronic lower respiratory diseases (J40–J47)               | 508          | 337            | 400          | 241            | 252          | 167            | 114          | 69             |
| Diseases of the digestive system (K00–K93)                 | 198          | 205            | 172          | 157            | 97           | 105            | 57           | 56             |

# 1.4 UNDERLYING CAUSE, Age and state or territory of usual residence *continued*

|  | WA.....      |              | Tas.....   |            | NT.....   |           | ACT.....   |            |
|--|--------------|--------------|------------|------------|-----------|-----------|------------|------------|
| Cause of death and ICD code                                | Males        | Females      | Males      | Females    | Males     | Females   | Males      | Females    |
| <b>55–64 years</b>   | <b>657</b>   | <b>339</b>   | <b>222</b> | <b>141</b> | <b>96</b> | <b>53</b> | <b>100</b> | <b>71</b>  |
| Malignant neoplasms (C00–C97)                              | 294          | 193          | 85         | 73         | 36        | 16        | 45         | 43         |
| Digestive organs (C15–C26)                                 | 104          | 41           | 21         | 14         | 9         | 4         | 9          | 9          |
| Trachea, bronchus and lung (C33, C34)                      | 76           | 29           | 24         | 22         | 12        | 5         | 8          | 7          |
| Breast (C50)   | 1            | 42           | —          | 13         | —         | 1         | —          | 11         |
| Diseases of the circulatory system (I00–I99)               | 196          | 62           | 65         | 18         | 25        | 13        | 29         | 9          |
| Ischaemic heart diseases (I20–I25)                         | 146          | 40           | 47         | 12         | 19        | 7         | 19         | 4          |
| Cerebrovascular diseases (I60–I69)                         | 22           | 12           | 10         | 1          | 4         | 1         | 5          | 2          |
| Diseases of the respiratory system (J00–J99)               | 31           | 19           | 13         | 15         | 14        | 5         | 6          | 5          |
| Diseases of the digestive system (K00–K93)                 | 24           | 12           | 8          | 7          | 3         | 3         | 5          | 3          |
| External causes of morbidity and mortality (V01–Y98)       | 35           | 7            | 20         | 6          | 8         | 2         | 6          | 3          |
| <b>65–74 years</b>   | <b>1 206</b> | <b>716</b>   | <b>424</b> | <b>298</b> | <b>94</b> | <b>47</b> | <b>146</b> | <b>86</b>  |
| Malignant neoplasms (C00–C97)                              | 537          | 314          | 176        | 118        | 27        | 16        | 66         | 43         |
| Digestive organs (C15–C26)                                 | 169          | 78           | 45         | 35         | 8         | 4         | 20         | 13         |
| Trachea, bronchus and lung (C33, C34)                      | 150          | 66           | 52         | 19         | 7         | 5         | 17         | 4          |
| Breast (C50)   | —            | 57           | —          | 15         | —         | 2         | —          | 8          |
| Female genital organs (C51–C58)                            | ..           | 25           | ..         | 9          | ..        | —         | ..         | 5          |
| Male genital organs (C60–C63)                              | 44           | ..           | 21         | ..         | 3         | ..        | 8          | ..         |
| Endocrine, nutritional and metabolic diseases (E00–E90)    | 64           | 39           | 11         | 11         | 6         | 8         | 7          | 1          |
| Diseases of the circulatory system (I00–I99)               | 355          | 190          | 151        | 81         | 29        | 16        | 47         | 14         |
| Ischaemic heart diseases (I20–I25)                         | 245          | 96           | 92         | 44         | 20        | 10        | 34         | 7          |
| Cerebrovascular diseases (I60–I69)                         | 59           | 44           | 26         | 22         | 5         | 2         | 4          | 3          |
| Diseases of the respiratory system (J00–J99)               | 95           | 51           | 44         | 40         | 14        | 2         | 12         | 12         |
| Chronic lower respiratory diseases (J40–J47)               | 61           | 35           | 35         | 33         | 12        | 2         | 10         | 9          |
| Diseases of the digestive system (K00–K93)                 | 34           | 32           | 7          | 10         | 1         | —         | 2          | 4          |
| <b>75–84 years</b>   | <b>1 690</b> | <b>1 507</b> | <b>648</b> | <b>607</b> | <b>65</b> | <b>59</b> | <b>202</b> | <b>205</b> |
| Malignant neoplasms (C00–C97)                              | 547          | 389          | 186        | 149        | 17        | 8         | 69         | 49         |
| Digestive organs (C15–C26)                                 | 156          | 110          | 45         | 50         | 3         | 4         | 21         | 19         |
| Trachea, bronchus and lung (C33, C34)                      | 117          | 62           | 50         | 28         | 5         | —         | 11         | 5          |
| Breast (C50)   | —            | 53           | 1          | 17         | —         | —         | —          | 4          |
| Female genital organs (C51–C58)                            | ..           | 41           | ..         | 6          | ..        | —         | ..         | 4          |
| Male genital organs (C60–C63)                              | 88           | ..           | 31         | ..         | 2         | ..        | 10         | ..         |
| Prostate (C61)   | 88           | ..           | 31         | ..         | 2         | ..        | 10         | ..         |
| Diabetes mellitus (E10–E14)                                | 53           | 47           | 25         | 23         | 2         | 4         | 6          | 6          |
| Mental and behavioural disorders (F00–F99)                 | 27           | 31           | 10         | 16         | —         | —         | 1          | 1          |
| Diseases of the nervous system (G00–G99)                   | 61           | 64           | 22         | 22         | 3         | 2         | 8          | 7          |
| Diseases of the circulatory system (I00–I99)               | 638          | 649          | 258        | 281        | 24        | 23        | 78         | 95         |
| Ischaemic heart diseases (I20–I25)                         | 357          | 331          | 142        | 127        | 11        | 11        | 48         | 42         |
| Acute myocardial infarction (I21)                          | 209          | 221          | 79         | 77         | 4         | 4         | 27         | 22         |
| Cerebrovascular diseases (I60–I69)                         | 141          | 168          | 55         | 86         | 3         | 5         | 12         | 32         |
| Diseases of arteries, arterioles and capillaries (I70–I79) | 49           | 48           | 19         | 19         | 2         | 1         | 9          | 4          |
| Diseases of the respiratory system (J00–J99)               | 173          | 115          | 72         | 53         | 12        | 7         | 24         | 17         |
| Chronic lower respiratory diseases (J40–J47)               | 94           | 75           | 49         | 38         | 10        | 6         | 14         | 10         |
| Diseases of the digestive system (K00–K93)                 | 52           | 61           | 12         | 16         | 3         | 4         | 5          | 8          |

1.4 UNDERLYING CAUSE, Age and state or territory of usual residence *continued*

|   | NSW.....      |               | Vic.....      |               | Qld.....      |               | SA.....      |              |
|---|---------------|---------------|---------------|---------------|---------------|---------------|--------------|--------------|
| Cause of death and ICD code   | Males         | Females       | Males         | Females       | Males         | Females       | Males        | Females      |
| <b>85 years and over</b>  | <b>4 452</b>  | <b>8 245</b>  | <b>3 420</b>  | <b>6 387</b>  | <b>2 291</b>  | <b>3 987</b>  | <b>1 320</b> | <b>2 338</b> |
| Malignant neoplasms (C00–C97)   | 874           | 909           | 644           | 735           | 402           | 450           | 247          | 269          |
| Digestive organs (C15–C26)  | 211           | 297           | 162           | 279           | 94            | 177           | 62           | 87           |
| Female genital organs (C51–C58)   | ..            | 77            | ..            | 58            | ..            | 30            | ..           | 21           |
| Male genital organs (C60–C63)   | 237           | ..            | 190           | ..            | 105           | ..            | 75           | ..           |
| Diabetes mellitus (E10–E14)   | 90            | 134           | 97            | 154           | 47            | 81            | 29           | 30           |
| Mental and behavioural disorders (F00–F99)  | 122           | 314           | 112           | 359           | 55            | 158           | 28           | 101          |
| Diseases of the circulatory system (I00–I99)  | 2 116         | 4 772         | 1 616         | 3 396         | 1 186         | 2 299         | 642          | 1 267        |
| Ischaemic heart diseases (I20–I25)  | 1 022         | 2 171         | 830           | 1 511         | 657           | 1 125         | 357          | 597          |
| Cerebrovascular diseases (I60–I69)  | 574           | 1 421         | 401           | 988           | 300           | 717           | 148          | 370          |
| Diseases of arteries, arterioles and capillaries (I70–I79)  | 131           | 204           | 104           | 161           | 71            | 110           | 36           | 54           |
| Diseases of the respiratory system (J00–J99)  | 499           | 624           | 393           | 506           | 232           | 311           | 189          | 274          |
| Chronic lower respiratory diseases (J40–J47)  | 218           | 215           | 228           | 178           | 112           | 89            | 58           | 52           |
| Diseases of the digestive system (K00–K93)  | 132           | 291           | 87            | 259           | 63            | 142           | 33           | 83           |
| Diseases of the genitourinary system (N00–N99)  | 137           | 253           | 133           | 229           | 80            | 128           | 53           | 91           |
| <b>All ages(a)</b>  | <b>23 192</b> | <b>21 360</b> | <b>16 437</b> | <b>15 858</b> | <b>12 252</b> | <b>10 604</b> | <b>6 023</b> | <b>5 868</b> |
| Chapter I Certain infectious and parasitic diseases (A00–B99)   | 364           | 304           | 188           | 193           | 136           | 114           | 81           | 84           |
| Chapter II Neoplasms (C00–D48)  | 7 383         | 5 526         | 5 314         | 4 407         | 3 828         | 2 771         | 1 874        | 1 497        |
| Malignant neoplasms (C00–C97)   | 7 261         | 5 404         | 5 210         | 4 298         | 3 765         | 2 712         | 1 843        | 1 458        |
| Trachea, bronchus and lung (C33, C34)   | 1 633         | 820           | 1 147         | 645           | 862           | 399           | 383          | 215          |
| Melanoma of skin (C43)  | 283           | 158           | 130           | 79            | 149           | 69            | 50           | 22           |
| Breast (C50)  | 8             | 872           | 7             | 658           | 6             | 474           | 4            | 233          |
| Female genital organs (C51–C58)   | ..            | 511           | ..            | 422           | ..            | 237           | ..           | 146          |
| Male genital organs (C60–C63)   | 960           | ..            | 710           | ..            | 516           | ..            | 265          | ..           |
| Chapter III Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50–D89) | 66            | 84            | 52            | 47            | 30            | 39            | 14           | 23           |
| Chapter IV Endocrine, nutritional and metabolic diseases (E00–E90)  | 658           | 587           | 650           | 639           | 388           | 337           | 190          | 205          |
| Diabetes mellitus (E10–E14)   | 475           | 361           | 495           | 474           | 272           | 237           | 139          | 124          |
| Chapter V Mental and behavioural disorders (F00–F99)  | 389           | 519           | 304           | 505           | 165           | 223           | 72           | 163          |
| Chapter VI Diseases of the nervous system (G00–G99)   | 671           | 821           | 492           | 635           | 317           | 349           | 133          | 169          |
| Chapter VII Diseases of the eye and adnexa (H00–H59)  | 2             | 1             | —             | —             | —             | —             | —            | —            |
| Chapter VIII Diseases of the ear and mastoid process (H60–H95)  | —             | 2             | 1             | —             | 2             | 1             | —            | 1            |
| Chapter IX Diseases of the circulatory system (I00–I99)   | 8 348         | 9 312         | 5 721         | 6 306         | 4 384         | 4 535         | 2 197        | 2 468        |
| All heart disease (I05–I09, I11, I13, I20–I25, I26, I27, I30–I52)   | 5 909         | 5 967         | 4 126         | 4 095         | 3 195         | 2 943         | 1 646        | 1 613        |
| Ischaemic heart diseases (I20–I25)  | 4 752         | 4 341         | 3 332         | 2 963         | 2 727         | 2 313         | 1 356        | 1 211        |
| Acute myocardial infarction (I21)   | 2 506         | 2 373         | 1 760         | 1 644         | 1 499         | 1 317         | 774          | 753          |
| Cerebrovascular diseases (I60–I69)  | 1 814         | 2 684         | 1 180         | 1 769         | 891           | 1 293         | 402          | 705          |
| Chapter X Diseases of the respiratory system (J00–J99)  | 1 981         | 1 673         | 1 422         | 1 212         | 969           | 834           | 608          | 588          |
| Influenza and pneumonia (J10–J18)   | 374           | 442           | 246           | 349           | 204           | 260           | 203          | 297          |
| Chronic lower respiratory diseases (J40–J47)  | 1 161         | 888           | 938           | 652           | 605           | 423           | 281          | 209          |
| Chapter XI Diseases of the digestive system (K00–K93)   | 736           | 674           | 484           | 538           | 356           | 359           | 193          | 189          |
| Diseases of liver (K70–K77)   | 328           | 115           | 174           | 87            | 136           | 68            | 86           | 38           |
| Chapter XII Diseases of the skin and subcutaneous tissue (L00–L99)  | 45            | 68            | 25            | 37            | 18            | 25            | 11           | 12           |
| Chapter XIII Diseases of the musculoskeletal system and connective tissue (M00–M99)                                       | 93            | 195           | 77            | 179           | 53            | 95            | 23           | 49           |
| Chapter XIV Diseases of the genitourinary system (N00–N99)  | 375           | 529           | 343           | 411           | 225           | 267           | 143          | 162          |
| Chapter XV Pregnancy, childbirth and the puerperium (O00–O99)   | ..            | 5             | ..            | 1             | ..            | 2             | ..           | 1            |
| Chapter XVI Certain conditions originating in the perinatal period (P00–P96)  | 145           | 100           | 91            | 68            | 87            | 59            | 17           | 24           |
| Chapter XVII Congenital malformations, deformations and chromosomal abnormalities (Q00–Q99)                               | 107           | 99            | 74            | 60            | 71            | 65            | 24           | 21           |
| Chapter XVIII Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00–R99)           | 61            | 73            | 42            | 50            | 51            | 55            | 19           | 20           |
| Chapter XX External causes of morbidity and mortality (V01–Y98)   | 1 768         | 788           | 1 157         | 570           | 1 172         | 474           | 424          | 192          |
| Transport accidents (V01–V99)   | 438           | 158           | 359           | 133           | 331           | 98            | 119          | 41           |
| Falls (W00–W19)   | 149           | 101           | 50            | 43            | 84            | 67            | 18           | 13           |
| Intentional self-harm (X60–X84)   | 613           | 172           | 412           | 129           | 406           | 93            | 168          | 39           |

(a) Including age not stated.

# 1.4 UNDERLYING CAUSE, Age and state or territory of usual residence *continued*

|   | WA.....      |              | Tas.....     |              | NT.....    |            | ACT.....   |            |
|---|--------------|--------------|--------------|--------------|------------|------------|------------|------------|
| Cause of death and ICD code   | Males        | Females      | Males        | Females      | Males      | Females    | Males      | Females    |
| <b>85 years and over</b>  | <b>1 124</b> | <b>1 959</b> | <b>383</b>   | <b>712</b>   | <b>27</b>  | <b>38</b>  | <b>123</b> | <b>248</b> |
| Malignant neoplasms (C00–C97)   | 202          | 252          | 72           | 89           | 2          | 5          | 22         | 34         |
| Digestive organs (C15–C26)  | 42           | 86           | 22           | 46           | 1          | 2          | 6          | 9          |
| Female genital organs (C51–C58)   | ..           | 23           | ..           | 2            | ..         | —          | ..         | 3          |
| Male genital organs (C60–C63)   | 43           | ..           | 20           | ..           | 1          | ..         | 5          | ..         |
| Diabetes mellitus (E10–E14)   | 27           | 39           | 7            | 17           | 1          | 3          | 2          | 5          |
| Mental and behavioural disorders (F00–F99)  | 34           | 107          | 8            | 24           | 2          | 2          | 5          | 6          |
| Diseases of the circulatory system (I00–I99)  | 529          | 1 005        | 183          | 390          | 11         | 16         | 53         | 143        |
| Ischaemic heart diseases (I20–I25)  | 276          | 464          | 90           | 189          | 6          | 9          | 19         | 68         |
| Cerebrovascular diseases (I60–I69)  | 125          | 289          | 43           | 108          | 2          | 4          | 13         | 39         |
| Diseases of arteries, arterioles and capillaries (I70–I79)  | 33           | 54           | 18           | 27           | —          | 2          | 8          | 12         |
| Diseases of the respiratory system (J00–J99)  | 119          | 150          | 49           | 40           | 3          | 1          | 17         | 20         |
| Chronic lower respiratory diseases (J40–J47)  | 54           | 34           | 27           | 17           | 2          | 1          | 8          | 8          |
| Diseases of the digestive system (K00–K93)  | 30           | 64           | 9            | 26           | 3          | —          | 5          | 8          |
| Diseases of the genitourinary system (N00–N99)  | 40           | 64           | 16           | 30           | 1          | 2          | 1          | 10         |
| <b>All ages(a)</b>  | <b>5 697</b> | <b>5 082</b> | <b>1 952</b> | <b>1 924</b> | <b>550</b> | <b>322</b> | <b>729</b> | <b>690</b> |
| Chapter I Certain infectious and parasitic diseases (A00–B99)   | 70           | 62           | 24           | 15           | 15         | 9          | 9          | 7          |
| Chapter II Neoplasms (C00–D48)  | 1 797        | 1 384        | 583          | 506          | 106        | 71         | 240        | 209        |
| Malignant neoplasms (C00–C97)   | 1 766        | 1 364        | 570          | 488          | 103        | 68         | 234        | 205        |
| Trachea, bronchus and lung (C33, C34)   | 409          | 201          | 137          | 81           | 26         | 15         | 45         | 20         |
| Melanoma of skin (C43)  | 54           | 43           | 11           | 9            | 3          | 1          | 6          | 2          |
| Breast (C50)  | 1            | 236          | 1            | 69           | —          | 7          | —          | 36         |
| Female genital organs (C51–C58)   | ..           | 139          | ..           | 25           | ..         | 6          | ..         | 20         |
| Male genital organs (C60–C63)   | 186          | ..           | 81           | ..           | 8          | ..         | 27         | ..         |
| Chapter III Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50–D89) | 13           | 21           | 2            | 9            | 5          | 2          | 1          | —          |
| Chapter IV Endocrine, nutritional and metabolic diseases (E00–E90)  | 219          | 193          | 71           | 76           | 24         | 35         | 23         | 19         |
| Diabetes mellitus (E10–E14)   | 171          | 139          | 51           | 58           | 17         | 29         | 19         | 17         |
| Chapter V Mental and behavioural disorders (F00–F99)  | 99           | 161          | 27           | 44           | 8          | 5          | 9          | 11         |
| Chapter VI Diseases of the nervous system (G00–G99)   | 187          | 241          | 55           | 65           | 12         | 10         | 27         | 20         |
| 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)   | 1 860        | 1 961        | 701          | 784          | 153        | 86         | 236        | 271        |
| All heart disease (I05–I09, I11, I13, I20–I25, I26, I27, I30–I52)   | 1 359        | 1 279        | 497          | 494          | 123        | 59         | 172        | 169        |
| Ischaemic heart diseases (I20–I25)  | 1 116        | 954          | 397          | 377          | 93         | 44         | 133        | 124        |
| Acute myocardial infarction (I21)   | 605          | 568          | 214          | 212          | 49         | 22         | 77         | 69         |
| Cerebrovascular diseases (I60–I69)  | 363          | 529          | 142          | 221          | 18         | 15         | 41         | 78         |
| Chapter X Diseases of the respiratory system (J00–J99)  | 444          | 361          | 189          | 156          | 52         | 22         | 60         | 55         |
| Influenza and pneumonia (J10–J18)   | 101          | 129          | 31           | 28           | 13         | 4          | 12         | 9          |
| Chronic lower respiratory diseases (J40–J47)  | 240          | 170          | 125          | 105          | 32         | 17         | 37         | 33         |
| Chapter XI Diseases of the digestive system (K00–K93)   | 169          | 188          | 50           | 66           | 24         | 14         | 24         | 25         |
| Diseases of liver (K70–K77)   | 50           | 41           | 21           | 14           | 14         | 7          | 13         | 4          |
| Chapter XII Diseases of the skin and subcutaneous tissue (L00–L99)  | 7            | 13           | —            | 2            | —          | —          | —          | 2          |
| Chapter XIII Diseases of the musculoskeletal system and connective tissue (M00–M99)                                       | 29           | 62           | 7            | 22           | 1          | 2          | 2          | 7          |
| Chapter XIV Diseases of the genitourinary system (N00–N99)  | 104          | 113          | 38           | 51           | 8          | 14         | 6          | 23         |
| Chapter XV Pregnancy, childbirth and the puerperium (O00–O99)   | ..           | 2            | ..           | 1            | ..         | —          | ..         | —          |
| Chapter XVI Certain conditions originating in the perinatal period (P00–P96)  | 26           | 22           | 8            | 6            | 19         | 5          | 2          | 2          |
| Chapter XVII Congenital malformations, deformations and chromosomal abnormalities (Q00–Q99)                               | 39           | 13           | 9            | 11           | 5          | 4          | 6          | 6          |
| Chapter XVIII Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00–R99)           | 62           | 34           | 27           | 25           | 5          | 3          | 5          | 3          |
| Chapter XX External causes of morbidity and mortality (V01–Y98)   | 572          | 251          | 161          | 85           | 113        | 40         | 79         | 30         |
| Transport accidents (V01–V99)   | 156          | 43           | 45           | 15           | 31         | 16         | 16         | 5          |
| Falls (W00–W19)   | 25           | 30           | 14           | 19           | 6          | 5          | 8          | 2          |
| Intentional self-harm (X60–X84)   | 212          | 57           | 51           | 13           | 39         | 4          | 34         | 12         |

(a) Including age not stated.



## 1.5 UNDERLYING CAUSE, Standardised death rates(a)

| Cause of death and ICD code                                | NSW          | Vic.         | Qld          | SA           |
|--|--------------|--------------|--------------|--------------|
| 1991   |              |              |              |              |
| <b>All causes</b>  | <b>695.2</b> | <b>687.4</b> | <b>674.7</b> | <b>692.3</b> |
| Malignant neoplasms (C00–C97)                              | 177.3        | 191.7        | 174.6        | 180.2        |
| Trachea, bronchus and lung (C33, C34)                      | 35.7         | 37.6         | 33.7         | 37.3         |
| Diabetes mellitus (E10–E14)                                | 11.2         | 17.2         | 12.2         | 12.7         |
| Mental and behavioural disorders (F00–F99)                 | 11.3         | 12.6         | 10.1         | 8.6          |
| Diseases of the nervous system (G00–G99)                   | 13.8         | 13.9         | 12.1         | 12.4         |
| Diseases of the circulatory system (I00–I99)               | 317.9        | 294.3        | 301.6        | 320.2        |
| Ischaemic heart disease (I20–I25)                          | 180.2        | 167.4        | 176.4        | 185.6        |
| Acute myocardial infarction (I21)                          | 120.0        | 106.7        | 119.4        | 129.3        |
| Cerebrovascular diseases (I60–I69)                         | 74.7         | 63.2         | 68.7         | 71.9         |
| Diseases of arteries, arterioles and capillaries (I70–I79) | 16.1         | 17.5         | 16.6         | 18.4         |
| Diseases of the respiratory system (J00–J99)               | 51.2         | 50.4         | 48.1         | 52.7         |
| Influenza and pneumonia (J10–J18)                          | 7.6          | 7.7          | 10.6         | 20.1         |
| Chronic lower respiratory diseases (J40–J47)               | 36.0         | 37.0         | 32.8         | 27.4         |
| Diseases of the digestive system (K00–K93)                 | 23.6         | 23.2         | 23.2         | 24.8         |
| Accidents (V01–X59)  | 26.0         | 26.1         | 29.6         | 27.4         |
| Transport accidents (V01–V99)                              | 12.9         | 14.1         | 15.7         | 16.0         |
| Intentional self-harm (X60–X84)                            | 13.0         | 13.6         | 14.5         | 15.8         |
| 2001   |              |              |              |              |
| <b>All causes</b>  | <b>537.7</b> | <b>529.6</b> | <b>553.4</b> | <b>554.5</b> |
| Malignant neoplasms (C00–C97)                              | 159.9        | 164.7        | 162.5        | 164.0        |
| Trachea, bronchus and lung (C33, C34)                      | 31.7         | 31.9         | 32.3         | 29.9         |
| Diabetes mellitus (E10–E14)                                | 10.0         | 15.9         | 12.3         | 12.1         |
| Mental and behavioural disorders (F00–F99)                 | 10.4         | 11.9         | 8.8          | 9.7          |
| Diseases of the nervous system (G00–G99)                   | 17.6         | 18.1         | 15.9         | 14.6         |
| Diseases of the circulatory system (I00–I99)               | 202.2        | 185.9        | 206.7        | 201.9        |
| Ischaemic heart disease (I20–I25)                          | 105.7        | 98.8         | 118.2        | 112.7        |
| Acute myocardial infarction (I21)                          | 56.7         | 53.3         | 66.1         | 67.0         |
| Cerebrovascular diseases (I60–I69)                         | 50.1         | 44.5         | 49.4         | 46.4         |
| Diseases of arteries, arterioles and capillaries (I70–I79) | 10.6         | 9.6          | 10.8         | 9.7          |
| Diseases of the respiratory system (J00–J99)               | 43.1         | 42.0         | 43.1         | 52.2         |
| Influenza and pneumonia (J10–J18)                          | 9.1          | 8.7          | 10.4         | 20.0         |
| Chronic lower respiratory diseases (J40–J47)               | 24.9         | 26.1         | 25.4         | 23.1         |
| Diseases of the digestive system (K00–K93)                 | 16.9         | 16.3         | 17.1         | 18.0         |
| Accidents (V01–X59)  | 22.0         | 20.1         | 26.9         | 21.3         |
| Transport accidents (V01–V99)                              | 9.1          | 10.2         | 12.0         | 10.6         |
| Intentional self-harm (X60–X84)                            | 11.5         | 11.0         | 13.8         | 13.7         |

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

See Glossary for further explanation.



