A SOCIAL HEALTH ATLAS OF AUSTRALIA

Second Edition

Volume 9: Australian Capital Territory

John Glover, Vija Watts and Sarah Tennant

December 1999

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National Library of Australia Cataloguing in Publication entry

Glover, John, 1945-A social health atlas of Australia

2nd ed. Bibliography. Includes index. ISBN 0 7308 9021 X (set).

ISBN 0 7308 9030 9 (v. 9).

1. Medical geography – Australia - Maps. 2. Medical - geography – Australia - Statistics. 3. Public health – Australia - Maps. 4. Public health – Australia - Statistics. 5. Health facilities – Australia – Utilization - Maps. 6. Health facilities – Australia – Utilization – Statistics. 7. Health surveys – Australia. I. Watts, Vija. II. Tennant, Sarah. III. University of Adelaide. Public Health Information Development Unit. IV. Commonwealth Department of Health and Aged Care (Australia). V. Title.

362.10994

A Social Health Atlas of Australia was produced by the Public Health Information Development Unit, University of Adelaide, South Australia. The project was funded by the Commonwealth Department of Health and Aged Care and supported by the South Australian Department of Human Services.

The majority of data mapped in the atlas, and the maps, was produced by Prometheus Information Pty Ltd, using the HealthWIZ software package. Further details of these and other contributors to the project are noted in the *Acknowledgements*.

Cover design by Julie Johinke using a photograph by Paul Doherty (photograph entitled Merti Merti Sandhills, Strzelecki Track).

Printed in Australia by Openbook Publishers.

Related publications and software products

A Social Health Atlas of Australia, 1992, Vols 1 & 2

HealthWIZ: details available at www.prometheus.com.au

Social health atlas World Wide Web site: www.publichealth.gov.au

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.

Wooldnoge **((**

Dr Michael Wooldridge The Minister for Health and Aged Care

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. Also included is a cluster analysis, providing profiles at the small area 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.

Findings

Correlation analysis

There were correlations of significance at the postcode level in Canberra-Queanbeyan between the measures of socioeconomic status and a number of the health status variables. 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); and premature death from, in particular, the combined causes of accidents, poisonings and violence (Table 8.2). Similarly, strong associations were also evident in the correlation analysis with the health service use variables of admissions for psychosis, accidents, poisonings and violence, Caesarean section and hysterectomy.

Changes in socioeconomic status

Marked variations were recorded between 1986 and 1996 for a majority of the socioeconomic status variables mapped for the Australian Capital Territory (**Table 9.1**). For **Canberra-Queanbeyan**, the largest increases were for the population of Aboriginal and Torres Strait Islander people (an increase of 140.1 per cent over this ten year period); unemployed people (92.3 per cent); low income families (75.2 per cent); people aged 65 years and over (66.0 per cent); dwellings without a motor vehicle (53.5 per cent); and single parent families (50.8 per cent). The only decreases recorded over this ten year period were for the variables for unskilled and semi-skilled workers (down by 12.7 per cent) and early school leavers (down by 7.9 per cent).

Variations of this order were also recorded in **Canberra** and the Australian Capital Territory.

Substantial variations were recorded in the level of income support payments to residents of **Canberra-Queanbeyan** for all of the payment types analysed (**Table 9.1**). The number of recipients for each of the payment types increased substantially, with the number of unemployment beneficiaries (an increase of 167.0 per cent) and disability support pensioners (101.3 per cent) more than doubling. Similar, although slightly larger increases were recorded in both **Canberra** and the Australian Capital Territory for all of these payments.

Changes in death rates

Death rates in the Australian Capital Territory have declined over the years 1985 to 1989 and 1992 to 1995 for the majority of causes studied.

In **Canberra-Queanbeyan**, the largest decreases were recorded for deaths of people aged from 15 to 64 years from circulatory system diseases (down by 52.2 per cent), respiratory system diseases (down by 40.3 per cent) and accidents, poisonings and violence (down by 36.0 per cent). All causes mortality was 36.4 per cent lower over this period, marginally more so for males than for females.

There were also reductions for every category in **Table 9.2** for **Canberra** and the Australian Capital Territory as a whole.

Summary of findings 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 14). The SLAs in **Canberra-Queanbeyan** 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

Although there is some variability across the quintiles, the pattern is generally 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 (**Figure 9.2**). The most notable exception is the Physical Component Summary (PCS), for which low scores indicate poorer health. Despite the narrow range of these scores, there is a clear gradient across the quintiles of socioeconomic disadvantage of area. Unlike the other

capital cities, there is little variation in the Total Fertility Rate, and what there is shows a decline with increasing disadvantage.

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 74 (26 per cent fewer YPLL than were expected from the ACT rates) to an SR of 138 in the most disadvantaged areas (indicating that there were 38 per cent more YPLL than were expected from the ACT rates). Large differentials were also evident for deaths of 15 to 64 year old females (from an SDR of 58 in Quintile 1 to 132 in Quintile 5) and deaths of 15 to 64 years olds from circulatory system diseases (89 to 160), respiratory system diseases (67 to 163) and the combined causes of accidents, poisonings and violence (59 to 159).

Health service utilisation

Although there is some variability across the quintiles, the pattern is generally for the most advantaged SLAs (those in Quintile 1) to have the lowest admission rates, and for the most disadvantaged SLAs (those in Quintile 5) to have the highest rates. The major exceptions include the variables for admissions to a private hospital, for lung cancer, for breast cancer of females aged 40 years and over, and for the surgical procedures of Caesarean section, hysterectomy and lens insertion, for which the standardised admission ratios decrease with increasing disadvantage. There is a less consistent pattern evident for a number of the other variables. There are only minor variations between the quintiles in the percentages for immunisation rates of children at age 12 months (**Figure 9.3**).

Change in health status by socioeconomic status of area of residence

As noted above, there has been an overall decrease in death rates in **Canberra-Queanbeyan**; 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.

Death rates in **Canberra-Queanbeyan** 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 1.53 times higher in the most disadvantaged areas in 1985-89 to 1.94 times higher in 1992-95.

For females, overall death rates decreased to a similar extent to those for males, and the differential in death rates for females (aged from 15 to 64 years) between Quintile 1 and Quintile 5 also increased, from 1.34 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 (35.4 per cent) in **Canberra-Queanbeyan**, however the differential in rates between Quintile 1 and Quintile 5 increased, from 1.74 times higher in the most disadvantaged areas in 1985-89 to 3.57 times higher in 1992-95.

Despite a decline in death rates in 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 1.01 times higher in the most disadvantaged areas in 1985-89 to 1.16 times higher in 1992-95 for cancer; and from 1.47 to 3.07 for lung cancer.

The overall decline in death rates for 15 to 64 year olds from circulatory system diseases was the highest among the causes of death studied (52.2 per cent) in **Canberra-Queanbeyan**. The differential in rates between Quintile 1 and Quintile 5 increased from 1.42 times higher in the most disadvantaged areas in 1985-89 to 2.11 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 **Canberra-Queanbeyan** are particularly strong over both periods. In 1985-89, the differential between Quintiles 1 and 5 was 1.55; by 1992-95 this had increased (by 163.6 per cent) to 4.09. This was the largest increase and the highest 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 **Canberra-Queanbeyan**. As with the other variables described above, the differential in 1992-95 is higher than in 1985-89 (up from 1.76 to 2.50). This is a result of the larger declines in death rates in Quintiles 1 (the largest, down by 42.4 per cent), 3 (-38.0 per cent) and 2 (-34.6 per cent).

Death rates for 15 to 24 year olds from these external causes show a different pattern. Rates are highest in Quintiles 2 and 3 in 1985-89, although in 1992-95, following substantial reductions over all the quintiles, the rate in Quintile 5 is the highest (at 64.9 deaths per 100,000 population) and the differential in rates between Quintile 1 and Quintile 5 has increased, from 1.71 in 1985-89 to 1.87 in 1992-95.

Conclusion

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**).

Although less consistent, there are associations between socioeconomic disadvantage and high rates of use of general medical practitioner services and many of the variables for hospital admission (**Figure 9.3**).

It is also clear that, despite an overall improvement in death rates in **Canberra-Queanbeyan** from all causes and for all of the specific causes studied, these improvements have not resulted in any 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 deaths of 15 to 24 year olds from the 'other causes' group, the gap in death rates has increased (**Figure 9.4**).

Using the Social Health Atlas

The social health atlas package

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

- this volume for the Australian Capital Territory and a companion volume (Volume 9.1) 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 <u>www.publichealth.gov.au</u>. 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 regroup 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 Canberra-Queanbeyan

Area mapped

The area mapped is the Statistical Division of **Canberra**-**Queanbeyan** (generally known as the capital city area).

Additional details, including key maps to assist in the location and identification of particular SLAs or postcode areas, 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 Australian Capital Territory rates (rather than the Australian rates). This allows comparisons to be made between the rates for the SLAs within **Canberra-Queanbeyan**, and the Australian Capital Territory rates – ie. in effect the Territory 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.

Contents

| Chapter | Page |
|---|------|
| Foreword | iii |
| Executive summary | v |
| Using the Social Health Atlas | vii |
| List of maps | xii |
| List of tables | xiv |
| List of figures | xvii |
| Acknowledgements | xix |
| Glossary and explanatory notes | xxi |
| 1 Introduction | 1 |
| 2 Methods | 7 |
| 3 Demography and socioeconomic status | 13 |
| Introduction, data sources and explanatory notes | |
| Age distribution | |
| children aged 0 to 4 years | 18 |
| people aged 65 years and over | 20 |
| Families | |
| single parent families | 22 |
| low income families | 24 |
| Labour force | |
| unskilled and semi-skilled workers | 26 |
| unemployed people | 28 |
| female labour force participation | 30 |
| Educational participation and achievement | |
| people who left school at age 15 years or less, or did not go to school | 32 |
| Aboriginal and Torres Strait Islander people | 34 |
| People born in predominantly non-English speaking countries | |
| number resident in Australia for five years or more | 36 |
| number resident in Australia for less than five years | 38 |
| proficiency in English | 40 |
| Housing | |
| dwellings rented from the Territory housing authority | 42 |
| dwellings with no motor vehicle | 44 |
| SEIFA Index of Relative Socio-Economic Disadvantage | 46 |
| 4 Income support payments | 49 |
| Introduction, data sources and explanatory notes | |
| Age pensioners | 52 |
| Disability support pensioners | 54 |
| Female sole parent pensioners | 56 |
| People receiving an unemployment benefit | 58 |
| Dependent children of selected pensioners and beneficiaries | 60 |

| Chapter | Page |
|---|------------|
| 5 Health status Introduction, data sources and explanatory notes | 63 |
| Synthetic Predictions of selected health status measures Introduction, data sources and explanatory notes People reporting their health as fair or poor | 69 72 |
| Physical Component Summary, SF36 | 74 |
| Handicap status | 76 |
| Deaths | 79 |
| Introduction, data sources and explanatory notes under one year of age : infant deaths 15 to 64 year olds | 86 |
| all causes: males all causes: females | 88 |
| all causes: remaies all cancers | 90 92 |
| lung cancer | 94 |
| circulatory system diseases | 96 |
| respiratory system diseases | 98 |
| accidents, poisonings and violence | 101 |
| 15 to 24 year olds accidents, poisonings and violence | 104 |
| Years of potential life lost | 106 |
| Total Fertility Rate | 109 |
| 6 Utilisation of health services | 113 |
| Introduction, data sources and explanatory notes | |
| Hospital admissions (including for surgical procedures) | 115 |
| Introduction and explanatory notes public acute hospitals and private hospitals | 126 |
| public acute hospitals | 128 |
| private hospitals | 130 |
| public acute and private hospitals | |
| males | 132 |
| females | 134 |
| same day patients | 136 |
| infectious and parasitic diseases | 138 |
| all cancers | 140 |
| lung cancer | 142 |
| cancer of the female breast | 144 |
| psychosis | 146 |
| neurotic, personality or other mental disorders | 148 |
| all circulatory system diseases ischaemic heart disease | 150 152 |
| all respiratory system diseases | 152 |
| 0 to 4 years olds with respiratory system disease | 154 |
| bronchitis, emphysema and asthma | 150 |
| accidents, poisonings and violence | 160 |
| · · · · · · · · · · · · · · · · · · · | 100 |

