

A SOCIAL HEALTH ATLAS OF AUSTRALIA

Second Edition

Volume 2: New South Wales

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 **Public Health Information Development Unit**

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Foreword

The publication of this second edition of ***A Social Health Atlas of Australia*** brings together a wide range of information about the health status of Australians by region, and the health service use by the Australian population.

By presenting the data as maps, the atlas provides a graphical image of the distribution of health status, and differences in the patterns and levels of access to and use of health services at the local level throughout the cities, towns, and rural and remote areas of Australia. The format of the atlas makes the information easy to understand and readily accessible to a broad group of users, including public health planners, providers, researchers, students and the general public.

The graphs of the newly developed Accessibility/Remoteness Index for Australia (ARIA) provide useful information for communities, as well as practitioners and managers in the health sector, to better understand the differences in the statistics that describe health status and health service use.

This data is essential for policy development and local area planning, and for monitoring and evaluating health services. It is also of major importance for resource allocation at the broadest level, and between areas, services and population groups. The maps and tabulations presented in this atlas represent a major compilation of information for these purposes.

I congratulate all those who have contributed to this important project.



Dr Michael Wooldridge
The Minister for Health and Aged Care

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Executive summary

The information in this atlas adds to a convincing body of evidence built up over a number of years in Australia on the striking disparities in health that exist between groups in the population. People of low socioeconomic status (those who are relatively socially or economically deprived) experience worse health than those of higher socioeconomic status for almost every major cause of mortality and morbidity. The challenge for policy makers, health practitioners and governments is to find ways to address these health inequities.

The primary aims of the first edition of *A Social Health Atlas of Australia* were to illustrate the spatial distribution of the socioeconomically disadvantaged population, and to compare this with patterns of distribution of major causes of illness and death and use of health services. The maps and correlation analysis highlighted associations between social and economic factors in relation to health and illness.

A number of new variables have been included in this second edition, together with new data on many of the variables from the first edition. One of the additions is the presentation of data by the new Accessibility/Remoteness Index of Australia (ARIA). Also included is a cluster analysis, providing profiles at the Statistical Local Area (SLA) level of the socioeconomic status, health status and health service utilisation of the population.

The extent of change (between the editions) in the patterns of distribution in death rates by socioeconomic status is also highlighted.

There is clear evidence in the data of an association at the SLA level between high premature death rates (both for deaths from all causes and from most specific causes) and socioeconomic disadvantage, as measured by the IRSD. These associations are generally evident not only between the most advantaged (Quintile 1) and disadvantaged areas (Quintile 5), but also at each of the intervening levels of socioeconomic status (Quintiles 2 to 4) (**Figures 9.2 and 9.4**).

Similarly, there are associations between socioeconomic disadvantage and high rates of use of general medical practitioner services in the major urban centres, and for most of the variables for hospital admission in both the major urban centres and the non-metropolitan areas of New South Wales (**Figures 9.4 and 9.5**). The gradients for admissions by socioeconomic status of area are particularly strong in the non-metropolitan SLAs.

It is also clear that, despite an overall improvement in death rates from all causes and for all of the specific causes studied (with the exception of the 'other causes' group) for **Sydney, Newcastle** and **Wollongong** (**Table 9.2, Figure 9.6**), these improvements have not resulted in any significant reduction in the disparities evident in death rates between residents of the most well off areas and those in the poorest areas. In fact, for all but infant deaths and deaths from the external causes of accidents, poisonings and violence, the gap in death rates has increased (**Figure 9.6**).

Correlation analysis

There were correlations of significance at the SLA level between the indicators of socioeconomic disadvantage drawn from the 1996 Population Census (Chapter 3) and a number of the health status variables. In **Sydney**, the strongest of these were generally with the variables for people reporting their health as fair or poor (as opposed to those reporting their health as being excellent, very good, or good); the Physical Component Summary (PCS, a measure of physical health); the handicap status of the population; and premature deaths from circulatory and respiratory system diseases (**Table 8.1**). Similarly strong associations were evident in the correlation analysis with the variables for the use of GP services by males and females; and of admissions to hospital for circulatory and respiratory system diseases, and admissions to a public hospital.