## 1.5 UNDERLYING CAUSE, Standardised death rates(a) *continued*

| <i>Cause of death and ICD code</i>                         | <i>WA</i>    | <i>Tas.</i>  | <i>NT</i>      | <i>ACT</i>   |
|--|--------------|--------------|----------------|--------------|
| 1991   |              |              |                |              |
| <b>All causes</b>  | <b>649.4</b> | <b>765.6</b> | <b>1 105.9</b> | <b>635.0</b> |
| Malignant neoplasms (C00–C97)                              | 174.1        | 186.9        | 213.8          | 183.9        |
| Trachea, bronchus and lung (C33, C34)                      | 39.0         | 35.9         | 60.8           | 30.5         |
| Diabetes mellitus (E10–E14)                                | 12.0         | 12.8         | 31.4           | 8.2          |
| Mental and behavioural disorders (F00–F99)                 | 9.0          | 10.8         | 2.2            | 6.3          |
| Diseases of the nervous system (G00–G99)                   | 15.2         | 16.3         | 10.0           | 9.9          |
| Diseases of the circulatory system (I00–I99)               | 283.7        | 332.8        | 341.3          | 271.9        |
| Ischaemic heart disease (I20–I25)                          | 165.7        | 181.8        | 152.0          | 153.1        |
| Acute myocardial infarction (I21)                          | 102.2        | 125.3        | 96.7           | 95.6         |
| Cerebrovascular diseases (I60–I69)                         | 59.3         | 71.0         | 52.1           | 51.8         |
| Diseases of arteries, arterioles and capillaries (I70–I79) | 17.4         | 26.9         | 13.6           | 22.7         |
| Diseases of the respiratory system (J00–J99)               | 48.5         | 72.8         | 194.2          | 52.3         |
| Influenza and pneumonia (J10–J18)                          | 11.7         | 24.5         | 66.5           | 22.9         |
| Chronic lower respiratory diseases (J40–J47)               | 30.2         | 42.7         | 107.5          | 24.1         |
| Diseases of the digestive system (K00–K93)                 | 21.7         | 24.7         | 52.8           | 20.1         |
| Accidents (V01–X59)  | 27.7         | 39.6         | 72.8           | 25.3         |
| Transport accidents (V01–V99)                              | 14.3         | 21.4         | 45.7           | 13.8         |
| Intentional self-harm (X60–X84)                            | 13.1         | 14.6         | 10.9           | 11.9         |
| 2001   |              |              |                |              |
| <b>All causes</b>  | <b>519.7</b> | <b>621.4</b> | <b>806.1</b>   | <b>505.6</b> |
| Malignant neoplasms (C00–C97)                              | 156.4        | 176.1        | 168.9          | 156.0        |
| Trachea, bronchus and lung (C33, C34)                      | 31.3         | 37.8         | 41.2           | 23.4         |
| Diabetes mellitus (E10–E14)                                | 15.3         | 17.0         | 44.4           | 13.3         |
| Mental and behavioural disorders (F00–F99)                 | 11.6         | 10.4         | 13.7           | 7.2          |
| Diseases of the nervous system (G00–G99)                   | 19.9         | 19.0         | 22.9           | 16.8         |
| Diseases of the circulatory system (I00–I99)               | 177.5        | 223.9        | 255.8          | 182.9        |
| Ischaemic heart disease (I20–I25)                          | 97.4         | 118.2        | 143.6          | 93.7         |
| Acute myocardial infarction (I21)                          | 55.7         | 65.4         | 69.5           | 52.7         |
| Cerebrovascular diseases (I60–I69)                         | 40.6         | 53.9         | 41.3           | 42.6         |
| Diseases of arteries, arterioles and capillaries (I70–I79) | 11.2         | 15.9         | 15.6           | 14.0         |
| Diseases of the respiratory system (J00–J99)               | 38.4         | 54.9         | 84.1           | 43.5         |
| Influenza and pneumonia (J10–J18)                          | 10.4         | 8.7          | 13.9           | 7.8          |
| Chronic lower respiratory diseases (J40–J47)               | 20.3         | 37.2         | 63.1           | 26.8         |
| Diseases of the digestive system (K00–K93)                 | 17.1         | 18.3         | 33.3           | 17.2         |
| Accidents (V01–X59)  | 25.4         | 31.5         | 50.2           | 18.8         |
| Transport accidents (V01–V99)                              | 10.8         | 12.3         | 24.4           | 6.7          |
| Intentional self-harm (X60–X84)                            | 14.2         | 13.6         | 22.6           | 14.0         |

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

See Glossary for further explanation.

## 1.6 UNDERLYING CAUSE, Indigenous people(a) and usual residence(b)

| Cause of death and ICD code  | INDIGENOUS..... |            |                            |              | NON-INDIGENOUS..... |               |                            |              |
|--|-----------------|------------|----------------------------|--------------|---------------------|---------------|----------------------------|--------------|
|  | Males           | Females    | Proportion of total deaths |              | Males               | Females       | Proportion of total deaths |              |
|  | no.             | no.        | no.                        | %            | no.                 | no.           | no.                        | %            |
| NEW SOUTH WALES  |                 |            |                            |              |                     |               |                            |              |
| <b>All causes</b>  | <b>276</b>      | <b>205</b> | <b>481</b>                 | <b>100.0</b> | <b>22 207</b>       | <b>20 391</b> | <b>42 598</b>              | <b>100.0</b> |
| Malignant neoplasms (C00–C97)  | 45              | 50         | 95                         | 19.8         | 7 035               | 5 172         | 12 207                     | 28.7         |
| Digestive organs (C15–C26)   | 11              | 6          | 17                         | 3.5          | 1 907               | 1 393         | 3 300                      | 7.7          |
| Trachea, bronchus and lung (C33, C34)  | 17              | 11         | 28                         | 5.8          | 1 579               | 776           | 2 355                      | 5.5          |
| Diabetes mellitus (E10–E14)  | 9               | 9          | 18                         | 3.7          | 455                 | 345           | 800                        | 1.9          |
| Mental and behavioural disorders (F00–F99)                                     | 10              | 5          | 15                         | 3.1          | 367                 | 498           | 865                        | 2.0          |
| Diseases of the circulatory system (I00–I99)                                   | 100             | 77         | 177                        | 36.8         | 7 978               | 8 914         | 16 892                     | 39.7         |
| Ischaemic heart diseases (I20–I25)   | 74              | 44         | 118                        | 24.5         | 4 505               | 4 130         | 8 635                      | 20.3         |
| Cerebrovascular diseases (I60–I69)   | 9               | 10         | 19                         | 4.0          | 1 759               | 2 580         | 4 339                      | 10.2         |
| Diseases of the respiratory system (J00–J99)                                   | 26              | 20         | 46                         | 9.6          | 1 895               | 1 580         | 3 475                      | 8.2          |
| Chronic lower respiratory diseases (J40–J47)                                   | 18              | 15         | 33                         | 6.9          | 1 107               | 836           | 1 943                      | 4.6          |
| Diseases of the digestive system (K00–K93)                                     | 11              | 7          | 18                         | 3.7          | 697                 | 634           | 1 331                      | 3.1          |
| Diseases of the liver (K70–K77)  | 10              | 6          | 16                         | 3.3          | 301                 | 102           | 403                        | 0.9          |
| Certain conditions originating in the perinatal period (P00–P96)               | 8               | 5          | 13                         | 2.7          | 131                 | 92            | 223                        | 0.5          |
| Congenital malformations, deformations and chromosomal abnormalities (Q00–Q99) | 6               | —          | 6                          | 1.2          | 95                  | 94            | 189                        | 0.4          |
| All other medical conditions (remainder of A00–R99)                            | 17              | 11         | 28                         | 5.8          | 1 890               | 2 313         | 4 203                      | 9.9          |
| External causes of morbidity and mortality (V01–Y98)                           | 44              | 21         | 65                         | 13.5         | 1 664               | 749           | 2 413                      | 5.7          |
| Transport accidents (V01–V99)  | 10              | 4          | 14                         | 2.9          | 409                 | 148           | 557                        | 1.3          |
| Intentional self-harm (X60–X84)  | 13              | 5          | 18                         | 3.7          | 585                 | 165           | 750                        | 1.8          |
| Assault (X85–Y09)  | 5               | 3          | 8                          | 1.7          | 65                  | 34            | 99                         | 0.2          |
| Other external causes (remainder of V01–Y98)                                   | 16              | 9          | 25                         | 5.2          | 605                 | 402           | 1 007                      | 2.4          |
| VICTORIA   |                 |            |                            |              |                     |               |                            |              |
| <b>All causes</b>  | <b>54</b>       | <b>39</b>  | <b>93</b>                  | <b>100.0</b> | <b>14 789</b>       | <b>14 104</b> | <b>28 893</b>              | <b>100.0</b> |
| Malignant neoplasms (C00–C97)  | 7               | 10         | 17                         | 18.3         | 4 757               | 3 832         | 8 589                      | 29.7         |
| Digestive organs (C15–C26)   | 2               | —          | 2                          | 2.2          | 1 425               | 1 122         | 2 547                      | 8.8          |
| Trachea, bronchus and lung (C33, C34)  | 1               | 4          | 5                          | 5.4          | 1 056               | 562           | 1 618                      | 5.6          |
| Diabetes mellitus (E10–E14)  | 4               | 2          | 6                          | 6.5          | 444                 | 428           | 872                        | 3.0          |
| Mental and behavioural disorders (F00–F99)                                     | 1               | 1          | 2                          | 2.2          | 279                 | 440           | 719                        | 2.5          |
| Diseases of the circulatory system (I00–I99)                                   | 18              | 11         | 29                         | 31.2         | 5 133               | 5 612         | 10 745                     | 37.2         |
| Ischaemic heart diseases (I20–I25)   | 13              | 6          | 19                         | 20.4         | 2 987               | 2 645         | 5 632                      | 19.5         |
| Cerebrovascular diseases (I60–I69)   | 4               | 3          | 7                          | 7.5          | 1 057               | 1 567         | 2 624                      | 9.1          |
| Diseases of the respiratory system (J00–J99)                                   | 5               | 2          | 7                          | 7.5          | 1 251               | 1 091         | 2 342                      | 8.1          |
| Chronic lower respiratory diseases (J40–J47)                                   | 5               | 2          | 7                          | 7.5          | 813                 | 593           | 1 406                      | 4.9          |
| Diseases of the digestive system (K00–K93)                                     | —               | 2          | 2                          | 2.2          | 431                 | 476           | 907                        | 3.1          |
| Diseases of the liver (K70–K77)  | —               | 2          | 2                          | 2.2          | 160                 | 78            | 238                        | 0.8          |
| Certain conditions originating in the perinatal period (P00–P96)               | —               | 2          | 2                          | 2.2          | 80                  | 60            | 140                        | 0.5          |
| Congenital malformations, deformations and chromosomal abnormalities (Q00–Q99) | 1               | —          | 1                          | 1.1          | 67                  | 45            | 112                        | 0.4          |
| All other medical conditions (remainder of A00–R99)                            | 5               | 4          | 9                          | 9.7          | 1 330               | 1 614         | 2 944                      | 10.2         |
| External causes of morbidity and mortality (V01–Y98)                           | 13              | 5          | 18                         | 19.4         | 1 017               | 506           | 1 523                      | 5.3          |
| Transport accidents (V01–V99)  | 4               | —          | 4                          | 4.3          | 309                 | 118           | 427                        | 1.5          |
| Intentional self-harm (X60–X84)  | 5               | 2          | 7                          | 7.5          | 366                 | 119           | 485                        | 1.7          |
| Assault (X85–Y09)  | —               | —          | —                          | —            | 30                  | 15            | 45                         | 0.2          |
| Other external causes (remainder of V01–Y98)                                   | 4               | 3          | 7                          | 7.5          | 312                 | 254           | 566                        | 2.0          |

(a) Excludes Indigenous origin not stated.

(b) Coverage varies for states and territories Indigenous death registration data. See Appendix 6 for further explanation.

## 1.6 UNDERLYING CAUSE, Indigenous people(a) and usual residence(b) *continued*

| Cause of death and ICD code  | INDIGENOUS..... |            |                            |              | NON-INDIGENOUS..... |               |                            |              |
|--|-----------------|------------|----------------------------|--------------|---------------------|---------------|----------------------------|--------------|
|  | Males           | Females    | Proportion of total deaths |              | Males               | Females       | Proportion of total deaths |              |
|  | no.             | no.        | no.                        | %            | no.                 | no.           | no.                        | %            |
| QUEENSLAND   |                 |            |                            |              |                     |               |                            |              |
| <b>All causes</b>  | <b>326</b>      | <b>239</b> | <b>565</b>                 | <b>100.0</b> | <b>11 782</b>       | <b>10 221</b> | <b>22 003</b>              | <b>100.0</b> |
| Malignant neoplasms (C00–C97)  | 47              | 57         | 104                        | 18.4         | 3 678               | 2 619         | 6 297                      | 28.6         |
| Digestive organs (C15–C26)   | 13              | 6          | 19                         | 3.4          | 1 031               | 747           | 1 778                      | 8.1          |
| Trachea, bronchus and lung (C33, C34)  | 17              | 11         | 28                         | 5.0          | 835                 | 381           | 1 216                      | 5.5          |
| Diabetes mellitus (E10–E14)  | 18              | 23         | 41                         | 7.3          | 247                 | 212           | 459                        | 2.1          |
| Mental and behavioural disorders (F00–F99)                                     | 7               | 2          | 9                          | 1.6          | 154                 | 216           | 370                        | 1.7          |
| Diseases of the circulatory system (I00–I99)                                   | 96              | 62         | 158                        | 28.0         | 4 239               | 4 415         | 8 654                      | 39.3         |
| Ischaemic heart diseases (I20–I25)   | 68              | 35         | 103                        | 18.2         | 2 629               | 2 248         | 4 877                      | 22.2         |
| Cerebrovascular diseases (I60–I69)   | 12              | 8          | 20                         | 3.5          | 868                 | 1 269         | 2 137                      | 9.7          |
| Diseases of the respiratory system (J00–J99)                                   | 33              | 23         | 56                         | 9.9          | 926                 | 796           | 1 722                      | 7.8          |
| Chronic lower respiratory diseases (J40–J47)                                   | 25              | 10         | 35                         | 6.2          | 576                 | 407           | 983                        | 4.5          |
| Diseases of the digestive system (K00–K93)                                     | 10              | 11         | 21                         | 3.7          | 340                 | 342           | 682                        | 3.1          |
| Diseases of the liver (K70–K77)  | 6               | 5          | 11                         | 1.9          | 127                 | 62            | 189                        | 0.9          |
| Certain conditions originating in the perinatal period (P00–P96)               | 10              | 10         | 20                         | 3.5          | 76                  | 48            | 124                        | 0.6          |
| Congenital malformations, deformations and chromosomal abnormalities (Q00–Q99) | 7               | 2          | 9                          | 1.6          | 62                  | 60            | 122                        | 0.6          |
| All other medical conditions (remainder of A00–R99)                            | 32              | 26         | 58                         | 10.3         | 970                 | 1 067         | 2 037                      | 9.3          |
| External causes of morbidity and mortality (V01–Y98)                           | 66              | 23         | 89                         | 15.8         | 1 090               | 446           | 1 536                      | 7.0          |
| Transport accidents (V01–V99)  | 8               | 2          | 10                         | 1.8          | 318                 | 95            | 413                        | 1.9          |
| Intentional self-harm (X60–X84)  | 34              | 8          | 42                         | 7.4          | 369                 | 84            | 453                        | 2.1          |
| Assault (X85–Y09)  | 2               | 6          | 8                          | 1.4          | 35                  | 17            | 52                         | 0.2          |
| Other external causes (remainder of V01–Y98)                                   | 22              | 7          | 29                         | 5.1          | 368                 | 250           | 618                        | 2.8          |
| SOUTH AUSTRALIA  |                 |            |                            |              |                     |               |                            |              |
| <b>All causes</b>  | <b>74</b>       | <b>51</b>  | <b>125</b>                 | <b>100.0</b> | <b>5 789</b>        | <b>5 655</b>  | <b>11 444</b>              | <b>100.0</b> |
| Malignant neoplasms (C00–C97)  | 10              | 8          | 18                         | 14.4         | 1 798               | 1 423         | 3 221                      | 28.1         |
| Digestive organs (C15–C26)   | 2               | 2          | 4                          | 3.2          | 524                 | 397           | 921                        | 8.0          |
| Trachea, bronchus and lung (C33, C34)  | 1               | —          | 1                          | 0.8          | 373                 | 214           | 587                        | 5.1          |
| Diabetes mellitus (E10–E14)  | 5               | 5          | 10                         | 8.0          | 134                 | 117           | 251                        | 2.2          |
| Mental and behavioural disorders (F00–F99)                                     | 3               | 1          | 4                          | 3.2          | 66                  | 156           | 222                        | 1.9          |
| Diseases of the circulatory system (I00–I99)                                   | 14              | 17         | 31                         | 24.8         | 2 127               | 2 383         | 4 510                      | 39.4         |
| Ischaemic heart diseases (I20–I25)   | 10              | 8          | 18                         | 14.4         | 1 313               | 1 177         | 2 490                      | 21.8         |
| Cerebrovascular diseases (I60–I69)   | 3               | 5          | 8                          | 6.4          | 392                 | 677           | 1 069                      | 9.3          |
| Diseases of the respiratory system (J00–J99)                                   | 6               | 6          | 12                         | 9.6          | 584                 | 565           | 1 149                      | 10.0         |
| Chronic lower respiratory diseases (J40–J47)                                   | 3               | 4          | 7                          | 5.6          | 274                 | 198           | 472                        | 4.1          |
| Diseases of the digestive system (K00–K93)                                     | 5               | 1          | 6                          | 4.8          | 183                 | 178           | 361                        | 3.2          |
| Diseases of the liver (K70–K77)  | 3               | 1          | 4                          | 3.2          | 80                  | 35            | 115                        | 1.0          |
| Certain conditions originating in the perinatal period (P00–P96)               | 1               | —          | 1                          | 0.8          | 16                  | 24            | 40                         | 0.3          |
| Congenital malformations, deformations and chromosomal abnormalities (Q00–Q99) | —               | —          | —                          | —            | 24                  | 20            | 44                         | 0.4          |
| All other medical conditions (remainder of A00–R99)                            | 7               | 5          | 12                         | 9.6          | 489                 | 617           | 1 106                      | 9.7          |
| External causes of morbidity and mortality (V01–Y98)                           | 23              | 8          | 31                         | 24.8         | 368                 | 172           | 540                        | 4.7          |
| Transport accidents (V01–V99)  | 9               | 1          | 10                         | 8.0          | 103                 | 37            | 140                        | 1.2          |
| Intentional self-harm (X60–X84)  | 5               | 3          | 8                          | 6.4          | 150                 | 36            | 186                        | 1.6          |
| Assault (X85–Y09)  | 4               | —          | 4                          | 3.2          | 8                   | 5             | 13                         | 0.1          |
| Other external causes (remainder of V01–Y98)                                   | 5               | 4          | 9                          | 7.2          | 107                 | 94            | 201                        | 1.8          |

(a) Excludes Indigenous origin not stated.

(b) Coverage varies for states and territories Indigenous death registration data. See Appendix 6 for further information.

1.6 UNDERLYING CAUSE, Indigenous people(a) and usual residence(b) *continued*

| Cause of death and ICD code  | INDIGENOUS..... |            |                            |              | NON-INDIGENOUS..... |              |                            |              |
|--|-----------------|------------|----------------------------|--------------|---------------------|--------------|----------------------------|--------------|
|  | Males           | Females    | Proportion of total deaths |              | Males               | Females      | Proportion of total deaths |              |
|  | no.             | no.        | no.                        | %            | no.                 | no.          | no.                        | %            |
| WESTERN AUSTRALIA  |                 |            |                            |              |                     |              |                            |              |
| <b>All causes</b>  | <b>210</b>      | <b>126</b> | <b>336</b>                 | <b>100.0</b> | <b>5 385</b>        | <b>4 880</b> | <b>10 265</b>              | <b>100.0</b> |
| Malignant neoplasms (C00–C97)  | 24              | 17         | 41                         | 12.2         | 1 722               | 1 336        | 3 058                      | 29.8         |
| Digestive organs (C15–C26)   | 8               | 4          | 12                         | 3.6          | 525                 | 354          | 879                        | 8.6          |
| Trachea, bronchus and lung (C33, C34)  | 5               | 2          | 7                          | 2.1          | 397                 | 199          | 596                        | 5.8          |
| Diabetes mellitus (E10–E14)  | 15              | 21         | 36                         | 10.7         | 155                 | 114          | 269                        | 2.6          |
| Mental and behavioural disorders (F00–F99)                                     | 9               | 2          | 11                         | 3.3          | 88                  | 158          | 246                        | 2.4          |
| Diseases of the circulatory system (I00–I99)                                   | 60              | 26         | 86                         | 25.6         | 1 772               | 1 905        | 3 677                      | 35.8         |
| Ischaemic heart diseases (I20–I25)   | 30              | 11         | 41                         | 12.2         | 1 064               | 922          | 1 986                      | 19.3         |
| Cerebrovascular diseases (I60–I69)   | 17              | 5          | 22                         | 6.5          | 342                 | 521          | 863                        | 8.4          |
| Diseases of the respiratory system (J00–J99)                                   | 15              | 11         | 26                         | 7.7          | 417                 | 348          | 765                        | 7.5          |
| Chronic lower respiratory diseases (J40–J47)                                   | 4               | 3          | 7                          | 2.1          | 229                 | 167          | 396                        | 3.9          |
| Diseases of the digestive system (K00–K93)                                     | 12              | 11         | 23                         | 6.8          | 153                 | 172          | 325                        | 3.2          |
| Diseases of the liver (K70–K77)  | 5               | 6          | 11                         | 3.3          | 44                  | 33           | 77                         | 0.8          |
| Certain conditions originating in the perinatal period (P00–P96)               | 4               | 3          | 7                          | 2.1          | 21                  | 18           | 39                         | 0.4          |
| Congenital malformations, deformations and chromosomal abnormalities (Q00–Q99) | 6               | 2          | 8                          | 2.4          | 518                 | 593          | 1 111                      | 10.8         |
| All other medical conditions (remainder of A00–R99)                            | 22              | 18         | 40                         | 11.9         | 135                 | 34           | 169                        | 1.6          |
| External causes of morbidity and mortality (V01–Y98)                           | 43              | 15         | 58                         | 17.3         | 197                 | 54           | 251                        | 2.4          |
| Transport accidents (V01–V99)  | 13              | 6          | 19                         | 5.7          | 8                   | 5            | 13                         | 0.1          |
| Intentional self-harm (X60–X84)  | 8               | 2          | 10                         | 3.0          | 169                 | 133          | 302                        | 2.9          |
| Assault (X85–Y09)  | 7               | 2          | 9                          | 2.7          | 9                   | 7            | 16                         | 0.2          |
| Other external causes (remainder of V01–Y98)                                   | 15              | 5          | 20                         | 6.0          | 173                 | 137          | 310                        | 3.0          |
| NORTHERN TERRITORY   |                 |            |                            |              |                     |              |                            |              |
| <b>All causes</b>  | <b>259</b>      | <b>170</b> | <b>429</b>                 | <b>100.0</b> | <b>288</b>          | <b>148</b>   | <b>436</b>                 | <b>100.0</b> |
| Malignant neoplasms (C00–C97)  | 28              | 20         | 48                         | 11.2         | 75                  | 47           | 122                        | 28.0         |
| Digestive organs (C15–C26)   | 11              | 6          | 17                         | 4.0          | 17                  | 10           | 27                         | 6.2          |
| Trachea, bronchus and lung (C33, C34)  | 7               | 3          | 10                         | 2.3          | 19                  | 11           | 30                         | 6.9          |
| Diabetes mellitus (E10–E14)  | 14              | 24         | 38                         | 8.9          | 3                   | 5            | 8                          | 1.8          |
| Mental and behavioural disorders (F00–F99)                                     | 7               | 4          | 11                         | 2.6          | 1                   | 1            | 2                          | 0.5          |
| Diseases of the circulatory system (I00–I99)                                   | 68              | 35         | 103                        | 24.0         | 84                  | 48           | 132                        | 30.3         |
| Ischaemic heart diseases (I20–I25)   | 36              | 17         | 53                         | 12.4         | 57                  | 27           | 84                         | 19.3         |
| Cerebrovascular diseases (I60–I69)   | 9               | 5          | 14                         | 3.3          | 9                   | 7            | 16                         | 3.7          |
| Diseases of the respiratory system (J00–J99)                                   | 30              | 13         | 43                         | 10.0         | 22                  | 9            | 31                         | 7.1          |
| Chronic lower respiratory diseases (J40–J47)                                   | 18              | 9          | 27                         | 6.3          | 14                  | 8            | 22                         | 5.0          |
| Diseases of the digestive system (K00–K93)                                     | 14              | 9          | 23                         | 5.4          | 10                  | 5            | 15                         | 3.4          |
| Diseases of the liver (K70–K77)  | 9               | 7          | 16                         | 3.7          | 5                   | -            | 5                          | 1.1          |
| Certain conditions originating in the perinatal period (P00–P96)               | 11              | 4          | 15                         | 3.5          | 8                   | 1            | 9                          | 2.1          |
| Congenital malformations, deformations and chromosomal abnormalities (Q00–Q99) | 1               | 3          | 4                          | 0.9          | 4                   | 1            | 5                          | 1.1          |
| All other medical conditions (remainder of A00–R99)                            | 34              | 32         | 66                         | 15.4         | 21                  | 17           | 38                         | 8.7          |
| External causes of morbidity and mortality (V01–Y98)                           | 52              | 26         | 78                         | 18.2         | 60                  | 14           | 74                         | 17.0         |
| Transport accidents (V01–V99)  | 14              | 10         | 24                         | 5.6          | 17                  | 6            | 23                         | 5.3          |
| Intentional self-harm (X60–X84)  | 16              | 2          | 18                         | 4.2          | 23                  | 2            | 25                         | 5.7          |
| Assault (X85–Y09)  | 7               | 10         | 17                         | 4.0          | 3                   | -            | 3                          | 0.7          |
| Other external causes (remainder of V01–Y98)                                   | 15              | 4          | 19                         | 4.4          | 17                  | 6            | 23                         | 5.3          |

(a) Excludes Indigenous origin not stated.

(b) Coverage varies for states and territories Indigenous death registration data. See Appendix 6 for further explanation.

