

# Population health profile of the Bankstown

## Division of General Practice: supplement

Population Profile Series: No. 5a

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Australian Government

Australian Institute of  
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Interpretation of differences between data in this profile and similar data from other sources needs to be undertaken with care, as such differences may be due to the use of different methodology to produce the data.

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# Population health profile of the Bankstown Division of General Practice: supplement

This profile is a supplement to the *Population health profile of the Bankstown Division of General Practice*, dated November 2005, available from [www.publichealth.gov.au](http://www.publichealth.gov.au). This supplement includes an update of the population of the Bankstown Division of General Practice, as well as additional indicators and aspects of the Division's socioeconomic status, use of GP services and health. The contents are:

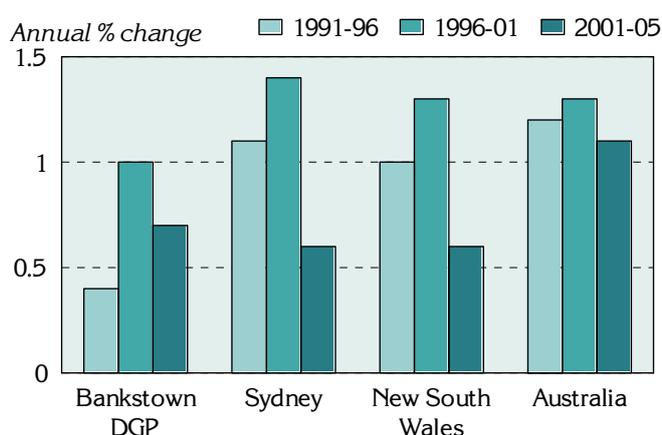
- Population [updated to June 2005]
- Additional socio-demographic indicators
- Unreferred attendances – patient flow/ GP catchment
- Additional prevalence estimates: chronic diseases and risk factors combined
- Avoidable hospitalisations: hospital admissions resulting from ambulatory care sensitive conditions
- Avoidable mortality

For further information on the way Division totals in this report have been estimated, please refer to the 'Notes on the data' section of the *Population health profile*, November 2005 ([www.publichealth.gov.au](http://www.publichealth.gov.au)).

## Population

The Bankstown Division had an Estimated Resident Population of 170,048 at 30 June 2005.

**Figure 1: Annual population change, Bankstown DGP, Sydney, New South Wales and Australia, 1991 to 1996, 1996 to 2001 and 2001 to 2005**



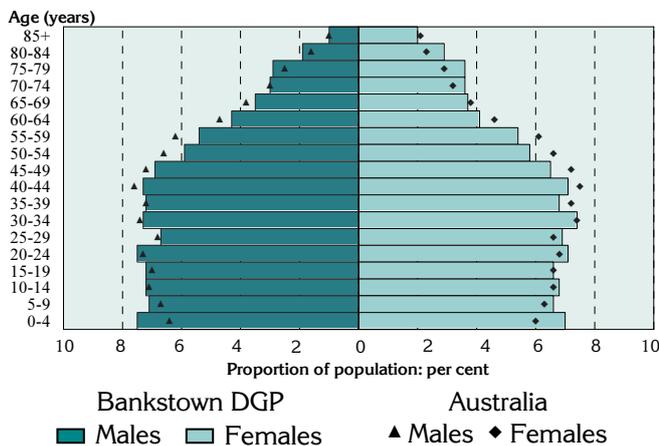
Over the five years from 1991 to 1996, the Division's population increased by 0.4% on average each year, less than half that in Sydney (1.1%) and New South Wales (1.0%). From 1996 to 2001, the annual percentage increase in the Division was 1.0%, again lower than for Sydney (1.4%) and New South Wales (1.3%). The average growth rate from 2001 to 2005 declined to 0.7% per year, marginally higher than the annual increases for Sydney and New South Wales, and lower than for Australia (1.1%).

**Table 1: Population by age, Bankstown DGP and Australia, 2005**

| Age group (years) | Bankstown DGP  |              | Australia         |              |
|-------------------|----------------|--------------|-------------------|--------------|
|                   | No.            | %            | No.               | %            |
| 0-14              | 35,925         | 21.1         | 3,978,221         | 19.6         |
| 15-24             | 24,140         | 14.2         | 2,819,834         | 13.9         |
| 25-44             | 48,284         | 28.4         | 5,878,107         | 28.9         |
| 45-64             | 37,697         | 22.2         | 4,984,446         | 24.5         |
| 65-74             | 11,723         | 6.9          | 1,398,831         | 6.9          |
| 75-84             | 9,725          | 5.7          | 954,143           | 4.7          |
| 85+               | 2,554          | 1.5          | 315,027           | 1.5          |
| <b>Total</b>      | <b>170,048</b> | <b>100.0</b> | <b>20,328,609</b> | <b>100.0</b> |

As shown in the accompanying tables and the age-sex pyramid below, Bankstown DGP had a higher proportion of children than Australia as a whole, with 21.1% at ages 0 to 14 years (compared to 19.6% for Australia) (Table 1). There were relatively fewer people in the Division aged 45 to 64 years (22.2%) compared to Australia (24.5%), and a higher proportion of people aged 75 to 84 years (5.7%, compared to 4.7%).

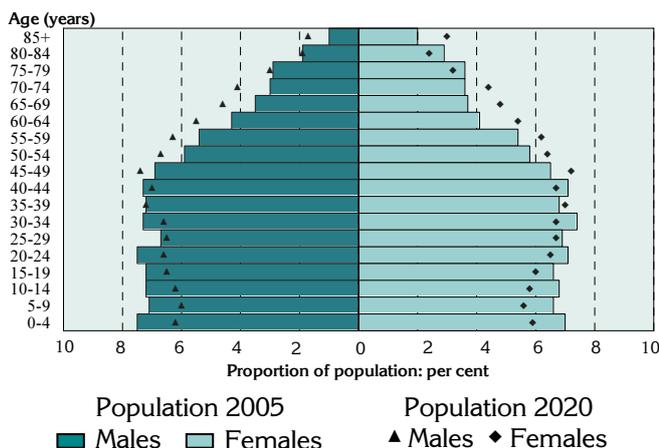
**Figure 2: Population in Bankstown DGP and Australia, by age and sex, 2005**



The age distribution of the Division's population is similar to that for Australia. The most notable differences are:

- at younger ages – higher proportions of children aged 0 to 9 years;
- from 35 to 69 years – lower proportions of females aged 35 to 64 years and males aged 40 to 69 years; and
- at the oldest ages – higher proportions of females aged 70 to 84 years and males aged 75 to 84 years.