There were fewer correlations of significance at the SLA level in the non-metropolitan areas of New South Wales than was the case in **Sydney**. This is, in part, a result of the number of areas with relatively small numbers of cases (population, deaths, hospital admissions, etc.) which reduces the strength of the analysis. However a number of variables are highly correlated with each other: these are the variables for low income families, unemployed people, Indigenous Australians, people born in non-English speaking countries, people with poor proficiency in English and dwellings without a vehicle.

Various sub-sets of these indicators of socioeconomic disadvantage are correlated with indicators of health status and use of health services. The strongest correlations with the measures of socioeconomic disadvantage were with the variables for people reporting their health as fair or poor, and the PCS. There was a consistent although weaker association between socioeconomic disadvantage and the variables for deaths of males; hospital admissions of males and females; and hospital admissions from circulatory and respiratory system diseases.

There was a correlation of substantial significance at the SLA level between high proportions of the Indigenous population and the variable for years of potential life lost (the summary measure of premature death). There were also correlations of substantial significance with high rates of admission to hospital (the total of public and private hospitals); admissions to a public hospital; admissions from the combined causes of accidents, poisonings and violence; and admissions for neuroses.

Changes over time in socioeconomic status

Marked variations were recorded between 1986 and 1996 for a majority of the socioeconomic status variables mapped for New South Wales (**Table 9.1**). For **Sydney**, the largest increases were for the population of Aboriginal and Torres Strait Islander people (an increase of 85.3 per cent over this ten year period); the occupational grouping of managers and administrators, and professionals (41.3 per cent); people born overseas in

predominantly non-English speaking countries: an increase of 41.2 per cent for those resident for five years or more, of 33.2 per cent for those resident for less than five years, and of 36.0 per cent for those with poor proficiency in English; single parent families (30.3 per cent); low income families (29.8 per cent); and housing authority rented dwellings (23.0 per cent). The largest decreases recorded over this ten year period were for the variables for unemployment among 15 to 19 year olds (down by 26.5 per cent) and early school leavers (down by 17.8 per cent).

Variations of this order were also recorded in the non-metropolitan areas of New South Wales. The major differences from the changes noted for **Sydney** were larger increases in the population aged 65 years and over, single parent families and dwellings without a motor vehicle; and smaller increases for the occupations of managers and administrators and professionals, Indigenous people, each of the three variables for people born overseas in predominantly non-English speaking countries, and housing authority rented dwellings.

Changes over this period for the major urban centres of **Newcastle** and **Wollongong** were relatively consistent, with the exception of the population aged from 0 to 4 years, unemployment (all ages), the three variables for people born overseas in predominantly non-English speaking countries, housing authority rented dwellings and dwellings without a motor vehicle: the change recorded for these variables varied between the two cities. The changes in **Newcastle** and **Wollongong** were generally consistent with those recorded for **Sydney** (and frequently showed larger increases), other than for the variable for the population aged 65 years and over and the three variables for people born overseas in predominantly non-English speaking countries (which all recorded lower increases).

Substantial variations were recorded in income support payments to residents of **Sydney** for all of the payment types analysed (Disability Support pension, Sole Parent Pension and unemployment benefits), other than the Age Pension, for which there was a small decrease (a decrease of 4.1 per cent). The number of recipients for each of the other payment types increased substantially, with the number of disability support pensioners doubling (an increase of 100 per cent) and similar increases occurring for dependent children (68.6 per cent) and disability support pensioners (65.7 per cent) (**Table 9.1**). Similar, although smaller increases were recorded in the non-metropolitan areas of New South Wales for all of these income support payments other than the Age Pension, for which there was a much smaller increase (5.8 per cent). The increases in **Newcastle** and **Wollongong** were more in line with those recorded for the non-metropolitan areas of the State than with those in **Sydney**.

Changes over time in death rates

Death rates in New South Wales have declined over the years 1985 to 1989 and 1992 to 1995 for the majority of causes studied.

In **Sydney**, the largest decreases were recorded in the infant death rate (down by 34.4 per cent); and for deaths of people aged from 15 to 64 years from circulatory system diseases (-42.2 per cent), respiratory system diseases (-30.7 per cent) and accidents, poisonings and violence (-28.9 per cent). All causes

mortality was 25.4 per cent lower over this period, marginally more so for males than for females.

There were reductions in death rates for each of the causes studied for **Newcastle** and **Wollongong**, with the decreases being generally more pronounced in **Wollongong**.