## 1.6 UNDERLYING CAUSE, Indigenous people(a) and usual residence(b) *continued*

| Cause of death and ICD code  | INDIGENOUS..... |            |                            |              | NON-INDIGENOUS..... |               |                            |              |
|--|-----------------|------------|----------------------------|--------------|---------------------|---------------|----------------------------|--------------|
|  | Males           | Females    | Proportion of total deaths |              | Males               | Females       | Proportion of total deaths |              |
|  | no.             | no.        | Persons                    | %            | no.                 | no.           | Persons                    | %            |
| AUSTRALIA(c)   |                 |            |                            |              |                     |               |                            |              |
| <b>All causes</b>  | <b>1 218</b>    | <b>845</b> | <b>2 063</b>               | <b>100.0</b> | <b>62 826</b>       | <b>57 924</b> | <b>120 750</b>             | <b>100.0</b> |
| Malignant neoplasms (C00–C97)  | 163             | 166        | 329                        | 15.9         | 19 845              | 15 101        | 34 946                     | 28.9         |
| Digestive organs (C15–C26)   | 47              | 25         | 72                         | 3.5          | 5 640               | 4 232         | 9 872                      | 8.2          |
| Trachea, bronchus and lung (C33, C34)  | 49              | 33         | 82                         | 4.0          | 4 430               | 2 241         | 6 671                      | 5.5          |
| Diabetes mellitus (E10–E14)  | 65              | 84         | 149                        | 7.2          | 1 508               | 1 294         | 2 802                      | 2.3          |
| Mental and behavioural disorders (F00–F99)                                     | 37              | 15         | 52                         | 2.5          | 990                 | 1 522         | 2 512                      | 2.1          |
| Diseases of the circulatory system (I00–I99)                                   | 364             | 231        | 595                        | 28.8         | 22 239              | 24 302        | 46 541                     | 38.5         |
| Ischaemic heart diseases (I20–I25)   | 238             | 124        | 362                        | 17.5         | 13 062              | 11 638        | 24 700                     | 20.5         |
| Cerebrovascular diseases (I60–I69)   | 55              | 36         | 91                         | 4.4          | 4 605               | 6 912         | 11 517                     | 9.5          |
| Diseases of the respiratory system (J00–J99)                                   | 117             | 77         | 194                        | 9.4          | 5 336               | 4 591         | 9 927                      | 8.2          |
| Chronic lower respiratory diseases (J40–J47)                                   | 75              | 45         | 120                        | 5.8          | 3 167               | 2 340         | 5 507                      | 4.6          |
| Diseases of the digestive system (K00–K93)                                     | 53              | 43         | 96                         | 4.7          | 1 883               | 1 893         | 3 776                      | 3.1          |
| Diseases of the liver (K70–K77)  | 34              | 28         | 62                         | 3.0          | 746                 | 326           | 1 072                      | 0.9          |
| Certain conditions originating in the perinatal period (P00–P96)               | 35              | 24         | 59                         | 2.9          | 341                 | 251           | 592                        | 0.5          |
| Congenital malformations, deformations and chromosomal abnormalities (Q00–Q99) | 22              | 7          | 29                         | 1.4          | 296                 | 246           | 542                        | 0.4          |
| All other medical conditions (remainder of A00–R99)                            | 118             | 99         | 217                        | 10.5         | 5 453               | 6 499         | 11 952                     | 9.9          |
| External causes of morbidity and mortality (V01–Y98)                           | 244             | 99         | 343                        | 16.6         | 4 935               | 2 225         | 7 160                      | 5.9          |
| Transport accidents (V01–V99)  | 58              | 23         | 81                         | 3.9          | 1 351               | 458           | 1 809                      | 1.5          |
| Intentional self-harm (X60–X84)  | 83              | 22         | 105                        | 5.1          | 1 768               | 485           | 2 253                      | 1.9          |
| Assault (X85–Y09)  | 25              | 21         | 46                         | 2.2          | 154                 | 80            | 234                        | 0.2          |
| Other external causes (remainder of V01–Y98)                                   | 78              | 33         | 111                        | 5.4          | 1 662               | 1 202         | 2 864                      | 2.4          |

(a) Excludes Indigenous origin not stated.

(b) Coverage varies for states and territories Indigenous death registration data.

See Appendix 6 for further explanation.

(c) Includes Tasmania and the Australian Capital Territory which are not published separately due to small numbers. Further information is available on request.

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

| Cause of death and ICD code   | YEARS OF<br>POTENTIAL LIFE<br>LOST..... |                | PERCENTAGE OF<br>DEATHS(b)..... |              | PERCENTAGE OF<br>YPLL..... |              |
|---|---|----------------|---------------------------------|--------------|----------------------------|--------------|
|   | Males                                   | Females        | Males                           | Females      | Males                      | Females      |
| <b>All causes</b>   | <b>528 594</b>                          | <b>273 945</b> | <b>100.0</b>                    | <b>100.0</b> | <b>100.0</b>               | <b>100.0</b> |
| Chapter I Certain infectious and parasitic diseases (A00–B99)                               | 9 541                                   | 4 624          | 1.4                             | 1.2          | 1.8                        | 1.7          |
| Human immunodeficiency virus (HIV) disease (B20–B24)  | 3 102                                   | 334            | 0.3                             | 0.1          | 0.6                        | 0.1          |
| Chapter II Neoplasms (C00–D48)  | 143 230                                 | 115 103        | 37.5                            | 45.7         | 27.1                       | 42.0         |
| Malignant neoplasms (C00–C97)   | 141 760                                 | 113 410        | 37.1                            | 45.1         | 26.8                       | 41.4         |
| Digestive organs (C15–C26)  | 40 938                                  | 23 201         | 11.2                            | 10.8         | 7.7                        | 8.5          |
| Trachea, bronchus and lung (C33, C34)   | 29 053                                  | 15 605         | 9.1                             | 7.6          | 5.5                        | 5.7          |
| Breast (C50)  | 200                                     | 26 424         | 0.1                             | 8.9          | —                          | 9.6          |
| Prostate (C61)  | 6 220                                   | ..             | 2.8                             | ..           | 1.2                        | ..           |
| Lymphoid, haematopoietic and related tissue (C81–C96)                                       | 17 171                                  | 10 972         | 3.6                             | 4.1          | 3.2                        | 4.0          |
| Chapter IV Endocrine, nutritional and metabolic diseases (E00–E90)                          | 15 008                                  | 8 286          | 3.5                             | 3.5          | 2.8                        | 3.0          |
| Diabetes mellitus (E10–E14)   | 8 921                                   | 4 915          | 2.4                             | 2.5          | 1.7                        | 1.8          |
| Chapter V Mental and behavioural disorders (F00–F99)  | 8 819                                   | 3 298          | 1.2                             | 0.9          | 1.7                        | 1.2          |
| Mental and behavioural disorders due to psychoactive substance use (F10–F19)                | 7 662                                   | 2 333          | 0.8                             | 0.4          | 1.4                        | 0.9          |
| Chapter VI Diseases of the nervous system (G00–G99)   | 15 558                                  | 11 829         | 2.5                             | 3.4          | 2.9                        | 4.3          |
| Chapter IX Diseases of the circulatory system (I00–I99)                                     | 103 634                                 | 41 817         | 28.1                            | 23.1         | 19.6                       | 15.3         |
| Ischaemic heart diseases (I20–I25)  | 67 139                                  | 17 948         | 18.5                            | 11.8         | 12.7                       | 6.6          |
| Cerebrovascular diseases (I60–I69)  | 14 008                                  | 9 946          | 4.4                             | 5.7          | 2.7                        | 3.6          |
| Diseases of arteries, arterioles and capillaries (I70–I79)                                  | 3 974                                   | 1 866          | 1.4                             | 1.0          | 0.8                        | 0.7          |
| Chapter X Diseases of the respiratory system (J00–J99)                                      | 19 599                                  | 14 708         | 6.1                             | 7.5          | 3.7                        | 5.4          |
| Influenza and pneumonia (J10–J18)   | 3 641                                   | 2 724          | 0.9                             | 1.0          | 0.7                        | 1.0          |
| Chronic lower respiratory diseases (J40–J47)  | 12 197                                  | 9 668          | 4.2                             | 5.4          | 2.3                        | 3.5          |
| Chapter XI Diseases of the digestive system (K00–K93)                                       | 15 910                                  | 7 607          | 3.4                             | 3.2          | 3.0                        | 2.8          |
| Diseases of liver (K70–K77)   | 10 957                                  | 4 322          | 2.0                             | 1.3          | 2.1                        | 1.6          |
| Chapter XIV Diseases of the genitourinary system (N00–N99)                                  | 2 643                                   | 2 183          | 0.9                             | 1.3          | 0.5                        | 0.8          |
| Chapter XVII Congenital malformations, deformations and chromosomal abnormalities (Q00–Q99) | 5 076                                   | 4 613          | 0.4                             | 0.5          | 1.0                        | 1.7          |
| Chapter XX External causes of morbidity and mortality (V01–Y98)                             | 182 642                                 | 53 706         | 14.0                            | 7.7          | 34.6                       | 19.6         |
| Accidents (V01–X59)   | 103 184                                 | 31 091         | 7.6                             | 4.4          | 19.5                       | 11.3         |
| Transport accidents (V01–V99)   | 59 870                                  | 17 157         | 4.1                             | 2.2          | 11.3                       | 6.3          |
| Accidental poisoning by and exposure to noxious substances (X40–X49)                        | 17 547                                  | 7 308          | 1.2                             | 1.0          | 3.3                        | 2.7          |
| Intentional self-harm (X60–X84)   | 68 503                                  | 17 010         | 5.5                             | 2.5          | 13.0                       | 6.2          |

(a) YPLL measures the extent of premature mortality which is assumed to be any death at ages of 1–75 inclusive. See Technical Note for further explanation.

(b) Percentage of deaths aged 1–75 years.

## SECTION 2

## MULTIPLE CAUSES OF DEATH .....

### INTRODUCTION

Multiple causes of death include all causes and conditions reported on the death certificate (i.e. both underlying and associated causes; see Glossary for further details). Deaths due to External causes are those which occur as a result of accidents, poisonings and/or violence. They are classified according to the event, 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 causes reported on the death certificate.

### LEADING MULTIPLE CAUSES

In 2001, Malignant neoplasms, Ischaemic heart diseases and Cerebrovascular diseases, the leading underlying causes of death which are responsible for 58% of all deaths, were also the leading multiple causes of death and were reported either as the underlying or associated cause in 77% of all deaths. The fourth ranked multiple cause was Influenza and pneumonia which was reported in 14% of all deaths and was ranked as the seventh leading underlying cause and responsible for 2.1% of deaths.

The following table lists the ten leading multiple causes of death (underlying and associated causes) appearing on death certificates for deaths registered in 2001, and their corresponding ranking in terms of underlying causes.

### LEADING MULTIPLE CAUSES OF DEATH

| Cause of death and ICD code  | Multiple cause(a)..... |              |           | Underlying cause |           |
|--|------------------------|--------------|-----------|------------------|-----------|
|  | no.                    | %            | rank      | %                | rank      |
| Malignant neoplasms (C00–C97)  | 41 269                 | 32.1         | 1         | 28.6             | 1         |
| Ischaemic heart diseases (I20–I25)   | 37 761                 | 29.4         | 2         | 20.4             | 2         |
| Cerebrovascular diseases (I60–I69)   | 20 202                 | 15.7         | 3         | 9.4              | 3         |
| Influenza and pneumonia (J10–J18)  | 17 382                 | 13.5         | 4         | 2.1              | 7         |
| Heart failure (I50)  | 17 023                 | 13.2         | 5         | 2.0              | 9         |
| Chronic lower respiratory diseases (J40–J47)                                     | 13 508                 | 10.5         | 6         | 4.6              | 4         |
| Renal failure (N17–N19)  | 12 384                 | 9.6          | 7         | 1.3              | 12        |
| Injury, poisoning and certain other consequences of external causes (S00–T98)(b) | 11 361                 | 8.8          | 8         | ..               | ..        |
| Diabetes mellitus (E10–E14)  | 10 325                 | 8.0          | 9         | 2.4              | 6         |
| Accidents (V01–X59)  | 7 248                  | 5.6          | 10        | 3.8              | 5         |
| <b>Deaths from all causes</b>  | <b>128 544</b>         | <b>100.0</b> | <b>..</b> | <b>100.0</b>     | <b>..</b> |

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

(b) Not coded as an underlying cause in accordance with ICD conventions.

## NUMBER OF MULTIPLE CAUSES

For the 128,544 deaths registered in 2001, there were 364,473 causes reported (including 15,827 injuries) giving a mean 2.8 causes per death. In 21% of all deaths, only one cause was reported. The average number of causes reported per death varies with age, sex and underlying cause of death. Deaths as a result of External causes recorded 3.4 causes (including injuries) per death in 2001, with deaths as a result of Accidental falls averaging 4.3 causes, reflecting the number of injuries sustained.

## RELATIONSHIP OF CAUSES

The following matrix illustrates relationships between the various causes of death in 2001. For example, malignant neoplasms, the leading underlying and multiple cause, was reported alone in 39% of cases and has a relatively low incidence of being reported with other leading causes. In contrast, of the 1,704 deaths caused by Renal failure, it was reported alone on only 8.3% of deaths but is often reported with Ischaemic heart diseases and Heart failure.

## LEADING MULTIPLE CAUSES WITH ASSOCIATED CAUSES

*Reported with selected associated causes.....*

| <i>Leading multiple causes reported as the underlying cause</i> | <i>Total no. of deaths</i> | <i>Reported alone %</i> | <i>Malignant neoplasms C00–C97 %</i> | <i>Ischaemic heart diseases I20–I25 %</i> | <i>Cerebro-vascular disease I60–I69 %</i> | <i>Influenza and pneumonia J10–J18 %</i> | <i>Heart failure I50 %</i> | <i>Chronic lower respiratory disease J40–J47 %</i> | <i>Renal failure N17–N19 %</i> |
|---|----------------------------|-------------------------|--------------------------------------|---|---|--|----------------------------|--|--------------------------------|
| Malignant neoplasms (C00–C97)                                   | 36 750                     | 38.8                    | —                                    | 7.1                                       | 3.6                                       | 8.3                                      | 3.6                        | 5.6  | 5.5                            |
| Ischaemic heart diseases (I20–I25)                              | 26 234                     | 13.4                    | 5.8                                  | —   | 9.2                                       | 5.5                                      | 23.6                       | 9.8  | 9.7                            |
| Cerebrovascular diseases (I60–I69)                              | 12 146                     | 26.2                    | 4.4                                  | 10.2                                      | —   | 16.1                                     | 5.5                        | 3.5  | 3.8                            |
| Influenza and pneumonia (J10–J18)                               | 2 702                      | 35.0                    | 2.1                                  | 13.4                                      | 3.8                                       | —  | 5.6                        | 2.6  | 8.9                            |
| Heart failure (I50)   | 2 612                      | 12.9                    | 5.9                                  | 0.5                                       | 8.1                                       | 28.9                                     | —                          | 10.2   | 19.2                           |
| Chronic lower respiratory diseases (J40–J47)                    | 5 916                      | 7.9                     | 6.7                                  | 17.1                                      | 4.9                                       | 31.4                                     | 18.1                       | —  | 6.9                            |
| Renal failure (N17–N19)   | 1 704                      | 8.3                     | 4.8                                  | 26.5                                      | 8.1                                       | 12.4                                     | 29.0                       | 5.8  | —                              |



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

### NUMBER OF CAUSES PER DEATH .....

|                          | <i>Mean causes<br/>per death</i> | <i>Total deaths</i> | <i>Total</i> | <i>1</i>    | <i>2</i>    | <i>3</i>    | <i>4</i>    | <i>5</i>   | <i>6 or<br/>more</i> |
|--------------------------|----------------------------------|---------------------|--------------|-------------|-------------|-------------|-------------|------------|----------------------|
| <i>Age group (years)</i> | <i>no.</i>                       | <i>no.</i>          | <i>%</i>     | <i>%</i>    | <i>%</i>    | <i>%</i>    | <i>%</i>    | <i>%</i>   | <i>%</i>             |
| MALES                    |                                  |                     |              |             |             |             |             |            |                      |
| <b>All ages(a)</b>       | <b>2.9</b>                       | <b>66 835</b>       | <b>100.0</b> | <b>20.3</b> | <b>27.4</b> | <b>23.1</b> | <b>14.7</b> | <b>8.1</b> | <b>6.5</b>           |
| Under 1                  | 2.5                              | 751                 | 100.0        | 32.0        | 26.9        | 19.6        | 10.9        | 6.4        | 4.3                  |
| 1–14                     | 2.6                              | 359                 | 100.0        | 17.0        | 44.8        | 19.8        | 9.2         | 4.7        | 4.5                  |
| 15–24                    | 2.8                              | 1 122               | 100.0        | 8.7         | 52.1        | 19.1        | 8.4         | 5.6        | 6.1                  |
| 25–34                    | 2.8                              | 1 641               | 100.0        | 10.2        | 47.1        | 18.4        | 11.9        | 6.1        | 6.3                  |
| 35–44                    | 2.7                              | 2 280               | 100.0        | 20.9        | 37.0        | 19.1        | 11.0        | 6.2        | 5.8                  |
| 45–54                    | 2.5                              | 4 049               | 100.0        | 29.1        | 29.4        | 19.5        | 11.2        | 6.1        | 4.7                  |
| 55–64                    | 2.6                              | 7 515               | 100.0        | 28.5        | 27.2        | 19.8        | 12.8        | 6.5        | 5.2                  |
| 65–74                    | 2.8                              | 14 570              | 100.0        | 23.4        | 24.9        | 22.9        | 14.4        | 7.9        | 6.5                  |
| 75–84                    | 3.0                              | 21 395              | 100.0        | 17.8        | 25.3        | 24.3        | 16.3        | 9.1        | 7.2                  |
| 85 and over              | 3.0                              | 13 140              | 100.0        | 15.0        | 26.1        | 26.6        | 16.5        | 9.1        | 6.7                  |
| FEMALES                  |                                  |                     |              |             |             |             |             |            |                      |
| <b>All ages(a)</b>       | <b>2.8</b>                       | <b>61 709</b>       | <b>100.0</b> | <b>21.5</b> | <b>27.5</b> | <b>23.6</b> | <b>14.2</b> | <b>7.4</b> | <b>5.7</b>           |
| Under 1                  | 2.5                              | 558                 | 100.0        | 26.3        | 34.4        | 21.0        | 9.7         | 3.9        | 4.7                  |
| 1–14                     | 2.6                              | 243                 | 100.0        | 22.2        | 39.5        | 17.3        | 9.9         | 4.5        | 6.6                  |
| 15–24                    | 2.9                              | 388                 | 100.0        | 12.6        | 41.8        | 20.4        | 10.1        | 6.2        | 9.0                  |
| 25–34                    | 2.8                              | 606                 | 100.0        | 19.5        | 36.0        | 18.0        | 10.7        | 8.7        | 7.1                  |
| 35–44                    | 2.6                              | 1 312               | 100.0        | 29.5        | 30.6        | 17.4        | 10.4        | 5.6        | 6.6                  |
| 45–54                    | 2.5                              | 2 560               | 100.0        | 34.6        | 25.9        | 18.4        | 10.4        | 5.9        | 4.8                  |
| 55–64                    | 2.6                              | 4 210               | 100.0        | 31.9        | 25.3        | 18.6        | 12.1        | 6.2        | 5.8                  |
| 65–74                    | 2.8                              | 8 935               | 100.0        | 25.8        | 25.0        | 21.4        | 13.9        | 7.6        | 6.3                  |
| 75–84                    | 2.9                              | 18 980              | 100.0        | 20.0        | 26.1        | 24.6        | 15.0        | 8.3        | 5.9                  |
| 85 and over              | 2.8                              | 23 914              | 100.0        | 17.5        | 29.2        | 25.7        | 15.0        | 7.2        | 5.4                  |
| PERSONS                  |                                  |                     |              |             |             |             |             |            |                      |
| <b>All ages(a)</b>       | <b>2.8</b>                       | <b>128 544</b>      | <b>100.0</b> | <b>20.9</b> | <b>27.4</b> | <b>23.4</b> | <b>14.5</b> | <b>7.7</b> | <b>6.1</b>           |
| Under 1                  | 2.5                              | 1 309               | 100.0        | 29.6        | 30.1        | 20.2        | 10.4        | 5.3        | 4.4                  |
| 1–14                     | 2.6                              | 602                 | 100.0        | 19.1        | 42.7        | 18.8        | 9.5         | 4.7        | 5.3                  |
| 15–24                    | 2.8                              | 1 510               | 100.0        | 9.7         | 49.5        | 19.4        | 8.8         | 5.8        | 6.8                  |
| 25–34                    | 2.8                              | 2 247               | 100.0        | 12.7        | 44.1        | 18.3        | 11.6        | 6.8        | 6.5                  |
| 35–44                    | 2.6                              | 3 592               | 100.0        | 24.0        | 34.7        | 18.5        | 10.8        | 6.0        | 6.1                  |
| 45–54                    | 2.5                              | 6 609               | 100.0        | 31.3        | 28.0        | 19.1        | 10.9        | 6.0        | 4.8                  |
| 55–64                    | 2.6                              | 11 725              | 100.0        | 29.7        | 26.5        | 19.4        | 12.5        | 6.4        | 5.4                  |
| 65–74                    | 2.8                              | 23 505              | 100.0        | 24.3        | 24.9        | 22.3        | 14.2        | 7.8        | 6.4                  |
| 75–84                    | 2.9                              | 40 375              | 100.0        | 18.8        | 25.7        | 24.4        | 15.7        | 8.7        | 6.6                  |
| 85 and over              | 2.9                              | 37 054              | 100.0        | 16.6        | 28.1        | 26.0        | 15.5        | 7.8        | 5.8                  |

(a) Including age not stated.

## 2.2 UNDERLYING AND NUMBER OF CAUSES OF DEATH REPORTED

| Underlying cause of death and ICD code  | REPORTED WITH..... |                 |                  |                    |                           | Mean number of causes |
|---|--------------------|-----------------|------------------|--------------------|---------------------------|-----------------------|
|   | Reported alone     | One other cause | Two other causes | Three other causes | Four or more other causes |                       |
| <b>All causes</b>   | <b>26 828</b>      | <b>35 260</b>   | <b>30 030</b>    | <b>18 603</b>      | <b>17 823</b>             | <b>2.8</b>            |
| Chapter I Certain infectious and parasitic diseases (A00–B99)   | 237                | 336             | 388              | 320                | 394                       | 3.4                   |
| Septicaemia (A40, A41)  | 94                 | 206             | 249              | 188                | 236                       | 3.5                   |
| Human immunodeficiency virus (HIV) disease (B20–B24)  | 66                 | 23              | 14               | 10                 | 5                         | 1.9                   |
| Chapter II Neoplasms (C00–D48)  | 14 360             | 9 458           | 6 995            | 3 582              | 3 102                     | 2.3                   |
| Malignant neoplasms (C00–C97)   | 14 261             | 9 266           | 6 803            | 3 460              | 2 960                     | 2.3                   |
| Digestive organs (C15–C26)  | 4 343              | 2 551           | 1 801            | 878                | 807                       | 2.2                   |
| Oesophagus (C15)  | 422                | 255             | 181              | 102                | 84                        | 2.3                   |
| Stomach (C16)   | 545                | 328             | 163              | 91                 | 84                        | 2.1                   |
| Colon (C18)   | 1 351              | 798             | 637              | 287                | 269                       | 2.3                   |
| Rectosigmoid junction, rectum, anus and anal canal (C19–C21)  | 605                | 339             | 221              | 111                | 127                       | 2.2                   |
| Liver and intrahepatic bile ducts (C22)   | 230                | 219             | 181              | 87                 | 61                        | 2.4                   |
| Pancreas (C25)  | 901                | 413             | 267              | 124                | 104                       | 2.0                   |
| Trachea, bronchus and lung (C33, C34)   | 2 616              | 1 901           | 1 323            | 651                | 547                       | 2.3                   |
| Melanoma of skin (C43)  | 493                | 258             | 160              | 87                 | 71                        | 2.1                   |
| Breast (C50)  | 1 148              | 582             | 464              | 242                | 176                       | 2.2                   |
| Female genital organs (C51–C58)   | 687                | 374             | 255              | 108                | 82                        | 2.1                   |
| Ovary (C56)   | 422                | 199             | 129              | 46                 | 37                        | 1.9                   |
| Male genital organs (C60–C63)   | 986                | 679             | 537              | 309                | 242                       | 2.4                   |
| Prostate (C61)  | 965                | 674             | 527              | 307                | 238                       | 2.4                   |
| Urinary tract (C64–C68)   | 678                | 457             | 359              | 177                | 153                       | 2.3                   |
| Kidney, except renal pelvis (C64)   | 351                | 201             | 162              | 73                 | 55                        | 2.2                   |
| Bladder (C67)   | 302                | 235             | 182              | 93                 | 92                        | 2.5                   |
| Brain (C71)   | 644                | 232             | 118              | 56                 | 29                        | 1.7                   |
| Lymphoid, haematopoietic and related tissue (C81–C96)   | 1 000              | 931             | 821              | 470                | 438                       | 2.7                   |
| Leukaemia (C91–C95)   | 265                | 370             | 364              | 192                | 194                       | 2.9                   |
| In situ and benign neoplasms and neoplasms of uncertain or unknown behaviour (D00–D48)                                    | 99                 | 192             | 192              | 122                | 142                       | 3.2                   |
| Chapter III Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50–D89) | 19                 | 69              | 104              | 90                 | 126                       | 3.9                   |
| Chapter IV Endocrine, nutritional and metabolic diseases (E00–E90)  | 101                | 725             | 1 344            | 1 080              | 1 064                     | 3.7                   |
| Diabetes mellitus (E10–E14)   | 61                 | 516             | 997              | 806                | 698                       | 3.7                   |
| Chapter V Mental and behavioural disorders (F00–F99)  | 315                | 975             | 701              | 387                | 326                       | 2.9                   |
| Organic, including symptomatic, mental disorders (F00–F09)  | 284                | 904             | 533              | 257                | 159                       | 2.6                   |
| Chapter VI Diseases of the nervous system (G00–G99)   | 676                | 1 540           | 1 039            | 552                | 397                       | 2.7                   |
| Alzheimer's disease (G30)   | 293                | 672             | 389              | 163                | 90                        | 2.5                   |
| Chapter VII Diseases of the eye and adnexa (H00–H59)  | —                  | 1               | 1                | 1                  | —                         | 3.0                   |
| Chapter VIII Diseases of the ear and mastoid process (H60–H95)  | —                  | —               | 4                | —                  | 3                         | 4.4                   |
| Chapter IX Diseases of the circulatory system (I00–I99)   | 8 162              | 13 775          | 12 812           | 7 911              | 6 666                     | 2.9                   |
| All heart disease (I05–I09, I11, I13, I20–I25, I26, I27, I30–I52)   | 4 507              | 8 737           | 9 235            | 5 983              | 5 185                     | 3.1                   |
| Acute rheumatic fever and chronic rheumatic heart diseases (I00–I09)  | 5                  | 26              | 61               | 53                 | 97                        | 4.3                   |
| Hypertensive diseases (I10–I15)   | 208                | 354             | 337              | 182                | 142                       | 2.8                   |
| Ischaemic heart diseases (I20–I25)  | 3 520              | 6 940           | 7 215            | 4 651              | 3 908                     | 3.0                   |
| Acute myocardial infarction (I21)   | 1 777              | 4 453           | 4 040            | 2 392              | 1 781                     | 2.9                   |
| Pulmonary heart disease and diseases of pulmonary circulation and other forms of heart disease (I26–I52)                  | 835                | 1 588           | 1 814            | 1 204              | 1 130                     | 3.1                   |
| Heart failure (I50)   | 336                | 741             | 749              | 416                | 370                       | 3.0                   |
| Cerebrovascular diseases (I60–I69)  | 3 188              | 4 065           | 2 662            | 1 321              | 910                       | 2.4                   |
| Diseases of arteries, arterioles and capillaries (I70–I79)  | 405                | 695             | 661              | 450                | 414                       | 3.0                   |
| Atherosclerosis (I70)   | 47                 | 153             | 137              | 70                 | 50                        | 2.9                   |
| Aortic aneurysm and dissection (I71)  | 321                | 404             | 280              | 197                | 136                       | 2.6                   |