X

| Chapter | Page |
|---|------|
| Hospital admissions for surgical procedures Introduction, data sources and explanatory notes | 163 |
| admissions for a surgical procedure | 166 |
| same day admissions for a surgical procedure | 168 |
| tonsillectomy and/or adenoidectomy | 170 |
| | 170 |
| myringotomy | |
| Caesarean section | 174 |
| hysterectomy | 176 |
| hip replacement | 178 |
| lens insertion | 180 |
| endoscopy | 182 |
| General medical practitioner (GP) services | 185 |
| Introduction, data sources and explanatory notes | |
| GP services | |
| males | 188 |
| females | 190 |
| Immunisation status of one year old children | 192 |
| 7 Availability of selected health services | 195 |
| Introduction, data sources and explanatory notes | |
| Population per GP | 198 |
| Hospital beds | |
| public acute hospitals | 200 |
| private hospitals | 200 |
| Residential care places | |
| Nursing home places | 202 |
| Hostel places | 202 |
| 8 Statistical analysis | 205 |
| Introduction and explanatory notes | 200 |
| Correlation analysis | 205 |
| Cluster analysis | 203 |
| | 211 |
| 9 Summary of findings | 219 |
| Introduction | |
| Changes in data rates between editions | 219 |
| Summary of findings by socioeconomic status of area of residence | 220 |
| Appendix 1: Supporting documentation | 997 |
| | 227 |
| 1.1 Project resources and output | 229 |
| 1.2 Geographic areas mapped | 231 |
| 1.3 Analysis and presentation of data | 235 |
| 1.4 Classification of deaths, admissions and procedures | 237 |
| 1.5 Synthetic estimates for small area | 239 |
| 1.6 Additional details of cluster analysis | 243 |
| Bibliography | 245 |
| | |
| Index | 253 |

List of maps

Chapter & Map

| 3 | Demography and socioeconomic status | |
|------|--|----------|
| 3.1 | Children aged 0 to 4 years, Canberra-Queanbeyan, 1996 | 19 |
| 3.2 | People aged 65 years and over, Canberra-Queanbeyan, 1996 | 21 |
| 3.3 | Single parent families, Canberra-Queanbeyan, 1996 | 23 |
| 3.4 | Low income families, Canberra-Queanbeyan, 1996 | 25 |
| 3.5 | Unskilled and semi-skilled workers, Canberra-Queanbeyan, 1996 | 27 |
| 3.6 | Unemployed people, Canberra-Queanbeyan, 1996 | 29 |
| 3.7 | Female labour force participation, Canberra-Queanbeyan, 1996 | 31 |
| 3.8 | People who left school at age 15 years or less, or did not go to school, Canberra-Queanbeyan, 1996 | 33 |
| 3.9 | Aboriginal and Torres Strait Islander people, Canberra-Queanbeyan, 1996 | 35 |
| 3.10 | People born in predominately non-English speaking countries and resident in Australia for five years or more, | |
| | Canberra-Queanbeyan, 1996 | 37 |
| 3.11 | People born in predominately non-English speaking countries and resident for less than five years, | |
| | Canberra-Queanbeyan, 1996 | 39 |
| 3.12 | Poor proficiency in English of people aged five years and over and born in predominately non-English speaking countries, | |
| 0.12 | Canberra-Queanbeyan, 1996 | 41 |
| 3.13 | Dwellings rented from the Territory housing authority, Canberra-Queanbeyan, 1996 | 43 |
| 3.14 | Dwellings with no motor vehicles, Canberra-Queanbeyan, 1996 | 45 |
| 3.15 | SEIFA Index of Relative Socio-Economic Disadvantage, Canberra-Queanbeyan, 1996 | 47 |
| 0110 | | |
| 4 | Income support payments | |
| 4.1 | Age pensioners, Canberra-Queanbeyan, 30 June 1996 | 53 |
| 4.2 | Disability support pensioners, Canberra-Queanbeyan, 30 June 1996 | 55 |
| 4.3 | Female sole parent pensioners, Canberra-Queanbeyan, 30 June 1996 | 57 |
| 4.4 | People receiving an unemployment benefit, Canberra-Queanbeyan, 30 June 1996 | 59 |
| 4.5 | Dependent children of selected pensioners and beneficiaries, Canberra-Queanbeyan, 30 June 1996 | 61 |
| ~ | | |
| 5 | Health status | 70 |
| 5.1 | People reporting their health as fair or poor, Canberra-Queanbeyan, 1995 | 73 75 |
| 5.2 | Physical Component Summary, SF-36, Canberra-Queanbeyan, 1995 | 75 77 |
| 5.3 | Estimated number of people with a handicap, Canberra-Queanbeyan, 1993 | 77 |
| 5.4 | Infant deaths, Canberra-Queanbeyan, 1992 to 1995 | 87 |
| 5.5 | Deaths of males aged 15 to 64 years from all causes, Canberra-Queanbeyan, 1992 to 1995 | 89 |
| 5.6 | Deaths of females aged 15 to 64 years from all causes, Canberra-Queanbeyan, 1992 to 1995 | 91 |
| 5.7 | Deaths of people aged 15 to 64 years from cancer, Canberra-Queanbeyan, 1992 to 1995 | 93 05 |
| 5.8 | Deaths of people aged 15 to 64 years from lung cancer, Canberra-Queanbeyan, 1992 to 1995 | 95 |
| 5.9 | Deaths of people aged 15 to 64 years from circulatory system diseases, Canberra-Queanbeyan, 1992 to 1995 | 97 |
| 5.10 | Deaths of people aged 15 to 64 years from respiratory system diseases, Canberra-Queanbeyan, 1992 to 1995. | 99 |
| 5.11 | Deaths of people aged 15 to 64 years from accidents, poisonings and violence, Canberra-Queanbeyan, 1992 to 1995 | 103 |
| 5.12 | Deaths of people aged 15 to 24 years from accidents, poisonings and violence, Canberra-Queanbeyan, 1992 to 1995 | 105 |
| 5.13 | Deaths of people aged 15 to 64 years; years of potential life lost, Canberra-Queanbeyan, 1992 to 1995 | 107 |
| 5.14 | Total Fertility Rate, Canberra-Queanbeyan, 1992 to 1995 | 111 |