There were also reductions in rates of premature death in the non-metropolitan areas of New South Wales for all but cancer (for which there was a slight increase). However the reductions were all lower than those recorded for **Sydney**, at around half (52.4 per cent) for all cause mortality.

Differences in health by socioeconomic status of area of residence

Comparisons are made of differences in the health status and health service use of the population by socioeconomic status. In the absence of any direct measure of socioeconomic status in the health status data, the socioeconomic status of the SLA of usual residence in the health status records is used. In this analysis socioeconomic status is measured by the Index of Relative Socio-Economic Disadvantage (IRSD, see page 17). The SLAs in the major urban centres of **Sydney**, **Newcastle** and **Wollongong** have been grouped into five groups (quintiles) based on the IRSD score, with Quintile 1 comprising the twenty per cent of SLAs with the highest IRSD scores, and Quintile 5 comprising the twenty per cent of SLAs with the lowest IRSD scores.

Health status by socioeconomic status of area of residence

Although there is some variability across the quintiles, the pattern is always for the highest socioeconomic status SLAs (those in Quintile 1) to have the most advantageous (ie. in the majority of cases the lowest) rates and, generally, for the most disadvantaged SLAs (those in Quintile 5) to have the highest rates. The exception is the Physical Component Summary, for which low scores indicate poorer health (**Figure 9.2**).

Years of potential life lost (YPLL) from deaths between the ages of 15 to 64 years varied from a standardised ratio (SR) in the most advantaged areas of 72 (28 per cent fewer YPLL than were expected from the New South Wales State rates) to an SR of 122 in the most disadvantaged areas (indicating that there were 22 per cent more YPLL than were expected from the State rates). Large differentials were also evident for deaths of 15 to 64 year old males (from an SDR of 74 in Quintile 1 to 127 in Quintile 5) and deaths of 15 to 64 years olds from lung cancer (70 to 124), circulatory system diseases (66 to 117) and respiratory system diseases (61 to 124).

The most notable differences from the gradients evident for **Sydney** and the other major urban centres are deaths from the external causes of accidents, poisonings and violence (for the 15 to 64 year age group, the ratios are less consistent, and for the 15 to 24 year group are substantially different) and for the Total Fertility Rate (which shows little association in the non-metropolitan areas with socioeconomic status) (**Figure 9.4**).

Health service utilisation by socioeconomic status of area of residence

Although there is some variability across the quintiles for the health service utilisation variables for SLAs in **Sydney, Newcastle** and **Wollongong**, the pattern is generally for the most advantaged SLAs (those in Quintile 1) to have the lowest rates of admission, and for the most disadvantaged SLAs (those in Quintile 5) to have the highest rates. The exceptions include the variables for admissions to a private hospital, for all cancers and for breast cancer of females aged 40 years and over, and for the surgical procedures of myringotomy, hip replacement and endoscopy. Others, including the variables for admissions for psychosis and same day admissions for a surgical procedure, reveal a less consistent pattern (**Figure 9.3**).

The main differences from the gradients evident for **Sydney** and the other major urban centres are for the variables for GP services to males and females and for admissions to a private hospital and admissions for cancer; breast cancer; psychosis; neurotic, personality and other mental disorders; and for a myringotomy (**Figure 9.5**).

Changes over time in health status by socioeconomic status of area of residence

As noted above, there has been an overall decrease in death rates in New South Wales; there are also differentials in death rates by socioeconomic status of area. It is possible to examine the extent of the change in death rates by socioeconomic status of area. As data was not available for non-metropolitan SLAs in the first edition of the atlas, the following comparisons have been limited to **Sydney, Newcastle** and **Wollongong**.

With the exception of the 'other' causes group (for which there was an increase in death rates in each quintile, other than Quintile 4), death rates in **Sydney, Newcastle** and **Wollongong** declined between 1985-89 and 1992-95 for all of the causes of death studied, both overall and in each quintile of socioeconomic status of area.

It is clear, however, that despite the overall decline, the strong gradient in death rates between the quintiles remains. In fact, the differential in death rates for male residents aged from 15 to 64 years between Quintile 1 (the most advantaged areas) and Quintile 5 (the most disadvantaged areas) increased, from 1.71 times higher in the most disadvantaged areas in 1985-89 to 1.87 times higher in 1992-95. Similar differentials occur for other deaths variables studied.