**Figure 3: Population projections for Bankstown DGP, by age and sex, 2005 and 2020**



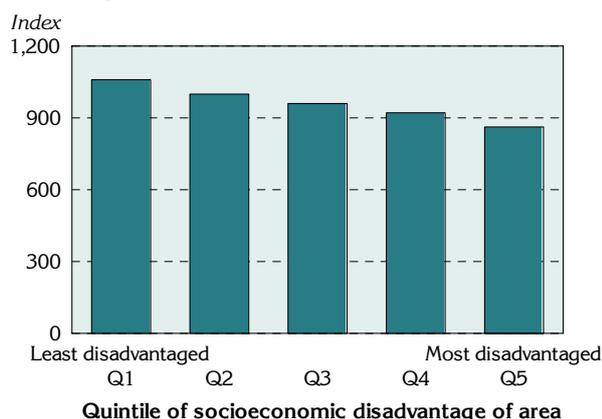
The population projections for the Division show a number of changes in age distribution, with the 2020 population projected to have:

- at younger ages – much lower proportions of males and females aged 0 to 34 years (only marginally lower at ages 25 to 29 years);
- at ages 45 to 74 years – higher proportions of males and females (most pronounced at ages 60 to 74 years); and
- higher proportions of males and females aged 85 and over.

## Additional socio-demographic indicators

Please refer to the earlier *Population health profile of the Bankstown Division of General Practice*, dated November 2005, available from [www.publichealth.gov.au](http://www.publichealth.gov.au), for other socio-demographic indicators.

**Figure 4: Index of Relative Socio-Economic Disadvantage, Bankstown DGP, 2001**



One of four socioeconomic indexes for areas produced at the 2001 ABS Census is the Index of Relative Socio-Economic Disadvantage.

The Bankstown DGP has an index score of 960, below the score for Australia of 1000: this score varies across the Division, from a score of 862 in the most disadvantaged areas to 1059 in the least disadvantaged areas.

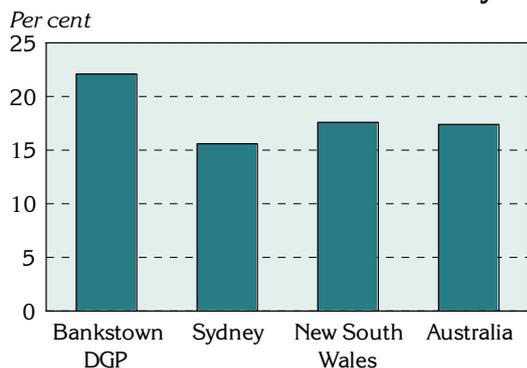
Note: each 'quintile' comprises approximately 20% of the population of the Division.

A new indicator, produced for the first time at the 2001 ABS Census, shows the number of jobless families with children under 15 years of age. There were substantially more jobless families in the Bankstown DGP (22.1%), compared to Sydney as a whole (15.6%) (Figure 5, Table 2).

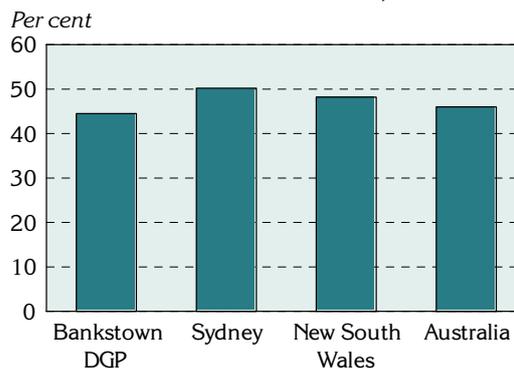
With the introduction of the 30% rebate for private health insurance premiums, there was a once-off registration process, providing information of the postcode and residence of those who had such insurance (these data are not available at this area level for later dates). In 2001, the Division had a notably lower proportion of the population with private health insurance (44.5%), compared to Sydney (50.2%) (Figure 5, Table 2).

**Figure 5: Socio-demographic indicators, Bankstown DGP, Sydney, New South Wales and Australia, 2001**

**Jobless families with children under 15 years old**



**Private health insurance, 30 June**

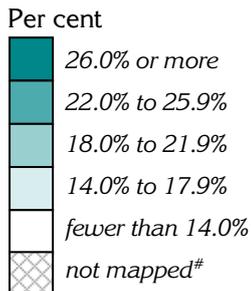
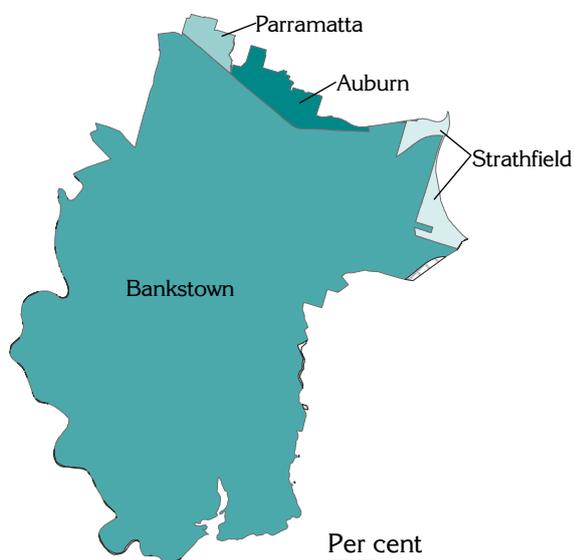


**Table 2: Socio-demographic indicators, Bankstown DGP, Sydney, New South Wales and Australia, 2001**

| Indicator   | Bankstown DGP |      | Sydney    |      | New South Wales |      | Australia |      |
|---|---------------|------|-----------|------|-----------------|------|-----------|------|
|   | No.           | %    | No.       | %    | No.             | %    | No.       | %    |
| Jobless families with children under 15 years old | 3,930         | 22.1 | 66,526    | 15.6 | 121,409         | 17.6 | 357,563   | 17.4 |
| Private health insurance (30 June)                | 70,630        | 44.5 | 2,000,802 | 50.2 | 3,062,382       | 48.2 | 8,671,106 | 46.0 |

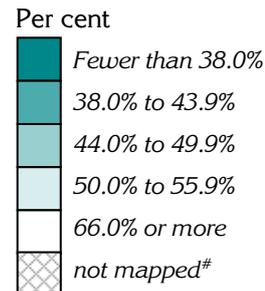
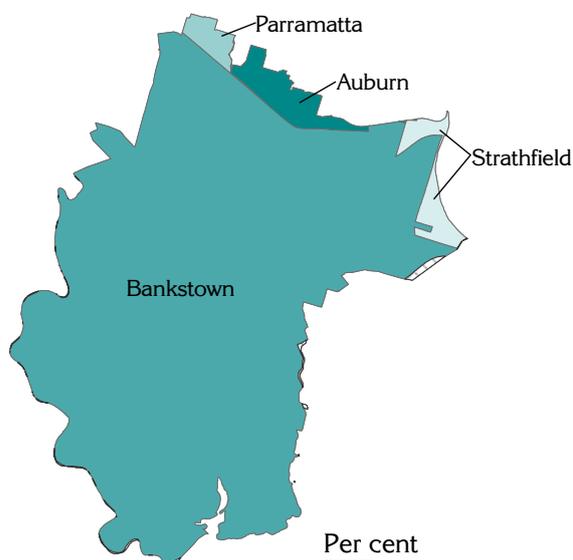
Details of the distribution of jobless families (Map 1) and of the population covered by private health insurance (Map 2) are shown by Statistical Local Area (SLA) in Maps 1 and 2, respectively.