Chapter & Map

| 6.1 Admissions to public acute hospitals, Canherra-Queanheyan, 1995/96 129 7.2 Admissions to public acute hospitals, Canherra-Queanheyan, 1995/96 131 8.4 Admissions of private hospitals, Canherra-Queanheyan, 1995/96 133 8.5 Admissions of males, Canherra-Queanheyan, 1995/96 133 8.6 Same day admissions Canherra-Queanheyan, 1995/96 137 8.7 Admissions for rancer, Canherra-Queanheyan, 1995/96 134 8.8 Admissions for rancer, Canherra-Queanheyan, 1995/96 144 9.7 Admissions for rancer, Canherra-Queanheyan, 1995/96 144 9.4 Admissions for neurotic, gersonality or other mental disorders, Canherra-Queanheyan, 1995/96 145 9.1 Admissions for returotic, personality or other mental disorders, Canherra-Queanheyan, 1995/96 149 9.3 Admissions for returotic, personality or other mental disorders, Canherra-Queanheyan, 1995/96 155 9.4 Admissions for returotic, personality or other mental disorders, Canherra-Queanheyan, 1995/96 155 9.4 Admissions for is chaemic heart disease, Canherra-Queanheyan, 1995/96 155 9.4 Admissions for is chaemic heart disease, Canherra-Queanheyan, 1995/96 155 9.4 Admissions for a surgical procedure, Canherra-Queanheyan, 1995/96 155 9.4 Admissions for a surgical procedure, Canherra-Quea | 6 | Utilisation of health services | |
|---|------|--|-----|
| 62.2 Admissions to public acute hospitals, Canberra-Queanbeyan, 1995/96 129 63. Admissions to private hospitals, Canberra-Queanbeyan, 1995/96 133 64. Admissions of meades, Canberra-Queanbeyan, 1995/96 133 65. Same day admissions, Canberra Queanbeyan, 1995/96 137 67. Admissions for infectious and parasitic diseases, Canberra-Queanbeyan, 1995/96 137 67. Admissions for infectious and parasitic diseases, Canberra-Queanbeyan, 1995/96 141 68. Admissions for lung cancer, Canberra-Queanbeyan, 1995/96 144 69. Admissions for public acute hoyan, 1995/96 144 61. Admissions for psychosis, Canberra-Queanbeyan, 1995/96 144 62. Admissions for inclust, personality or other metal disorders, Canberra-Queanbeyan, 1995/96 144 63. Admissions for incluatory system disease, Canberra-Queanbeyan, 1995/96 155 64. Admissions for incluatory system disease, Canberra-Queanbeyan, 1995/96 157 65. Admissions for inclust, personality or other metal Queanbeyan, 1995/96 155 64. Admissions for inclust, enzypeane or asthma, Canberra-Queanbeyan, 1995/96 157 65. Admissions for inclust, enzypeane or asthma, Canberra-Queanbeyan, 1995/96 157 66. Admissions for a stopic advecedure, Canberra-Queanbeyan, 1995/96 157 | 6.1 | | 127 |
| 6.4 Admissions of inales, Canberra-Queanbeyan, 1995/96 133 6.5 Admissions of functious and parasitic diseases, Canberra-Queanbeyan, 1995/96 137 6.7 Admissions for infectious and parasitic diseases, Canberra-Queanbeyan, 1995/96 134 6.8 Admissions for lung cancer, Canberra-Queanbeyan, 1995/96 141 6.9 Admissions of parasitic diseases, Canberra-Queanbeyan, 1995/96 141 6.10 Admissions for response and over for breast cancer, Canberra-Queanbeyan, 1995/96 144 6.11 Admissions for response and over for breast cancer, Canberra-Queanbeyan, 1995/96 144 6.12 Admissions for respiratory system diseases, Canberra-Queanbeyan, 1995/96 149 6.13 Admissions for respiratory system disease, Canberra-Queanbeyan, 1995/96 155 6.14 Admissions for respiratory system disease, Canberra-Queanbeyan, 1995/96 156 7.1 Admissions for respiratory system disease, Canberra-Queanbeyan, 1995/96 157 6.14 Admissions for a surgical procedure, Canberra-Queanbeyan, 1995/96 157 6.15 Admissions for a surgical procedure, Canberra-Queanbeyan, 1995/96 167 7.1 Admissions of a numission of or any and over for a myringotomy, Canberra-Queanbeyan, 1995/96 177 6.2 Admissions of a numission of or any and over for a myringotomy, Canberra-Queanbeyan, 1995/96 177 | 6.2 | | 129 |
| 6.5 Admissions of females, Canberra-Queanbeyan, 1995/96 137 6.6 Same day admissions, Canberra-Queanbeyan, 1995/96 137 7 Admissions for infectious and parasitic diseases, Canberra-Queanbeyan, 1995/96 139 8.8 Admissions for infectious and parasitic diseases, Canberra-Queanbeyan, 1995/96 141 8.9 Admissions for paragraphic diseases, Canberra-Queanbeyan, 1995/96 143 8.10 Admissions for paragraphic diseases, Canberra-Queanbeyan, 1995/96 144 8.11 Admissions for paragraphic diseases, Canberra-Queanbeyan, 1995/96 147 8.12 Admissions for circulatory system diseases, Canberra-Queanbeyan, 1995/96 153 8.13 Admissions for circulatory system diseases, Canberra-Queanbeyan, 1995/96 153 8.14 Admissions for circulatory system diseases, Canberra-Queanbeyan, 1995/96 155 8.16 Admissions for bronchitis, emphysema or asthma, Canberra-Queanbeyan, 1995/96 156 8.18 Admissions for a surgical procedure, Canberra-Queanbeyan, 1995/96 167 8.19 Admissions of children aged 0 10 4 years for resclone, Canberra-Queanbeyan, 1995/96 167 8.20 Admissions of females aged 30 years and over for an hysterctormy, Canberra-Queanbeyan, 1995/96 173 8.21 Admissions for a surgical procedure, Canberra-Queanbeyan, 1995/96 175 8.22 Admissio | 6.3 | Admissions to private hospitals, Canberra-Queanbeyan, 1995/96 | 131 |
| 6.6 Same day admissions, Canberra-Queanbeyan, 1995/96 137 6.7 Admissions for infectious and parasitic diseases, Canberra-Queanbeyan, 1995/96 138 6.8 Admissions for lang cancer, Canberra-Queanbeyan, 1995/96 141 6.9 Admissions for lang cancer, Camberra-Queanbeyan, 1995/96 143 6.10 Admissions for neurotic, personality or other mental disorders, Canberra-Queanbeyan, 1995/96 147 7.12 Admissions for neurotic, personality or other mental disorders, Canberra-Queanbeyan, 1995/96 151 6.13 Admissions for isculatory system diseases, Canberra-Queanbeyan, 1995/96 153 6.14 Admissions for isculatory system disease, Canberra-Queanbeyan, 1995/96 155 6.15 Admissions for a surgical procedure, Camberra-Queanbeyan, 1995/96 155 6.16 Admissions for a surgical procedure, Camberra-Queanbeyan, 1995/96 166 6.17 Admissions for a surgical procedure, Camberra-Queanbeyan, 1995/96 167 6.21 Admissions of reading approach over for an hysterectory, Cambera-Queanbeyan, 1995/96 167 7 Admissions for a surgical procedure, Cambera-Queanbeyan, 1995/96 177 6.22 Admissions of females aged 15 to 44 years for a Caeseraen section, Camberra-Queanbeyan, 1995/96 177 | 6.4 | Admissions of males, Canberra-Queanbeyan, 1995/96 | 133 |
| 6.7 Admissions for infectious and parasitic diseases, Canberra-Queanbeyan, 1995/96 143 6.8 Admissions for lung cancer, Canberra-Queanbeyan, 1995/96 143 6.10 Admissions for planets aged 40 years and over for breast cancer, Canberra-Queanbeyan, 1995/96 143 6.11 Admissions for psychosis, Canberra-Queanbeyan, 1995/96 144 6.12 Admissions for schools, Canberra-Queanbeyan, 1995/96 144 6.13 Admissions for includatory system diseases, Canberra-Queanbeyan, 1995/96 153 6.14 Admissions for includatory system disease, Canberra-Queanbeyan, 1995/96 155 6.14 Admissions for includitor system disease, Canberra-Queanbeyan, 1995/96 155 6.16 Admissions for includitor aged 10 to 4 years for respiratory system diseases, Canberra-Queanbeyan, 1995/96 157 6.16 Admissions for a surgical procedure, Canberra-Queanbeyan, 1995/96 157 6.17 Admissions for a surgical procedure, Canberra-Queanbeyan, 1995/96 167 6.18 Admissions of children aged 10 to 9 years for a myringotomy, Canberra-Queanbeyan, 1995/96 177 6.21 Admissions of a insufficial procedure, Canberra-Queanbeyan, 1995/96 177 6.22 Admissions of or allow sears and over for an hysterectomy, Canberra-Queanbeyan, 1995/96 | 6.5 | Admissions of females, Canberra-Queanbeyan, 1995/96 | 135 |
| 6.8 Admissions for cancer, Canberra-Queanbeyan, 1995/96 141 6.9 Admissions for lung cancer, Canberra-Queanbeyan, 1995/96 143 6.10 Admissions for lung cancer, Canberra-Queanbeyan, 1995/96 143 6.11 Admissions for lemales aged 40 years and over for breast cancer, Canberra-Queanbeyan, 1995/96 147 7 Admissions for incubic personality or other mental disorders, Canberra-Queanbeyan, 1995/96 151 6.13 Admissions for respiratory system disease. Canberra-Queanbeyan, 1995/96 153 6.14 Admissions for respiratory system disease. Canberra-Queanbeyan, 1995/96 155 6.16 Admissions for neghtatory system disease. Canberra-Queanbeyan, 1995/96 157 7.17 Admissions for neghtatory system disease. Canberra-Queanbeyan, 1995/96 157 6.18 Admissions for a surgical procedure. Canberra-Queanbeyan, 1995/96 167 7.17 Admissions for a surgical procedure. Canberra-Queanbeyan, 1995/96 167 6.20 Same day admissions for a surgical procedure. Canberra-Queanbeyan, 1995/96 171 7.18 Admissions of a surgical procedure. Canberra-Queanbeyan, 1995/96 173 6.21 Admissions of a null procedure. Canberra-Queanbeyan, 1995/96 171 6.22 Admissio | 6.6 | Same day admissions, Canberra-Queanbeyan, 1995/96 | 137 |
| 6.9 Admissions for lung cancer, Canberra-Queanbeyan, 1995/96 143 6.10 Admissions for psychosis, Canberra-Queanbeyan, 1995/96 145 6.11 Admissions for psychosis, Canberra-Queanbeyan, 1995/96 147 6.12 Admissions for neurotic, personality or other mental disorders, Canberra-Queanbeyan, 1995/96 151 6.13 Admissions for icculatory system disease, Canberra-Queanbeyan, 1995/96 153 6.14 Admissions for bronchitis, emphysema or asthma, Canberra-Queanbeyan, 1995/96 155 6.16 Admissions for bronchitis, emphysema or asthma, Canberra-Queanbeyan, 1995/96 156 7.17 Admissions for bronchitis, emphysema or asthma, Canberra-Queanbeyan, 1995/96 167 6.18 Admissions for a surgical procedure, Canberra-Queanbeyan, 1995/96 167 6.20 Same day admissions for a surgical procedure, Canberra-Queanbeyan, 1995/96 167 6.21 Admissions of children aged 0 to 9 years for a myringtotony, Canberra-Queanbeyan, 1995/96 171 6.22 Admissions of children aged 0 to 9 years for a myringtotony, Canberra-Queanbeyan, 1995/96 173 6.23 Admissions of children aged 0 to 9 years for a myringtotony, Canberra-Queanbeyan, 1995/96 173 6.24 Admissions for a his sertion, Canberra-Queanbeyan, 1995/96 | 6.7 | Admissions for infectious and parasitic diseases, Canberra-Queanbeyan, 1995/96 | 139 |
| 6.10Admissions of females aged 40 years and over for breast cancer, Canberra-Queanbeyan, 1995/961456.11Admissions for psychosis, Canberra-Queanbeyan, 1995/961496.12Admissions for crevinctory system diseases, Canberra-Queanbeyan, 1995/961516.14Admissions for ischaemic heart disease, Canberra-Queanbeyan, 1995/961536.15Admissions of children aged 0 to 4 years for respiratory system diseases, Canberra-Queanbeyan, 1995/961556.16Admissions of children aged 0 to 4 years for respiratory system diseases, Canberra-Queanbeyan, 1995/961596.18Admissions for structure, Canberra-Queanbeyan, 1995/961596.18Admissions for a surgical procedure, Canberra-Queanbeyan, 1995/961616.20Same day admissions for a surgical procedure, Canberra-Queanbeyan, 1995/961676.21Admissions for a tonsillectomy and/or adenoidectomy, Canberra-Queanbeyan, 1995/961736.22Admissions of children aged 0 to 9 years for a casearean section, Canberra-Queanbeyan, 1995/961736.23Admissions of females aged 15 to 44 years for a Casearean section, Canberra-Queanbeyan, 1995/961736.24Admissions for a restrict, Canberra-Queanbeyan, 1995/961776.25Admissions for a restrict, Canberra-Queanbeyan, 1995/961796.26Admissions for a new concept.1796.27Admissions of children aged 30 years and over for an hysterctomy, Canberra-Queanbeyan, 1995/961796.28Admissions for a needicacopy. Canberra-Queanbeyan, 1995/961796.29General medical practitioner services to f | 6.8 | Admissions for cancer, Canberra-Queanbeyan, 1995/96 | 141 |