For females, overall death rates decreased to a similar extent to those for males, and the differential in death rates for female residents aged from 15 to 64 years between Quintile 1 and Quintile 5 also increased, from 1.38 times higher in the most disadvantaged areas in 1985-89 to 1.45 times higher in 1992-95.

Infant death rates declined by around one third (34.4 per cent and 34.1 per cent) in **Sydney** and **Wollongong** respectively between 1985-89 and 1992-95 (and by 12.8 per cent in **Newcastle**), and the differential in rates between Quintile 1 and Quintile 5 also declined, from 1.31 times higher in the most disadvantaged areas in 1985-89 to 1.18 times higher in 1992-95.

Despite a decline in death rates of the 15 to 64 year old population for all cancers and lung cancer (with a larger decline), the differential in rates between Quintile 1 and Quintile 5 increased, from 1.38 times higher in the most disadvantaged areas in 1985-89 to 1.45 times higher in 1992-95 for cancer, and from 1.78 to 2.14 for lung cancer.

The overall decline in death rates for deaths of 15 to 64 year olds from circulatory system diseases was the highest among the causes of death studied, at over 40 per cent in **Sydney** and one third in **Newcastle** and **Wollongong**. The differential in rates between Quintile 1 and Quintile 5 increased from 1.80 times higher in the most disadvantaged areas in 1985-89 to 2.03 times higher in 1992-95.

The gradients in deaths rates from respiratory system diseases across the quintiles of socioeconomic status of area of residence in **Sydney, Newcastle** and **Wollongong** are particularly strong over both periods. In 1985-89, the differential between Quintiles 1 and 5 was 2.20; by 1992-95 this had increased (by 17.4 per cent) to 2.58. This was the largest differential for any of the causes studied.

Death rates of 15 to 64 year old people from the external causes of accidents, poisonings and violence are also highest in the most disadvantaged areas of **Sydney, Newcastle** and **Wollongong**. Unlike most of the other variables described above, the differential in 1992-95 is marginally smaller than in 1985-89 (down from 1.42 to 1.40). This is a result of the larger declines in death rates in Quintiles 2 (the largest, down by 31.7 per cent), 4 (-27.5 per cent) and 5 (-27.0 per cent).

Death rates for 15 to 24 year olds from these external causes show a different pattern. Although rates are down strongly in all quintiles, there is little difference in the rates between Quintiles 1, 2 and 5, although the rate in Quintile 5 is marginally the highest.

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Using the *Social Health Atlas*

The social health atlas package

This second edition of *A Social Health Atlas of Australia* comprises:

- this volume for New South Wales and a companion volume (Volume 2.1) containing the data mapped (the numbers and rate/ratio/percentages on which the maps are based); and
- similar volumes for each of the other States and Territories and a separate atlas for Australia as a whole (each of these atlases also has a companion volume containing the data mapped).

Some of the data from the atlas are also available on the **HealthWIZ** statistics database product, which comprises comprehensive health statistics from Australia's hospital systems, cause of death registries, population censuses, cancer registries, Medicare and income support system, as well as details of aged care and child care.

This volume contains general background information to the atlas, as well as maps of selected variables showing patterns of socioeconomic status, health status and health and welfare service use at a small area level. Each of these maps is accompanied by a commentary.

The text and maps can also be downloaded for reading and printing from the Public Health Information Development Unit World Wide Web site at www.publichealth.gov.au. The text (including the maps and graphs) and datasets on which the maps are based are available on CD-ROM (for Windows). Further details are in Appendix 1.1, *Project Resources and Output*.

Content

The atlas has nine chapters, an appendix, a bibliography and an index. The chapters are:

- 1 Introduction
- 2 Methods
- 3 Demography and socioeconomic status
- 4 Income support payments
- 5 Health status
- 6 Utilisation of health services
- 7 Availability of selected health services
- 8 Statistical analysis
- 9 Summary

Chapters 1 and 2 provide an overview of the atlas and the approach taken in analysing and mapping data. These sections contain important information on the limitations of the mapped data. The Appendix provides additional background information, and the *Glossary*, at the end of this section, defines some of the terms used.

Chapters 3 to 7 each provide an introduction to the topic(s) being mapped, as well as the maps and associated commentary.