**Map 1: Jobless families with children under 15 years of age by SLA, Bankstown DGP, 2001**



<sup>#</sup> data were not mapped: see 'Mapping' note under Methods

**Map 2: People covered by private health insurance by SLA, Bankstown DGP, 30 June 2001**



<sup>#</sup> data were not mapped: see 'Mapping' note under Methods

## GP services to residents of the Bankstown DGP

The following tables include information, purchased from Medicare Australia, of the movement of patients and GPs between Divisions. Note that the data only include unreferred attendances recorded under Medicare: unreferred attendances not included are those for which the cost is met by the Department of Veterans' Affairs or a compensation scheme; or are provided by salaried medical officers in hospitals, community health services or Aboriginal Medical Services, and which are not billed to Medicare. At any attendance, one or more services may have been provided.

More than two thirds (71.0%) of all unreferred attendances for residents of Bankstown DGP were provided in the Division (ie. by a GP with a provider number in the Division): this represented 863,674 GP unreferred attendances (Table 3). A further 8.9% of unreferred attendances to residents were provided by GPs with a provider number in Canterbury DGP.

**Table 3: Patient flow – People living<sup>1</sup> in Bankstown DGP by Division where attendance occurred<sup>2</sup>, 2003/04**

| Division     |   | Unreferred attendances |                |
|--------------|---|------------------------|----------------|
| Number       | Name  | No.                    | % <sup>3</sup> |
| 205          | Bankstown DGP   | 863,674                | 71.0           |
| 204          | Canterbury DGP  | 108,681                | 8.9            |
| 201          | Central Sydney DGP  | 52,636                 | 4.3            |
| 211          | Fairfield DGP   | 46,386                 | 3.8            |
| 206          | Western Sydney DGP (now WentWest & part Hawkesbury-Hills) | 42,909                 | 3.5            |
| 209          | St George DGP   | 36,493                 | 3.0            |
| 210          | Liverpool DGP   | 14,259                 | 1.2            |
| 202          | Eastern Sydney DGP  | 10,038                 | 0.8            |
| 214          | Sutherland DGP  | 7,306                  | 0.6            |
| 215          | Macarthur DGP   | 6,813                  | 0.6            |
| Other        | ..  | 27,198                 | 2.2            |
| <b>Total</b> | <b>..</b>   | <b>1,216,393</b>       | <b>100.0</b>   |

<sup>1</sup> Based on address in Medicare records

<sup>2</sup> Division of GP based on provider number

<sup>3</sup> Proportion of all unreferred attendances of patients with an address in Division 205 by Division in which attendance occurred

Over two thirds (69.6%) of unreferred attendances were also provided by GPs with a provider number in Bankstown DGP were also to people living in the Division (ie. their Medicare address was in the Division) (Table 4). A further 8.4% of unreferred attendances by GPs in the Division were to residents from Canterbury DGP.

**Table 4: GP catchment – Unreferred attendances<sup>2</sup> provided by GPs<sup>1</sup> in Bankstown DGP by Division of patient address<sup>2</sup>, 2003/04**

| Division     |   | Unreferred attendances |                |
|--------------|---|------------------------|----------------|
| Number       | Name  | No.                    | % <sup>3</sup> |
| 205          | Bankstown DGP   | 863,674                | 69.6           |
| 204          | Canterbury DGP  | 104,712                | 8.4            |
| 211          | Fairfield DGP   | 50,975                 | 4.1            |
| 206          | Western Sydney DGP (now WentWest & part Hawkesbury-Hills) | 42,193                 | 3.4            |
| 210          | Liverpool DGP   | 39,489                 | 3.2            |
| 209          | St George DGP   | 31,998                 | 2.6            |
| 201          | Central Sydney DGP  | 27,888                 | 2.2            |
| 215          | Macarthur DGP   | 17,289                 | 1.4            |
| 214          | Sutherland DGP  | 16,844                 | 1.4            |
| 212          | Hornsby Ku-ring-gai Ryde DGP                              | 7,603                  | 0.6            |
| Other        | ..  | 37,614                 | 3.0            |
| <b>Total</b> | <b>..</b>   | <b>1,240,279</b>       | <b>100.0</b>   |

<sup>1</sup> Division of GP based on provider number

<sup>2</sup> Based on address in Medicare records

<sup>3</sup> Proportion of all unreferred attendances to GPs with a provider number in Division 205 by Division of patient address

## Additional prevalence estimates: chronic diseases and risk factors combined

Please refer to the earlier *Population health profile of the Bankstown Division of General Practice*, dated November 2005, available from [www.publichealth.gov.au](http://www.publichealth.gov.au), for the separate prevalence estimates of chronic disease; measures of self-reported health and risk factors. The process by which the estimates have been made, and details of their limitations, are also described in the 'Notes on the data' section of this earlier profile.

In this section two estimates, which combine the prevalence of selected chronic diseases with a risk factor, are shown for the Division. The measures are of people who *had asthma and were smokers*, and people who *had type 2 diabetes and were overweight or obese*: note that the estimates have been predicted from self-reported data, and are not based on clinical records or physical measures.

It is estimated that there were relatively fewer people in Bankstown DGP who had asthma and were smokers, compared to Australia as a whole, but more than in Sydney (Figure 6, Table 5): that is, the prevalence rates per 1,000 population were lower than for Australia. However, there was a higher rate of people in Bankstown DGP who had type 2 diabetes and were overweight/ obese, compared to Sydney and Australia.

**Figure 6: Estimates of selected chronic diseases and risk factors, Bankstown DGP, Sydney and Australia, 2001**



**Table 5: Estimates of selected chronic diseases and risk factors, Bankstown DGP, Sydney, New South Wales and Australia, 2001**

| Variable  | Bankstown DGP    |                   | Sydney           |                   | New South Wales  |                   | Australia        |                   |
|---|------------------|-------------------|------------------|-------------------|------------------|-------------------|------------------|-------------------|
|   | No. <sup>1</sup> | Rate <sup>2</sup> | No. <sup>1</sup> | Rate <sup>2</sup> | No. <sup>1</sup> | Rate <sup>2</sup> | No. <sup>1</sup> | Rate <sup>1</sup> |
| Had asthma and smoked <sup>3</sup>                        | 2,980            | 18.5              | 72,198           | 17.0              | 126,542          | 19.7              | 397,734          | 20.8              |
| Had type 2 diabetes & were overweight/ obese <sup>4</sup> | 2,868            | 18.1              | 59,451           | 15.9              | 100,235          | 15.7              | 283,176          | 15.2              |

<sup>1</sup> No. is a weighted estimate of the number of people in Bankstown DGP reporting these chronic conditions/ with these risk factors and is derived from synthetic predictions from the 2001 NHS

<sup>2</sup> Rate is the indirectly age-standardised rate per 1,000 population

<sup>3</sup> Population aged 18 years and over

<sup>4</sup> Population aged 15 years and over

## Avoidable hospitalisations: hospital admissions resulting from ambulatory care sensitive conditions

The rationale underlying the concept of avoidable hospitalisations is that timely and effective care of certain conditions, delivered in a primary care setting, can reduce the risk of hospitalisation. Admissions to hospital for these ambulatory care sensitive (ACS) conditions can be avoided in three ways. Firstly, for conditions that are usually preventable through immunisation or nutritional intervention, disease can be prevented almost entirely. Secondly, diseases or conditions that can lead to rapid onset problems, such as dehydration and gastroenteritis, can be treated. Thirdly, chronic conditions, such as congestive heart failure, can be managed to prevent or reduce the severity of acute flare-ups to avoid hospitalisation.