| 6.11 Admissions for psychosis, Canberra-Queanbeyan, 1995/96 147 6.12 Admissions for neurotic, personality or other mental disorders, Canberra-Queanbeyan, 1995/96 149 6.13 Admissions for circulatory system diseases, Canberra-Queanbeyan, 1995/96 151 6.14 Admissions for schaemic heart disease, Canberra-Queanbeyan, 1995/96 155 6.15 Admissions for sophratory system disease, Canberra-Queanbeyan, 1995/96 155 6.16 Admissions for bronchitis, emphysema or asthma, Canberra-Queanbeyan, 1995/96 161 6.18 Admissions for a surgical procedure, Canberra-Queanbeyan, 1995/96 161 6.19 Admissions for a surgical procedure, Canberra-Queanbeyan, 1995/96 167 6.20 Same day admissions of a surgical procedure, Canberra-Queanbeyan, 1995/96 171 6.21 Admissions of children aged 0 to 9 years for a myringotomy, Canberra-Queanbeyan, 1995/96 173 6.22 Admissions of finales aged 15 to 44 years for a Casearean section, Canberra-Queanbeyan, 1995/96 175 6.22 Admissions of ranales aged 15 to 44 years for a casearean section, Canberra-Queanbeyan, 1995/96 177 6.23 Admissions of ra a loss neuroin, Canberra-Queanbeyan, 1995/96 177 6.24 Admissions for a nei insertion, Canberra-Queanbeyan, 1995/96 | 6.9 | Admissions for lung cancer, Canberra-Queanbeyan, 1995/96 | 143 |
| 6.12Admissions for neurotic, personality or other mental disorders, Canberra-Queanbeyan, 1995/961496.13Admissions for ischaemic heart disease, Canberra-Queanbeyan, 1995/961536.14Admissions for ischaemic heart disease, Canberra-Queanbeyan, 1995/961536.15Admissions for ischaemic heart disease, Canberra-Queanbeyan, 1995/961536.16Admissions for bronchitis, emphysema or asthma, Canberra-Queanbeyan, 1995/961696.18Admissions for bronchitis, emphysema or asthma, Canberra-Queanbeyan, 1995/961616.19Admissions for a surgical procedure, Canberra-Queanbeyan, 1995/961676.20Same day admissions for a surgical procedure, Canberra-Queanbeyan, 1995/961676.21Admissions for a tonsillectomy and/or adenoidectomy, Canberra-Queanbeyan, 1995/961736.22Admissions of fidhern aged 0 to 9 years for a casarean section, Canberra-Queanbeyan, 1995/961736.23Admissions of fidhern aged 0 to 9 years for a Casarean section, Canberra-Queanbeyan, 1995/961736.24Admissions of females aged 30 years and over for an hysterectomy, Canberra-Queanbeyan, 1995/961796.25Admissions for a lip replacement, Canberra-Queanbeyan, 1995/961836.27Admissions for a lip replacement, Canberra-Queanbeyan, 1995/961896.28General medical practitioner services to females, Canberra-Queanbeyan, 1995/961796.26Admissions for a lens insertion, Canberra-Queanbeyan, 1995/961896.29General medical practitioner services to females, Canberra-Queanbeyan, 19961896.29Ge | 6.10 | Admissions of females aged 40 years and over for breast cancer, Canberra-Queanbeyan, 1995/96 | 145 |
| 6.13 Admissions for circulatory system diseases, Canberra-Queanbeyan, 1995/96 151 6.14 Admissions for ischaemic heart disease, Canberra-Queanbeyan, 1995/96 153 6.15 Admissions for ischaemic heart disease, Canberra-Queanbeyan, 1995/96 155 6.16 Admissions for ischaemic heart disease, Canberra-Queanbeyan, 1995/96 157 6.17 Admissions for bronchitis, emphysema or asthma, Canberra-Queanbeyan, 1995/96 161 6.18 Admissions for a surgical procedure, Canberra-Queanbeyan, 1995/96 161 6.20 Same day admissions for a surgical procedure, Canberra-Queanbeyan, 1995/96 167 6.21 Admissions of a surgical procedure, Canberra-Queanbeyan, 1995/96 173 6.22 Admissions of a surgical procedure, Canberra-Queanbeyan, 1995/96 173 6.22 Admissions of remales aged 15 to 44 years for a caesarean section, Canberra-Queanbeyan, 1995/96 173 6.24 Admissions for a hip replacement, Canberra-Queanbeyan, 1995/96 179 6.25 Admissions for a nedoscopy, Canberra-Queanbeyan, 1995/96 179 6.26 Admissions for a nedoscopy, Canberra-Queanbeyan, 1995/96 183 6.27 Admissions for a nedoscopy, Canberra-Queanbeyan, 1995/96 183 6.28 General medical | 6.11 | Admissions for psychosis, Canberra-Queanbeyan, 1995/96 | 147 |
| 6.14 Admissions for ischaemić héart disease, Canberra-Queanbeyan, 1995/96 153 6.15 Admissions for respiratory system disease, Canberra-Queanbeyan, 1995/96 157 6.16 Admissions for brinchtits, emphysema or asthma, Canberra-Queanbeyan, 1995/96 157 6.17 Admissions for bronchtits, emphysema or asthma, Canberra-Queanbeyan, 1995/96 169 19 Admissions for a surgical procedure, Canberra-Queanbeyan, 1995/96 167 6.20 Same day admissions for a surgical procedure, Canberra-Queanbeyan, 1995/96 167 6.21 Admissions of ra onsillectomy and/or adenoidectomy, Canberra-Queanbeyan, 1995/96 173 6.22 Admissions of cinales aged 30 years and over for an hystercotmy, Canberra-Queanbeyan, 1995/96 173 6.23 Admissions for a lens insertion, Canberra-Queanbeyan, 1995/96 177 6.24 Admissions for a lens insertion, Canberra-Queanbeyan, 1995/96 177 6.25 Admissions for a lens insertion, Canberra-Queanbeyan, 1995/96 177 6.26 Admissions for a lens insertion, Canberra-Queanbeyan, 1995/96 177 6.27 Admissions for a lens insertion, Canberra-Queanbeyan, 1995/96 183 6.28 General medical practitioner services to males, Canberra-Queanbeyan, 1996 183 | 6.12 | Admissions for neurotic, personality or other mental disorders, Canberra-Queanbeyan, 1995/96 | 149 |
| 6.15Admissions for respiratory system disease, Canberra-Queanbeyan, 1995/961556.16Admissions for children aged 0 to 4 years for respiratory system diseases, Canberra-Queanbeyan, 1995/961576.17Admissions for bronchitis, emphysema or asthma, Canberra-Queanbeyan, 1995/961596.18Admissions for a surgical procedure, Canberra-Queanbeyan, 1995/961616.19Admissions for a surgical procedure, Canberra-Queanbeyan, 1995/961616.20Same day admissions for a surgical procedure, Canberra-Queanbeyan, 1995/961716.21Admissions of a tonsillectomy and/or adenoidectomy, Canberra-Queanbeyan, 1995/961716.22Admissions of females aged 15 to 44 years for a Canseraera section, Canberra-Queanbeyan, 1995/961736.23Admissions of females aged 30 years for a myringotomy, Canberra-Queanbeyan, 1995/961756.24Admissions for a hip replacement, Canberra-Queanbeyan, 1995/961776.25Admissions for a lens insertion, Canberra-Queanbeyan, 1995/961816.27Admissions for an endoscopy, Canberra-Queanbeyan, 1995/961836.28Admissions for an endoscopy, Canberra-Queanbeyan, 1995/961836.29General medical practitioner services to females, Canberra-Queanbeyan, 19961836.29General medical practitioner services to females, Canberra-Queanbeyan, 19961916.30Immunisation status of children at 12 months of age, Canberra-Queanbeyan, 19962017Availability of selected health services2017.1Population per general medical practitioner, Canberra-Queanbeyan, 1996/9 | 6.13 | Admissions for circulatory system diseases, Canberra-Queanbeyan, 1995/96 | 151 |
| 6.16Admissions of children aged 0 to 4 years for respiratory system diseases, Canberra-Queanbeyan, 1995/961576.17Admissions for bronchitis, emphysema or asthma, Canberra-Queanbeyan, 1995/961596.18Admissions for a surgical procedure, Canberra-Queanbeyan, 1995/961616.19Admissions for a surgical procedure, Canberra-Queanbeyan, 1995/961676.20Same day admissions for a surgical procedure, Canberra-Queanbeyan, 1995/961676.21Admissions of ra tonsillectomy and/or adenoidectomy, Canberra-Queanbeyan, 1995/961736.22Admissions of children aged 0 to 9 years for a myringotomy, Canberra-Queanbeyan, 1995/961736.23Admissions of children aged 30 years and over for an hysterectomy, Canberra-Queanbeyan, 1995/961756.24Admissions for a hip replacement, Canberra-Queanbeyan, 1995/961796.25Admissions for a lens insertion, Canberra-Queanbeyan, 1995/961796.26Admissions for a lens insertion, Canberra-Queanbeyan, 1995/961816.27Admissions for a lens insertion, Canberra-Queanbeyan, 1995/961836.28General medical practitioner services to males, Canberra-Queanbeyan, 19961896.29General medical practitioner services to females, Canberra-Queanbeyan, 1995/961916.30Immunisation status of children at 12 months of age, Canberra-Queanbeyan, 19961916.30Immunisation status of children at 20 months of age, Canberra-Queanbeyan, 30 June 19972037Availability of selected health services2017.3Private hospital beds per 1,000 population, | 6.14 | Admissions for ischaemic heart disease, Canberra-Queanbeyan, 1995/96 | 153 |
| 6.17 Admissions for bronchitis, emphysema or asthma, Canberra-Queanbeyan, 1995/96 159 6.18 Admissions for a surgical procedure, Canberra-Queanbeyan, 1995/96 161 6.19 Admissions for a surgical procedure, Canberra-Queanbeyan, 1995/96 167 6.20 Same day admissions for a surgical procedure, Canberra-Queanbeyan, 1995/96 167 6.21 Admissions for a tonsillectomy and/or adenoidectomy, Canberra-Queanbeyan, 1995/96 173 6.22 Admissions of females aged 10 to 9 years for a Argingotomy, Canberra-Queanbeyan, 1995/96 173 6.22 Admissions of females aged 15 to 44 years for a Caesarean section, Canberra-Queanbeyan, 1995/96 173 6.24 Admissions of females aged 30 years and over for an hysterctomy, Canberra-Queanbeyan, 1995/96 177 6.25 Admissions for a lins replacement, Canberra-Queanbeyan, 1995/96 179 6.26 Admissions for a lens insertion, Canberra-Queanbeyan, 1995/96 183 6.27 Admissions for a nendoscopy, Canberra-Queanbeyan, 1995/96 189 6.28 General medical practitioner services to males, Canberra-Queanbeyan, 1996 189 6.29 General medical practitioner services to males, Canberra-Queanbeyan, 1995/96 199 7. Availability of selected health services 199 | 6.15 | Admissions for respiratory system disease, Canberra-Queanbeyan, 1995/96 | 155 |
| 6.18Admissions from accidents, poisonings and violence, Canberra-Queanbeyan, 1995/961616.19Admissions for a surgical procedure, Canberra-Queanbeyan, 1995/961676.20Same day admissions for a surgical procedure, Canberra-Queanbeyan, 1995/961696.21Admissions for a tonsillectomy and/or adenoidectomy, Canberra-Queanbeyan, 1995/961716.22Admissions of children aged 0 to 9 years for a myringotomy, Canberra-Queanbeyan, 1995/961736.23Admissions of children aged 0 to 9 years for a myringotomy, Canberra-Queanbeyan, 1995/961736.24Admissions of females aged 15 to 44 years for a Caesarean section, Canberra-Queanbeyan, 1995/961776.25Admissions for a hip replacement, Canberra-Queanbeyan, 1995/961776.26Admissions for a new instention, Canberra-Queanbeyan, 1995/961796.27Admissions for a new instention, Canberra-Queanbeyan, 1995/961836.28General medical practitioner services to males, Canberra-Queanbeyan, 1995/961836.29General medical practitioner services to females, Canberra-Queanbeyan, 19961996.29General medical practitioner services to females, Canberra-Queanbeyan, 19961916.30Immunisation status of children at 12 months of age, Canberra-Queanbeyan, 1995/961916.30Immunisation per general medical practitioner, Canberra-Queanbeyan, 1996/971997Availability of selected health services2017.1Population per general medical practitioner, Canberra-Queanbeyan, 30 June 19972037.3Private hospital beds per 1,000 popu | 6.16 | Admissions of children aged 0 to 4 years for respiratory system diseases, Canberra-Queanbeyan, 1995/96 | 157 |