Chapter 8 shows the results of the correlation and cluster analyses. Chapter 9 presents details of the major changes noted in the data between this second and the first edition, as well as some summary measures of the health differentials calculated from the health status and health service utilisation data mapped in Chapters 5 and 6.

Using the atlas

Some people will use the atlas as a reference source, either going to particular maps (eg. of hospital surgical procedures), or using the index to find a particular topic (eg. deaths from circulatory system diseases) or variable (eg. tonsillectomy).

Others may choose to examine the correlation matrices and to then view the maps for variables for which the data are highly correlated. Or they may access the data in a spreadsheet and re-group the SLAs to suit their own purpose, recalculating the percentages or standardised ratios to represent the new spatial groupings.

To assist users in reading the maps, the layout of the two map types used most frequently is described below. The more detailed discussion in Chapter 2 on the way in which the data have been analysed and presented is, however, important in terms of gaining an understanding of how best to use the data and maps in this atlas. Users of the atlas are particularly encouraged to read this chapter to ensure they are aware of the deficiencies in the datasets presented, as well as in the mapping approach used.

Map of Sydney, Newcastle and Wollongong

Area mapped

The area mapped is the Statistical Division of **Sydney** (generally known as the capital city area) and the Statistical Subdivisions of **Newcastle** and **Wollongong**. These latter two areas are referred to as 'other major urban centre': together with **Sydney**, they comprise the three major urban centres (urban centres with a population of 100,000 or more) in New South Wales. The spatial unit mapped is the Statistical Local Area (SLA).

Additional details, including key maps to assist in the location and identification of particular SLAs, are in *Appendix 1.2*: a set of clear film overlays to assist in this process is included in a pocket inside the back cover of this atlas.

Data measures mapped

The map sub-title indicates the format in which the data are presented. In a majority of cases, data are mapped as either a percentage or age (or age-sex) standardised ratio (the process of standardisation is described in Appendix 1.3, *Analysis and presentation of data*). The exceptions are the maps, in Chapter 7, of the location of selected health services; the Index of Relative Socio-Economic Disadvantage mapped in Chapter 3; the infant death rate; and the Total Fertility Rate.

The legend shows the data ranges used to indicate the spatial distribution of the characteristic being mapped.

Footnotes on the map page draw attention to particular aspects of the mapped data and the source of data.

Description

The text associated with the maps provides background information on the variable being mapped and describes the pattern of distribution of the variable at the SLA level.

The commentary in the top section provides information about the topic being mapped, as well as a comparison between the capital cities and, where the data is available, refers to the situation reported in the first edition of the atlas. For variables where the data are age (or age-sex) standardised, these comparisons are made across Australia (with Australia as the standard for comparison).

In the lower two thirds of the page, attention is drawn to other sources of information about the variable, or characteristics of the population under discussion. The pattern of distribution shown in the map is then described, and associations evident in the correlation analysis with other variables are noted. Users should note that in these descriptions, where data has been standardised, it has been re-calculated to a new standard – in this atlas, to the New South Wales State rates (rather than the Australian rates). This allows comparisons to be made between the rates for the SLAs within **Sydney**, **Newcastle** and **Wollongong**, and the New South Wales rates – ie. in effect the State average. This differs from the commentary on the top of the page, for which comparisons are made with the Australian rates.

Where the numbers of cases are relatively small (and, in particular, where these small numbers are associated with elevated rates), the absolute numbers are included in the commentary. The numbers (as well as the percentages, rates and ratios) are available in printed and electronic forms and should be used in conjunction with the information in this atlas.

Map of New South Wales: referred to as the ‘non-metropolitan areas’ of New South Wales

Area mapped

The spatial units mapped are again SLAs: however **Sydney**, **Newcastle** and **Wollongong** are each mapped as one area (ie. not by SLA) to enhance comparisons between these major urban centres and the non-metropolitan areas.

Towns with a population of 7,500 or more (but less than the urban centre cut-off of 100,000) are represented on the maps as circles. Unfortunately, data for many towns is not available for the datasets in the atlas (other than the Census data).

As noted above in relation to the map of **Sydney**, additional details are in *Appendix 1.2*: a set of clear film overlays to assist in the location and identification of particular SLAs is included in a pocket inside the back cover of this atlas.

Data measures mapped

See comments above concerning **Sydney**.