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

| Underlying cause of death and ICD code  | REPORTED WITH..... |                    |                     |                       |                                 | Mean<br>number of<br>causes |
|---|--------------------|--------------------|---------------------|-----------------------|---------------------------------|-----------------------------|
|   | Reported alone     | One other<br>cause | Two other<br>causes | Three other<br>causes | Four or<br>more other<br>causes |                             |
| Chapter X Diseases of the respiratory system (J00–J99)  | 1 669              | 2 829              | 2 747               | 1 736                 | 1 645                           | 3.0                         |
| Influenza and pneumonia (J10–J18)   | 945                | 789                | 515                 | 262                   | 191                             | 2.3                         |
| Chronic lower respiratory diseases (J40–J47)  | 470                | 1 513              | 1 695               | 1 126                 | 1 112                           | 3.3                         |
| Emphysema (J43)   | 62                 | 205                | 200                 | 112                   | 99                              | 3.1                         |
| Asthma and status asthmaticus (J45, J46)  | 90                 | 85                 | 124                 | 68                    | 55                              | 2.9                         |
| Chapter XI Diseases of the digestive system (K00–K93)   | 368                | 888                | 964                 | 817                   | 1 052                           | 3.5                         |
| Diseases of oesophagus, stomach and<br>duodenum (K20–K31)   | 51                 | 148                | 155                 | 122                   | 158                             | 3.5                         |
| Gastric and duodenal ulcer (K25–K27)  | 46                 | 126                | 105                 | 74                    | 89                              | 3.3                         |
| Diseases of liver (K70–K77)   | 151                | 315                | 286                 | 221                   | 223                             | 3.2                         |
| Chapter XII Diseases of the skin and subcutaneous<br>tissue (L00–L99)   | —                  | 42                 | 77                  | 62                    | 84                              | 4.0                         |
| Chapter XIII Diseases of the musculoskeletal system and<br>connective tissue (M00–M99)                                | 20                 | 139                | 252                 | 181                   | 304                             | 4.0                         |
| Arthropathies and systemic connective tissue<br>disorders (M00–M36)   | 16                 | 94                 | 156                 | 113                   | 182                             | 3.9                         |
| Chapter XIV Diseases of the genitourinary system (N00–N99)  | 162                | 500                | 756                 | 623                   | 771                             | 3.7                         |
| Renal failure (N17–N19)   | 141                | 332                | 472                 | 358                   | 401                             | 3.5                         |
| Chapter XV Pregnancy, childbirth and the<br>puerperium (O00–O99)  | 3                  | 4                  | —                   | 2                     | 3                               | 2.8                         |
| Chapter XVI Certain conditions originating in the perinatal period<br>(P00–P96)                                       | 185                | 189                | 146                 | 82                    | 79                              | 2.6                         |
| Fetus and newborn affected by maternal factors and<br>by complications of pregnancy, labour and<br>delivery (P00–P04) | 85                 | 116                | 90                  | 46                    | 49                              | 2.8                         |
| Chapter XVII Congenital malformations, deformations and<br>chromosomal abnormalities (Q00–Q99)                        | 65                 | 190                | 164                 | 101                   | 94                              | 3.1                         |
| Congenital malformations of the circulatory<br>system (Q20–Q28)   | 34                 | 61                 | 57                  | 28                    | 35                              | 3.0                         |
| Chapter XVIII Symptoms, signs and abnormal clinical and<br>laboratory findings, not elsewhere classified (R00–R99)    | 426                | 74                 | 20                  | 13                    | 2                               | 1.3                         |
| Chapter XX External causes of morbidity and<br>mortality (V01–Y98)  | 60                 | 3 526              | 1 516               | 1 063                 | 1 711                           | 3.4                         |
| Accidents (V01–X59)   | 50                 | 1 826              | 923                 | 719                   | 1 322                           | 3.6                         |
| Transport accidents (V01–V99)   | 40                 | 1 086              | 389                 | 164                   | 325                             | 3.1                         |
| Falls (W00–W19)   | —                  | 110                | 132                 | 140                   | 252                             | 4.3                         |
| Accidental drowning and submersion (W65–W74)  | —                  | 162                | 51                  | 23                    | 25                              | 2.8                         |
| Intentional self-harm (X60–X84)   | 7                  | 1 500              | 464                 | 229                   | 254                             | 2.8                         |
| Hanging, strangulation and suffocation (X70)  | 1                  | 705                | 204                 | 85                    | 55                              | 2.5                         |
| Assault (X85–Y09)   | 3                  | 150                | 63                  | 41                    | 43                              | 3.0                         |

## 2.3 UNDERLYING AND MULTIPLE CAUSE DEATH MENTIONS, Numbers and ratios

| Cause of death and ICD code   | UNDERLYING CAUSE.. |               |                | MULTIPLE CAUSE(a).. |                |                | RATIO(b)   |
|---|--------------------|---------------|----------------|---------------------|----------------|----------------|------------|
|   | Males              | Females       | Persons        | Males               | Females        | Persons        | Persons    |
| <b>All causes</b>   | <b>66 835</b>      | <b>61 709</b> | <b>128 544</b> | <b>181 700</b>      | <b>166 946</b> | <b>348 646</b> | <b>2.7</b> |
| Chapter I Certain infectious and parasitic diseases (A00–B99)   | 887                | 788           | 1 675          | 4 710               | 4 213          | 8 923          | 5.3        |
| Septicaemia (A40, A41)  | 442                | 531           | 973            | 3 553               | 3 526          | 7 079          | 7.3        |
| Human immunodeficiency virus (HIV) disease (B20–B24)  | 107                | 11            | 118            | 135                 | 14             | 149            | 1.3        |
| Chapter II Neoplasms (C00–D48)  | 21 126             | 16 371        | 37 497         | 29 168              | 22 161         | 51 329         | 1.4        |
| Malignant neoplasms (C00–C97)   | 20 753             | 15 997        | 36 750         | 28 209              | 21 358         | 49 567         | 1.3        |
| Digestive organs (C15–C26)  | 5 918              | 4 462         | 10 380         | 6 655               | 4 976          | 11 631         | 1.1        |
| Oesophagus (C15)  | 711                | 333           | 1 044          | 758                 | 372            | 1 130          | 1.1        |
| Stomach (C16)   | 750                | 461           | 1 211          | 801                 | 515            | 1 316          | 1.1        |
| Colon (C18)   | 1 760              | 1 582         | 3 342          | 2 021               | 1 765          | 3 786          | 1.1        |
| Rectosigmoid junction, rectum, anus and anal canal (C19–C21)  | 855                | 548           | 1 403          | 996                 | 628            | 1 624          | 1.2        |
| Liver and intrahepatic bile ducts (C22)   | 538                | 240           | 778            | 605                 | 266            | 871            | 1.1        |
| Pancreas (C25)  | 950                | 859           | 1 809          | 996                 | 898            | 1 894          | 1.0        |
| Trachea, bronchus and lung (C33, C34)   | 4 642              | 2 396         | 7 038          | 5 021               | 2 529          | 7 550          | 1.1        |
| Melanoma of skin (C43)  | 686                | 383           | 1 069          | 778                 | 423            | 1 201          | 1.1        |
| Breast (C50)  | 27                 | 2 585         | 2 612          | 43                  | 3 178          | 3 221          | 1.2        |
| Female genital organs (C51–C58)   | ..                 | 1 506         | 1 506          | ..                  | 1 709          | 1 709          | 1.1        |
| Ovary (C56)   | ..                 | 833           | 833            | ..                  | 890            | 890            | 1.1        |
| Male genital organs (C60–C63)   | 2 753              | ..            | 2 753          | 3 987               | ..             | 3 987          | 1.4        |
| Prostate (C61)  | 2 711              | ..            | 2 711          | 3 929               | ..             | 3 929          | 1.4        |
| Urinary tract (C64–C68)   | 1 162              | 662           | 1 824          | 1 515               | 792            | 2 307          | 1.3        |
| Kidney, except renal pelvis (C64)   | 496                | 346           | 842            | 603                 | 388            | 991            | 1.2        |
| Bladder (C67)   | 629                | 275           | 904            | 866                 | 355            | 1 221          | 1.4        |
| Brain (C71)   | 631                | 448           | 1 079          | 649                 | 463            | 1 112          | 1.0        |
| Lymphoid, haematopoietic and related tissue (C81–C96)   | 1 997              | 1 663         | 3 660          | 2 498               | 2 009          | 4 507          | 1.2        |
| Leukaemia (C91–C95)   | 803                | 582           | 1 385          | 1 009               | 712            | 1 721          | 1.2        |
| In situ and benign neoplasms and neoplasms of uncertain or unknown behaviour (D00–D48)                                    | 373                | 374           | 747            | 959                 | 803            | 1 762          | 2.4        |
| Chapter III Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50–D89) | 183                | 225           | 408            | 1 831               | 1 795          | 3 626          | 8.9        |
| Chapter IV Endocrine, nutritional and metabolic diseases (E00–E90)  | 2 223              | 2 091         | 4 314          | 8 618               | 8 247          | 16 865         | 3.9        |
| Diabetes mellitus (E10–E14)   | 1 639              | 1 439         | 3 078          | 5 614               | 4 713          | 10 327         | 3.4        |
| Chapter V Mental and behavioural disorders (F00–F99)  | 1 073              | 1 631         | 2 704          | 6 391               | 6 248          | 12 639         | 4.7        |
| Organic, including symptomatic, mental disorders (F00–F09)  | 683                | 1 454         | 2 137          | 2 293               | 4 088          | 6 381          | 3.0        |
| Chapter VI Diseases of the nervous system (G00–G99)   | 1 894              | 2 310         | 4 204          | 5 315               | 5 546          | 10 861         | 2.6        |
| Alzheimer's disease (G30)   | 497                | 1 110         | 1 607          | 996                 | 2 033          | 3 029          | 1.9        |
| Chapter VII Diseases of the eye and adnexa (H00–H59)  | 2                  | 1             | 3              | 136                 | 205            | 341            | 113.7      |
| Chapter VIII Diseases of the ear and mastoid process (H60–H95)  | 3                  | 4             | 7              | 34                  | 48             | 82             | 11.7       |
| Chapter IX Diseases of the circulatory system (I00–I99)   | 23 602             | 25 724        | 49 326         | 63 308              | 63 121         | 126 429        | 2.6        |
| All heart disease (I05–I09, I11, I13, I20–I25, I26, I27, I30–I52)   | 17 027             | 16 620        | 33 647         | 47 826              | 44 600         | 92 426         | 2.7        |
| Acute rheumatic fever and chronic rheumatic heart diseases (I00–I09)  | 82                 | 160           | 242            | 244                 | 399            | 643            | 2.7        |
| Hypertensive diseases (I10–I15)   | 443                | 780           | 1 223          | 1 801               | 2 544          | 4 345          | 3.6        |
| Ischaemic heart diseases (I20–I25)  | 13 906             | 12 328        | 26 234         | 25 931              | 21 447         | 47 378         | 1.8        |
| Acute myocardial infarction (I21)   | 7 484              | 6 959         | 14 443         | 9 372               | 8 474          | 17 846         | 1.2        |
| Pulmonary heart disease and diseases of pulmonary circulation and other forms of heart disease (I26–I52)                  | 2 824              | 3 747         | 6 571          | 21 383              | 22 328         | 43 711         | 6.7        |
| Heart failure (I50)   | 982                | 1 630         | 2 612          | 7 595               | 9 498          | 17 093         | 6.5        |
| Cerebrovascular diseases (I60–I69)  | 4 852              | 7 294         | 12 146         | 9 687               | 12 875         | 22 562         | 1.9        |
| Diseases of arteries, arterioles and capillaries (I70–I79)  | 1 381              | 1 244         | 2 625          | 3 139               | 2 506          | 5 645          | 2.2        |
| Atherosclerosis (I70)   | 175                | 282           | 457            | 395                 | 477            | 872            | 1.9        |
| Aortic aneurysm and dissection (I71)  | 793                | 545           | 1 338          | 1 136               | 699            | 1 835          | 1.4        |

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

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

## 2.3 UNDERLYING AND MULTIPLE CAUSE DEATH MENTIONS, Numbers and ratios *continued*

| Cause of death and ICD code  | UNDERLYING CAUSE... |         |         | MULTIPLE CAUSE(a)... |         |         | RATIO(b) |
|--|---------------------|---------|---------|----------------------|---------|---------|----------|
|  | Males               | Females | Persons | Males                | Females | Persons | Persons  |
| Chapter X Diseases of the respiratory system (J00–J99)   | 5 725               | 4 901   | 10 626  | 26 801               | 22 125  | 48 926  | 4.6      |
| Influenza and pneumonia (J10–J18)  | 1 184               | 1 518   | 2 702   | 8 802                | 8 597   | 17 399  | 6.4      |
| Chronic lower respiratory diseases (J40–J47)   | 3 419               | 2 497   | 5 916   | 8 346                | 5 431   | 13 777  | 2.3      |
| Emphysema (J43)  | 408                 | 270     | 678     | 1 010                | 509     | 1 519   | 2.2      |
| Asthma and status asthmaticus (J45, J46)   | 175                 | 247     | 422     | 524                  | 806     | 1 330   | 3.2      |
| Chapter XI Diseases of the digestive system (K00–K93)  | 2 036               | 2 053   | 4 089   | 7 417                | 6 492   | 13 909  | 3.4      |
| Diseases of oesophagus, stomach and duodenum (K20–K31)   | 301                 | 333     | 634     | 1 140                | 1 025   | 2 165   | 3.4      |
| Gastric and duodenal ulcer (K25–K27)   | 203                 | 237     | 440     | 608                  | 556     | 1 164   | 2.6      |
| Diseases of liver (K70–K77)  | 822                 | 374     | 1 196   | 2 854                | 1 375   | 4 229   | 3.5      |
| Chapter XII Diseases of the skin and subcutaneous tissue (L00–L99)   | 106                 | 159     | 265     | 560                  | 820     | 1 380   | 5.2      |
| Chapter XIII Diseases of the musculoskeletal system and connective tissue (M00–M99)                                | 285                 | 611     | 896     | 1 747                | 3 201   | 4 948   | 5.5      |
| Arthropathies and systemic connective tissue disorders (M00–M36)   | 186                 | 375     | 561     | 1 064                | 1 779   | 2 843   | 5.1      |
| Chapter XIV Diseases of the genitourinary system (N00–N99)   | 1 242               | 1 570   | 2 812   | 8 834                | 8 360   | 17 194  | 6.1      |
| Renal failure (N17–N19)  | 813                 | 891     | 1 704   | 7 215                | 6 407   | 13 622  | 8.0      |
| Chapter XV Pregnancy, childbirth and the puerperium (O00–O99)  | ..                  | 12      | 12      | ..                   | 24      | 24      | 2.0      |
| Chapter XVI Certain conditions originating in the perinatal period (P00–P96)                                       | 395                 | 286     | 681     | 1 128                | 829     | 1 957   | 2.9      |
| Fetus and newborn affected by maternal factors and by complications of pregnancy, labour and delivery (P00–P04)    | 197                 | 189     | 386     | 451                  | 395     | 846     | 2.2      |
| Chapter XVII Congenital malformations, deformations and chromosomal abnormalities (Q00–Q99)                        | 335                 | 279     | 614     | 604                  | 509     | 1 113   | 1.8      |
| Congenital malformations of the circulatory system (Q20–Q28)   | 117                 | 98      | 215     | 206                  | 182     | 388     | 1.8      |
| Chapter XVIII Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00–R99)(c) | 272                 | 263     | 535     | 6 637                | 7 790   | 14 427  | 27.0     |
| Chapter XX External causes of morbidity and mortality (V01–Y98)  | 5 446               | 2 430   | 7 876   | 8 461                | 5 212   | 13 673  | 1.7      |
| Accidents (V01–X59)  | 3 155               | 1 685   | 4 840   | 4 495                | 3 052   | 7 547   | 1.6      |
| Transport accidents (V01–V99)  | 1 495               | 509     | 2 004   | 1 509                | 514     | 2 023   | 1.0      |
| Falls (W00–W19)  | 354                 | 280     | 634     | 431                  | 360     | 791     | 1.2      |
| Accidental drowning and submersion (W65–W74)   | 210                 | 51      | 261     | 222                  | 58      | 280     | 1.1      |
| Intentional self-harm (X60–X84)  | 1 935               | 519     | 2 454   | 2 009                | 549     | 2 558   | 1.0      |
| Hanging, strangulation and suffocation (X70)   | 855                 | 195     | 1 050   | 856                  | 196     | 1 052   | 1.0      |
| Assault (X85–Y09)  | 192                 | 108     | 300     | 197                  | 121     | 318     | 1.1      |

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

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

(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 CAUSES OF DEATH, Underlying cause and most common associated causes

| Underlying cause/associated cause and ICD code             | Males..... |       | Females..... |       | Persons..... |       |
|--|------------|-------|--------------|-------|--------------|-------|
|  | no.        | %     | no.          | %     | no.          | %     |
| Malignant neoplasms (C00–C97)                              | 20 753     | 100.0 | 15 997       | 100.0 | 36 750       | 100.0 |
| Reported alone   | 7 697      | 37.1  | 6 564        | 41.0  | 14 261       | 38.8  |
| Reported with  |            |       |              |       |              |       |
| Septicaemia (A40, A41)                                     | 817        | 3.9   | 614          | 3.8   | 1 431        | 3.9   |
| Diabetes mellitus (E10–E14)                                | 931        | 4.5   | 542          | 3.4   | 1 473        | 4.0   |
| Ischaemic heart diseases (I20–I25)                         | 1 736      | 8.4   | 856          | 5.4   | 2 592        | 7.1   |
| Heart failure (I50)  | 727        | 3.5   | 594          | 3.7   | 1 321        | 3.6   |
| Cerebrovascular diseases (I60–I69)                         | 776        | 3.7   | 554          | 3.5   | 1 330        | 3.6   |
| Influenza and pneumonia (J10–J18)                          | 1 954      | 9.4   | 1 092        | 6.8   | 3 046        | 8.3   |
| Chronic lower respiratory diseases (J40–J47)               | 1 414      | 6.8   | 638          | 4.0   | 2 052        | 5.6   |
| Diseases of liver (K70–K77)                                | 733        | 3.5   | 403          | 2.5   | 1 136        | 3.1   |
| Renal failure (N17–N19)                                    | 1 246      | 6.0   | 765          | 4.8   | 2 011        | 5.5   |
| Diabetes mellitus (E10–E14)                                | 1 639      | 100.0 | 1 439        | 100.0 | 3 078        | 100.0 |
| Reported alone   | 37         | 2.3   | 24           | 1.7   | 61           | 2.0   |
| Reported with  |            |       |              |       |              |       |
| Septicaemia (A40, A41)                                     | 136        | 8.3   | 143          | 9.9   | 279          | 9.1   |
| Organic, including symptomatic, mental disorders (F00–F09) | 87         | 5.3   | 99           | 6.9   | 186          | 6.0   |
| Ischaemic heart diseases (I20–I25)                         | 890        | 54.3  | 689          | 47.9  | 1 579        | 51.3  |
| Heart failure (I50)  | 265        | 16.2  | 265          | 18.4  | 530          | 17.2  |
| Cerebrovascular diseases (I60–I69)                         | 339        | 20.7  | 339          | 23.6  | 678          | 22.0  |
| Influenza and pneumonia (J10–J18)                          | 186        | 11.3  | 107          | 7.4   | 293          | 9.5   |
| Chronic lower respiratory diseases (J40–J47)               | 122        | 7.4   | 61           | 4.2   | 183          | 5.9   |
| Renal failure (N17–N19)                                    | 373        | 22.8  | 317          | 22.0  | 690          | 22.4  |
| Organic, including symptomatic, mental disorders (F00–F09) | 683        | 100.0 | 1 454        | 100.0 | 2 137        | 100.0 |
| Reported alone   | 61         | 8.9   | 223          | 15.3  | 284          | 13.3  |
| Reported with  |            |       |              |       |              |       |
| Ischaemic heart diseases (I20–I25)                         | 55         | 8.1   | 59           | 4.1   | 114          | 5.3   |
| Heart failure (I50)  | 37         | 5.4   | 93           | 6.4   | 130          | 6.1   |
| Influenza and pneumonia (J10–J18)                          | 349        | 51.1  | 637          | 43.8  | 986          | 46.1  |
| Renal failure (N17–N19)                                    | 46         | 6.7   | 84           | 5.8   | 130          | 6.1   |
| Diseases of the nervous system (G00–G99)                   | 1 894      | 100.0 | 2 310        | 100.0 | 4 204        | 100.0 |
| Reported alone   | 255        | 13.5  | 421          | 18.2  | 676          | 16.1  |
| Reported with  |            |       |              |       |              |       |
| Ischaemic heart diseases (I20–I25)                         | 182        | 9.6   | 146          | 6.3   | 328          | 7.8   |
| Heart failure (I50)  | 86         | 4.5   | 101          | 4.4   | 187          | 4.4   |
| Cerebrovascular diseases (I60–I69)                         | 177        | 9.3   | 228          | 9.9   | 405          | 9.6   |
| Influenza and pneumonia (J10–J18)                          | 645        | 34.1  | 732          | 31.7  | 1 377        | 32.8  |
| Ischaemic heart diseases (I20–I25)                         | 13 906     | 100.0 | 12 328       | 100.0 | 26 234       | 100.0 |
| Reported alone   | 2 041      | 14.7  | 1 479        | 12.0  | 3 520        | 13.4  |
| Reported with  |            |       |              |       |              |       |
| Malignant neoplasms (C00–C97)                              | 1 013      | 7.3   | 513          | 4.2   | 1 526        | 5.8   |
| Diabetes mellitus (E10–E14)                                | 1 439      | 10.3  | 1 160        | 9.4   | 2 599        | 9.9   |
| Organic, including symptomatic, mental disorders (F00–F09) | 357        | 2.6   | 711          | 5.8   | 1 068        | 4.1   |
| Diseases of the nervous system (G00–G99)                   | 673        | 4.8   | 710          | 5.8   | 1 383        | 5.3   |
| Heart failure (I50)  | 2 823      | 20.3  | 3 381        | 27.4  | 6 204        | 23.6  |
| Cerebrovascular diseases (I60–I69)                         | 1 123      | 8.1   | 1 297        | 10.5  | 2 420        | 9.2   |
| Influenza and pneumonia (J10–J18)                          | 712        | 5.1   | 718          | 5.8   | 1 430        | 5.5   |
| Chronic lower respiratory diseases (J40–J47)               | 1 602      | 11.5  | 970          | 7.9   | 2 572        | 9.8   |
| Renal failure (N17–N19)                                    | 1 398      | 10.1  | 1 158        | 9.4   | 2 556        | 9.7   |
| Heart failure (I50)  | 982        | 100.0 | 1 630        | 100.0 | 2 612        | 100.0 |
| Reported alone   | 110        | 11.2  | 226          | 13.9  | 336          | 12.9  |
| Reported with  |            |       |              |       |              |       |
| Diabetes mellitus (E10–E14)                                | 74         | 7.5   | 78           | 4.8   | 152          | 5.8   |
| Organic, including symptomatic, mental disorders (F00–F09) | 71         | 7.2   | 151          | 9.3   | 222          | 8.5   |
| Cerebrovascular diseases (I60–I69)                         | 78         | 7.9   | 133          | 8.2   | 211          | 8.1   |
| Influenza and pneumonia (J10–J18)                          | 268        | 27.3  | 487          | 29.9  | 755          | 28.9  |
| Chronic lower respiratory diseases (J40–J47)               | 144        | 14.7  | 123          | 7.5   | 267          | 10.2  |
| Renal failure (N17–N19)                                    | 229        | 23.3  | 273          | 16.7  | 502          | 19.2  |

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

| Underlying cause/associated cause and ICD code             | Males..... |       | Females..... |       | Persons..... |       |
|--|------------|-------|--------------|-------|--------------|-------|
|  | no.        | %     | no.          | %     | no.          | %     |
| Cerebrovascular diseases (I60–I69)                         | 4 852      | 100.0 | 7 294        | 100.0 | 12 146       | 100.0 |
| Reported alone   | 1 121      | 23.1  | 2 067        | 28.3  | 3 188        | 26.2  |
| Reported with  |            |       |              |       |              |       |
| Malignant neoplasms (C00–C97)                              | 282        | 5.8   | 250          | 3.4   | 532          | 4.4   |
| Diabetes mellitus (E10–E14)                                | 405        | 8.3   | 431          | 5.9   | 836          | 6.9   |
| Diseases of the nervous system (G00–G99)                   | 543        | 11.2  | 678          | 9.3   | 1 221        | 10.1  |
| Ischaemic heart diseases (I20–I25)                         | 545        | 11.2  | 697          | 9.6   | 1 242        | 10.2  |
| Heart failure (I50)  | 236        | 4.9   | 432          | 5.9   | 668          | 5.5   |
| Influenza and pneumonia (J10–J18)                          | 861        | 17.7  | 1 100        | 15.1  | 1 961        | 16.1  |
| Diseases of arteries, arterioles and capillaries (I70–I79) | 1 381      | 100.0 | 1 244        | 100.0 | 2 625        | 100.0 |
| Reported alone   | 220        | 15.9  | 185          | 14.9  | 405          | 15.4  |
| Reported with  |            |       |              |       |              |       |
| Septicaemia (A40, A41)                                     | 128        | 9.3   | 110          | 8.8   | 238          | 9.1   |
| Hypertensive diseases (I10–I15)                            | 116        | 8.4   | 96           | 7.7   | 212          | 8.1   |
| Ischaemic heart diseases (I20–I25)                         | 271        | 19.6  | 194          | 15.6  | 465          | 17.7  |
| Heart failure (I50)  | 143        | 10.4  | 205          | 16.5  | 348          | 13.3  |
| Cerebrovascular diseases (I60–I69)                         | 128        | 9.3   | 99           | 8.0   | 227          | 8.6   |
| Influenza and pneumonia (J10–J18)                          | 76         | 5.5   | 106          | 8.5   | 182          | 6.9   |
| Renal failure (N17–N19)                                    | 210        | 15.2  | 153          | 12.3  | 363          | 13.8  |
| Influenza and pneumonia (J10–J18)                          | 1 184      | 100.0 | 1 518        | 100.0 | 2 702        | 100.0 |
| Reported alone   | 365        | 30.8  | 580          | 38.2  | 945          | 35.0  |
| Reported with  |            |       |              |       |              |       |
| Septicaemia (A40, A41)                                     | 163        | 13.8  | 151          | 9.9   | 314          | 11.6  |
| Diabetes mellitus (E10–E14)                                | 74         | 6.3   | 77           | 5.1   | 151          | 5.6   |
| Ischaemic heart diseases (I20–I25)                         | 190        | 16.0  | 173          | 11.4  | 363          | 13.4  |
| Heart failure (I50)  | 72         | 6.1   | 79           | 5.2   | 151          | 5.6   |
| Renal failure (N17–N19)                                    | 124        | 10.5  | 116          | 7.6   | 240          | 8.9   |
| Chronic lower respiratory diseases (J40–J47)               | 3 419      | 100.0 | 2 497        | 100.0 | 5 916        | 100.0 |
| Reported alone   | 255        | 7.5   | 215          | 8.6   | 470          | 7.9   |
| Reported with  |            |       |              |       |              |       |
| Malignant neoplasms (C00–C97)                              | 272        | 8.0   | 126          | 5.0   | 398          | 6.7   |
| Diabetes mellitus (E10–E14)                                | 192        | 5.6   | 131          | 5.2   | 323          | 5.5   |
| Ischaemic heart diseases (I20–I25)                         | 613        | 17.9  | 397          | 15.9  | 1 010        | 17.1  |
| Heart failure (I50)  | 611        | 17.9  | 461          | 18.5  | 1 072        | 18.1  |
| Cerebrovascular diseases (I60–I69)                         | 179        | 5.2   | 109          | 4.4   | 288          | 4.9   |
| Influenza and pneumonia (J10–J18)                          | 1 150      | 33.6  | 708          | 28.4  | 1 858        | 31.4  |
| Renal failure (N17–N19)                                    | 260        | 7.6   | 151          | 6.0   | 411          | 6.9   |
| Renal failure (N17–N19)                                    | 813        | 100.0 | 891          | 100.0 | 1 704        | 100.0 |
| Reported alone   | 58         | 7.1   | 83           | 9.3   | 141          | 8.3   |
| Reported with  |            |       |              |       |              |       |
| Septicaemia (A40, A41)                                     | 105        | 12.9  | 96           | 10.8  | 201          | 11.8  |
| Diabetes mellitus (E10–E14)                                | 68         | 8.4   | 66           | 7.4   | 134          | 7.9   |
| Ischaemic heart diseases (I20–I25)                         | 237        | 29.2  | 215          | 24.1  | 452          | 26.5  |
| Heart failure (I50)  | 230        | 28.3  | 264          | 29.6  | 494          | 29.0  |
| Cerebrovascular diseases (I60–I69)                         | 59         | 7.3   | 79           | 8.9   | 138          | 8.1   |
| Influenza and pneumonia (J10–J18)                          | 114        | 14.0  | 98           | 11.0  | 212          | 12.4  |