| 6.19 Admissions for a surgical procedure, Canberra-Queanbeyan, 1995/96 167 6.20 Same day admissions for a surgical procedure, Canberra-Queanbeyan, 1995/96 169 6.21 Admissions for a tonsillectomy and/or adenoidectomy, Canberra-Queanbeyan, 1995/96 171 6.22 Admissions of thildren aged 0 to 9 years for a myringotomy, Canberra-Queanbeyan, 1995/96 173 6.23 Admissions of females aged 15 to 44 years for a Caesarean section, Canberra-Queanbeyan, 1995/96 175 6.24 Admissions of temales aged 30 years and over for an hysterectomy, Canberra-Queanbeyan, 1995/96 175 6.24 Admissions for a hip replacement, Canberra-Queanbeyan, 1995/96 179 6.25 Admissions for a lens insertion, Canberra-Queanbeyan, 1995/96 179 6.26 Admissions for a nendoscopy, Canberra-Queanbeyan, 1995/96 183 6.27 General medical practitioner services to females, Canberra-Queanbeyan, 1996 183 6.28 General medical practitioner services to females, Canberra-Queanbeyan, 1996/97 199 7 Availability of selected health services 199 7.1 Population per general medical practitioner, Canberra-Queanbeyan, 1996/97 199 7.2 Public acute hospital beds per 1,000 population, Canberra-Queanbeyan, 1995/96 20 | 6.17 | Admissions for bronchitis, emphysema or asthma, Canberra-Queanbeyan, 1995/96 | 159 |
| 6.20Same day admissions for a surgical procedure, Canberra-Queanbeyan, 1995/961696.21Admissions for a tonsillectomy and/or adenoidectomy, Canberra-Queanbeyan, 1995/961716.22Admissions of children aged 0 to 9 years for a myringotomy, Canberra-Queanbeyan, 1995/961736.23Admissions of females aged 15 to 44 years for a Caesarean section, Canberra-Queanbeyan, 1995/961756.24Admissions of females aged 15 to 44 years for a Caesarean section, Canberra-Queanbeyan, 1995/961756.24Admissions for a hip replacement, Canberra-Queanbeyan, 1995/961776.25Admissions for a lens insertion, Canberra-Queanbeyan, 1995/961816.27Admissions for a lens insertion, Canberra-Queanbeyan, 1995/961836.28General medical practitioner services to males, Canberra-Queanbeyan, 19961896.29General medical practitioner services to females, Canberra-Queanbeyan, 19961916.30Immunisation status of children at 12 months of age, Canberra-Queanbeyan, 1996/971997Availability of selected health services1927.1Population per general medical practitioner, Canberra-Queanbeyan, 1995/962017.3Private hospital beds per 1,000 population, Canberra-Queanbeyan, 1995/962017.4Nursing home places per 1,000 population aged 70 years and over, Canberra-Queanbeyan, 30 June 19972037.5Hostel places per 1,000 population aged 70 years and over, Canberra-Queanbeyan, 30 June 19972037.4Nursing home places per 1,000 population aged 70 years and over, Canberra-Queanbeyan, 30 June 1997203< | 6.18 | Admissions from accidents, poisonings and violence, Canberra-Queanbeyan, 1995/96 | 161 |
| 6.21Admissions for a tonsillectomy and/or adenoidectomy, Canberra-Queanbeyan, 1995/961716.22Admissions of children aged 0 to 9 years for a myringotomy, Canberra-Queanbeyan, 1995/961736.23Admissions of females aged 15 to 44 years for a Caesarean section, Canberra-Queanbeyan, 1995/961756.24Admissions of females aged 30 years and over for an hysterectomy, Canberra-Queanbeyan, 1995/961776.25Admissions of ra lens insertion, Canberra-Queanbeyan, 1995/961796.26Admissions for a lens insertion, Canberra-Queanbeyan, 1995/961816.27Admissions for a lens insertion, Canberra-Queanbeyan, 1995/961836.28General medical practitioner services to males, Canberra-Queanbeyan, 19961896.29General medical practitioner services to females, Canberra-Queanbeyan, 19961916.30Immunisation status of children at 12 months of age, Canberra-Queanbeyan, 1996/971997Availability of selected health services1997.1Population per general medical practitioner, Canberra-Queanbeyan, 1995/962017.3Private hospital beds per 1,000 population, Canberra-Queanbeyan, 30 June 19972037.4Nursing home places per 1,000 population aged 70 years and over, Canberra-Queanbeyan, 30 June 19972037.5Hostel places per 1,000 population aged 70 years and over, Canberra-Queanbeyan, 30 June 19972038Statistical analysis2148.1Socioeconomic clusters based on Statistical Local Areas in Canberra-Queanbeyan2148.2Health status clusters based on Statistical Local | 6.19 | Admissions for a surgical procedure, Canberra-Queanbeyan, 1995/96 | 167 |
| 6.22Admissions of children aged 0 to 9 years for a myringotomy, Canberra-Queanbeyan, 1995/961736.23Admissions of females aged 15 to 44 years for a Caesarean section, Canberra-Queanbeyan, 1995/961756.24Admissions of females aged 30 years and over for an hysterectomy, Canberra-Queanbeyan, 1995/961796.25Admissions for a hip replacement, Canberra-Queanbeyan, 1995/961796.26Admissions for a lens insertion, Canberra-Queanbeyan, 1995/961836.27Admissions for a lens insertion, Canberra-Queanbeyan, 1995/961836.28General medical practitioner services to males, Canberra-Queanbeyan, 19961836.29General medical practitioner services to females, Canberra-Queanbeyan, 19961916.30Immunisation status of children at 12 months of age, Canberra-Queanbeyan, 1996/971997Availability of selected health services1997.1Population per general medical practitioner, Canberra-Queanbeyan, 1996/971997.2Public acute hospital beds per 1,000 population, Canberra-Queanbeyan, 1995/962017.3Private hospital beds per 1,000 population aged 70 years and over, Canberra-Queanbeyan, 30 June 19972037.5Hostel places per 1,000 population aged 70 years and over, Canberra-Queanbeyan, 30 June 19972038Statistical analysis2148.1Socioeconomic clusters based on Statistical Local Areas in Canberra-Queanbeyan2148.2Health status clusters based on Statistical Local Areas in Canberra-Queanbeyan2158.3Health service utilisation clusters based on Statis | 6.20 | | 169 |
| 6.23Admissions of females aged 15 to 44 years for a Caesarean section, Canberra-Queanbeyan, 1995/961756.24Admissions of females aged 30 years and over for an hysterectomy, Canberra-Queanbeyan, 1995/961776.25Admissions for a hip replacement, Canberra-Queanbeyan, 1995/961796.26Admissions for a lens insertion, Canberra-Queanbeyan, 1995/961816.27Admissions for an endoscopy, Canberra-Queanbeyan, 1995/961836.28General medical practitioner services to males, Canberra-Queanbeyan, 19961896.29General medical practitioner services to females, Canberra-Queanbeyan, 19961916.30Immunisation status of children at 12 months of age, Canberra-Queanbeyan, 19981937Availability of selected health services1997.1Population per general medical practitioner, Canberra-Queanbeyan, 1996/971997.2Public acute hospital beds per 1,000 population, Canberra-Queanbeyan, 30 June 19972037.3Private hospital beds per 1,000 population aged 70 years and over, Canberra-Queanbeyan, 30 June 19972037.5Hostiel places per 1,000 population aged 70 years and over, Canberra-Queanbeyan, 30 June 19972038Statistical analysis2148.1Socioeconomic clusters based on Statistical Local Areas in Canberra-Queanbeyan2148.2Health status clusters based on Statistical Local Areas in Canberra-Queanbeyan2158.3Health service utilisation clusters based on Statistical Local Areas in Canberra-Queanbeyan2168.4Social health clusters based on Statistical Local | 6.21 | Admissions for a tonsillectomy and/or adenoidectomy, Canberra-Queanbeyan, 1995/96 | 171 |
| 6.24 Admissions of females aged 30 years and over for an hysterectomy, Canberra-Queanbeyan, 1995/96 177 6.25 Admissions for a hip replacement, Canberra-Queanbeyan, 1995/96 179 6.26 Admissions for a lens insertion, Canberra-Queanbeyan, 1995/96 181 6.27 Admissions for an endoscopy, Canberra-Queanbeyan, 1995/96 183 6.28 General medical practitioner services to males, Canberra-Queanbeyan, 1996 189 6.29 General medical practitioner services to females, Canberra-Queanbeyan, 1996 191 6.30 Immunisation status of children at 12 months of age, Canberra-Queanbeyan, 1996 193 7 Availability of selected health services 193 7.1 Population per general medical practitioner, Canberra-Queanbeyan, 1996/97 199 7.2 Public acute hospital beds per 1,000 population, Canberra-Queanbeyan, 1995/96 201 7.3 Private hospital beds per 1,000 population, Canberra-Queanbeyan, 30 June 1997 203 7.4 Nursing home places per 1,000 population aged 70 years and over, Canberra-Queanbeyan, 30 June 1997 203 7.5 Hostel places per 1,000 population aged 70 years and over, Canberra-Queanbeyan, 30 June 1997 203 8 Statistical analysis 214 8.1 | | Admissions of children aged 0 to 9 years for a myringotomy, Canberra-Queanbeyan, 1995/96 | 173 |
| 6.25 Admissions for a hip replacement, Canberra-Queanbeyan, 1995/96 179 6.26 Admissions for a lens insertion, Canberra-Queanbeyan, 1995/96 181 6.27 Admissions for a lens insertion, Canberra-Queanbeyan, 1995/96 183 6.28 General medical practitioner services to males, Canberra-Queanbeyan, 1996 183 6.29 General medical practitioner services to females, Canberra-Queanbeyan, 1996 191 6.30 Immunisation status of children at 12 months of age, Canberra-Queanbeyan, 1998 193 7 Availability of selected health services 193 7. Population per general medical practitioner, Canberra-Queanbeyan, 1996/97 199 7.1 Population per general medical practitioner, Canberra-Queanbeyan, 1996/97 199 7.2 Public acute hospital beds per 1,000 population, Canberra-Queanbeyan, 1995/96 201 7.3 Private hospital beds per 1,000 population aged 70 years and over, Canberra-Queanbeyan, 30 June 1997 203 8 Statistical analysis 203 8.1 Socioeconomic clusters based on Statistical Local Areas in Canberra-Queanbeyan 214 9.4 Health status clusters based on Statistical Local Areas in Canberra-Queanbeyan 215 8.3 Health service utilisati | 6.23 | Admissions of females aged 15 to 44 years for a Caesarean section, Canberra-Queanbeyan, 1995/96 | 175 |
| 6.26Admissions for a lens insertion, Canberra-Queanbeyan, 1995/961816.27Admissions for an endoscopy, Canberra-Queanbeyan, 1995/961836.28General medical practitioner services to males, Canberra-Queanbeyan, 19961896.29General medical practitioner services to females, Canberra-Queanbeyan, 19961916.30Immunisation status of children at 12 months of age, Canberra-Queanbeyan, 19981937Availability of selected health services1937Availability of selected health services1997.1Population per general medical practitioner, Canberra-Queanbeyan, 1996/971997.2Public acute hospital beds per 1,000 population, Canberra-Queanbeyan, 30 June 19972017.3Private hospital beds per 1,000 population aged 70 years and over, Canberra-Queanbeyan, 30 June 19972037.5Hostel places per 1,000 population aged 70 years and over, Canberra-Queanbeyan, 30 June 19972038Statistical analysis2148.1Socioeconomic clusters based on Statistical Local Areas in Canberra-Queanbeyan2158.3Health status clusters based on Statistical Local Areas in Canberra-Queanbeyan2168.4Social health clusters based on Statistical Local Areas in Canberra-Queanbeyan2168.4Social health clusters based on Statistical Local Areas in Canberra-Queanbeyan2174Appendix 1217 | | Admissions of females aged 30 years and over for an hysterectomy, Canberra-Queanbeyan, 1995/96 | 177 |