This measure does not include other aspects of avoidable morbidity, namely potentially preventable hospitalisations (hospitalisations resulting from diseases preventable through population based health promotion strategies, e.g. alcohol-related conditions; and most cases of lung cancer) and hospitalisations avoidable through injury prevention (e.g. road traffic accidents).

For information on the ambulatory care sensitive conditions and ICD codes included in the analysis in this section, please refer to the *Atlas of Avoidable Hospitalisations in Australia: ambulatory care-sensitive conditions*, available from [www.publichealth.gov.au](http://www.publichealth.gov.au).

In 2001 to 2002, 3,543 admissions from ambulatory care sensitive (ACS) conditions accounted for 7.5% of all admissions in the Bankstown DGP (Table 6, Figure 7), notably fewer than for both New South Wales (8.6%) and Australia (8.7%).

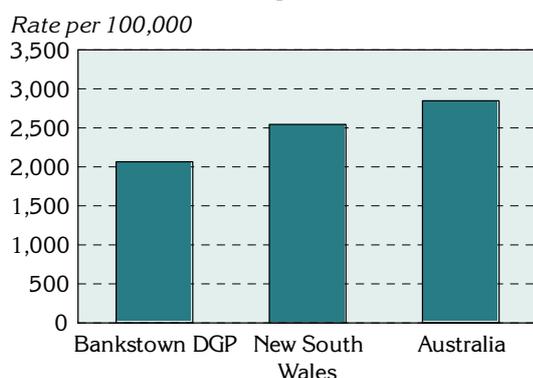
**Table 6: Avoidable<sup>1</sup> and unavoidable hospitalisations, Bankstown DGP, New South Wales, and Australia, 2001/02**

| Category               | Bankstown DGP |                   |              | New South Wales  |                   |              | Australia        |                   |              |
|------------------------|---------------|-------------------|--------------|------------------|-------------------|--------------|------------------|-------------------|--------------|
|                        | No.           | Rate <sup>2</sup> | %            | No.              | Rate <sup>2</sup> | %            | No.              | Rate <sup>2</sup> | %            |
| Avoidable <sup>1</sup> | 3,543         | 2,066.4           | 7.5          | 170,066          | 2,543.8           | 8.6          | 552,786          | 2,847.5           | 8.7          |
| Unavoidable            | 43,768        | 26,039.2          | 92.5         | 1,810,901        | 27,255.3          | 91.4         | 5,818,199        | 29,970.7          | 91.3         |
| <b>Total</b>           | <b>47,311</b> | <b>28,098.1</b>   | <b>100.0</b> | <b>1,980,967</b> | <b>29,798.8</b>   | <b>100.0</b> | <b>6,370,985</b> | <b>32,818.2</b>   | <b>100.0</b> |

<sup>1</sup> Admissions resulting from ACS conditions

<sup>2</sup> Rate is the indirectly age-standardised rate per 100,000 population

**Figure 7: Avoidable hospitalisations<sup>1</sup>, Bankstown DGP, New South Wales and Australia, 2001/02**



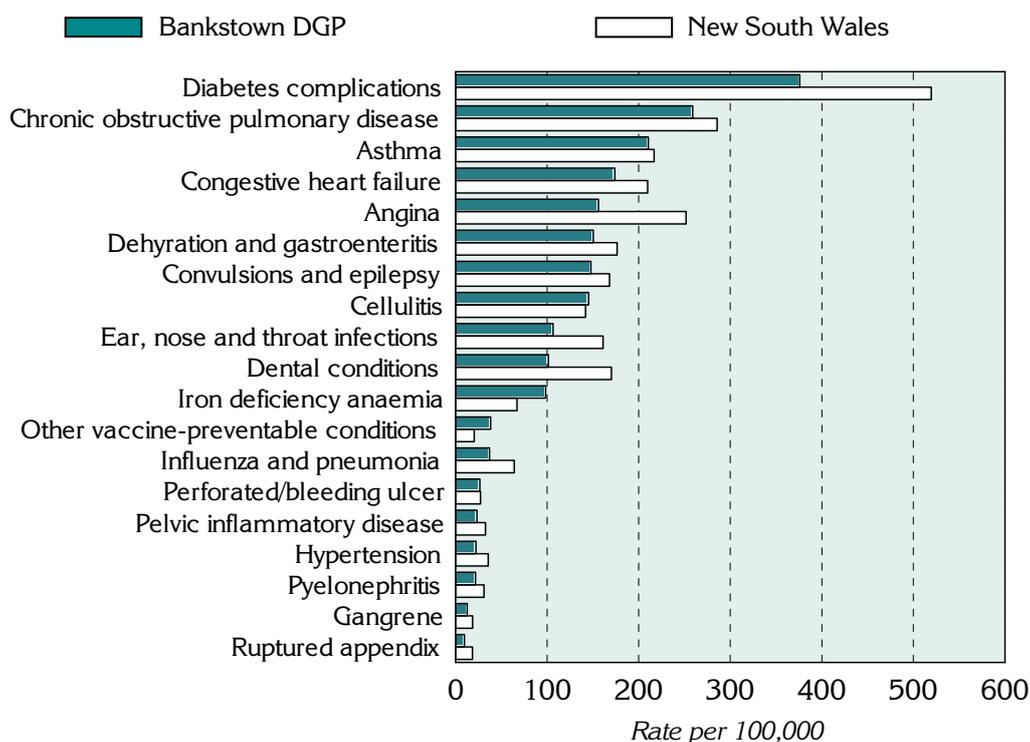
The rate of avoidable hospitalisations in Bankstown DGP is markedly lower, a rate of 2,066.4 admissions per 100,000 population, compared to both New South Wales (a rate of 2,543.8), and Australia (2,847.5).

<sup>1</sup> Admissions resulting from ACS conditions

Diabetes complications, chronic obstructive pulmonary disease, congestive heart failure and asthma were the four conditions with the highest rates of avoidable hospitalisations in the Bankstown DGP (Figure 8, Table 7).

Table 7 shows the number, rate and proportion of avoidable hospitalisations, for the individual ACS conditions, as well as the vaccine-preventable; acute; and chronic sub-categories. Almost two-thirds of avoidable hospitalisations are attributable to chronic health conditions. The predominance of hospitalisations for chronic conditions in this period can be primarily attributed to the large number of admissions for diabetes complications. Convulsions and epilepsy, dehydration and gastroenteritis and cellulitis have the highest rates of avoidable hospitalisations for the acute conditions.