## 2.5 CAUSES OF DEATH, Associated cause and underlying cause

| Multiple cause/underlying cause and ICD code               | Males..... |       | Females..... |       | Persons..... |       |
|--|------------|-------|--------------|-------|--------------|-------|
|  | no.        | %     | no.          | %     | no.          | %     |
| Septicaemia (A40–A41)                                      | 3 543      | 100.0 | 3 523        | 100.0 | 7 066        | 100.0 |
| Reported as underlying cause                               | 442        | 12.5  | 531          | 15.1  | 973          | 13.8  |
| Reported in association with an underlying cause of        |            |       |              |       |              |       |
| Malignant neoplasms (C00–C97)                              | 817        | 23.1  | 614          | 17.4  | 1 431        | 20.3  |
| Diabetes mellitus (E10–E14)                                | 136        | 3.8   | 143          | 4.1   | 279          | 3.9   |
| Ischaemic heart diseases (I20–I25)                         | 188        | 5.3   | 174          | 4.9   | 362          | 5.1   |
| Cerebrovascular diseases (I60–I69)                         | 124        | 3.5   | 120          | 3.4   | 244          | 3.5   |
| Influenza and pneumonia (J10–J18)                          | 163        | 4.6   | 151          | 4.3   | 314          | 4.4   |
| Malignant neoplasms (C00–C97)                              | 23 541     | 100.0 | 17 728       | 100.0 | 41 269       | 100.0 |
| Reported as underlying cause                               | 20 753     | 88.2  | 15 997       | 90.2  | 36 750       | 89.0  |
| Reported in association with an underlying cause of        |            |       |              |       |              |       |
| Ischaemic heart diseases (I20–I25)                         | 1 013      | 4.3   | 513          | 2.9   | 1 526        | 3.7   |
| Cerebrovascular diseases (I60–I69)                         | 282        | 1.2   | 250          | 1.4   | 532          | 1.3   |
| Diabetes mellitus (E10–E14)                                | 5 612      | 100.0 | 4 713        | 100.0 | 10 325       | 100.0 |
| Reported as underlying cause                               | 1 639      | 29.2  | 1 439        | 30.5  | 3 078        | 29.8  |
| Reported in association with an underlying cause of        |            |       |              |       |              |       |
| Malignant neoplasms (C00–C97)                              | 931        | 16.6  | 542          | 11.5  | 1 473        | 14.3  |
| Ischaemic heart diseases (I20–I25)                         | 1 439      | 25.6  | 1 160        | 24.6  | 2 599        | 25.2  |
| Cerebrovascular diseases (I60–I69)                         | 405        | 7.2   | 431          | 9.1   | 836          | 8.1   |
| Organic, including symptomatic, mental disorders (F00–F09) | 2 278      | 100.0 | 4 082        | 100.0 | 6 360        | 100.0 |
| Reported as underlying cause                               | 683        | 30.0  | 1 454        | 35.6  | 2 137        | 33.6  |
| Reported in association with an underlying cause of        |            |       |              |       |              |       |
| Malignant neoplasms (C00–C97)                              | 280        | 12.3  | 315          | 7.7   | 595          | 9.4   |
| Ischaemic heart diseases (I20–I25)                         | 357        | 15.7  | 711          | 17.4  | 1 068        | 16.8  |
| Heart failure (I50)  | 71         | 3.1   | 151          | 3.7   | 222          | 3.5   |
| Chronic lower respiratory diseases (J40–J47)               | 128        | 5.6   | 114          | 2.8   | 242          | 3.8   |
| Diseases of the nervous system (G00–G99)                   | 5 002      | 100.0 | 5 237        | 100.0 | 10 239       | 100.0 |
| Reported as underlying cause                               | 1 894      | 37.9  | 2 310        | 44.1  | 4 204        | 41.1  |
| Reported in association with an underlying cause of        |            |       |              |       |              |       |
| Malignant neoplasms (C00–C97)                              | 567        | 11.3  | 413          | 7.9   | 980          | 9.6   |
| Ischaemic heart diseases (I20–I25)                         | 673        | 13.5  | 710          | 13.6  | 1 383        | 13.5  |
| Cerebrovascular diseases (I60–I69)                         | 543        | 10.9  | 678          | 12.9  | 1 221        | 11.9  |
| Hypertensive diseases (I10–I15)                            | 1 786      | 100.0 | 2 523        | 100.0 | 4 309        | 100.0 |
| Reported as underlying cause                               | 443        | 24.8  | 780          | 30.9  | 1 223        | 28.4  |
| Reported in association with an underlying cause of        |            |       |              |       |              |       |
| Malignant neoplasms (C00–C97)                              | 509        | 28.5  | 538          | 21.3  | 1 047        | 24.3  |
| Ischaemic heart diseases (I20–I25)                         | 119        | 6.7   | 119          | 4.7   | 238          | 5.5   |
| Diseases of arteries, arterioles and capillaries (I70–I79) | 116        | 6.5   | 96           | 3.8   | 212          | 4.9   |
| Chronic lower respiratory diseases (J40–J47)               | 122        | 6.8   | 116          | 4.6   | 238          | 5.5   |
| Ischaemic heart diseases (I20–I25)                         | 20 439     | 100.0 | 17 322       | 100.0 | 37 761       | 100.0 |
| Reported as underlying cause                               | 13 906     | 68.0  | 12 328       | 71.2  | 26 234       | 69.5  |
| Reported in association with an underlying cause of        |            |       |              |       |              |       |
| Malignant neoplasms (C00–C97)                              | 1 736      | 8.5   | 856          | 4.9   | 2 592        | 6.9   |
| Diabetes mellitus (E10–E14)                                | 890        | 4.4   | 689          | 4.0   | 1 579        | 4.2   |
| Cerebrovascular diseases (I60–I69)                         | 545        | 2.7   | 697          | 4.0   | 1 242        | 3.3   |
| Chronic lower respiratory diseases (J40–J47)               | 613        | 3.0   | 397          | 2.3   | 1 010        | 2.7   |
| Heart failure (I50)  | 7 562      | 100.0 | 9 461        | 100.0 | 17 023       | 100.0 |
| Reported as underlying cause                               | 982        | 13.0  | 1 630        | 17.2  | 2 612        | 15.3  |
| Reported in association with an underlying cause of        |            |       |              |       |              |       |
| Malignant neoplasms (C00–C97)                              | 727        | 9.6   | 594          | 6.3   | 1 321        | 7.8   |
| Diabetes mellitus (E10–E14)                                | 265        | 3.5   | 265          | 2.8   | 530          | 3.1   |
| Ischaemic heart diseases (I20–I25)                         | 2 823      | 37.3  | 3 381        | 35.7  | 6 204        | 36.4  |
| Cerebrovascular diseases (I60–I69)                         | 236        | 3.1   | 432          | 4.6   | 668          | 3.9   |
| Chronic lower respiratory diseases (J40–J47)               | 611        | 8.1   | 461          | 4.9   | 1 072        | 6.3   |
| Renal failure (N17–N19)                                    | 230        | 3.0   | 264          | 2.8   | 494          | 2.9   |



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

| Multiple cause/underlying cause and ICD code               | Males..... |       | Females..... |       | Persons..... |       |
|--|------------|-------|--------------|-------|--------------|-------|
|  | no.        | %     | no.          | %     | no.          | %     |
| Cerebrovascular diseases (I60–I69)                         | 8 743      | 100.0 | 11 459       | 100.0 | 20 202       | 100.0 |
| Reported as underlying cause                               | 4 852      | 55.5  | 7 294        | 63.7  | 12 146       | 60.1  |
| Reported in association with an underlying cause of        |            |       |              |       |              |       |
| Malignant neoplasms (C00–C97)                              | 776        | 8.9   | 554          | 4.8   | 1 330        | 6.6   |
| Diabetes mellitus (E10–E14)                                | 339        | 3.9   | 339          | 3.0   | 678          | 3.4   |
| Ischaemic heart diseases (I20–I25)                         | 1 123      | 12.8  | 1 297        | 11.3  | 2 420        | 12.0  |
| Diseases of arteries, arterioles and capillaries (I70–I79) | 2 986      | 100.0 | 2 401        | 100.0 | 5 387        | 100.0 |
| Reported as underlying cause                               | 1 381      | 46.2  | 1 244        | 51.8  | 2 625        | 48.7  |
| Reported in association with an underlying cause of        |            |       |              |       |              |       |
| Malignant neoplasms (C00–C97)                              | 281        | 9.4   | 121          | 5.0   | 402          | 7.5   |
| Ischaemic heart diseases (I20–I25)                         | 567        | 19.0  | 366          | 15.2  | 933          | 17.3  |
| Cerebrovascular diseases (I60–I69)                         | 113        | 3.8   | 112          | 4.7   | 225          | 4.2   |
| Influenza and pneumonia (J10–J18)                          | 8 791      | 100.0 | 8 591        | 100.0 | 17 382       | 100.0 |
| Reported as underlying cause                               | 1 184      | 13.5  | 1 518        | 17.7  | 2 702        | 15.5  |
| Reported in association with an underlying cause of        |            |       |              |       |              |       |
| Malignant neoplasms (C00–C97)                              | 1 954      | 22.2  | 1 092        | 12.7  | 3 046        | 17.5  |
| Organic, including symptomatic, mental disorders (F00–F09) | 349        | 4.0   | 637          | 7.4   | 986          | 5.7   |
| Diseases of the nervous system (G00–G99)                   | 645        | 7.3   | 732          | 8.5   | 1 377        | 7.9   |
| Ischaemic heart diseases (I20–I25)                         | 712        | 8.1   | 718          | 8.4   | 1 430        | 8.2   |
| Heart failure (I50)  | 268        | 3.0   | 487          | 5.7   | 755          | 4.3   |
| Cerebrovascular diseases (I60–I69)                         | 861        | 9.8   | 1 100        | 12.8  | 1 961        | 11.3  |
| Chronic lower respiratory diseases (J40–J47)               | 1 150      | 13.1  | 708          | 8.2   | 1 858        | 10.7  |
| Chronic lower respiratory diseases (J40–J47)               | 8 218      | 100.0 | 5 290        | 100.0 | 13 508       | 100.0 |
| Reported as underlying cause                               | 3 419      | 41.6  | 2 497        | 47.2  | 5 916        | 43.8  |
| Reported in association with an underlying cause of        |            |       |              |       |              |       |
| Malignant neoplasms (C00–C97)                              | 1 414      | 17.2  | 638          | 12.1  | 2 052        | 15.2  |
| Ischaemic heart diseases (I20–I25)                         | 1 602      | 19.5  | 970          | 18.3  | 2 572        | 19.0  |
| Cerebrovascular diseases (I60–I69)                         | 247        | 3.0   | 183          | 3.5   | 430          | 3.2   |
| Diseases of liver (K70–K77)                                | 2 363      | 100.0 | 1 176        | 100.0 | 3 539        | 100.0 |
| Reported as underlying cause                               | 822        | 34.8  | 374          | 31.8  | 1 196        | 33.8  |
| Reported in association with an underlying cause of        |            |       |              |       |              |       |
| Malignant neoplasms (C00–C97)                              | 733        | 31.0  | 403          | 34.3  | 1 136        | 32.1  |
| Ischaemic heart diseases (I20–I25)                         | 161        | 6.8   | 47           | 4.0   | 208          | 5.9   |
| Renal failure (N17–N19)                                    | 6 546      | 100.0 | 5 838        | 100.0 | 12 384       | 100.0 |
| Reported as underlying cause                               | 813        | 12.4  | 891          | 15.3  | 1 704        | 13.8  |
| Reported in association with an underlying cause of        |            |       |              |       |              |       |
| Malignant neoplasms (C00–C97)                              | 1 246      | 19.0  | 765          | 13.1  | 2 011        | 16.2  |
| Diabetes mellitus (E10–E14)                                | 373        | 5.7   | 317          | 5.4   | 690          | 5.6   |
| Ischaemic heart diseases (I20–I25)                         | 1 398      | 21.4  | 1 158        | 19.8  | 2 556        | 20.6  |
| Heart failure (I50)  | 229        | 3.5   | 273          | 4.7   | 502          | 4.1   |
| Cerebrovascular diseases (I60–I69)                         | 228        | 3.5   | 234          | 4.0   | 462          | 3.7   |
| Chronic lower respiratory diseases (J40–J47)               | 260        | 4.0   | 151          | 2.6   | 411          | 3.3   |

## 2.6 NATURE OF INJURY, By external cause

## ACCIDENTS.....

| <i>Nature of injury or poisoning and ICD code</i>                       | <i>Transport accidents<br/>(V01–V99)</i> | <i>Accidental falls<br/>(W00–W19)</i> | <i>Accidental drowning and submersion<br/>(W65–W74)</i> | <i>Exposure to smoke, fire and flames<br/>(X00–X09)</i> | <i>Accidental poisonings<br/>(X40–X49)</i> | <i>Other</i> | <i>Total</i> |
|---|--|---------------------------------------|---|---|--|--------------|--------------|
| <b>MALES</b>  |  |                                       |   |   |  |              |              |
|   | %  | %                                     | %   | %   | %  | %            | %            |
| <b>Total injuries (S00–T98)</b>   | <b>100.0</b>                             | <b>100.0</b>                          | <b>100.0</b>  | <b>100.0</b>  | <b>100.0</b>                               | <b>100.0</b> | <b>100.0</b> |
| Injuries to the head (S00–S09)  | 29.4                                     | 52.8                                  | 3.3   | —   | —  | 11.1         | 23.3         |
| Fracture of skull and facial bones (S02)                                | 6.6                                      | 6.5                                   | 0.4   | —   | —  | 1.3          | 4.5          |
| Injuries to the thorax (S20–S29)  | 19.2                                     | 7.7                                   | 0.4   | —   | 0.1  | 9.7          | 12.6         |
| Injuries to the abdomen, lower back, lumbar spine and pelvis (S30–S39)  | 8.8                                      | 4.0                                   | 0.4   | 0.0   | 0.0  | 6.1          | 6.1          |
| Injuries to the hip and thigh (S70–S79)                                 | 1.4                                      | 8.8                                   | —   | —   | —  | 24.3         | 5.7          |
| Fracture of femur (S72)   | 1.3                                      | 8.3                                   | —   | —   | —  | 23.8         | 5.4          |
| Unspecified multiple injuries (T07)                                     | 19.7                                     | 4.5                                   | 0.4   | —   | —  | 2.1          | 11.3         |
| Burns and corrosions (T20–T32)  | 0.8                                      | 0.2                                   | —   | 32.1  | —  | 1.1          | 0.9          |
| Poisoning by drugs, medicaments and biological substances (T36–T50)     | 0.4                                      | 0.9                                   | 0.8   | 3.6   | 78.9                                       | 0.1          | 11.5         |
| Poisoning by narcotics and psychodysleptics (hallucinogens) (T40)       | 0.2                                      | 0.4                                   | 0.8   | 3.6   | 39.7                                       | 0.1          | 5.8          |
| Toxic effects of substances chiefly nonmedicinal as to source (T51–T65) | 0.6                                      | 0.9                                   | 1.7   | 62.5  | 16.4                                       | 0.9          | 3.6          |
| Toxic effect of carbon monoxide (T58)                                   | —  | —                                     | 0.4   | 8.9   | 1.9  | —            | 0.4          |
| Other and unspecified effects of external causes (T66–T78)              | 2.5                                      | 2.0                                   | 89.5  | —   | 0.7  | 15.9         | 8.4          |
| Asphyxiation (T71)  | 1.0                                      | 0.2                                   | 0.8   | —   | 0.5  | 9.8          | 2.3          |
| Certain early complications of trauma (T79)                             | 1.7                                      | 3.1                                   | —   | 1.8   | 0.8  | 6.4          | 2.4          |
|   | no.                                      | no.                                   | no.   | no.   | no.  | no.          | no.          |
| Total injuries  | 2 767                                    | 555                                   | 239   | 56  | 730  | 848          | 5 195        |
| <b>FEMALES</b>  |  |                                       |   |   |  |              |              |
|   | %  | %                                     | %   | %   | %  | %            | %            |
| <b>Total injuries (S00–T98)</b>   | <b>100.0</b>                             | <b>100.0</b>                          | <b>100.0</b>  | <b>100.0</b>  | <b>100.0</b>                               | <b>100.0</b> | <b>100.0</b> |
| Injuries to the head (S00–S09)  | 25.3                                     | 52.0                                  | 1.8   | 4.0   | 0.7  | 3.8          | 18.2         |
| Fracture of skull and facial bones (S02)                                | 5.6                                      | 3.6                                   | —   | —   | —  | 0.2          | 2.6          |
| Injuries to the thorax (S20–S29)  | 17.0                                     | 8.0                                   | —   | —   | —  | 3.7          | 8.3          |
| Injuries to the abdomen, lower back, lumbar spine and pelvis (S30–S39)  | 8.3                                      | 5.8                                   | —   | —   | —  | 8.0          | 6.2          |
| Injuries to the hip and thigh (S70–S79)                                 | 0.8                                      | 13.3                                  | —   | —   | —  | 43.6         | 15.7         |
| Fracture of femur (S72)   | 0.7                                      | 12.5                                  | —   | —   | —  | 43.1         | 15.4         |
| Unspecified multiple injuries (T07)                                     | 23.1                                     | 1.4                                   | —   | —   | —  | 0.6          | 8.4          |
| Burns and corrosions (T20–T32)  | 1.0                                      | —                                     | —   | 52.0  | 0.2  | 0.4          | 1.0          |
| Poisoning by drugs, medicaments and biological substances (T36–T50)     | 0.5                                      | 0.2                                   | 5.3   | —   | 81.9                                       | —            | 13.5         |
| Poisoning by narcotics and psychodysleptics (hallucinogens) (T40)       | 0.1                                      | —                                     | 1.8   | —   | 26.5                                       | —            | 4.3          |
| Toxic effects of substances chiefly nonmedicinal as to source (T51–T65) | 0.4                                      | —                                     | —   | 44.0  | 13.4                                       | 0.5          | 2.9          |
| Toxic effect of carbon monoxide (T58)                                   | 0.1                                      | —                                     | —   | 4.0   | 1.4  | —            | 0.3          |
| Other and unspecified effects of external causes (T66–T78)              | 1.8                                      | 1.4                                   | 93.0  | —   | 0.2  | 3.6          | 4.0          |
| Asphyxiation (T71)  | 0.9                                      | 0.2                                   | 1.8   | —   | —  | 2.3          | 1.1          |
| Certain early complications of trauma (T79)                             | 2.3                                      | 5.5                                   | —   | —   | 0.2  | 10.1         | 4.8          |
|   | no.                                      | no.                                   | no.   | no.   | no.  | no.          | no.          |
| Total injuries  | 921                                      | 415                                   | 57  | 25  | 426  | 815          | 2 659        |

## 2.6 NATURE OF INJURY, By external cause *continued*

### INTENTIONAL INJURY AND OTHER.....

| <i>Nature of injury or poisoning and ICD code</i>                       | <i>Intentional<br/>self-harm<br/>(X60–X84)</i> | <i>Assault<br/>(X85–Y09)</i> | <i>Other</i> | <i>Total</i> | <i>External<br/>causes</i> |
|---|--|------------------------------|--------------|--------------|----------------------------|
| <b>MALES</b>  |  |                              |              |              |                            |
|   | %  | %                            | %            | %            | %                          |
| <b>Total injuries (S00–T98)</b>   | <b>100.0</b>                                   | <b>100.0</b>                 | <b>100.0</b> | <b>100.0</b> | <b>100.0</b>               |
| Injuries to the head (S00–S09)  | 13.7   | 32.9                         | 1.1          | 15.0         | 20.3                       |
| Fracture of skull and facial bones (S02)                                | 1.2  | 3.5                          | —            | 1.4          | 3.3                        |
| Injuries to the thorax (S20–S29)  | 3.6  | 30.4                         | 3.4          | 6.5          | 10.4                       |
| Injuries to the abdomen, lower back, lumbar spine and pelvis (S30–S39)  | 1.9  | 5.4                          | —            | 2.2          | 4.7                        |
| Injuries to the hip and thigh (S70–S79)                                 | 0.2  | 0.6                          | —            | 0.2          | 3.7                        |
| Fracture of femur (S72)   | 0.2  | —                            | —            | 0.2          | 3.5                        |
| Unspecified multiple injuries (T07)                                     | 3.6  | 1.9                          | 1.1          | 3.2          | 8.4                        |
| Burns and corrosions (T20–T32)  | 0.7  | 0.6                          | 0.6          | 0.7          | 0.9                        |
| Poisoning by drugs, medicaments and biological substances (T36–T50)     | 11.9   | 1.9                          | 16.4         | 11.1         | 11.3                       |
| Poisoning by narcotics and psychodysleptics (hallucinogens) (T40)       | 3.0  | 0.9                          | 6.2          | 3.0          | 4.8                        |
| Toxic effects of substances chiefly nonmedicinal as to source (T51–T65) | 19.9   | 1.9                          | 2.8          | 16.9         | 8.4                        |
| Toxic effect of carbon monoxide (T58)                                   | 16.6   | —                            | 0.6          | 13.8         | 5.2                        |
| Other and unspecified effects of external causes (T66–T78)              | 36.4   | 3.5                          | 9.0          | 31.2         | 16.6                       |
| Asphyxiation (T71)  | 34.8   | 1.6                          | 4.5          | 29.4         | 12.0                       |
| Certain early complications of trauma (T79)                             | 0.4  | 1.6                          | —            | 0.5          | 1.7                        |
|   | no.  | no.                          | no.          | no.          | no.                        |
| Total injuries  | 2 432  | 316                          | 177          | 2 925        | 8 120                      |
| <b>FEMALES</b>  |  |                              |              |              |                            |
|   | %  | %                            | %            | %            | %                          |
| <b>Total injuries (S00–T98)</b>   | <b>100.0</b>                                   | <b>100.0</b>                 | <b>100.0</b> | <b>100.0</b> | <b>100.0</b>               |
| Injuries to the head (S00–S09)  | 4.8  | 29.6                         | 5.3          | 9.4          | 15.8                       |
| Fracture of skull and facial bones (S02)                                | 0.4  | 2.7                          | —            | 0.8          | 2.1                        |
| Injuries to the thorax (S20–S29)  | 1.7  | 16.1                         | —            | 4.1          | 7.1                        |
| Injuries to the abdomen, lower back, lumbar spine and pelvis (S30–S39)  | 1.7  | 8.6                          | —            | 2.7          | 5.2                        |
| Injuries to the hip and thigh (S70–S79)                                 | —  | —                            | —            | —            | 11.3                       |
| Fracture of femur (S72)   | —  | —                            | —            | —            | 11.1                       |
| Unspecified multiple injuries (T07)                                     | 3.3  | 2.2                          | —            | 2.7          | 6.8                        |
| Burns and corrosions (T20–T32)  | 1.9  | 1.1                          | —            | 1.6          | 1.1                        |
| Poisoning by drugs, medicaments and biological substances (T36–T50)     | 35.4   | 1.6                          | 23.9         | 28.0         | 17.5                       |
| Poisoning by narcotics and psychodysleptics (hallucinogens) (T40)       | 5.1  | 1.1                          | 6.2          | 4.5          | 4.4                        |
| Toxic effects of substances chiefly nonmedicinal as to source (T51–T65) | 15.2   | 2.2                          | 0.9          | 11.2         | 5.2                        |
| Toxic effect of carbon monoxide (T58)                                   | 11.2   | 0.5                          | 0.9          | 8.1          | 2.5                        |
| Other and unspecified effects of external causes (T66–T78)              | 30.3   | 11.8                         | 6.2          | 24.3         | 9.6                        |
| Asphyxiation (T71)  | 26.6   | 10.8                         | 2.7          | 21.1         | 6.7                        |
| Certain early complications of trauma (T79)                             | 0.6  | 0.5                          | —            | 0.5          | 3.6                        |
|   | no.  | no.                          | no.          | no.          | no.                        |
| Total injuries  | 725  | 186                          | 113          | 1 024        | 3 683                      |

2.6 NATURE OF INJURY, By external cause *continued*

## ACCIDENTS.....

| <i>Nature of injury or poisoning and ICD code</i>                       | <i>Transport accidents (V01–V99)</i> | <i>Accidental falls (W00–W19)</i> | <i>Accidental drowning and submersion (W65–W74)</i> | <i>Exposure to smoke, fire and flames (X00–X09)</i> | <i>Accidental poisonings (X40–X49)</i> | <i>Other</i> | <i>Total</i> |
|---|--------------------------------------|-----------------------------------|---|---|--|--------------|--------------|
| PERSONS   |                                      |                                   |   |   |  |              |              |
|   | %                                    | %                                 | %   | %   | %                                      | %            | %            |
| <b>Total injuries (S00–T98)</b>   | <b>100.0</b>                         | <b>100.0</b>                      | <b>100.0</b>  | <b>100.0</b>  | <b>100.0</b>                           | <b>100.0</b> | <b>100.0</b> |
| Injuries to the head (S00–S09)  | 28.4                                 | 52.5                              | 3.0   | 1.2   | 0.3                                    | 7.5          | 21.6         |
| Fracture of skull and facial bones (S02)                                | 6.4                                  | 5.3                               | 0.3   | —   | —                                      | 0.8          | 3.8          |
| Injuries to the thorax (S20–S29)  | 18.6                                 | 7.8                               | 0.3   | —   | 0.1                                    | 6.7          | 11.2         |
| Injuries to the abdomen, lower back, lumbar spine and pelvis (S30–S39)  | 8.6                                  | 4.7                               | 0.3   | —   | —                                      | 7.0          | 6.1          |
| Injuries to the hip and thigh (S70–S79)                                 | 1.3                                  | 10.7                              | —   | —   | —                                      | 33.7         | 9.1          |
| Fracture of femur (S72)   | 1.1                                  | 10.1                              | —   | —   | —                                      | 33.3         | 8.8          |
| Unspecified multiple injuries (T07)                                     | 20.5                                 | 3.2                               | 0.3   | —   | —                                      | 1.4          | 10.3         |
| Burns and corrosions (T20–T32)  | 0.8                                  | 0.1                               | —   | 38.3  | 0.1                                    | 0.7          | 1.0          |
| Poisoning by drugs, medicaments and biological substances (T36–T50)     | 0.4                                  | 0.6                               | 1.7   | 2.5   | 80.0                                   | 0.1          | 12.1         |
| Poisoning by narcotics and psychodysleptics (hallucinogens) (T40)       | 0.2                                  | 0.2                               | 1.0   | 2.5   | 34.9                                   | 0.1          | 5.3          |
| Toxic effects of substances chiefly nonmedicinal as to source (T51–T65) | 0.5                                  | 0.5                               | 1.4   | 56.8  | 15.3                                   | 0.7          | 3.4          |
| Toxic effect of carbon monoxide (T58)                                   | —                                    | —                                 | 0.3   | 7.4   | 1.7                                    | —            | 0.4          |
| Other and unspecified effects of external causes (T66–T78)              | 2.4                                  | 1.8                               | 90.2  | —   | 0.5                                    | 9.9          | 6.9          |
| Asphyxiation (T71)  | 0.9                                  | 0.2                               | 1.0   | —   | 0.3                                    | 6.1          | 1.9          |
| Certain early complications of trauma (T79)                             | 1.8                                  | 4.1                               | —   | 1.2   | 0.6                                    | 8.2          | 3.2          |
|   | no.                                  | no.                               | no.   | no.   | no.                                    | no.          | no.          |
| Total injuries  | 3 688                                | 970                               | 296   | 81  | 1 156                                  | 1 663        | 7 854        |