Description

Again, commentary in the top section provides information about the topic being mapped, as well as national comparisons, this

time comparing the ‘other’ major urban centres (those population centres of 100,000 or larger which are not capital cities) and the areas of Australia outside of the capital cities and other major urban centres. These regional/rural/remote areas are referred to in the text as ‘non-metropolitan areas’. Where the data are age (or age-sex) standardised, the standard is, again, Australia.

The lower two thirds of the page again draws attention to other sources of information about the variable, or characteristics of the population under discussion. The pattern of distribution shown in the map is then described, and associations evident in the correlation analysis with other variables are noted. Users should note that in these descriptions, where data has been standardised, it has been re-calculated to a new standard – in this atlas, to the New South Wales State rates (rather than the Australian rates). This allows comparisons to be made between the rates for the SLAs within the non-metropolitan areas of New South Wales and the State rates – ie. in effect the State average.

The cautions in the main introduction and in the introductory notes to each chapter are particularly relevant to the non-metropolitan areas, with their geographically large SLAs and relatively small, scattered populations.

Additional information: ARIA Index

In addition to the map, the map page includes a graph showing the average measure for the variable in each of five levels of accessibility/remoteness, as determined by the Accessibility/Remoteness Index for Australia (ARIA). This Index is described in more detail in Chapter 2, under the heading *Accessibility and Remoteness*. In brief, each SLA in New South Wales has been allocated to one of five categories, which range from Highly Accessible, through Accessible, Moderately Accessible and Remote, to Very Remote. The average percentage, rate or ratio for each of the five categories is then calculated for each variable and presented as a graph. The graph is accompanied by a brief comment on the distribution across the categories.

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The final responsibility for the content and comment remains with me.

John Glover
Project Manager, December 1999

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Glossary and Explanatory notes

Cause of death

Causes of death are classified by the Australian Bureau of Statistics to the Ninth (1975) Revision of the World Health Organisation's International Classification of Diseases (ICD-9) which was adopted for world-wide use from 1979.

The cause of death particulars in this publication relate to the underlying cause of death, which the World Health Organisation has defined as the disease or injury which initiated the train of morbid events leading directly to death. Accidental and violent deaths are classified to the circumstances of the accident or violence which produced the fatal injury. Deaths of infants aged less than one month are classified according to the main condition in the infant which contributed to the death.

Details of the ICD-9 codes applicable to the variables mapped in Chapter 5 are shown in *Appendix 1.4*.

Coding of hospital admissions

Diagnoses and procedures are classified according to the International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM October 1988 Revision). External causes are classified according to ICD-9-CM Supplementary Classification of External Causes of Injury and Poisoning ('E' codes) classification codes.

Details of the codes applicable to the variables mapped in Chapter 6 are shown in *Appendix 1.4*.

Admissions

The technical term describing a completed hospital episode (ie. the discharge, death or transfer of a patient) is a 'separation'.

At the time of admission, the age, sex, address of usual residence and other personal details of the patient are recorded. At the end of the episode, at the time of separation from hospital, details of the episode itself are recorded, including the principal diagnosis (and other diagnoses), principal procedure (and other procedures), and the date, time and method (discharge, transfer or death) of separation. Consequently, hospital inpatient data collections are based on separations. In this atlas the more commonly used term of 'admission' has been used. In an analysis such as this, which excludes long stay patients (other than the few long stay acute patients), there is little difference between the number of admissions and the number of separations in a year. Also, 'admission' is a much more familiar term to many people who will use this atlas.

Standardised ratios

Data on which many of the variables have been mapped has been adjusted to remove differences in the data between areas mapped where those differences result from differences in the age and/or sex profiles of the populations being examined. This standardisation process is described in Appendix 1.3, *Analysis and presentation of data*.

Statistical Local Area

The Statistical Local Area (SLA) is a standard geographic area established by the Australian Bureau of Statistics (ABS) to cover the whole of Australia, for the purposes of geographically coding data. It is, in a majority of cases, equivalent to a legal local government area (LGA). SLAs comprise whole LGAs; part LGAs (where the LGA has been split for planning, administrative or statistical purposes); or are unincorporated areas. In New South Wales there were 177 LGAs and 189 SLAs at 1 July 1996 (ABS 1996).

Symbols used

- n.a. not available
- .. not applicable
- nil, or less than half the final digit shown
- C City
- A NSW Local Government Area

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