**Figure 8: Avoidable hospitalisations<sup>1</sup> by condition, Bankstown DGP and New South Wales, 2001/02**



<sup>1</sup> Admissions resulting from ACS conditions: excludes nutritional deficiencies as less than ten admissions

**Table 7: Avoidable hospitalisations<sup>1</sup> by condition, Bankstown DGP, New South Wales and Australia, 2001/02**

| Sub-category/ condition                             | Bankstown DGP |                   | New South Wales |                   | Australia      |                   |
|---|---------------|-------------------|-----------------|-------------------|----------------|-------------------|
|   | No.           | Rate <sup>2</sup> | No.             | Rate <sup>2</sup> | No.            | Rate <sup>2</sup> |
| <b>Vaccine-preventable</b>                          | <b>126</b>    | <b>75.2</b>       | <b>5,630</b>    | <b>84.5</b>       | <b>16,573</b>  | <b>85.4</b>       |
| Influenza and pneumonia                             | 63            | 37.0              | 4,280           | 64.1              | 13,021         | 67.1              |
| Other vaccine preventable                           | 63            | 38.2              | 1,350           | 20.4              | 3,552          | 18.3              |
| <b>Chronic<sup>3</sup></b>                          | <b>2,250</b>  | <b>1,295.9</b>    | <b>106,803</b>  | <b>1,587.0</b>    | <b>352,545</b> | <b>1,816</b>      |
| Diabetes complications                              | 653           | 375.9             | 34,975          | 519.5             | 141,345        | 728.1             |
| Iron deficiency anaemia                             | 168           | 98.3              | 4,494           | 67.0              | 16,451         | 84.7              |
| Hypertension  | 38            | 22.2              | 2,398           | 35.7              | 6,354          | 32.7              |
| Congestive heart failure                            | 304           | 174.0             | 14,270          | 209.7             | 42,447         | 218.6             |
| Angina  | 269           | 156.0             | 16,987          | 251.8             | 49,963         | 257.4             |
| Chronic obstructive pulmonary disease               | 462           | 259.0             | 19,359          | 285.6             | 54,853         | 282.6             |
| Asthma  | 356           | 210.5             | 14,289          | 216.8             | 41,009         | 211.3             |
| <b>Acute</b>  | <b>1,252</b>  | <b>744.8</b>      | <b>62,543</b>   | <b>946.0</b>      | <b>200,913</b> | <b>1,035</b>      |
| Dehydration and gastroenteritis                     | 252           | 150.4             | 11,725          | 176.4             | 37,766         | 194.5             |
| Convulsions and epilepsy                            | 248           | 147.7             | 11,093          | 168.1             | 31,137         | 160.4             |
| Ear, nose and throat infections                     | 183           | 106.5             | 10,615          | 161.1             | 32,075         | 165.2             |
| Dental conditions                                   | 169           | 101.3             | 11,196          | 170.3             | 43,667         | 224.9             |
| Perforated/bleeding ulcer                           | 46            | 26.5              | 1,830           | 27.1              | 5,795          | 29.9              |
| Ruptured appendix                                   | 16            | 9.6               | 1,212           | 18.5              | 3,866          | 19.9              |
| Pyelonephritis                                      | 36            | 21.7              | 2,038           | 31.0              | 7,386          | 38.0              |
| Pelvic inflammatory disease                         | 37            | 23.3              | 2,134           | 32.7              | 6,547          | 33.7              |
| Cellulitis  | 243           | 145.2             | 9,451           | 142.0             | 28,204         | 145.3             |
| Gangrene  | 22            | 12.6              | 1,249           | 18.6              | 4,470          | 23.0              |
| <b>Total avoidable hospitalisations<sup>4</sup></b> | <b>3,543</b>  | <b>2,066.4</b>    | <b>170,066</b>  | <b>2,543.8</b>    | <b>552,786</b> | <b>2,847.5</b>    |

<sup>1</sup> Admissions resulting from ACS conditions

<sup>2</sup> Rate is the indirectly age-standardised rate per 100,000 population

<sup>3</sup> Excludes nutritional deficiencies as less than ten admissions

<sup>4</sup> Sub-category and condition numbers and rates do not add to the reported total avoidable admissions: five conditions (influenza & pneumonia, other vaccine preventable, diabetes complications, ruptured appendix and gangrene) are counted in 'any diagnosis', so may be included in more than one condition group

## Avoidable mortality

Avoidable and amenable mortality comprises those causes of death that are potentially avoidable at the present time, given available knowledge about social and economic policy impacts, health behaviours, and health care (the latter relating to the subset of amenable causes).

For information on the avoidable and amenable mortality conditions and ICD codes included in the analysis in this section, please refer to the *Australian and New Zealand Atlas of Avoidable Mortality*, available from [www.publichealth.gov.au](http://www.publichealth.gov.au).

Almost three quarters (72.0%) of all deaths in Bankstown DGP at ages 0 to 74 years over the period 1997 to 2001 are considered to be avoidable, marginally higher than the proportion for Sydney (71.3%) (Table 8). Deaths amenable to health care (amenable mortality, a subset of avoidable mortality) accounted for 29.7% of all deaths at ages 0 to 74 years in Bankstown DGP, compared to 28.6% in Sydney.

**Table 8: Avoidable and unavoidable mortality (0 to 74 years) by area, Bankstown DGP, Sydney, New South Wales and Australia, 1997 to 2001**

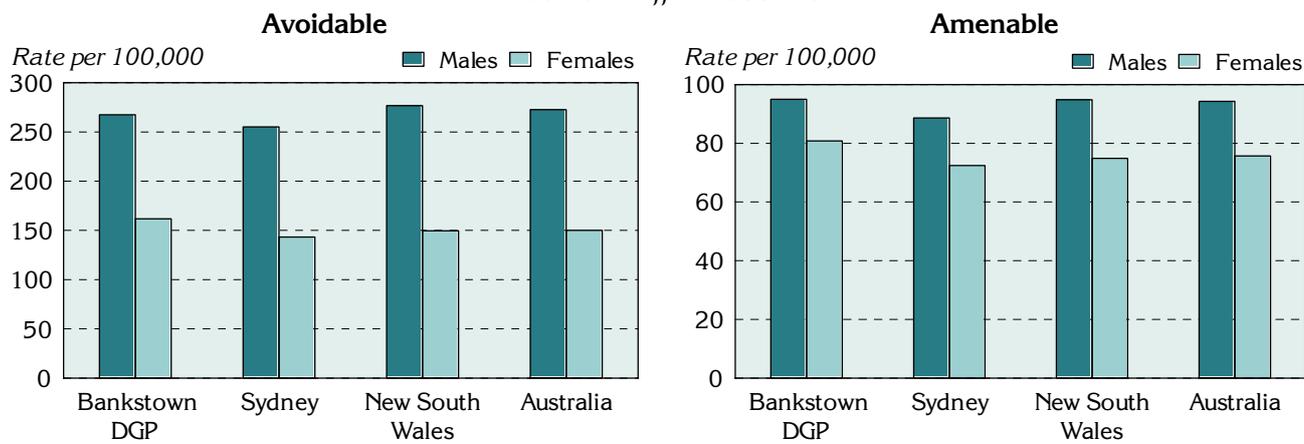
| Mortality category     | Bankstown DGP |                   | Sydney        |                   | New South Wales |                   | Australia      |                   |
|------------------------|---------------|-------------------|---------------|-------------------|-----------------|-------------------|----------------|-------------------|
|                        | No.           | Rate <sup>1</sup> | No.           | Rate <sup>1</sup> | No.             | Rate <sup>1</sup> | No.            | Rate <sup>1</sup> |
| Avoidable              | 1,768         | 215.2             | 36,709        | 199.5             | 66,151          | 213.6             | 189,845        | 211.8             |
| % of total             | <b>72.0</b>   | ..                | <b>71.3</b>   | ..                | <b>71.4</b>     | ..                | <b>71.5</b>    | ..                |
| (Amenable)             | (730)         | (88.0)            | (14,736)      | (80.6)            | (26,374)        | (85.0)            | (76,249)       | (85.1)            |
| (% of total)           | <b>(29.7)</b> | (..)              | <b>(28.6)</b> | (..)              | <b>(28.5)</b>   | (..)              | <b>(28.7)</b>  | (..)              |
| Unavoidable            | 689           | 83.2              | 14,768        | 80.6              | 26,468          | 85.3              | 75,582         | 84.3              |
| % of total             | <b>28.0</b>   | ..                | <b>28.7</b>   | ..                | <b>28.6</b>     | ..                | <b>28.5</b>    | ..                |
| <b>Total mortality</b> | <b>2,457</b>  | <b>298.5</b>      | <b>51,477</b> | <b>280.1</b>      | <b>92,619</b>   | <b>299.0</b>      | <b>265,427</b> | <b>296.1</b>      |
| %                      | <b>100.0</b>  | ..                | <b>100.0</b>  | ..                | <b>100.0</b>    | ..                | <b>100.0</b>   | ..                |