## 2.6 NATURE OF INJURY, By external cause *continued*

### INTENTIONAL INJURY AND OTHER.....

| <i>Nature of injury or poisoning and ICD code</i>                       | <i>Intentional<br/>self-harm<br/>(X60–X84)</i> | <i>Assault<br/>(X85–Y09)</i> | <i>Other</i> | <i>Total</i> | <i>External<br/>causes</i> |
|---|--|------------------------------|--------------|--------------|----------------------------|
| PERSONS   |  |                              |              |              |                            |
|   | %  | %                            | %            | %            | %                          |
| <b>Total injuries (S00–T98)</b>   | <b>100.0</b>                                   | <b>100.0</b>                 | <b>100.0</b> | <b>100.0</b> | <b>100.0</b>               |
| Injuries to the head (S00–S09)  | 11.7   | 31.7                         | 2.8          | 13.5         | 18.9                       |
| Fracture of skull and facial bones (S02)                                | 1.0  | 3.2                          | —            | 1.2          | 3.0                        |
| Injuries to the thorax (S20–S29)  | 3.2  | 25.1                         | 2.1          | 5.9          | 9.4                        |
| Injuries to the abdomen, lower back, lumbar spine and pelvis (S30–S39)  | 1.9  | 6.6                          | —            | 2.3          | 4.9                        |
| Injuries to the hip and thigh (S70–S79)                                 | 0.2  | 0.4                          | —            | 0.2          | 6.1                        |
| Fracture of femur (S72)   | 0.2  | —                            | —            | 0.1          | 5.9                        |
| Unspecified multiple injuries (T07)                                     | 3.5  | 2.0                          | 0.7          | 3.1          | 7.9                        |
| Burns and corrosions (T20–T32)  | 1.0  | 0.8                          | 0.3          | 0.9          | 0.9                        |
| Poisoning by drugs, medicaments and biological substances (T36–T50)     | 17.3   | 1.8                          | 19.3         | 15.5         | 13.3                       |
| Poisoning by narcotics and psychodysleptics (hallucinogens) (T40)       | 3.5  | 1.0                          | 6.2          | 3.4          | 4.7                        |
| Toxic effects of substances chiefly nonmedicinal as to source (T51–T65) | 18.8   | 2.0                          | 2.1          | 15.4         | 7.4                        |
| Toxic effect of carbon monoxide (T58)                                   | 15.4   | 0.2                          | 0.7          | 12.4         | 4.4                        |
| Other and unspecified effects of external causes (T66–T78)              | 35.0   | 6.6                          | 7.9          | 29.4         | 14.4                       |
| Asphyxiation (T71)  | 32.9   | 5.0                          | 3.8          | 27.2         | 10.3                       |
| Certain early complications of trauma (T79)                             | 0.4  | 1.2                          | —            | 0.5          | 2.3                        |
| .....   |  |                              |              |              |                            |
|   | no.  | no.                          | no.          | no.          | no.                        |
| Total injuries  | 3 157  | 502                          | 290          | 3 949        | 11 803                     |

## SECTION 3 PERINATAL DEATHS .....

### INTRODUCTION

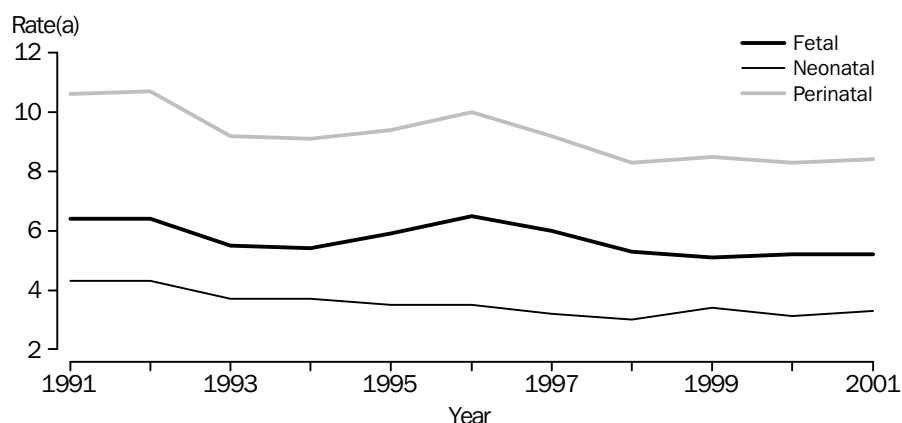
Perinatal deaths comprise stillbirths (fetal deaths) and deaths of infants within the first 28 days of life (neonatal deaths). In *Causes of Death* publications from 1997, these deaths have included infants and fetuses weighing at least 400 grams or having a gestational age of 20 weeks. To assist the reader and enable comparisons, table 3.1 is based on the World Health Organisation recommended definition which includes infants and fetuses weighing at least 500 grams or having a gestational age of 22 weeks (refer to Explanatory Notes, paragraphs 4–8 for further information on perinatal death statistics). Further tables based on this definition are available from the ABS. All other tables and this summary are based on the 400 g/20 weeks definition.

### TRENDS IN PERINATAL DEATHS

In 2001, there were 2,092 perinatal deaths registered in Australia, which represented a marginal increase over the 2,076 deaths registered in 2000. The perinatal death rate also slightly increased from 8.3 to 8.4 deaths per 1,000 total relevant births (see Glossary, death rates for further information). In 2001, there were 1,290 fetal deaths and 802 neonatal deaths. Fetal deaths decreased by 1% on the number registered in 2000 while neonatal deaths increased by 4%.

Between 1991 and 2001 the perinatal death rate declined from 10.6 to 8.4 deaths per 1,000 births. During this period the fetal rate declined by 19% (6.4 to 5.2 per 1,000 births) whilst the neonatal rate fell by 23% (4.3 to 3.3 per 1,000 births).

#### TRENDS IN PERINATAL DEATHS

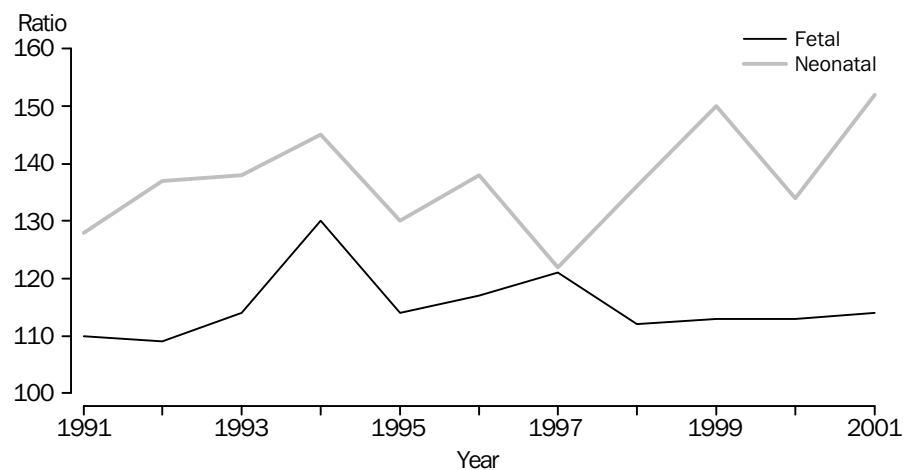


(a) Per 1,000 relevant births.

## SEX RATIO

In 2001, the sex ratio of male fetal deaths for every 100 female fetal deaths was 114, while the sex ratio in neonatal deaths was 152 which is the highest reported in the time period 1991–2001.

## TRENDS IN SEX RATIOS

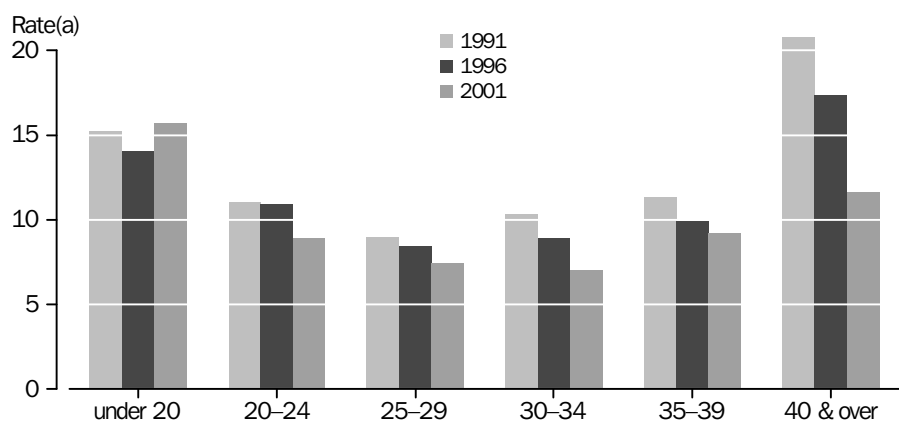


## AGE OF MOTHER

In 2001, 53% of total perinatal deaths were to mothers aged 25–29 and 30–34 years. While these age groups recorded the highest numbers of perinatal deaths, the death rates of 7.4 and 7.0 per 1,000 births respectively, were the lowest of all age groups. The highest rate is in mothers under 20 years (15.7), while for mothers aged 40 and over, the rate is 11.6.

In the last ten years, the overall perinatal death rate has decreased by 21%. The extent of this decrease, however, has not been uniform across all age groups. In particular, the perinatal death rate of 11.6 per 1,000 births for the 40 years and over age group is 44% lower than the 1991 rate of 20.8 per 1,000 births.

## PERINATAL DEATH, RATES, AGE OF MOTHER



(a) Per 1,000 relevant births.

## CONDITION IN FETUS/INFANT

In 2001, 43% of fetal deaths were not allocated to 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 specified conditions reported in fetal deaths registered in 2001 were intrauterine hypoxia (19% of total), congenital malformations, deformations and chromosomal abnormalities (13%) and disorders related to length of gestation and fetal growth (10%). Congenital malformations, deformations and chromosomal abnormalities accounted for 26% of total neonatal deaths registered in 2001, while respiratory and cardiovascular disorders, specific to the perinatal period (21%) and disorders related to length of gestation and fetal growth (20%) were the other major contributors.

## CONDITION IN MOTHER

The underlying cause for perinatal deaths can be attributed to a condition relating to the fetus/infant, the mother or both. A maternal condition was reported in 1,431 (68%) of the 2,092 perinatal deaths recorded in 2001. Complications of placenta, cord and membranes was the most frequently reported maternal cause, accounting for 647 deaths or 31% of all perinatal deaths.

In 2001, maternal complications of pregnancy occurred in 452 perinatal deaths, an increase of 9.4% on last year. Multiple pregnancy is the most common maternal complication of pregnancy and was reported in 153 perinatal deaths which represents an increase of 28% on the number recorded in 2000, but is 21% lower than the peak that occurred in 1995.



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

| Year    | FETAL DEATHS..... |         |         | NEONATAL DEATHS..... |         |         | PERINATAL DEATHS..... |         |              |
|---------|-------------------|---------|---------|----------------------|---------|---------|-----------------------|---------|--------------|
|         | Males             | Females | Persons | Males                | Females | Persons | Males                 | Females | Persons      |
| NUMBER  |                   |         |         |                      |         |         |                       |         |              |
| 1991    | 777               | 701     | 1 478   | 571                  | 441     | 1 012   | 1 348                 | 1 142   | <b>2 490</b> |
| 1997    | 692               | 588     | 1 280   | 408                  | 310     | 718     | 1 100                 | 898     | <b>1 998</b> |
| 1998    | 590               | 532     | 1 122   | 395                  | 284     | 679     | 985                   | 816     | <b>1 801</b> |
| 1999    | 549               | 505     | 1 054   | 446                  | 298     | 744     | 995                   | 803     | <b>1 798</b> |
| 2000    | 570               | 506     | 1 076   | 396                  | 274     | 670     | 966                   | 780     | <b>1 746</b> |
| 2001    | 543               | 506     | 1 049   | 427                  | 265     | 692     | 970                   | 771     | <b>1 741</b> |
| RATE(b) |                   |         |         |                      |         |         |                       |         |              |
| 1991    | 5.9               | 5.6     | 5.7     | 4.3                  | 3.5     | 3.9     | 10.2                  | 9.1     | <b>9.6</b>   |
| 1997    | 5.3               | 4.8     | 5.1     | 3.2                  | 2.5     | 2.9     | 8.5                   | 7.3     | <b>7.9</b>   |
| 1998    | 4.6               | 4.4     | 4.5     | 3.1                  | 2.3     | 2.7     | 7.7                   | 6.7     | <b>7.2</b>   |
| 1999    | 4.3               | 4.1     | 4.2     | 3.5                  | 2.5     | 3.0     | 7.8                   | 6.6     | <b>7.2</b>   |
| 2000    | 4.4               | 4.2     | 4.3     | 3.1                  | 2.3     | 2.7     | 7.5                   | 6.4     | <b>7.0</b>   |
| 2001    | 4.3               | 4.2     | 4.2     | 3.4                  | 2.2     | 2.8     | 7.7                   | 6.4     | <b>7.0</b>   |

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

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

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

| Year    | FETAL DEATHS..... |         |         | NEONATAL DEATHS..... |         |         | PERINATAL DEATHS..... |         |              |
|---------|-------------------|---------|---------|----------------------|---------|---------|-----------------------|---------|--------------|
|         | Males             | Females | Persons | Males                | Females | Persons | Males                 | Females | Persons      |
| NUMBER  |                   |         |         |                      |         |         |                       |         |              |
| 1991    | 868               | 790     | 1 658   | 616                  | 481     | 1 097   | 1 484                 | 1 271   | <b>2 755</b> |
| 1997    | 829               | 687     | 1 516   | 443                  | 362     | 805     | 1 272                 | 1 049   | <b>2 321</b> |
| 1998    | 707               | 629     | 1 336   | 435                  | 319     | 754     | 1 142                 | 948     | <b>2 090</b> |
| 1999    | 682               | 602     | 1 284   | 510                  | 339     | 849     | 1 192                 | 941     | <b>2 133</b> |
| 2000    | 692               | 611     | 1 303   | 443                  | 330     | 773     | 1 135                 | 941     | <b>2 076</b> |
| 2001    | 686               | 604     | 1 290   | 484                  | 318     | 802     | 1 170                 | 922     | <b>2 092</b> |
| RATE(b) |                   |         |         |                      |         |         |                       |         |              |
| 1991    | 6.5               | 6.3     | 6.4     | 4.7                  | 3.8     | 4.3     | 11.2                  | 10.1    | <b>10.6</b>  |
| 1997    | 6.4               | 5.6     | 6.0     | 3.4                  | 3.0     | 3.2     | 9.8                   | 8.5     | <b>9.2</b>   |
| 1998    | 5.5               | 5.1     | 5.3     | 3.4                  | 2.6     | 3.0     | 8.9                   | 7.8     | <b>8.3</b>   |
| 1999    | 5.3               | 4.9     | 5.1     | 4.0                  | 2.8     | 3.4     | 9.3                   | 7.7     | <b>8.5</b>   |
| 2000    | 5.4               | 5.0     | 5.2     | 3.5                  | 2.7     | 3.1     | 8.8                   | 7.7     | <b>8.3</b>   |
| 2001    | 5.4               | 5.0     | 5.2     | 3.8                  | 2.6     | 3.3     | 9.2                   | 7.6     | <b>8.4</b>   |

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

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

### 3.3 PERINATAL DEATHS(a), By state or territory of usual residence of mother

| Year    | NSW  | Vic. | Qld  | SA  | WA   | Tas. | NT   | ACT  | Aust.        |
|---------|------|------|------|-----|------|------|------|------|--------------|
| NUMBER  |      |      |      |     |      |      |      |      |              |
| 1991    | 969  | 644  | 492  | 178 | 264  | 82   | 66   | 60   | <b>2 755</b> |
| 1997    | 861  | 522  | 430  | 152 | 202  | 70   | 56   | 28   | <b>2 321</b> |
| 1998    | 695  | 470  | 452  | 131 | 186  | 59   | 48   | 49   | <b>2 090</b> |
| 1999    | 705  | 543  | 385  | 119 | 208  | 65   | 58   | 50   | <b>2 133</b> |
| 2000    | 675  | 472  | 421  | 147 | 212  | 61   | 54   | 34   | <b>2 076</b> |
| 2001    | 664  | 510  | 464  | 147 | 191  | 36   | 47   | 33   | <b>2 092</b> |
| RATE(b) |      |      |      |     |      |      |      |      |              |
| 1991    | 11.0 | 9.8  | 11.1 | 9.0 | 10.3 | 11.9 | 18.2 | 12.5 | <b>10.6</b>  |
| 1997    | 9.8  | 8.5  | 9.1  | 8.2 | 8.1  | 11.6 | 15.5 | 6.6  | <b>9.2</b>   |
| 1998    | 8.1  | 7.7  | 9.6  | 7.2 | 7.5  | 9.8  | 13.1 | 12.2 | <b>8.3</b>   |
| 1999    | 8.1  | 9.2  | 8.2  | 6.6 | 8.3  | 10.7 | 16.1 | 11.7 | <b>8.5</b>   |
| 2000    | 7.7  | 7.9  | 8.9  | 8.2 | 8.4  | 10.6 | 14.5 | 8.3  | <b>8.3</b>   |
| 2001    | 7.8  | 8.7  | 9.7  | 8.5 | 7.9  | 5.6  | 12.2 | 8.3  | <b>8.4</b>   |

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

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

### 3.4 PERINATAL DEATHS(a), By age of mother

| Year    | Under 20 | 20–24 | 25–29 | 30–34 | 35–39 | 40 and over | Not stated | Total        |
|---------|----------|-------|-------|-------|-------|-------------|------------|--------------|
| NUMBER  |          |       |       |       |       |             |            |              |
| 1991    | 226      | 570   | 831   | 739   | 272   | 76          | 41         | <b>2 755</b> |
| 1997    | 186      | 408   | 666   | 583   | 357   | 65          | 56         | <b>2 321</b> |
| 1998    | 155      | 357   | 605   | 524   | 330   | 74          | 45         | <b>2 090</b> |
| 1999    | 163      | 374   | 598   | 566   | 307   | 85          | 40         | <b>2 133</b> |
| 2000    | 165      | 355   | 584   | 561   | 309   | 61          | 41         | <b>2 076</b> |
| 2001    | 186      | 332   | 548   | 562   | 341   | 83          | 40         | <b>2 092</b> |
| RATE(b) |          |       |       |       |       |             |            |              |
| 1991    | 15.2     | 11.0  | 9.0   | 10.3  | 11.3  | 20.8        | ..         | <b>10.6</b>  |
| 1997    | 15.0     | 9.6   | 8.0   | 7.6   | 10.7  | 12.1        | ..         | <b>9.2</b>   |
| 1998    | 13.0     | 8.9   | 7.4   | 6.9   | 9.6   | 12.6        | ..         | <b>8.3</b>   |
| 1999    | 13.8     | 9.6   | 7.5   | 7.3   | 8.6   | 13.4        | ..         | <b>8.5</b>   |
| 2000    | 14.3     | 9.4   | 7.4   | 7.1   | 8.4   | 9.2         | ..         | <b>8.3</b>   |
| 2001    | 15.7     | 8.9   | 7.4   | 7.0   | 9.2   | 11.6        | ..         | <b>8.4</b>   |

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

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

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

| Cause of death and ICD code  | FETAL DEATHS..... |            | NEONATAL DEATHS..... |            | PERINATAL DEATHS..... |            |
|--|-------------------|------------|----------------------|------------|-----------------------|------------|
|  | Males             | Females    | Males                | Females    | Males                 | Females    |
| TOTAL  |                   |            |                      |            |                       |            |
| <b>All causes</b>  | <b>686</b>        | <b>604</b> | <b>484</b>           | <b>318</b> | <b>1 170</b>          | <b>922</b> |
| MAIN CONDITION IN FETUS/INFANT   |                   |            |                      |            |                       |            |
| Certain conditions originating in the perinatal period (P00–P96)                       | 566               | 539        | 325                  | 220        | 891                   | 759        |
| Disorders related to length of gestation and fetal growth (P05–P08)                    | 79                | 55         | 93                   | 67         | 172                   | 122        |
| Extremely low birth weight (P07.0)   | 43                | 33         | 86                   | 62         | 129                   | 95         |
| Respiratory and cardiovascular disorders specific to the perinatal period (P20–P29)    | 131               | 132        | 101                  | 66         | 232                   | 198        |
| Intrauterine hypoxia (P20)   | 126               | 125        | 2                    | 3          | 128                   | 128        |
| Birth asphyxia (P21)   | —                 | —          | 16                   | 11         | 16                    | 11         |
| Cardiovascular disorders originating in the perinatal period (P29)                     | 3                 | 4          | 11                   | 12         | 14                    | 16         |
| Infections specific to the perinatal period (P35–P39)                                  | 11                | 8          | 28                   | 28         | 39                    | 36         |
| Haemorrhagic and haematological disorders of fetus and newborn (P50–P61)               | 13                | 18         | 51                   | 25         | 64                    | 43         |
| Intracranial nontraumatic haemorrhage of fetus and newborn (P52)                       | 2                 | 2          | 42                   | 21         | 44                    | 23         |
| Other disorders originating in the perinatal period (P90–P96)                          | 308               | 302        | 26                   | 11         | 334                   | 313        |
| Fetal death of unspecified cause (P95)   | 108               | 132        | —                    | —          | 108                   | 132        |
| Condition originating in the perinatal period, unspecified (P96.9)                     | 161               | 149        | 4                    | 2          | 165                   | 151        |
| Congenital malformations, deformations and chromosomal abnormalities (Q00–Q99)         | 114               | 59         | 126                  | 86         | 240                   | 145        |
| Congenital malformations of the nervous system (Q00–Q07)                               | 22                | 13         | 11                   | 10         | 33                    | 23         |
| Anencephaly and similar malformations (Q00)  | 3                 | 1          | 4                    | 1          | 7                     | 2          |
| Congenital hydrocephalus (Q03)   | 6                 | 6          | 1                    | 1          | 7                     | 7          |
| Spina bifida (Q05)   | 4                 | —          | 3                    | 2          | 7                     | 2          |
| Congenital malformations of the circulatory system (Q20–Q28)                           | 23                | 9          | 36                   | 21         | 59                    | 30         |
| Congenital malformations of the heart (Q20–Q24)  | 18                | 8          | 27                   | 16         | 45                    | 24         |
| Congenital malformations of aortic and mitral valves (Q23)                             | 3                 | 1          | 10                   | 7          | 13                    | 8          |
| Congenital malformations of lung (Q33)   | 1                 | —          | 10                   | 7          | 11                    | 7          |
| Congenital malformations of the urinary system (Q60–Q64)                               | 18                | 6          | 15                   | 4          | 33                    | 10         |
| Congenital malformations and deformations of the musculoskeletal system (Q65–Q79)      | 13                | 3          | 19                   | 10         | 32                    | 13         |
| Congenital diaphragmatic hernia (Q79.0)  | 4                 | —          | 9                    | 5          | 13                    | 5          |
| Down's syndrome (Q90)  | 8                 | 5          | 6                    | 3          | 14                    | 8          |
| Edwards' syndrome and Patau's syndrome (Q91)   | 7                 | 8          | 13                   | 9          | 20                    | 17         |
| MAIN CONDITION IN MOTHER   |                   |            |                      |            |                       |            |
| Maternal conditions that may be unrelated to present pregnancy (P00)                   | 97                | 70         | 24                   | 22         | 121                   | 92         |
| Maternal hypertensive disorders (P00.0)  | 28                | 19         | 8                    | 8          | 36                    | 27         |
| Maternal complications of pregnancy (P01)  | 78                | 59         | 188                  | 127        | 266                   | 186        |
| Incompetent cervix (P01.0)   | 9                 | 5          | 14                   | 11         | 23                    | 16         |
| Premature rupture of membranes (P01.1)   | 15                | 7          | 27                   | 16         | 42                    | 23         |
| Multiple pregnancy (P01.5)   | 19                | 29         | 64                   | 41         | 83                    | 70         |
| Complications of placenta, cord and membranes (P02)                                    | 246               | 238        | 92                   | 71         | 338                   | 309        |
| Placenta praevia and other forms of placental separation and haemorrhage (P02.0–P02.1) | 101               | 78         | 40                   | 26         | 141                   | 104        |
| Other and unspecified morphological and functional abnormalities of placenta (P02.2)   | 50                | 35         | 3                    | —          | 53                    | 35         |
| Prolapsed cord (P02.4)   | 4                 | 6          | 6                    | 5          | 10                    | 11         |
| Other compression of umbilical cord (P02.5)  | 43                | 58         | 2                    | —          | 45                    | 58         |
| Chorioamnionitis (P02.7)   | 21                | 26         | 22                   | 30         | 43                    | 56         |
| Complications of labour and delivery (P03)   | 38                | 18         | 28                   | 18         | 66                    | 36         |
| Breech delivery and extraction (P03.0)   | 2                 | —          | 4                    | —          | 6                     | —          |
| Noxious influences transmitted via placenta or breast milk (P04)                       | 4                 | 8          | 2                    | 3          | 6                     | 11         |
| No maternal condition reported   | 223               | 211        | 150                  | 77         | 373                   | 288        |