| 6.27Admissions for an endoscopy, Canberra-Queanbeyan, 1995/961836.28General medical practitioner services to males, Canberra-Queanbeyan, 19961896.29General medical practitioner services to females, Canberra-Queanbeyan, 19961916.30Immunisation status of children at 12 months of age, Canberra-Queanbeyan, 19981937Availability of selected health services1997.Population per general medical practitioner, Canberra-Queanbeyan, 1996/971997.1Population per general medical practitioner, Canberra-Queanbeyan, 1995/962017.3Private hospital beds per 1,000 population, Canberra-Queanbeyan, 30 June 19972037.4Nursing home places per 1,000 population aged 70 years and over, Canberra-Queanbeyan, 30 June 19972037.5Hostel places per 1,000 population aged 70 years and over, Canberra-Queanbeyan, 30 June 19972038Statistical analysis2148.1Socioeconomic clusters based on Statistical Local Areas in Canberra-Queanbeyan2158.3Health struce utilisation clusters based on Statistical Local Areas in Canberra-Queanbeyan2168.4Social health clusters based on Statistical Local Areas in Canberra-Queanbeyan217Appendix 1217 | | Admissions for a hip replacement, Canberra-Queanbeyan, 1995/96 | 179 |
| 6.28General medical practitioner services to males, Canberra-Queanbeyan, 19961896.29General medical practitioner services to females, Canberra-Queanbeyan, 19961916.30Immunisation status of children at 12 months of age, Canberra-Queanbeyan, 19981937Availability of selected health services1997.1Population per general medical practitioner, Canberra-Queanbeyan, 1996/971997.2Public acute hospital beds per 1,000 population, Canberra-Queanbeyan, 1995/962017.3Private hospital beds per 1,000 population, Canberra-Queanbeyan, 30 June 19972037.4Nursing home places per 1,000 population aged 70 years and over, Canberra-Queanbeyan, 30 June 19972037.5Hostel places per 1,000 population aged 70 years and over, Canberra-Queanbeyan, 30 June 19972038Statistical analysis2148.1Socioeconomic clusters based on Statistical Local Areas in Canberra-Queanbeyan2158.3Health service utilisation clusters based on Statistical Local Areas in Canberra-Queanbeyan2168.4Social health clusters based on Statistical Local Areas in Canberra-Queanbeyan217Appendix 11217 | | Admissions for a lens insertion, Canberra-Queanbeyan, 1995/96 | 181 |
| 6.29General medical practitioner services to females, Canberra-Queanbeyan, 19961916.30Immunisation status of children at 12 months of age, Canberra-Queanbeyan, 19981937Availability of selected health services1997.1Population per general medical practitioner, Canberra-Queanbeyan, 1996/971997.2Public acute hospital beds per 1,000 population, Canberra-Queanbeyan, 1995/962017.3Private hospital beds per 1,000 population, Canberra-Queanbeyan, 30 June 19972037.4Nursing home places per 1,000 population aged 70 years and over, Canberra-Queanbeyan, 30 June 19972037.5Hostel places per 1,000 population aged 70 years and over, Canberra-Queanbeyan, 30 June 19972038Statistical analysis2148.1Socioeconomic clusters based on Statistical Local Areas in Canberra-Queanbeyan2158.3Health status clusters based on Statistical Local Areas in Canberra-Queanbeyan2168.4Social health clusters based on Statistical Local Areas in Canberra-Queanbeyan2168.4Social health clusters based on Statistical Local Areas in Canberra-Queanbeyan217Appendix 1216 | | Admissions for an endoscopy, Canberra-Queanbeyan, 1995/96 | |
| 6.30Immunisation status of children at 12 months of age, Canberra-Queanbeyan, 19981937Availability of selected health services1997.1Population per general medical practitioner, Canberra-Queanbeyan, 1996/971997.2Public acute hospital beds per 1,000 population, Canberra-Queanbeyan, 1995/962017.3Private hospital beds per 1,000 population, Canberra-Queanbeyan, 30 June 19972017.4Nursing home places per 1,000 population aged 70 years and over, Canberra-Queanbeyan, 30 June 19972037.5Hostel places per 1,000 population aged 70 years and over, Canberra-Queanbeyan, 30 June 19972038Statistical analysis2148.1Socioeconomic clusters based on Statistical Local Areas in Canberra-Queanbeyan2148.2Health status clusters based on Statistical Local Areas in Canberra-Queanbeyan2158.3Health service utilisation clusters based on Statistical Local Areas in Canberra-Queanbeyan2168.4Social health clusters based on Statistical Local Areas in Canberra-Queanbeyan217Appendix 1217 | | General medical practitioner services to males, Canberra-Queanbeyan, 1996 | 189 |
| 7Availability of selected health services7.1Population per general medical practitioner, Canberra-Queanbeyan, 1996/971997.2Public acute hospital beds per 1,000 population, Canberra-Queanbeyan, 1995/962017.3Private hospital beds per 1,000 population, Canberra-Queanbeyan, 30 June 19972017.4Nursing home places per 1,000 population aged 70 years and over, Canberra-Queanbeyan, 30 June 19972037.5Hostel places per 1,000 population aged 70 years and over, Canberra-Queanbeyan, 30 June 19972038Statistical analysis2148.1Socioeconomic clusters based on Statistical Local Areas in Canberra-Queanbeyan2158.3Health status clusters based on Statistical Local Areas in Canberra-Queanbeyan2168.4Social health clusters based on Statistical Local Areas in Canberra-Queanbeyan217Appendix 1 | | | |
| 7.1Population per general medical practitioner, Canberra-Queanbeyan, 1996/971997.2Public acute hospital beds per 1,000 population, Canberra-Queanbeyan, 1995/962017.3Private hospital beds per 1,000 population, Canberra-Queanbeyan, 30 June 19972017.4Nursing home places per 1,000 population aged 70 years and over, Canberra-Queanbeyan, 30 June 19972037.5Hostel places per 1,000 population aged 70 years and over, Canberra-Queanbeyan, 30 June 19972038Statistical analysis2018.1Socioeconomic clusters based on Statistical Local Areas in Canberra-Queanbeyan2148.2Health status clusters based on Statistical Local Areas in Canberra-Queanbeyan2158.3Health service utilisation clusters based on Statistical Local Areas in Canberra-Queanbeyan2168.4Social health clusters based on Statistical Local Areas in Canberra-Queanbeyan217Appendix 1 | 6.30 | Immunisation status of children at 12 months of age, Canberra-Queanbeyan, 1998 | 193 |
| 7.2Public acute hospital beds per 1,000 population, Canberra-Queanbeyan, 1995/962017.3Private hospital beds per 1,000 population, Canberra-Queanbeyan, 30 June 19972017.4Nursing home places per 1,000 population aged 70 years and over, Canberra-Queanbeyan, 30 June 19972037.5Hostel places per 1,000 population aged 70 years and over, Canberra-Queanbeyan, 30 June 19972038Statistical analysis2018.1Socioeconomic clusters based on Statistical Local Areas in Canberra-Queanbeyan2148.2Health status clusters based on Statistical Local Areas in Canberra-Queanbeyan2158.3Health service utilisation clusters based on Statistical Local Areas in Canberra-Queanbeyan2168.4Social health clusters based on Statistical Local Areas in Canberra-Queanbeyan217Appendix 1 | | | |
| 7.3Private hospital beds per 1,000 population, Canberra-Queanbeyan, 30 June 19972017.4Nursing home places per 1,000 population aged 70 years and over, Canberra-Queanbeyan, 30 June 19972037.5Hostel places per 1,000 population aged 70 years and over, Canberra-Queanbeyan, 30 June 19972038Statistical analysis2048.1Socioeconomic clusters based on Statistical Local Areas in Canberra-Queanbeyan2148.2Health status clusters based on Statistical Local Areas in Canberra-Queanbeyan2158.3Health service utilisation clusters based on Statistical Local Areas in Canberra-Queanbeyan2168.4Social health clusters based on Statistical Local Areas in Canberra-Queanbeyan217Appendix 1 | | | |
| 7.4Nursing home places per 1,000 population aged 70 years and over, Canberra-Queanbeyan, 30 June 19972037.5Hostel places per 1,000 population aged 70 years and over, Canberra-Queanbeyan, 30 June 19972038Statistical analysis8.1Socioeconomic clusters based on Statistical Local Areas in Canberra-Queanbeyan2148.2Health status clusters based on Statistical Local Areas in Canberra-Queanbeyan2158.3Health service utilisation clusters based on Statistical Local Areas in Canberra-Queanbeyan2168.4Social health clusters based on Statistical Local Areas in Canberra-Queanbeyan217Appendix 1 | | | |
| 7.5Hostel places per 1,000 population aged 70 years and over, Canberra-Queanbeyan, 30 June 19972038Statistical analysis8.1Socioeconomic clusters based on Statistical Local Areas in Canberra-Queanbeyan2148.2Health status clusters based on Statistical Local Areas in Canberra-Queanbeyan2158.3Health service utilisation clusters based on Statistical Local Areas in Canberra-Queanbeyan2168.4Social health clusters based on Statistical Local Areas in Canberra-Queanbeyan217Appendix 1 | | | |
| 8Statistical analysis8.1Socioeconomic clusters based on Statistical Local Areas in Canberra-Queanbeyan2148.2Health status clusters based on Statistical Local Areas in Canberra-Queanbeyan2158.3Health service utilisation clusters based on Statistical Local Areas in Canberra-Queanbeyan2168.4Social health clusters based on Statistical Local Areas in Canberra-Queanbeyan217Appendix 1 | | | |
| 8.1Socioeconomic clusters based on Statistical Local Areas in Canberra-Queanbeyan2148.2Health status clusters based on Statistical Local Areas in Canberra-Queanbeyan2158.3Health service utilisation clusters based on Statistical Local Areas in Canberra-Queanbeyan2168.4Social health clusters based on Statistical Local Areas in Canberra-Queanbeyan217Appendix 1 | 7.5 | Hostel places per 1,000 population aged 70 years and over, Canberra-Queanbeyan, 30 June 1997 | 203 |
| 8.2Health status clusters based on Statistical Local Areas in Canberra-Queanbeyan2158.3Health service utilisation clusters based on Statistical Local Areas in Canberra-Queanbeyan2168.4Social health clusters based on Statistical Local Areas in Canberra-Queanbeyan217Appendix 1 | 8 | Statistical analysis | |
| 8.3Health service utilisation clusters based on Statistical Local Areas in Canberra-Queanbeyan2168.4Social health clusters based on Statistical Local Areas in Canberra-Queanbeyan217Appendix 1 | 8.1 | Socioeconomic clusters based on Statistical Local Areas in Canberra-Queanbeyan | 214 |
| 8.4 Social health clusters based on Statistical Local Areas in Canberra-Queanbeyan 217 Appendix 1 217 | 8.2 | Health status clusters based on Statistical Local Areas in Canberra-Queanbeyan | 215 |
| Appendix 1 | 8.3 | Health service utilisation clusters based on Statistical Local Areas in Canberra-Queanbeyan | 216 |
| •• | 8.4 | Social health clusters based on Statistical Local Areas in Canberra-Queanbeyan | 217 |
| •• | Арре | ndix 1 | |
| | A1 | Key map for Statistical Local Areas in Canberra-Queanbeyan, 1996 | 232 |