<sup>1</sup> Rate is the indirectly age-standardised rate per 100,000 population

Rates of avoidable mortality were higher for males than for females in each of the comparator areas. Bankstown DGP's rate of avoidable mortality for males was 267.5 deaths per 100,000 males, more than one and a half times the rate of 161.7 for females. Similarly, the rate of amenable mortality for males in the Division was higher, 95.0, compared to 80.8 for females, a rate ratio of 1.18 (Figure 9, Table 9).

**Figure 9: Avoidable and amenable mortality by sex (0 to 74 years), Bankstown DGP, Sydney, New South Wales and Australia, 1997 to 2001**

*Note: the different scales*



**Table 9: Avoidable and amenable mortality (0 to 74 years) by sex, Bankstown DGP, Sydney, New South Wales and Australia, 1997 to 2001**

| Mortality category and sex        | Bankstown DGP |                   | Sydney        |                   | New South Wales |                   | Australia      |                   |
|-----------------------------------|---------------|-------------------|---------------|-------------------|-----------------|-------------------|----------------|-------------------|
|                                   | No.           | Rate <sup>1</sup> | No.           | Rate <sup>1</sup> | No.             | Rate <sup>1</sup> | No.            | Rate <sup>1</sup> |
| <b>Avoidable</b>                  |               |                   |               |                   |                 |                   |                |                   |
| Males                             | 1,084         | 267.5             | 23,505        | 255.1             | 43,074          | 276.8             | 123,026        | 272.6             |
| Females                           | 684           | 161.7             | 13,204        | 143.2             | 23,077          | 149.6             | 66,819         | 150.1             |
| <b>Total</b>                      | <b>1,768</b>  | <b>215.2</b>      | <b>36,709</b> | <b>199.5</b>      | <b>66,151</b>   | <b>213.6</b>      | <b>189,845</b> | <b>211.8</b>      |
| <b>Rate ratio-M:F<sup>2</sup></b> | ..            | <b>1.65**</b>     | ..            | <b>1.78**</b>     | ..              | <b>1.85**</b>     | ..             | <b>1.82**</b>     |
| <b>Amenable</b>                   |               |                   |               |                   |                 |                   |                |                   |
| Males                             | 389           | 95.0              | 8,068         | 88.6              | 14,811          | 94.8              | 42,568         | 94.3              |
| Females                           | 341           | 80.8              | 6,667         | 72.4              | 11,562          | 74.9              | 33,681         | 75.7              |
| <b>Total</b>                      | <b>730</b>    | <b>88.0</b>       | <b>14,736</b> | <b>80.6</b>       | <b>26,374</b>   | <b>85.0</b>       | <b>76,249</b>  | <b>85.1</b>       |
| <b>Rate ratio-M:F<sup>2</sup></b> | ..            | <b>1.18*</b>      | ..            | <b>1.22**</b>     | ..              | <b>1.27**</b>     | ..             | <b>1.25**</b>     |

<sup>1</sup> Rate is the indirectly age-standardised rate per 100,000 population

Another way of measuring premature mortality is to calculate the number of years of life lost (YLL)<sup>1</sup>, which takes into account the years a person could have expected to live at each age of death based on the average life expectancy at that age.

The numbers of YLL for Bankstown DGP, Sydney, New South Wales and Australia over the period of analysis are shown in Table 10 by mortality category. However, given the substantial variation in the populations of these areas, a comparison of the proportion of YLL for each area is also shown.

YLL from avoidable mortality accounted for 72.8% of total YLL (0 to 74 years) for Bankstown DGP, higher than the 71.7% for Sydney. Similarly, the proportion of YLL from amenable mortality of 29.7% for Bankstown DGP was higher than the 28.0% for Sydney.

**Table 10: Years of life lost from avoidable mortality (0 to 74 years), Bankstown DGP, Sydney, New South Wales and Australia, 1997 to 2001**

| Mortality category | Bankstown DGP |              | Sydney         |              | New South Wales  |              | Australia        |              |
|--------------------|---------------|--------------|----------------|--------------|------------------|--------------|------------------|--------------|
|                    | No.           | % of total   | No.            | % of total   | No.              | % of total   | No.              | % of total   |
| Avoidable          | 30,044        | 72.8         | 644,323        | 71.7         | 1,147,183        | 71.8         | 3,327,375        | 71.9         |
| (Amenable)         | (12,269)      | (29.7)       | (251,183)      | (28.0)       | (444,143)        | (27.8)       | (1,298,430)      | (28.0)       |
| Unavoidable        | 11,243        | 27.2         | 254,314        | 28.3         | 451,496          | 28.2         | 1,303,289        | 28.1         |
| <b>Total</b>       | <b>41,287</b> | <b>100.0</b> | <b>898,637</b> | <b>100.0</b> | <b>1,598,679</b> | <b>100.0</b> | <b>4,630,664</b> | <b>100.0</b> |

<sup>1</sup> Years of life lost were calculated using the remaining life expectancy method (this provides an estimate of the average time a person would have lived had he or she not died prematurely). The reference life table was the Coale and Demeny Model Life Table West level 26 female (for both males and females), with the YLL discounted to net present value at a rate of 3 per cent per year.

In each of the areas in Table 11, the majority of avoidable mortality at ages 0 to 74 years occurred in the 65 to 74 year age group (Table 11), with 1,360.5 deaths per 100,000 population in Bankstown Division. The 45 to 64 year age group accounted for the next highest rate of avoidable death in all of the comparators, with a rate 337.2 in Bankstown Division.