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

## 3.6 PERINATAL DEATHS(a), By birthweight

|  | BIRTHWEIGHT (GRAMS)..... |             |                 |                 |                 |                  |          |
|--|--------------------------|-------------|-----------------|-----------------|-----------------|------------------|----------|
| Cause of death and ICD code  | 400–<br>499              | 500–<br>999 | 1 000–<br>1 999 | 2 000–<br>2 999 | 3 000–<br>3 999 | 4 000 or<br>more | Total(b) |
| .....  |                          |             |                 |                 |                 |                  |          |
| TOTAL  |                          |             |                 |                 |                 |                  |          |
| All causes   | 340                      | 613         | 337             | 365             | 311             | 48               | 2 092    |
| .....  |                          |             |                 |                 |                 |                  |          |
| MAIN CONDITION IN FETUS/INFANT   |                          |             |                 |                 |                 |                  |          |
| Certain conditions originating in the perinatal period (P00–P96)                       | 268                      | 522         | 246             | 276             | 241             | 45               | 1 650    |
| Disorders related to length of gestation and fetal growth (P05–P08)                    | 114                      | 130         | 23              | 14              | 1               | 1                | 294      |
| Extremely low birth weight (P07.0)   | 107                      | 112         | —               | —               | —               | —                | 224      |
| Respiratory and cardiovascular disorders specific to the perinatal period (P20–P29)    | 27                       | 122         | 78              | 94              | 89              | 11               | 430      |
| Intrauterine hypoxia (P20)   | 17                       | 32          | 51              | 75              | 68              | 9                | 256      |
| Birth asphyxia (P21)   | 1                        | 2           | 1               | 6               | 14              | 1                | 27       |
| Cardiovascular disorders originating in the perinatal period (P29)                     | —                        | 10          | 9               | 4               | 5               | 1                | 30       |
| Infections specific to the perinatal period (P35–P39)                                  | 9                        | 39          | 10              | 7               | 9               | 1                | 75       |
| Haemorrhagic and haematological disorders of fetus and newborn (P50–P61)               | 5                        | 60          | 15              | 8               | 15              | 3                | 107      |
| Intracranial nontraumatic haemorrhage of fetus and newborn (P52)                       | 4                        | 50          | 10              | 1               | 1               | —                | 67       |
| Other disorders originating in the perinatal period (P90–P96)                          | 112                      | 138         | 102             | 137             | 115             | 16               | 647      |
| Fetal death of unspecified cause (P95)   | 30                       | 42          | 44              | 59              | 45              | 7                | 240      |
| Condition originating in the perinatal period, unspecified (P96.9)                     | 46                       | 80          | 53              | 65              | 54              | 5                | 316      |
| Congenital malformations, deformations and chromosomal abnormalities (Q00–Q99)         | 70                       | 85          | 82              | 71              | 53              | 3                | 385      |
| Congenital malformations of the nervous system (Q00–Q07)                               | 13                       | 11          | 14              | 5               | 7               | —                | 56       |
| Anencephaly and similar malformations (Q00)  | —                        | 1           | 3               | 2               | 2               | —                | 9        |
| Congenital hydrocephalus (Q03)   | 4                        | 4           | 2               | 1               | 1               | —                | 14       |
| Spina bifida (Q05)   | 3                        | 2           | 1               | 1               | 0               | —                | 9        |
| Congenital malformations of the circulatory system (Q20–Q28)                           | 10                       | 15          | 17              | 20              | 19              | 1                | 89       |
| Congenital malformations of the heart (Q20–Q24)  | 9                        | 11          | 12              | 17              | 15              | —                | 69       |
| Congenital malformations of aortic and mitral valves (Q23)                             | 3                        | 1           | 2               | 4               | 10              | —                | 21       |
| Congenital malformations of lung (Q33)   | —                        | 5           | 3               | 7               | 3               | —                | 18       |
| Congenital malformations of the urinary system (Q60–Q64)                               | 7                        | 11          | 10              | 7               | 3               | —                | 43       |
| Congenital malformations and deformations of the musculoskeletal system (Q65–Q79)      | 9                        | 5           | 7               | 13              | 9               | —                | 45       |
| Congenital diaphragmatic hernia (Q79.0)  | 3                        | 1           | 2               | 5               | 6               | —                | 18       |
| Down's syndrome (Q90)  | 10                       | 4           | 3               | 2               | 1               | 1                | 22       |
| Edwards' syndrome and Patau's syndrome (Q91)   | 4                        | 10          | 12              | 8               | 3               | —                | 37       |
| .....  |                          |             |                 |                 |                 |                  |          |
| MAIN CONDITION IN MOTHER   |                          |             |                 |                 |                 |                  |          |
| Maternal conditions that may be unrelated to present pregnancy (P00)                   | 48                       | 65          | 30              | 34              | 23              | 10               | 213      |
| Maternal hypertensive disorders (P00.0)  | 5                        | 24          | 18              | 8               | 8               | —                | 63       |
| Maternal complications of pregnancy (P01)  | 108                      | 222         | 69              | 28              | 8               | 1                | 452      |
| Incompetent cervix (P01.0)   | 17                       | 19          | 3               | —               | —               | —                | 39       |
| Premature rupture of membranes (P01.1)   | 15                       | 34          | 11              | 2               | 1               | 1                | 65       |
| Multiple pregnancy (P01.5)   | 36                       | 74          | 24              | 11              | 5               | —                | 153      |
| Complications of placenta, cord and membranes (P02)                                    | 84                       | 199         | 107             | 124             | 103             | 14               | 647      |
| Placenta praevia and other forms of placental separation and haemorrhage (P02.0–P02.1) | 35                       | 82          | 39              | 48              | 30              | 6                | 245      |
| Other and unspecified morphological and functional abnormalities of placenta (P02.2)   | 8                        | 24          | 24              | 16              | 14              | 1                | 88       |
| Prolapsed cord (P02.4)   | 3                        | 8           | 1               | 4               | 4               | 1                | 21       |
| Other compression of umbilical cord (P02.5)  | 2                        | 13          | 16              | 35              | 32              | 3                | 103      |
| Chorioamnionitis (P02.7)   | 28                       | 42          | 11              | 7               | 8               | —                | 99       |
| Complications of labour and delivery (P03)   | 34                       | 32          | 9               | 9               | 9               | 5                | 102      |
| Breech delivery and extraction (P03.0)   | —                        | —           | 3               | 3               | —               | —                | 6        |
| Noxious influences transmitted via placenta or breast milk (P04)                       | 5                        | 5           | 1               | 3               | 1               | —                | 17       |
| No maternal condition reported   | 61                       | 90          | 121             | 167             | 167             | 18               | 661      |

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

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

### 3.7 PERINATAL DEATHS(a), By period of gestation

|  | 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) |
| .....  |  |       |       |       |       |             |          |
| TOTAL  |  |       |       |       |       |             |          |
| All causes   | 185  | 751   | 200   | 343   | 515   | 9           | 2 092    |
| .....  |  |       |       |       |       |             |          |
| MAIN CONDITION IN FETUS/INFANT   |  |       |       |       |       |             |          |
| Certain conditions originating in the perinatal period (P00–P96)                       | 122  | 641   | 168   | 255   | 408   | 4           | 1 650    |
| Disorders related to length of gestation and fetal growth (P05–P08)                    | 61   | 177   | 15    | 19    | 13    | 2           | 294      |
| Extremely low birth weight (P07.0)   | 59   | 158   | 2     | —     | —     | —           | 224      |
| Respiratory and cardiovascular disorders specific to the perinatal period (P20–P29)    | 10   | 141   | 42    | 80    | 142   | 1           | 430      |
| Intrauterine hypoxia (P20)   | 7  | 45    | 26    | 69    | 107   | —           | 256      |
| Birth asphyxia (P21)   | —  | 3     | 1     | 3     | 18    | —           | 27       |
| Cardiovascular disorders originating in the perinatal period (P29)                     | —  | 10    | 4     | 4     | 9     | —           | 30       |
| Infections specific to the perinatal period (P35–P39)                                  | 5  | 42    | 9     | 5     | 11    | —           | 75       |
| Haemorrhagic and haematological disorders of fetus and newborn (P50–P61)               | —  | 63    | 11    | 10    | 18    | —           | 107      |
| Intracranial nontraumatic haemorrhage of fetus and newborn (P52)                       | —  | 56    | 3     | 2     | 2     | —           | 67       |
| Other disorders originating in the perinatal period (P90–P96)                          | 43   | 183   | 76    | 126   | 200   | 1           | 647      |
| Fetal death of unspecified cause (P95)   | 13   | 37    | 40    | 55    | 80    | —           | 240      |
| Condition originating in the perinatal period, unspecified (P96.9)                     | 19   | 104   | 32    | 62    | 95    | 1           | 316      |
| Congenital malformations, deformations and chromosomal abnormalities (Q00–Q99)         | 62   | 104   | 25    | 77    | 86    | 5           | 385      |
| Congenital malformations of the nervous system (Q00–Q07)                               | 12   | 17    | 3     | 10    | 10    | 1           | 56       |
| Anencephaly and similar malformations (Q00)  | —  | 1     | —     | 2     | 4     | 1           | 9        |
| Congenital hydrocephalus (Q03)   | 3  | 7     | 1     | 2     | 1     | —           | 14       |
| Spina bifida (Q05)   | 4  | 1     | 1     | —     | 1     | —           | 9        |
| Congenital malformations of the circulatory system (Q20–Q28)                           | 11   | 15    | 6     | 19    | 25    | —           | 89       |
| Congenital malformations of the heart (Q20–Q24)  | 9  | 11    | 4     | 14    | 21    | —           | 69       |
| Congenital malformations of aortic and mitral valves (Q23)                             | 3  | 1     | 1     | 3     | 10    | —           | 21       |
| Congenital malformations of lung (Q33)   | —  | 5     | 2     | 6     | 4     | 1           | 18       |
| Congenital malformations of the urinary system (Q60–Q64)                               | 7  | 17    | 2     | 8     | 5     | 1           | 43       |
| Congenital malformations and deformations of the musculoskeletal system (Q65–Q79)      | 5  | 10    | 2     | 10    | 13    | 2           | 45       |
| Congenital diaphragmatic hernia (Q79.0)  | 3  | 1     | 2     | 1     | 7     | 1           | 18       |
| Down's syndrome (Q90)  | 7  | 8     | 2     | 2     | 3     | —           | 22       |
| Edwards' syndrome and Patau's syndrome (Q91)   | 2  | 8     | 1     | 12    | 12    | —           | 37       |
| .....  |  |       |       |       |       |             |          |
| MAIN CONDITION IN MOTHER   |  |       |       |       |       |             |          |
| Maternal conditions that may be unrelated to present pregnancy (P00)                   | 14   | 102   | 15    | 43    | 39    | —           | 213      |
| Maternal hypertensive disorders (P00.0)  | —  | 28    | 11    | 11    | 13    | —           | 63       |
| Maternal complications of pregnancy (P01)  | 54   | 276   | 34    | 42    | 21    | 1           | 452      |
| Incompetent cervix (P01.0)   | 13   | 23    | 1     | —     | —     | —           | 39       |
| Premature rupture of membranes (P01.1)   | 7  | 43    | 4     | 5     | 4     | —           | 65       |
| Multiple pregnancy (P01.5)   | 13   | 92    | 7     | 21    | 11    | —           | 153      |
| Complications of placenta, cord and membranes (P02)                                    | 40   | 240   | 74    | 106   | 179   | 1           | 647      |
| Placenta praevia and other forms of placental separation and haemorrhage (P02.0–P02.1) | 17   | 104   | 24    | 36    | 60    | —           | 245      |
| Other and unspecified morphological and functional abnormalities of placenta (P02.2)   | 2  | 22    | 19    | 13    | 32    | —           | 88       |
| Prolapsed cord (P02.4)   | 1  | 10    | 1     | 3     | 6     | —           | 21       |
| Other compression of umbilical cord (P02.5)  | —  | 13    | 9     | 32    | 49    | —           | 103      |
| Chorioamnionitis (P02.7)   | 17   | 57    | 7     | 3     | 12    | 1           | 99       |
| Complications of labour and delivery (P03)   | 28   | 38    | 7     | 4     | 17    | 1           | 102      |
| Breech delivery and extraction (P03.0)   | —  | 1     | 2     | —     | 3     | —           | 6        |
| Noxious influences transmitted via placenta or breast milk (P04)                       | 3  | 7     | 1     | 2     | 3     | —           | 17       |
| No maternal condition reported   | 46   | 88    | 69    | 146   | 256   | 6           | 661      |

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

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

SECTION **4**

**YEAR OF OCCURRENCE** .....

INTRODUCTION

Information contained in the preceding sections in this publication refers to deaths registered by the state and territory Registrars-General during the calendar year 2001. In this section, deaths statistics are based on a year of occurrence, i.e. the year in which the death actually occurred, irrespective of the year in which it was registered.

Some countries publish deaths statistics on a year of registration basis, some on a year of occurrence basis, and some on both bases. Although in practice some deaths are registered many years after their date of occurrence, it is common international practice when publishing on a year of occurrence basis to include deaths registered within the particular occurrence year and the year immediately following. Analysis of deaths in Australia has shown that the number of deaths registered after the second year are of little significance (less than 0.1%). Accordingly, this practice has been adopted for the presentation of year of occurrence data in this publication, to facilitate international comparisons.

Commencing with this year's edition of *Causes of Death, Australia*, the ABS will not only release the most recent data on a year of registration basis, but also summary data on a year of occurrence basis for the preceding year. Data on a year of occurrence basis are considered to be more accurate than data on a year of registration basis as it allows for seasonal analysis, and data are not distorted by the effects of late registrations or changes in time taken to process registrations. However, in those countries where registration systems are complete and timely, there is not an appreciable difference between year of registration tabulations and those on a year of occurrence basis, and the two can be used interchangeably. This is certainly the case in Australia where about 95% of deaths occurring in a particular year are registered in that year.

However, variations in this proportion can occur in certain sub-sets of the population and for particular causes of death. For instance, although 95% of the total 128,784 deaths that occurred in 2000 were registered in 2000, only 88% of the 2,111 Indigenous deaths and 93% of deaths due to External causes that occurred in 2000 were registered in that year.

## COMPARISON OF LEADING UNDERLYING CAUSES IN 2000

The following table shows there are negligible percentage differences between leading underlying causes of death presented on year of occurrence basis and year of registration basis in 2000. The two causes with the biggest differences are Accidents and Intentional self-harm. These deaths are subject to coronial enquiry which can cause delays in the registration process.

## LEADING UNDERLYING CAUSES OF DEATH

| Cause of death and ICD code  | Year of<br>Registration<br>2000 | Year of<br>occurrence<br>2000 | Difference  |
|--|---------------------------------|-------------------------------|-------------|
|  | no.                             | no.                           | %(a)        |
| <b>All causes</b>  | <b>128 291</b>                  | <b>128 784</b>                | <b>0.38</b> |
| Malignant neoplasms (cancer) (C00–C97)   | 35 628                          | 35 825                        | 0.55        |
| Ischaemic heart diseases (I20–I25)   | 26 521                          | 26 606                        | 0.32        |
| Cerebrovascular diseases (stroke) (I60–I69)  | 12 300                          | 12 346                        | 0.37        |
| Chronic lower respiratory diseases (including asthma, emphysema and bronchitis) (J40–J47)                  | 5 962                           | 5 998                         | 0.60        |
| Accidents (V01–X59)  | 5 138                           | 5 191                         | 1.03        |
| Diabetes mellitus (E10–E14)  | 3 006                           | 3 009                         | 0.10        |
| Influenza and pneumonia (J10–J18)  | 2 937                           | 2 939                         | 0.07        |
| Diseases of arteries, arterioles and capillaries (including atherosclerosis and aortic aneurysm) (I70–I79) | 2 617                           | 2 612                         | –0.19       |
| Heart Failure (I50)  | 2 644                           | 2 633                         | –0.42       |
| Intentional self-harm (X60–X84)  | 2 363                           | 2 388                         | 1.06        |
| All other causes   | 29 175                          | 29 237                        | 0.21        |

(a) A positive percentage difference indicates that more deaths were reported on a year of occurrence basis.

## 4.1 YEAR OF OCCURRENCE(a), Selected underlying causes

|   | 1998.....     |               | 1999.....     |               | 2000.....     |               |
|---|---------------|---------------|---------------|---------------|---------------|---------------|
| Cause of death and ICD code   | Males         | Females       | Males         | Females       | Males         | Females       |
| <b>All causes</b>   | <b>67 131</b> | <b>60 227</b> | <b>67 185</b> | <b>60 894</b> | <b>67 058</b> | <b>61 726</b> |
| Chapter I Certain infectious and parasitic diseases (A00–B99)   | 793           | 670           | 834           | 756           | 871           | 787           |
| Septicaemia (A40, A41)  | 337           | 414           | 406           | 457           | 454           | 494           |
| Human immunodeficiency virus (HIV) disease (B20–B24)(b)   | 169           | 11            | 154           | 9             | 157           | 11            |
| Chapter II Neoplasms (C00–D48)  | 20 219        | 15 456        | 20 300        | 15 580        | 20 665        | 15 902        |
| Malignant neoplasms (C00–C97)   | 19 860        | 15 150        | 19 880        | 15 199        | 20 279        | 15 546        |
| Digestive organs (C15–C26)  | 5 461         | 4 308         | 5 579         | 4 327         | 5 732         | 4 364         |
| Oesophagus (C15)  | 646           | 330           | 645           | 294           | 683           | 288           |
| Stomach (C16)   | 765           | 430           | 754           | 451           | 763           | 426           |
| Colon (C18)   | 1 742         | 1 651         | 1 758         | 1 565         | 1 786         | 1 649         |
| Rectosigmoid junction, rectum, anus and anal canal (C19–C21)  | 742           | 507           | 725           | 527           | 783           | 500           |
| Liver and intrahepatic bile ducts (C22)   | 425           | 206           | 449           | 241           | 513           | 228           |
| Pancreas (C25)  | 813           | 805           | 868           | 840           | 872           | 876           |
| Trachea, bronchus and lung (C33, C34)   | 4 712         | 2 050         | 4 646         | 2 123         | 4 594         | 2 317         |
| Melanoma of skin (C43)  | 623           | 343           | 641           | 364           | 617           | 354           |
| Breast (C50)  | 19            | 2 541         | 21            | 2 512         | 21            | 2 521         |
| Female genital organs (C51–C58)   | ..            | 1 379         | ..            | 1 304         | ..            | 1 405         |
| Ovary (C56)   | ..            | 749           | ..            | 731           | ..            | 780           |
| Male genital organs (C60–C63)   | 2 607         | ..            | 2 558         | ..            | 2 703         | ..            |
| Prostate (C61)  | 2 570         | ..            | 2 512         | ..            | 2 665         | ..            |
| Urinary tract (C64–C68)   | 1 040         | 596           | 1 130         | 605           | 1 070         | 583           |
| Kidney, except renal pelvis (C64)   | 450           | 321           | 486           | 314           | 468           | 299           |
| Bladder (C67)   | 553           | 245           | 602           | 257           | 570           | 249           |
| Brain (C71)   | 569           | 441           | 587           | 420           | 633           | 455           |
| Lymphoid, haematopoietic and related tissue (C81–C96)   | 1 911         | 1 625         | 1 971         | 1 608         | 2 085         | 1 669         |
| Leukaemia (C91–C95)   | 772           | 560           | 765           | 592           | 794           | 569           |
| In situ and benign neoplasms and neoplasms of uncertain or unknown behaviour (D00–D48)                                    | 359           | 306           | 420           | 381           | 386           | 356           |
| Chapter III Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50–D89) | 195           | 237           | 197           | 258           | 188           | 218           |
| Chapter IV Endocrine, nutritional and metabolic diseases (E00–E90)  | 1 997         | 1 963         | 1 998         | 2 101         | 2 147         | 2 031         |
| Diabetes mellitus (E10–E14)   | 1 480         | 1 393         | 1 485         | 1 472         | 1 591         | 1 418         |
| Chapter V Mental and behavioural disorders (F00–F99)  | 1 378         | 1 476         | 1 279         | 1 561         | 1 351         | 1 726         |
| Organic, including symptomatic, mental disorders (F00–F09)  | 615           | 1 196         | 648           | 1 303         | 670           | 1 455         |
| Chapter VI Diseases of the nervous system (G00–G99)   | 1 727         | 1 989         | 1 830         | 2 075         | 1 848         | 2 208         |
| Alzheimer's disease (G30)   | 491           | 980           | 491           | 1 023         | 457           | 1 106         |
| Chapter VII Diseases of the eye and adnexa (H00–H59)  | 2             | 3             | —             | 5             | —             | 1             |
| Chapter VIII Diseases of the ear and mastoid process (H60–H95)  | 4             | 5             | 1             | 6             | 3             | 5             |
| Chapter IX Diseases of the circulatory system (I00–I99)   | 25 210        | 26 652        | 24 804        | 26 457        | 23 778        | 26 055        |
| All heart disease (I05–I09, I11, I13, I20–I25, I26, I27, I30–I52)   | 18 520        | 17 482        | 18 121        | 17 217        | 17 196        | 16 821        |
| Acute rheumatic fever and chronic rheumatic heart diseases (I00–I09)  | 66            | 153           | 89            | 176           | 98            | 161           |
| Hypertensive diseases (I10–I15)   | 439           | 790           | 423           | 744           | 457           | 750           |
| Ischaemic heart diseases (I20–I25)  | 15 228        | 13 076        | 14 901        | 12 731        | 14 069        | 12 537        |
| Acute myocardial infarction (I21)   | 8 496         | 7 377         | 8 030         | 7 110         | 7 602         | 7 066         |
| Pulmonary heart disease and diseases of pulmonary circulation and other forms of heart disease (I26–I52)                  | 3 000         | 3 805         | 2 926         | 3 896         | 2 804         | 3 726         |
| Heart failure (I50)   | 1 072         | 1 716         | 990           | 1 723         | 977           | 1 656         |
| Cerebrovascular diseases (I60–I69)  | 4 939         | 7 356         | 4 890         | 7 372         | 4 909         | 7 437         |
| Diseases of arteries, arterioles and capillaries (I70–I79)  | 1 428         | 1 306         | 1 460         | 1 381         | 1 316         | 1 296         |
| Atherosclerosis (I70)   | 211           | 381           | 223           | 408           | 186           | 324           |
| Aortic aneurysm and dissection (I71)  | 879           | 528           | 867           | 572           | 800           | 544           |

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

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



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

|   | 1998.....    |                | 1999.....    |                | 2000.....    |                |
|---|--------------|----------------|--------------|----------------|--------------|----------------|
| <i>Cause of death and ICD code</i>  | <i>Males</i> | <i>Females</i> | <i>Males</i> | <i>Females</i> | <i>Males</i> | <i>Females</i> |
| Chapter X Diseases of the respiratory system (J00–J99)  | 5 276        | 4 342          | 5 316        | 4 341          | 5 987        | 5 001          |
| Influenza and pneumonia (J10–J18)   | 848          | 1 169          | 781          | 1 163          | 1 323        | 1 616          |
| Chronic lower respiratory diseases (J40–J47)  | 3 623        | 2 510          | 3 617        | 2 486          | 3 535        | 2 463          |
| Emphysema (J43)   | 535          | 271            | 576          | 305            | 486          | 234            |
| Asthma and status asthmaticus (J45, J46)  | 186          | 292            | 156          | 270            | 172          | 280            |
| Chapter XI Diseases of the digestive system (K00–K93)   | 2 029        | 1 978          | 2 112        | 2 103          | 2 062        | 2 083          |
| Diseases of oesophagus, stomach and duodenum (K20–K31)  | 309          | 338            | 311          | 344            | 336          | 349            |
| Gastric and duodenal ulcer (K25–K27)  | 212          | 241            | 214          | 235            | 234          | 237            |
| Diseases of liver (K70–K77)   | 868          | 379            | 871          | 378            | 805          | 367            |
| Chapter XII Diseases of the skin and subcutaneous tissue (L00–L99)  | 94           | 164            | 114          | 179            | 94           | 150            |
| Chapter XIII Diseases of the musculoskeletal system and connective tissue (M00–M99)                             | 234          | 524            | 300          | 563            | 278          | 578            |
| Arthropathies and systemic connective tissue disorders (M00–M36)  | 161          | 368            | 209          | 359            | 186          | 392            |
| Chapter XIV Diseases of the genitourinary system (N00–N99)  | 1 207        | 1 513          | 1 233        | 1 526          | 1 176        | 1 495          |
| Renal failure (N17–N19)   | 802          | 883            | 835          | 919            | 803          | 901            |
| Chapter XV Pregnancy, childbirth and the puerperium (O00–O99)   | ..           | 5              | ..           | 13             | ..           | 13             |
| Chapter XVI Certain conditions originating in the perinatal period (P00–P96)                                    | 345          | 243            | 374          | 268            | 356          | 291            |
| Fetus and newborn affected by maternal factors and by complications of pregnancy, labour and delivery (P00–P04) | 163          | 126            | 215          | 152            | 173          | 146            |
| Chapter XVII Congenital malformations, deformations and chromosomal abnormalities (Q00–Q99)                     | 341          | 279            | 386          | 320            | 331          | 291            |
| Congenital malformations of the circulatory system (Q20–Q28)  | 117          | 98             | 131          | 120            | 117          | 99             |
| Chapter XVIII Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00–R99) | 334          | 276            | 323          | 282            | 337          | 304            |
| Chapter XX External causes of morbidity and mortality (V01–Y98)   | 5 746        | 2 452          | 5 784        | 2 500          | 5 586        | 2 587          |
| Accidents (V01–X59)   | 3 208        | 1 684          | 3 414        | 1 810          | 3 351        | 1 840          |
| Transport accidents (V01–V99)   | 1 435        | 561            | 1 420        | 565            | 1 473        | 554            |
| Falls (W00–W19)   | 278          | 194            | 308          | 210            | 315          | 262            |
| Accidental drowning and submersion (W65–W74)  | 190          | 59             | 193          | 72             | 185          | 54             |
| Intentional self-harm (X60–X84)   | 2 108        | 525            | 1 999        | 489            | 1 883        | 505            |
| Hanging, strangulation and suffocation (X70)  | 986          | 184            | 878          | 160            | 812          | 184            |
| Assault (X85–Y09)   | 201          | 94             | 199          | 95             | 189          | 114            |

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

## EXPLANATORY NOTES .....

### INTRODUCTION

**1** This publication contains summary statistics on causes of death for the general population, together with selected statistics on perinatal deaths. The registration of deaths is the responsibility of the individual State and Territory Registrars of Births, Deaths and Marriages. As part of the registration process, information as to the cause of death is supplied by the medical practitioner certifying the death or by a coroner. Other information about the deceased is supplied by a relative or other person acquainted with the deceased, or by an official of the institution where the death occurred. This information is provided to the Australian Bureau of Statistics (ABS) by individual Registrars for coding and compilation into aggregate statistics shown in this publication. 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 in sections 1, 2 and 3 relate to the number of deaths registered, not those which actually occurred, in the years shown. Usually about 5% to 6% of deaths occurring in one year are not registered until the following year or later. Statistics in section 4 relate to deaths by year of occurrence.

**3** These statistics include all deaths registered in Australia during the registration year, including deaths of persons whose usual residence is overseas. Deaths of Australian residents which occurred 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 Organization (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. 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 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 Off-shore Areas and Migratory. From 1993 to 1996, statistics for 'Other Territories' have been excluded from this publication. However from 1997 they are included in the Australian totals.