List of tables

| Chapt | Chapter & Table | |
|--------------|---|----------|
| 1 | Introduction | |
| 1.1 | Correlation coefficients for small areas in Canberra-Queanbeyan | 2 |
| 1.2 | Small area data of relevance to the National Health Priority Areas | 4 |
| 2 | Methods | |
| 2.1 | Conversion of 1996 deaths data to SLA using the ABS Census-based postcode converter: | |
| | deaths by age group for selected SLAs, South Australia, 1996 | 9 |
| 3 | Demography and socioeconomic status | |
| 3.1 | Population and area, Australian Capital Territory, 1996 | 13 |
| 3.2 | Population of Indigenous Australians, 1986 to 1996 | 14 |
| 3.3 | Details of demographic and socioeconomic variables mapped | 16 |
| 3.4 | Proportion of population aged 0 to 4 years, capital cities | 18 |
| 3.5 | Proportion of population aged 65 years and over, capital cities | 20 |
| 3.6 | Single parent families, capital cities | 22 |
| 3.7 | Housing tenure by family type, Canberra, 1996 | 22 |
| 3.8 | Low income families, capital cities | 24 |
| 3.9 | Unskilled and semi-skilled workers, capital cities | 26 |
| 3.10 | Unemployed people, capital cities | 28 |
| 3.11 3.12 | Unemployment rates by age, sex and area, Canberra, 1996 Female labour force participation, capital cities | 28 30 |
| 3.12 | People who left school at age 15 years or less, or did not go to school, capital cities | 30 32 |
| 3.13 | Aboriginal and Torres Strait Islander people, capital cities | 32 34 |
| 3.15 | People born in predominantly non-English speaking countries and resident in Australia for 5 years or more, capital cities | 36 |
| 3.16 | Countries of origin of people born in non-English speaking countries, Canberra, 1996 | 36 |
| 3.17 | People born in predominantly non-English speaking countries and resident in Australia for less than 5 years, capital cities | 38 |
| 3.18 | Poor proficiency in English of people aged 5 years and over and born in predominantly non-English speaking countries, capital cities | 40 |
| 3.19 | Dwellings rented from the Territory housing authority, capital cities | 40 42 |
| 3.20 | Dwellings with no motor vehicle, capital cities | 42 |
| 3.21 | SEIFA Index of Relative Socio-Economic Disadvantage, capital cities | 46 |
| 4 | Income support payments | |
| 4.1 | Income support payments mapped, 30 June 1996 | 49 |
| 4.2 | Age pensioners, capital cities | 52 |
| 4.3 | Disability support pensioners, capital cities | 54 |
| 4.4 | Female sole parent pensioners, capital cities | 56 |
| 4.5 | People receiving an unemployment benefit, capital cities | 58 |
| 4.6 | Dependent children of selected pensioners and beneficiaries, capital cities | 60 |
| 5 | Health Status | |
| 5.1 | Health status indicators by socioeconomic disadvantage of area and sex, Australia, late 1980s | 63 |
| 5.2 | Rate ratio of mortality inequality by socioeconomic disadvantage of area, 1985-87 and 1995-97 | 64 |
| 5.3 | Generic names for merged Statistical Local Areas | 67 |
| 5.4 | People reporting their health as fair or poor, capital cities | 72 |
| 5.5 | Physical Component Summary, capital cities, 1995 | 74 |
| 5.6 | Estimated number of people with a handicap, capital cities | 76 |
| 5.7 | Deaths by cause and age, Australian Capital Territory, 1992 to 1995 | 81 |
| 5.8 | Infant deaths, capital cities | 86 |
| 5.9 | Deaths of males aged 15 to 64 years from all causes, capital cities | 88 |
| 5.10 5.11 | Deaths of females aged 15 to 64 years from all causes, capital cities Deaths of people aged 15 to 64 years from cancer, capital cities | 90 92 |
| 5.11 | Deaths of people aged 15 to 64 years from lung cancer, capital cities | 92 94 |
| 0.16 | Dound of people agen to to of years normaling cancer, capital clues | 04 |

5.12 Deaths of people aged 15 to 64 years from lung cancer, capital cities

| Chapte | Chapter & Table | |
|--------------|--|------------|
| 5.13 | Deaths of people aged 15 to 64 years from circulatory system diseases, capital cities | 96 |
| 5.14 | Deaths of people aged 15 to 64 years from respiratory system diseases, capital cities | 98 |
| 5.15 | Deaths from accidents, poisonings & violence, by cause, Australian Capital Territory, 1992 to 1995 | 101 |
| 5.16 | Deaths of people aged 15 to 64 years from accidents, poisonings and violence, capital cities | 102 |
| 5.17 | Deaths of people aged 15 to 24 years from accidents, poisonings and violence, capital cities | 104 |
| 5.18 | Deaths of people aged 15 to 64 years: years of potential life lost, capital cities, 1992 to 1995 | 106 |
| 5.19 | Total Fertility Rate, capital cities, 1992 to 1995 | 110 |
| 6 | Utilisation of health services | |
| 6.1 | Health service use by socioeconomic disadvantage of area and sex, Australia, late 1980s | 113 |
| 6.2 | Admissions of Indigenous Australians to public acute and private hospitals, by cause, Australia, 1996/97 | 116 |
| 6.3 | Public acute and private hospital admissions included in the analysis, Australian Capital Territory, 1995/96 | 122 |
| 6.4 | Public acute and private hospital admissions, by type of admission: Comparison between editions | 124 |
| 6.5 | Admissions of residents of Australian Capital Territory by State/Territory of location of hospital, 1995/96 | 124 |
| 6.6 | Admissions to public acute hospitals and private hospitals, capital cities | 126 |
| 6.7 | Admissions to public acute hospitals, capital cities, 1995/96 | 128 |
| 6.8 | Admissions to private hospitals, capital cities, 1995/96 | 130 |
| 6.9 | Admissions of males, capital cities | 132 |
| 6.10 | Admissions of females, capital cities | 134 |
| 6.11 | Same day admissions, capital cities, 1995/96 | 136 |
| 6.12 | Admissions with a principal diagnosis of infectious and parasitic diseases, capital cities | 138 |
| 6.13 | Admissions with a principal diagnosis of cancer, capital cities | 140 |
| 6.14 | Admissions with a principal diagnosis of lung cancer, capital cities | 142 |
| 6.15 | Admissions of females aged 40 years and over with a principal diagnosis of breast cancer, capital cities | 144 |
| 6.16 | Admissions with a principal diagnosis of psychosis, capital cities, 1995/96 | 146 |
| 6.17 | Admissions with a principal diagnosis of neurotic, personality or other mental disorders, capital cities, 1995/96 | 148 |
| 6.18 | Admissions with a principal diagnosis of circulatory system diseases, capital cities | 150 |
| 6.19 | Admissions with a principal diagnosis of ischaemic heart disease, capital cities | 152 |
| 6.20 | Admissions with a principal diagnosis of respiratory system diseases, capital cities | 154 |
| 6.21 | Admissions of 0 to 4 year olds with a principal diagnosis of respiratory system diseases, capital cities | 156 |
| 6.22 | Admissions with a principal diagnosis of bronchitis, emphysema or asthma, capital cities | 158 |
| 6.23 6.24 | Admissions with an external cause of accidents, poisonings and violence, capital cities | 160 163 |
| 6.25 | Admission rates for selected sentinel procedures, public and private hospitals, 1996/1997 Standardised admission ratios for selected surgical procedures, Australian Capital Territory | 163 |
| 6.26 | | 165 |
| 6.27 | Admissions for a surgical procedure, capital cities, 1995/96 Same day admissions for a surgical procedure, capital cities, 1995/96 | 168 |
| 6.28 | Admissions with a principal procedure of tonsillectomy and/or adenoidectomy, capital cities, 1995/96 | 108 |
| 6.29 | Admissions with a principal procedure of tonsilectomy and/or adenoidectomy, capital cities, 1995/96 Admissions of children aged 0 to 9 years with a principal procedure of myringotomy, capital cities, 1995/96 | 170 |
| 6.30 | Admissions of females aged 15 to 44 years with a principal procedure of Mynigotomy, capital cities, 1995/96 | 172 |
| 6.31 | Admissions of females aged 10 to 44 years with a principal procedure of caesarean section, capital cities, 1995/96 Admissions of females aged 30 years and over with a principal procedure of hysterectomy, capital cities, 1995/96 | 174 |
| 6.32 | Admissions of remains aged so years and over with a principal procedure of hysterectomy, capital cities, 1995/96 | 178 |
| 6.33 | Admissions with a principal procedure of hip replacement, capital ches, 1995/96 | 180 |
| 6.34 | Admissions with a principal procedure of endoscopy, capital cities, 1995/96 | 182 |
| 6.35 | Location of Royal Flying Doctor Service bases and number of services, 1997 | 186 |
| 6.36 | General medical practitioner services to males, capital cities | 188 |
| 6.37 | General medical practitioner services to females, capital cities | 190 |
| 6.38 | Proportion of children who were fully immunised at 12 months of age, capital cities, 1998 | 192 |
| 7 | Availability of selected health services | |
| 7.1 | Patient days for nursing home type patients in public acute hospitals, by area, States and Territories, 1997/98 | 196 |
| 7.2 | Nursing home and hostel places per 1,000 population aged 70 years and over, 1997 | 196 |
| 7.3 | Population per general medical practitioner, capital cities | 198 |
| 7.4 | Public acute hospital beds per 1,000 population, capital cities | 200 |
| 7.5 | Private hospitals beds per 1,000 population, capital cities | 200 |
| 7.6 | Nursing home places per 1,000 population aged 70 years and over, capital cities | 202 |
| 7.7 | Hostel places per 1,000 population aged 70 years and over, capital cities | 202 |