**Table 11: Avoidable and amenable mortality by age, Bankstown DGP, Sydney, New South Wales and Australia, 1997 to 2001**

| Mortality category and age (years) | Bankstown DGP |                   | Sydney        |                   | New South Wales |                   | Australia      |                   |
|------------------------------------|---------------|-------------------|---------------|-------------------|-----------------|-------------------|----------------|-------------------|
|                                    | No.           | Rate <sup>1</sup> | No.           | Rate <sup>1</sup> | No.             | Rate <sup>1</sup> | No.            | Rate <sup>1</sup> |
| <b>Avoidable</b>                   |               |                   |               |                   |                 |                   |                |                   |
| 0-14                               | 55            | 30.7              | 1,098         | 26.6              | 1,836           | 27.5              | 5,669          | 28.8              |
| 15-24                              | 48            | 41.2              | 1,303         | 44.9              | 2,241           | 50.9              | 7,045          | 52.8              |
| 25-44                              | 184           | 76.0              | 4,802         | 74.3              | 8,119           | 82.9              | 24,356         | 83.9              |
| 45-64                              | 588           | 337.2             | 12,603        | 289.9             | 22,358          | 311.1             | 64,282         | 304.9             |
| 65-74                              | 892           | 1,360.5           | 16,903        | 1,307.3           | 31,597          | 1,375.8           | 88,493         | 1,358.1           |
| <b>Total</b>                       | <b>1,768</b>  | <b>215.2</b>      | <b>36,709</b> | <b>199.5</b>      | <b>66,151</b>   | <b>213.6</b>      | <b>189,845</b> | <b>211.8</b>      |
| <b>Amenable</b>                    |               |                   |               |                   |                 |                   |                |                   |
| 0-24                               | 54            | 17.9              | 1,013         | 14.5              | 1,658           | 14.8              | 5,083          | 15.4              |
| 25-44                              | 52            | 21.7              | 1,093         | 17.2              | 1,878           | 19.2              | 5,946          | 20.5              |
| 45-64                              | 241           | 138.1             | 5,384         | 123.9             | 9,444           | 131.4             | 27,464         | 130.3             |
| 65-74                              | 383           | 580.0             | 7,245         | 559.0             | 13,394          | 582.9             | 37,756         | 579.4             |
| <b>Total</b>                       | <b>730</b>    | <b>88.0</b>       | <b>14,736</b> | <b>80.6</b>       | <b>26,374</b>   | <b>85.0</b>       | <b>76,249</b>  | <b>85.1</b>       |

<sup>1</sup> Rate is the indirectly age-standardised rate per 100,000 population

Table 12 shows the number and age-standardised death rate by selected major condition group and selected causes included in the avoidable mortality classification.

The highest rates of avoidable mortality for the selected major condition groups in the Bankstown DGP were for cancer, with a rate of 69.9 deaths per 100,000 population, and cardiovascular diseases, 69.2 deaths per 100,000 population (Table 12, Figure 10). For the selected causes within the condition groups, the two major causes of avoidable mortality were ischaemic heart disease and lung cancer, with rates of 49.4 per 100,000 population and 24.6 per 100,000, respectively.

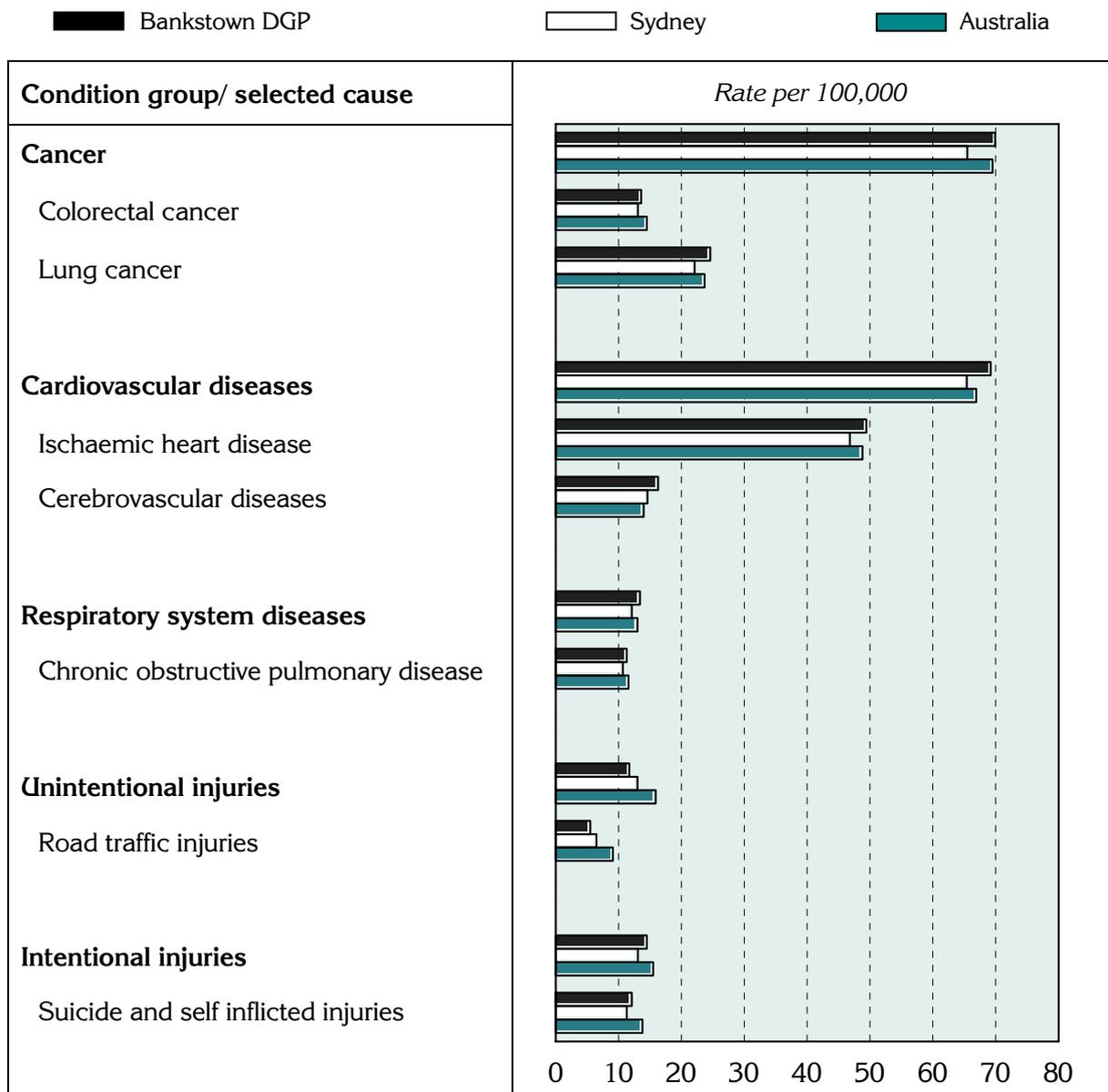
**Table 12: Avoidable mortality (0 to 74 years) by major condition group and selected cause, Bankstown DGP, Sydney, New South Wales and Australia, 1997 to 2001**