### CAUSE OF DEATH CLASSIFICATION USED

**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 1998, 1999, 2000 and 2001 have been coded to the tenth revision while previous years' data are coded to the ninth revision. All multiple cause data in this publication are coded to the tenth revision (see Glossary for definition of underlying and multiple cause). For underlying cause of death, accidental and violent deaths are classified according to the external cause, that is, to the circumstances of the accident or violence which produced the fatal injury rather than to the nature of the injury.

**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 Chapter level (with further disaggregation for major causes of death).
- main Causes of Death for age groups.

**13** Tables 1.1, 1.3, 2.2, 2.3 and 4.1 present statistics at the ICD Chapter level with further disaggregation for major causes of death. Background on this summary classification is given in Volume 1 of the ICD.

CAUSE OF DEATH CLASSIFICATION USED *continued*

**14** Tables 1.2 and 1.4 present data for main causes of death for age groups. For each age group, a summary classification of the 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** As ICD-9 did not directly accommodate the coding of Acquired Immune Deficiency Syndrome (AIDS) and AIDS-related deaths, cases where AIDS was the underlying cause were coded to ICD-9 deficiency of cell-mediated immunity (279.1), from 1988 to 1995. In 1996, ABS adopted ICD-9 Clinically Modified (CM) for coding of AIDS and AIDS-related deaths. Hence, for 1996 to 1998, all AIDS-related deaths (i.e. deaths where AIDS was mentioned in any place on the death certificate) were coded to HIV infection (042–044). ICD-10 adopted from 1999 allows for the coding of AIDS and AIDS-related deaths (B20-B24).

**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 1.1 and 1.3, AIDS-related deaths differ from the data provided for all other causes in that table since for all other causes, only data for underlying cause are given.

## Perinatal statistics

**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 comparatively 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 population 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 also enable further rates to be calculated.

## ACKNOWLEDGMENT

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

## RELATED PRODUCTS

**24** Other available ABS products which may be of interest include:

*AusStats — electronic data* (see Explanatory Note 25)  
*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  
*Drug Induced Deaths — A Guide to ABS Causes of Death Data*  
 cat. no. 4809.0 — 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

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

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

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

## DATA AVAILABLE ON REQUEST

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

**29** 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 made for providing this information.

**30** For more information about cause of death statistics or data concepts contact Peter Burke on 1800 620 963.

## EFFECTS OF ROUNDING

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

# APPENDIX 1 DATA AVAILABLE ON REQUEST .....

## 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 1979–1996
- ICD-10 1997–2001

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. Table A2.1 is used to calculate infant death rates while table A2.2 is used to calculate age-specific death rates.

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

| Sex            | NSW           | Vic.          | Qld           | SA            | WA            | Tas.         | NT           | ACT          | Aust.(b)       |
|----------------|---------------|---------------|---------------|---------------|---------------|--------------|--------------|--------------|----------------|
| Males          | 43 529        | 29 943        | 24 377        | 8 730         | 12 329        | 3 376        | 1 997        | 1 995        | 126 298        |
| Females        | 41 049        | 28 683        | 23 301        | 8 551         | 11 673        | 3 054        | 1 825        | 1 943        | 120 096        |
| <b>Persons</b> | <b>84 578</b> | <b>58 626</b> | <b>47 678</b> | <b>17 281</b> | <b>24 002</b> | <b>6 430</b> | <b>3 822</b> | <b>3 938</b> | <b>246 394</b> |

(a) Used to calculate infant death rates.

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

### A2.2 AGES OF ESTIMATED RESIDENT POPULATION AT 30 JUNE .....

AGE GROUPS(YEARS).....

| Under 1 | 1-14      | 15-24     | 25-34     | 35-44     | 45-54     | 55-64     | 65-74     | 75-84   | 85 and over | All ages          |
|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------|-------------|-------------------|
| MALES   |           |           |           |           |           |           |           |         |             |                   |
| 131 958 | 1 920 910 | 1 358 840 | 1 431 719 | 1 478 572 | 1 332 878 | 925 319   | 639 345   | 357 059 | 81 962      | <b>9 658 562</b>  |
| FEMALES |           |           |           |           |           |           |           |         |             |                   |
| 125 151 | 1 824 661 | 1 307 906 | 1 452 746 | 1 504 097 | 1 337 443 | 912 442   | 682 363   | 495 681 | 184 226     | <b>9 826 716</b>  |
| PERSONS |           |           |           |           |           |           |           |         |             |                   |
| 257 109 | 3 745 571 | 2 666 746 | 2 884 465 | 2 982 669 | 2 670 321 | 1 837 761 | 1 321 708 | 852 740 | 266 188     | <b>19 485 278</b> |

## 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 has been predominantly used since 1997 and will be used in future issues.

#### A3.1 ADJUSTED BIRTHS(a), By usual residence of mother

|                |         | STATE OR TERRITORY OF USUAL RESIDENCE..... |        |        |        |        |       |       |       |          |
|----------------|---------|--|--------|--------|--------|--------|-------|-------|-------|----------|
|                |         | NSW  | Vic.   | Qld    | SA     | WA     | Tas.  | NT    | ACT   | Aust.(b) |
| Live births    | Males   | 43 519                                     | 29 943 | 24 377 | 8 725  | 12 324 | 3 372 | 1 996 | 1 995 | 126 273  |
|                | Females | 41 039                                     | 28 683 | 23 301 | 8 539  | 11 664 | 3 050 | 1 823 | 1 943 | 120 059  |
| Stillbirths(c) | Males   | 195  | 188    | 158    | 43     | 72     | 9     | 10    | 11    | 686      |
|                | Females | 180  | 142    | 133    | 58     | 55     | 9     | 12    | 15    | 604      |
| Total          | Males   | 43 714                                     | 30 131 | 24 535 | 8 768  | 12 396 | 3 381 | 2 006 | 2 006 | 126 959  |
|                | Females | 41 219                                     | 28 825 | 23 434 | 8 597  | 11 719 | 3 059 | 1 835 | 1 958 | 120 663  |
|                | Persons | 84 933                                     | 58 956 | 47 969 | 17 365 | 24 115 | 6 440 | 3 841 | 3 964 | 247 622  |

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

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

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

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

|                |         | AGE OF MOTHER (YEARS)..... |        |        |        |        |             |            |         |
|----------------|---------|----------------------------|--------|--------|--------|--------|-------------|------------|---------|
|                |         | Under 20                   | 20–24  | 25–29  | 30–34  | 35–39  | 40 and over | Not stated | Total   |
| Live births    | Males   | 5 992                      | 19 102 | 37 752 | 40 933 | 18 758 | 3 658       | 78         | 126 273 |
|                | Females | 5 707                      | 18 097 | 35 941 | 38 836 | 17 964 | 3 440       | 74         | 120 059 |
| Stillbirths(b) | Males   | 77                         | 113    | 160    | 188    | 107    | 35          | 6          | 686     |
|                | Females | 45                         | 96     | 160    | 159    | 110    | 25          | 9          | 604     |
| Total          | Males   | 6 069                      | 19 215 | 37 912 | 41 121 | 18 865 | 3 693       | 84         | 126 959 |
|                | Females | 5 752                      | 18 193 | 36 101 | 38 995 | 18 074 | 3 465       | 83         | 120 663 |
|                | Persons | 11 821                     | 37 408 | 74 013 | 80 116 | 36 939 | 7 158       | 167        | 247 622 |

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

(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..... |                |                | STILLBIRTHS(b)..... |                |                | TOTAL.....   |                |                |
|------|------------------|----------------|----------------|---------------------|----------------|----------------|--------------|----------------|----------------|
|      | <i>Males</i>     | <i>Females</i> | <i>Persons</i> | <i>Males</i>        | <i>Females</i> | <i>Persons</i> | <i>Males</i> | <i>Females</i> | <i>Persons</i> |
| 1991 | 131 955          | 125 274        | 257 229        | 868                 | 790            | 1 658          | 132 823      | 126 064        | 258 887        |
| 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        |
| 2000 | 128 166          | 121 429        | 249 595        | 692                 | 611            | 1 303          | 128 858      | 122 040        | 250 898        |
| 2001 | 126 273          | 120 059        | 246 332        | 686                 | 604            | 1 290          | 126 959      | 120 663        | 247 622        |

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

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

**500 GRAMS/22 WEEKS GESTATION**

Table A3.4 contains births data used in the calculation of perinatal death rates based on the WHO definition of 500 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..... |                |                | STILLBIRTHS(b)..... |                |                | TOTAL.....   |                |                |
|------|------------------|----------------|----------------|---------------------|----------------|----------------|--------------|----------------|----------------|
|      | <i>Males</i>     | <i>Females</i> | <i>Persons</i> | <i>Males</i>        | <i>Females</i> | <i>Persons</i> | <i>Males</i> | <i>Females</i> | <i>Persons</i> |
| 1991 | 131 941          | 125 253        | 257 194        | 777                 | 701            | 1 478          | 132 718      | 125 954        | 258 672        |
| 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        |
| 2000 | 128 139          | 121 406        | 249 545        | 570                 | 506            | 1 076          | 128 709      | 121 912        | 250 621        |
| 2001 | 126 241          | 120 029        | 246 270        | 543                 | 506            | 1 049          | 126 784      | 120 535        | 247 319        |

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

(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 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 prevalent. Deaths from chronic conditions occur with a number of concurrent or coexisting conditions, whose initiating condition is often difficult to isolate. Some deaths, it has been postulated, cannot occur without the influence of more than one cause. The ability of the single underlying cause statistics alone to accurately summarise the mortality pattern of a population has, therefore, been questioned.

When only a single underlying cause is selected for tabulating cause-specific statistics, other information provided on the death certificate is lost, for instance, immediate cause of death, causes and conditions that intervene between the underlying and immediate causes of death and many other contributory causes that were involved, but did not directly influence the death. The information lost may be important to the understanding of the process of death. Since the introduction of multiple cause coding, data suggest that on average 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 response to this issue, ABS has from 1997 calendar year data coded and tabulated all causes and conditions reported on each death certificate using software developed by the National Center for Health Statistics (NCHS) of the United States of America. The NCHS software has three major components: MICAR (Medical Indexing, Classification and Retrieval System), ACME (Automatic Classification of Medical Entities) and TRANSAX (Translation of Axes). These three components have been developed to read the textual entries and convert them into a file containing multiple causes of death in accordance with ICD coding rules.

MULTIPLE CAUSES OF DEATH STATISTICS *continued*

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

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

## 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 within Australia, namely, the introduction of the tenth revision of the International Classification of Diseases (ICD-10) for classifying deaths registered from 1 January 1999 and the introduction of the Automated Coding System (ACS) for processing deaths registered from 1 January 1997.

#### A5.1 INTRODUCTION OF AUTOMATED CODING AND ICD-10 .....

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

### TIMES SERIES

As a consequence of the coding of deaths registered in 1997 and 1998 to ICD-10 as well as ICD-9, there is now a single break in time series outlined in table A5.2 below.

#### A5.2 TIME SERIES .....

| <i>Years</i> | <i>Coding method</i> | <i>ICD revision</i> |
|--------------|----------------------|---------------------|
| 1979–1996    | Manual               | ICD-9               |
| 1997–onwards | Automated            | ICD-10              |

To support this single break in series table A5.3 provides concordances and comparability factors for all groupings in this publication. The concordance illustrates the conceptual differences between ICD-9 and ICD-10 classifications. The comparability factors are derived from the movements in the underlying causes of death coded in ICD-9 compared to ICD-10. Care should be taken for those groupings with very small numbers. These groupings have been annotated with an asterisk (\*).

TIMES SERIES *continued*

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

## COMPARISON OF NINTH AND TENTH REVISIONS OF ICD

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

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.

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

**A5.3 CONCORDANCE AND COMPARABILITY FACTORS**

| <i>Cause of death</i>                                | <i>ICD-10 code</i> | <i>ICD-9 code</i> | <i>Comparability factor</i> |
|--|--------------------|-------------------|-----------------------------|
| <b>All causes</b>                                    | <b>A00–Y98</b>     | <b>001–999</b>    | <b>1.00</b>                 |
| Chapter I Certain infectious and parasitic diseases  | A00–B99            | 001–139           | 1.25                        |
| Septicaemia  | A40, A41           | 038               | 1.28                        |
| Human immunodeficiency virus (HIV) disease           | B20–B24            | 042–044           | 1.03                        |
| Chapter II Neoplasms                                 | C00–D48            | 140–239           | 1.00                        |
| Malignant neoplasms                                  | C00–C97            | 140–208           | 1.00                        |
| Digestive organs                                     | C15–C26            | 150–157, 159      | 0.99                        |
| Oesophagus   | C15                | 150               | 1.00                        |
| Stomach  | C16                | 151               | 0.99                        |
| Colon  | C18                | 153               | 0.98                        |
| Rectosigmoid junction, rectum, anus and anal canal   | C19–C21            | 154               | 0.98                        |
| Liver and intrahepatic bile ducts                    | C22                | 155               | 1.07                        |
| Pancreas   | C25                | 157               | 0.99                        |
| Respiratory and intrathoracic organs                 | C30–C39            | 160–165           | 0.94                        |
| Trachea, bronchus and lung                           | C33, C34           | 162               | 0.97                        |
| Melanoma of skin                                     | C43                | 172               | 0.98                        |
| Breast   | C50                | 174, 175          | 0.98                        |
| Female genital organs                                | C51–C58            | 179–184           | 0.99                        |
| Ovary  | C56                | 1830              | 0.98                        |
| Male genital organs                                  | C60–C63            | 185–187           | 0.99                        |
| Prostate   | C61                | 185               | 0.98                        |
| Urinary tract  | C64–C68            | 188, 189          | 0.96                        |
| Kidney, except renal pelvis                          | C64                | 1890              | 0.96                        |
| Bladder  | C67                | 188               | 0.95                        |
| Eye, brain and other parts of central nervous system | C69–C72            | 190–192           | 0.97                        |
| Brain  | C71                | 191               | 0.97                        |

**A5.3 CONCORDANCE AND COMPARABILITY FACTORS** *continued*

| <i>Cause of death</i>   | <i>ICD-10 code</i>                            | <i>ICD-9 code</i>                             | <i>Comparability factor</i> |
|---|---|---|-----------------------------|
| <i>Malignant neoplasms continued</i>  |   |   |                             |
| Lymphoid, haematopoietic and related tissue   | C81–C96                                       | 200–208                                       | 0.97                        |
| Leukaemia   | C91–C95                                       | 204–208                                       | 0.94                        |
| In situ and benign neoplasms and neoplasms of uncertain or unknown behaviour                                    | D00–D48                                       | 210–239                                       | 1.18                        |
| Chapter III Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism | D50–D89                                       | 279, 280–289                                  | 1.07                        |
| Chapter IV Endocrine, nutritional and metabolic diseases  | E00–E90                                       | 240–278                                       | 1.01                        |
| Diabetes mellitus   | E10–E14                                       | 250   | 0.99                        |
| Chapter V Mental and behavioural disorders  | F00–F99                                       | 290–319                                       | 0.78                        |
| Psychoactive substance use  | F10–F19                                       | 291, 292, 303, 304, 305                       | 1.09                        |
| Organic, including symptomatic, mental disorders  | F00–F09                                       | 290   | 1.45                        |
| Chapter VI Diseases of the nervous system   | G00–G99                                       | 320–359                                       | 1.20                        |
| Extrapyramidal and movement disorders   |   |   |                             |
| Alzheimer's disease   | G30   | 3310  | 1.48                        |
| 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 Diseases of the circulatory system   | I00–I99                                       | 390–459                                       | 1.00                        |
| All heart disease   | I05–I09, I11, I13, I20–I25, I26, I27, I30–I52 | 393–398, 402, 404, 410–414, 415, 416, 420–429 | 1.01                        |
| Acute rheumatic fever and chronic rheumatic heart diseases  | I00–I09                                       | 390–398                                       | 0.69                        |
| Hypertensive diseases   | I10–I15                                       | 401–405                                       | 1.00                        |
| Ischaemic heart diseases  | I20–I25                                       | 410–414                                       | 1.01                        |
| Acute myocardial infarction   | I21   | 410   | 0.96                        |
| Pulmonary heart disease and diseases of pulmonary circulation and other forms of heart disease                  | I26–I52                                       | 415–429                                       | 1.06                        |
| Cerebrovascular diseases  | I60–I69                                       | 430–438                                       | 0.97                        |
| Diseases of arteries, arterioles and capillaries  | I70–I79                                       | 440–448                                       | 0.97                        |
| Atherosclerosis   | I70   | 440   | 0.98                        |
| Aortic aneurysm   | I71   | 441   | 0.97                        |
| Chapter X Diseases of the respiratory system  | J00–J99                                       | 460–519                                       | 0.91                        |
| Influenza and pneumonia   | J10–J18                                       | 480–487                                       | 0.87                        |
| Chronic lower respiratory diseases  | J40–J47                                       | 490–496                                       | 0.91                        |
| Emphysema   | J43   | 492   | 0.86                        |
| Asthma and status asthmaticus   | J45, J46                                      | 493   | 0.75                        |
| Chapter XI Diseases of the digestive system   | K00–K93                                       | 520–579                                       | 1.05                        |
| Diseases of oesophagus, stomach and duodenum  | K20–K31                                       | 530–537                                       | 1.04                        |
| Gastric and duodenal ulcer  | K25–K27                                       | 531–533                                       | 0.99                        |
| Diseases of liver   | K70–K77                                       | 570–573                                       | 1.02                        |
| Chapter XII Diseases of the skin and subcutaneous tissue  | L00–L99                                       | 680–709                                       | 1.06                        |
| Chapter XIII Diseases of the musculoskeletal system and connective tissue                                       | M00–M99                                       | 710–739                                       | 1.15                        |
| Arthropathies and systemic connective tissue disorders  | M00–M36                                       | 710–719                                       | 1.19                        |



**A5.3 CONCORDANCE AND COMPARABILITY FACTORS** *continued*

| <i>Cause of death</i>   | <i>ICD-10 code</i> | <i>ICD-9 code</i> | <i>Comparability factor</i> |
|---|--------------------|-------------------|-----------------------------|
| Chapter XIV Diseases of the genitourinary system  | N00–N99            | 580–629           | 1.14                        |
| Renal failure   | N17–N19            | 584–586           | 1.05                        |
| Chapter XV Pregnancy, childbirth and the puerperium   | O00–O99            | 630–676           | *                           |
| Chapter XVI Certain conditions originating in the perinatal period                                    | P00–P96            | 760–779           | 0.96                        |
| Disorders related to short gestation and low birthweight, not elsewhere classified                    | P07                | 765               | *                           |
| Infections specific to the perinatal period   | P35–P39            | 771               | *                           |
| Haemorrhagic and haematological disorders of fetus and newborn  | P50–P61            | 772–774, 776      | *                           |
| Chapter XVII Congenital malformations, deformations and chromosomal abnormalities                     | Q00–Q99            | 740–759           | 1.03                        |
| Congenital malformations of the nervous system  | Q00–Q07            | 740–742           | 1.00                        |
| Congenital malformations of the circulatory system  | Q20–Q28            | 745–747           | 1.12                        |
| Congenital malformations of the respiratory system  | Q30–Q34            | 748               | 0.90                        |
| Chapter XVIII Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified | R00–R99            | 780–799           | 0.76                        |
| Sudden infant death syndrome  | R95                | 7980              | 0.94                        |
| Chapter XX External causes of morbidity and mortality   | V01–Y98            | E800–E999         | 1.06                        |
| Accidents   | V01–X59            | E800–E949         | 1.05                        |
| Transport accidents   | V01–V99            | E800–E848         | 1.03                        |
| Falls   | W00–W19            | E880–E886, E888   | 1.10                        |
| Accidental drowning and submersion  | W65–W74            | E910              | 1.03                        |
| Intentional self-harm   | X60–X84            | E950–E959         | 0.97                        |
| Hanging, strangulation and suffocation  | X70                | E953              | 0.97                        |
| Assault   | X85–Y09            | E960–E969         | 1.02                        |

## INTRODUCTION

In 2001, there were 2,063 deaths registered where the 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 identified as Indigenous. Therefore, the number of Indigenous deaths registered in 2001 is an underestimate of the actual number of 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 cultural issues associated with identifying as Indigenous.

There are three estimates of the number of Indigenous deaths reproduced in table A6.1. Each is based on a different collection, with a different propensity to identify as Aboriginal and Torres Strait Islander:

- Deaths registered as Indigenous: This publication is based on the registration of deaths by each State or Territory 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 2001 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 attitudes Indigenous people may 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.

**A6.1 DEATHS OF INDIGENOUS PEOPLE, Summary**

| Year  | NSW   | Vic. | Qld   | SA  | WA  | Tas. | NT  | ACT | Aust.(a) |
|---|-------|------|-------|-----|-----|------|-----|-----|----------|
| DEATHS REGISTERED AS INDIGENOUS   |       |      |       |     |     |      |     |     |          |
| 1991  | 206   | 50   | —     | 135 | 401 | np   | 412 | np  | 1 208    |
| 1992  | 165   | 53   | —     | 107 | 346 | np   | 397 | np  | 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    |
| 2000  | 473   | 108  | 535   | 144 | 407 | 8    | 450 | np  | 2 127    |
| 2001  | 481   | 93   | 565   | 125 | 336 | 32   | 429 | np  | 2 063    |
| PROJECTED INDIGENOUS DEATHS<br>(1991 Census-based experimental projections)(b)            |       |      |       |     |     |      |     |     |          |
| 1996  | 528   | 114  | 613   | 128 | 390 | 56   | 379 | 10  | 2 220    |
| 1997  | 537   | 116  | 623   | 131 | 394 | 57   | 386 | 11  | 2 257    |
| 1998  | 547   | 118  | 634   | 133 | 400 | 59   | 391 | 11  | 2 295    |
| 1999  | 556   | 121  | 644   | 135 | 406 | 61   | 397 | 12  | 2 334    |
| 2000  | 567   | 123  | 655   | 137 | 411 | 62   | 404 | 13  | 2 374    |
| 2001  | 578   | 125  | 667   | 140 | 418 | 63   | 411 | 13  | 2 417    |
| PROJECTED INDIGENOUS DEATHS<br>(1996 Census-based experimental estimates and projections) |       |      |       |     |     |      |     |     |          |
| 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    |
| 2000(d)   | 1 035 | 225  | 983   | 208 | 529 | 139  | 491 | 22  | 3 634    |
| 2001(d)   | 1 060 | 228  | 1 007 | 212 | 540 | 144  | 502 | 24  | 3 719    |
| ESTIMATED COVERAGE OF INDIGENOUS DEATHS<br>(1991 Census-based)(%)                         |       |      |       |     |     |      |     |     |          |
| 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       |
| 2000  | 83    | 88   | 82    | 105 | 99  | 13   | 111 | np  | 90       |
| 2001  | 83    | 74   | 85    | 89  | 80  | 51   | 104 | np  | 85       |
| ESTIMATED COVERAGE OF INDIGENOUS DEATHS<br>(1996 Census-based)(%)                         |       |      |       |     |     |      |     |     |          |
| 1996  | 19    | 23   | 29    | 62  | 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       |
| 2000  | 46    | 48   | 54    | 69  | 77  | 6    | 92  | np  | 59       |
| 2001  | 45    | 41   | 56    | 59  | 62  | 22   | 85  | np  | 55       |

(a) Includes 'Other Territories' from 1993.

(b) Source: *Experimental Projections of the Aboriginal and Torres Strait Islander Population, 30 June 1991–30 June 2001* (cat. no. 3231.0), medium series.(c) Source: *Experimental Estimates of the Aboriginal and Torres Strait Islander Population, 1991–1996* (cat. no. 3230.0), data available on request.(d) Source: *Experimental Projections of the Aboriginal and Torres Strait Islander Population, 1996–2006* (cat. no. 3231.0), low series.

## INDIGENOUS STATUS

As can be seen from the information in Table A6.1 there is undercoverage of Indigenous deaths to some extent in all states and territories, which means the measures of mortality presented here are likely to be conservative estimates. In addition to those deaths identified as Indigenous, a number of deaths occur each year where the Indigenous status is not stated, as can be seen in Table A6.2. There were 5,731 deaths registered in Australia in 2001, representing 4.5% of total deaths, for which the Indigenous status was not stated. There is a likelihood that some Indigenous deaths would be included in this number, contributing to the undercoverage of Indigenous mortality in registered deaths data. Fluctuations in the level of Indigenous mortality over time partly reflect changing levels of identification and coverage of indigenous deaths. Given the volatility in measures of Indigenous mortality caution should be exercised in assessing trends in Indigenous mortality over time. The proposed ABS information paper *Experimental Estimates and Projections of Indigenous Australians, 1991 to 2016* (cat. no. 3238.0) will include analysis of these data quality issues and their impact on the interpretation of trends of these data.

**A6.2 DEATHS, Indigenous status, States and territories, 2001**

|                              | <i>Non indigenous</i> | <i>Indigenous</i> | <i>Not stated</i> | <i>Total</i>   |
|------------------------------|-----------------------|-------------------|-------------------|----------------|
| New South Wales              | 42 598                | 481               | 1 473             | 44 552         |
| Victoria                     | 28 893                | 93                | 3 309             | 32 295         |
| Queensland                   | 22 003                | 565               | 288               | 22 856         |
| South Australia              | 11 444                | 125               | 322               | 11 891         |
| Western Australia            | 10 265                | 336               | 178               | 10 779         |
| Tasmania                     | 3 693                 | 32                | 151               | 3 876          |
| Northern Territory           | 436                   | 429               | 7                 | 872            |
| Australian Capital Territory | 1 414                 | n.p.              | n.p.              | 1 419          |
| <b>Australia(a)</b>          | <b>120 750</b>        | <b>2 063</b>      | <b>5 731</b>      | <b>128 544</b> |

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

## 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.

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. The inclusion of deaths under one would bias the YPLL calculation because of the relatively high mortality rate for that age and 76 was the median age at death when this series of YPLL was calculated using 1991 as the standard year. As shown below the calculation uses a standard population which is the 1991 census. This standard is revised every 10 years and next years YPLL will be calculated on the basis of the 2001 census.

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.

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:

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

where:

$N$  = number of persons aged 1–75 years in the 2001 population

$N_x$  = number of persons aged  $x$  years in the 2001 population

$N_{xs}$  = 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.

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

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

- *Standardised death rates* enable the comparison of death rates between populations with different age structures by relating them to a standard population, in this case all persons in the 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 1.3 and 1.5.
- *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 table 1.2.

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

- for fetal deaths and total perinatal deaths, the rates represent the number of deaths per 1,000 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 6–8).

|  |   |
|--|---|
| <b>Multiple causes of death</b>            | 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. |
| <b>Neonatal death</b>                      | 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).  |
| <b>Perinatal death</b>                     | A perinatal death is a fetal death or neonatal death. (A birthweight criterion applies. See Explanatory Notes, paragraphs 4–6).   |
| <b>Period of gestation</b>                 | 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.  |
| <b>Stillbirth</b>                          | See Fetal death.  |
| <b>Underlying cause of death</b>           | 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.  |
| <b>Years of potential life lost (YPLL)</b> | 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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