| Chapt | Chapter & Table | |
|-------|--|-----|
| 8 | Statistical analysis | |
| 8.1 | Correlation matrix for SLAs in Canberra-Queanbeyan | 207 |
| 8.2 | Correlation matrix for postcode groups in Canberra-Queanbeyan | 209 |
| 8.3 | Variables used in cluster analysis | 211 |
| 8.4 | Composition of postcode groups clusters in Canberra-Queanbeyan | 212 |
| 9 | Summary of findings | |
| 9.1 | Changes in demographic and socioeconomic status variables, by Section of Territory, Australian Capital Territory | 219 |
| 9.2 | Changes in health status variables, by Section of Territory, Australian Capital Territory | 220 |
| Appe | ndix | |
| AI | SLAs not mapped: Population less than 100 | 231 |
| A2 | Key to Statistical Local Areas in Canberra-Queanbeyan, 1996 | 233 |
| A3 | Key to Canberra-Queanbeyan SLA groupings, 1996 | 234 |
| A4 | Data sources | 236 |
| A5 | ICD–9 Codes for causes of death mapped in Chapter 5 | 237 |
| A6 | ICD–9 Codes for diagnoses/external causes mapped in Chapter 6 | 237 |
| A7 | ICPM Codes for surgical procedures mapped in Chapter 6 | 237 |

List of figures

Chapter & Figure

| 3 3.1 | Demography and socioeconomic status SEIFA Index of Relative Socio-Economic Disadvantage, capital cities | 46 |
|-----------------|---|-----|
| 4 | Income support payments | |
| 4.1 | Age pensioners, Canberra-Queanbeyan, 1996 | 50 |
| 4.2 | Disability support pensioners, Canberra-Queanbeyan, 1996 | 50 |
| 4.3 | Female sole parent pensioners, Canberra-Queanbeyan, 1996 | 51 |
| 4.4 | Unemployment beneficiaries, Canberra-Queanbeyan, 1996 | 51 |
| 5 | Health Status | |
| 5.1 | Death rates of people aged from 15 to 64 years, by cause, Australia | 80 |
| 5.2 | Death rates of people aged from 15 to 64 years, by cause, Australian Capital Territory | 80 |
| 5.3 | Deaths from all causes, by age and sex, Australian Capital Territory, 1992 to 1995 | 82 |
| 5.4 | Deaths from cancer, by age and sex, Australian Capital Territory, 1992 to 1995 | 82 |
| 5.5 | Deaths from circulatory system diseases, by age and sex, Australian Capital Territory, 1992 to 1995 | 83 |
| 5.6 | Deaths from respiratory system diseases, by age and sex, Australian Capital Territory, 1992 to 1995 | 83 |
| 5.7 | Deaths from accidents, poisonings and violence, by age and sex, Australian Capital Territory, 1992 to 1995 | 83 |
| 5.8 | Suicide rates of people aged from 25 to 64 years, Australian Capital Territory | 84 |
| 5.9 | Suicide rates of people aged from 15 to 24 years, Australian Capital Territory | 85 |
| 5.10 | Total Fertility Rate, Canberra-Queanbeyan and All capital cities, 1992 to 1995 | 109 |
| 6 | Utilisation of health services | |
| 6.1 | Admissions to public acute and private hospitals, by age, Australian Capital Territory and Australia, 1995/96 | 116 |
| 6.2 | Admissions to public acute and private hospitals, by age and sex, Australian Capital Territory, 1995/96 | 117 |
| 6.3 | Admissions to public acute hospitals, by age and sex, Australian Capital Territory, 1995/96 | 117 |
| 6.4 | Admissions to private hospitals, by age and sex, Australian Capital Territory, 1995/96 | 118 |
| 6.5 | Same day admissions, by age and sex, Australian Capital Territory, 1995/96 | 118 |
| 6.6 | Admissions for circulatory system diseases, by age and sex, Australian Capital Territory, 1995/96 | 119 |
| 6.7 | Admissions for respiratory system diseases, by age and sex, Australian Capital Territory, 1995/96 | 119 |
| 6.8 | Admissions from accidents, poisonings and violence, by age and sex, Australian Capital Territory, 1995/96 | 119 |
| 6.9 | Admissions for a surgical procedure, by age and sex, Australian Capital Territory, 1995/96 | 120 |
| 6.10 | Same day admissions for a surgical procedure, by age and sex, Australian Capital Territory, 1995/96 | 120 |
| 6.11 | General medical practitioner services, by age and sex, Australian Capital Territory, 1996-97 | 186 |
| 9 | Summary of findings | |
| 9.1 | Differentials in IRSD scores for SLAs in Canberra-Queanbeyan | 220 |
| 9.2 | Health status differentials by quintile of socioeconomic disadvantage of area, Canberra-Queanbeyan | 222 |
| 9.3 | Health service utilisation differentials by quintile of socioeconomic disadvantage of area, Canberra-Queanbeyan | 223 |
| 9.4 | Change in health status by quintile of socioeconomic disadvantage of area, Canberra-Queanbeyan | 226 |

Page

Acknowledgements

The atlas series was produced with the assistance of a number of people and organisations. This atlas for the Australian Capital Territory was produced by John Glover, Vija Watts and Sarah Tennant, with the assistance of Kevin Harris. Sarah was also responsible for day to day management of the data (for checking and storing it), for producing many of the tables and graphs, and for generally keeping in touch with the whole project. Some of the early drafting of Chapter 3 in this atlas was undertaken by David Forster and Cameron Joyce, and Caroline Bruce was responsible for the majority of the work in checking and validating the Census data that was supplied for all of the atlases. These three people moved on to other jobs in the early stages of this project. Lucy Glover checked the data in the drafts against the source material and edited it as necessary. Nicholas Glover inserted many of the map files (as did Kieran Moors) and set up the graphs in Chapter 9.

Outside the Public Health Information Development Unit (PHIDU), Prometheus Information Pty Ltd was the major contributor to the project. Prometheus is contracted by the Commonwealth Department of Health and Aged Care to develop HealthWIZ, the software which was used to produce the maps in this atlas and the data tables (on which the maps are based) in Volume 1.1. Some of the information was already held by Prometheus, and other information needed to be obtained from various Commonwealth, State and Territory agencies and added to the HealthWIZ database in a way that ensured comparability. This was no small task. Although the HealthWIZ software included a mapping facility, the particular approach to publishing the atlas required that special arrangements be made to output the maps in a suitable format. For example, the maps were exported from HealthWIZ and pasted into frames in a MS Word document. Each of these documents was then inserted into the appropriate page in the atlas. Much of the work was highly complex and technical, and required attention to detail and knowledge of the datasets (in particular in identifying potential problems in the data and following these up to confirm or correct them) and statistical geography over a number of years. The quality of the final result, evident in the published product, is testimony to their efforts. George Preston, a Director of the company, was always willing to assist. His knowledge of health statistics and his statistical expertise were frequently of value in making decisions about alternative approaches to the analysis and interpretation of data. Daryel Akerlind and Alain Remont designed the software enhancements to provide the pullouts and town overlays for the maps. Other major contributors at Prometheus were Jane Gorrie and Jennifer Chorley, Zlatan Dzumhur, Jane Lindsay, Jennie Widdowson, Ayse Idehen and (in the earlier stages of the project) Swandi Candra.

In addition to funding the project, the Commonwealth Department of Health and Aged Care took a keen interest in the ongoing work. A number of people had a key role in this, including Ruth Parslow, Karl Higgins and Frances Byers (in aspects of project establishment and contract management) and Jan Bennett and Brendan Gibson (overall direction of the project). In more recent months, Joy Eshpeter and Renata Rustowski have had a major role in seeing the project signed off and in negotiating release arrangements. The support and encouragement of this group of people (and others in the Department) has been greatly appreciated, as were their comments on the final drafts.

The South Australian Department of Human Services had contract responsibility for the atlas for much of the time over which it was produced. They provided a supportive environment in which the atlas could be produced, and made possible the transition of responsibility for the project to PHIDU in April 1999. The support of many people in the Department, including the Chief Executive, Christine Charles, is gratefully acknowledged.

The Australian Institute of Health and Welfare (AIHW) provided the majority of the hospital inpatient data in Chapter 6. They also provided other material for this chapter, in addition to the data mapped. The main individuals who assisted were Jenny Hargreaves, Janis Shaw and Paul Halliday. The State and Territory health agencies all provided additional details of hospital admissions not available from the AIHW (of admissions of residents of one State or Territory occurring in another).

Colin Mathers of the AIHW and Theo Voss of the Victorian Department of Human Services readily agreed to the use in the atlas of the results of their recent (unpublished) studies into links between socioeconomic status and health status.

All of the data in Chapter 3, as well as a range of other data used throughout the atlas, were purchased from the Australian Bureau of Statistics (ABS). The staff of the Adelaide office of the ABS handled these requests and were thorough and helpful in assisting us to define the data so that it was comparable with that published in the first edition of the atlas. The staff of the ABS in Canberra were also helpful in providing details of population counts for areas affected by boundary changes that had implications for the datasets being used.

The cluster analysis was a major exercise and was undertaken in a highly professional manner by Graeme Tucker. The ARIA graphs and the graphs in Chapter 9 were exported from a module produced by Andrew McAlindon. This module streamlined the calculation of the many rates, percentages etc. used in these sections of the atlas, as well as the production of the final graphs.

Diana Hetzel and Jeanette Pope provided invaluable support in strengthening the discussion of the socioeconomic determinants of health in Chapter 1. Diana contributed in a number of other ways, in particular by providing much of the referenced background material in the topic introductions throughout the atlas; she also read the final drafts. Tony Woollacott and Fearnley Szuster read a number of earlier drafts and Fearnley also provided many useful comments on later drafts. Thanks are also due to Julie Johinke who produced the cover design, and to Paul Doherty for the photographic image used on the cover.

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

John Glover Project Manager December 1999

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 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 Canberra-Queanbeyan there were 107 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