| Condition group/<br>selected cause    | Bankstown DGP |                   | Sydney        |                   | New South Wales |                   | Australia     |                   |
|---------------------------------------|---------------|-------------------|---------------|-------------------|-----------------|-------------------|---------------|-------------------|
|                                       | No.           | Rate <sup>1</sup> | No.           | Rate <sup>1</sup> | No.             | Rate <sup>1</sup> | No.           | Rate <sup>1</sup> |
| <b>Cancer</b>                         | <b>574</b>    | <b>69.9</b>       | <b>11,919</b> | <b>65.5</b>       | <b>21,158</b>   | <b>68.1</b>       | <b>62,338</b> | <b>69.5</b>       |
| Colorectal cancer                     | 113           | 13.6              | 2,382         | 13.1              | 4,318           | 13.9              | 13,008        | 14.5              |
| Lung cancer                           | 204           | 24.6              | 3,983         | 22.1              | 7,297           | 23.4              | 21,208        | 23.7              |
| <b>Cardiovascular diseases</b>        | <b>584</b>    | <b>69.2</b>       | <b>11,824</b> | <b>65.4</b>       | <b>21,925</b>   | <b>70.3</b>       | <b>59,945</b> | <b>66.9</b>       |
| Ischaemic heart disease               | 414           | 49.4              | 8,461         | 46.8              | 15,935          | 51.1              | 43,712        | 48.8              |
| Cerebrovascular diseases              | 140           | 16.3              | 2,641         | 14.6              | 4,656           | 14.9              | 12,558        | 14.0              |
| <b>Respiratory system diseases</b>    | <b>116</b>    | <b>13.4</b>       | <b>2,177</b>  | <b>12.1</b>       | <b>4,313</b>    | <b>13.8</b>       | <b>11,612</b> | <b>13.0</b>       |
| Chronic obstructive pulmonary disease | 98            | 11.3              | 1,916         | 10.7              | 3,882           | 12.4              | 10,395        | 11.6              |
| <b>Unintentional injuries</b>         | <b>90</b>     | <b>11.7</b>       | <b>2,513</b>  | <b>13.0</b>       | <b>4,540</b>    | <b>15.0</b>       | <b>14,224</b> | <b>15.9</b>       |
| Road traffic injuries                 | 43            | 5.5               | 1,249         | 6.5               | 2,528           | 8.4               | 8,138         | 9.1               |
| <b>Intentional injuries</b>           | <b>111</b>    | <b>14.5</b>       | <b>2,558</b>  | <b>13.1</b>       | <b>4,497</b>    | <b>14.9</b>       | <b>13,891</b> | <b>15.5</b>       |
| Suicide and self inflicted injuries   | 92            | 12.1              | 2,211         | 11.3              | 3,941           | 13.0              | 12,393        | 13.8              |

<sup>1</sup> Rate is the indirectly age-standardised rate per 100,000 population

Rates in the Division were in almost all cases higher than those for Sydney, and generally higher than for Australia (Figure 10).

**Figure 10: Avoidable mortality (0 to 74 years) by major condition group and selected cause, Bankstown DGP, Sydney and Australia, 1997 to 2001**



# Notes on the data

## Data sources and limitations

### General

References to 'Sydney' relate to the Sydney Statistical Division.

### Data sources

Table 13 details the data sources for the material presented in this profile.

**Table 13: Data sources**

| Section  | Source  |
|--|---|
| <b>Population</b>  |   |
| Figures 1 and 2; Table 1   | Estimated Resident Population, ABS, 30 June for the periods shown   |
| Figure 3   | Estimated Resident Population, ABS, 30 June 2005;<br>Population Projections, ABS, 30 June 2020 (unpublished) <sup>1</sup>   |
| <b>Additional socio-demographic indicators</b>   |   |
| Figure 4   | ABS SEIFA package, Census 2001  |
| Table 2; Figure 5; Map 1   | Jobless families, ABS, 2001 (unpublished)   |
| Table 2; Figure 5; Map 2   | Private health insurance, from Hansard  |
| <b>GP services – patient flow/ GP catchment</b>  |   |
| Tables 3 and 4   | Medicare Australia, 2003/04   |
| <b>Additional prevalence estimates: chronic diseases and risk factors combined</b>                         |   |
| Figure 6; Table 5  | Estimated from 2001 National Health Survey (NHS), ABS (unpublished)   |
| <b>Avoidable hospitalisations: hospital admissions resulting from ambulatory care sensitive conditions</b> |   |
| Tables 6 and 7;<br>Figures 7 and 8   | National Hospital Morbidity Database at Australian Institute of Health & Welfare, 2001/02; data produced in HealthWIZ by Prometheus Information (not available in public release dataset) |
| <b>Avoidable mortality</b>   |   |
| Tables 8, 9, 10, 11 and 12;<br>Figures 9 and 10  | ABS Deaths 1997-2001; data produced in HealthWIZ by Prometheus Information (not available in public release dataset)  |

<sup>1</sup> The projected population at June 2020 is based on the 2002 ERP. As such, it is somewhat dated, and does not take into account more recent demographic trends: it is however the only projection series available at the SLA level for the whole of Australia.

## Methods

For background information on the additional prevalence estimates presented in this profile, please refer to the 'Notes on the data' section of the *Population health profile*, November 2005 ([www.publichealth.gov.au](http://www.publichealth.gov.au)).

Please also refer to the November 2005 profile for information on the data converters.

## Mapping

In some Divisions the maps may include a very small part of an SLA which has not been allocated any population; or has a population of less than 100 or has less than 1% of the SLAs total population; or there were less than five cases (i.e. jobless families, people with health insurance): these areas are mapped with a pattern.

## Statistical geography of the Bankstown DGP

For information on the postcodes in the Division, please refer the Department of Health and Ageing website <http://www.health.gov.au/internet/wcms/publishing.nsf/Content/health-pcd-programs-divisions-divspc.htm>; also included in table format in the 'Notes on the data' section of the *Population health profile*, November 2005 ([www.publichealth.gov.au](http://www.publichealth.gov.au)).

Statistical Local Areas (SLAs) are defined by the Australian Bureau of Statistics to produce areas for the presentation and analysis of data. In the Bankstown Division, parts of Auburn and Strathfield lie within the Division, as does the majority of the Bankstown SLA.

**Table 14: SLAs and population in Bankstown DGP, 2005 on 2001 boundaries**

| SLA code | SLA name    | Per cent of the SLA's population in the Division* | Estimate of the SLA's 2005 population in the Division |
|----------|-------------|---|---|
| 10200    | Auburn      | 6.5   | 4,167   |
| 10350    | Bankstown   | 92.7  | 164,128   |
| 16250    | Parramatta  | 0.4   | 640   |
| 17100    | Strathfield | 3.5   | 1,113   |

\* Proportions are approximate and are known to be incorrect in some cases, due to errors in the concordance used to allocate CDs to form postal areas

## Acknowledgements

Funding for these profiles was provided by the Population Health Division of the Department of Health and Ageing (DoHA).

## Further developments and updates

When the re-aligned boundaries are released and DoHA have made known their geographic composition, PHIDU will examine the need to revise and re-publish these profiles (*Population health profile*, dated November 2005, and the *Population health profile: supplement*, dated March 2007).

## PHIDU contact details

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