Population health profile of the Border

Division of General Practice: supplement

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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 Border Division of General Practice: supplement

This profile is a supplement to the *Population health profile of the Border Division of General Practice*, dated November 2005, available from www.publichealth.gov.au. This supplement includes an update of the population of the Border 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).

Population

The Border Division had an Estimated Resident Population of 102,151 at 30 June 2005.

Figure 1: Annual population change, Border DGP, country Victoria, Victoria and Australia, 1991 to 1996, 1996 to 2001 and 2001 to 2005



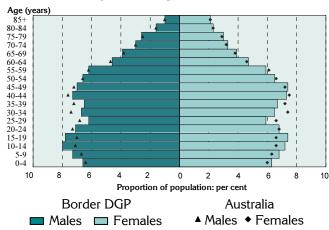
Over the five years from 1991 to 1996, the Division's population increased by 1.0% on average each year, greater than for country Victoria (0.2%), and Victoria (0.6%) but less than for Australia as a whole (1.2%). From 1996 to 2001, the annual percentage increase in the Division was again 1.0%, slightly higher than in country Victoria (0.9%), and lower than in Victoria. From 2001 to 2005, the growth rate increase of 1.0% was consistent with the annual increases of 1.0% in country Victoria and Victoria.

Table 1: Population by age, Border DGP and Australia, 2005

| Age group | Border | DGP | Australia |
|-----------|---------|-------|------------------|
| (years) | No. | % | No. % |
| 0-14 | 21,598 | 21.1 | 3,978,221 19.6 |
| 15-24 | 14,841 | 14.5 | 2,819,834 13.9 |
| 25-44 | 27,074 | 26.5 | 5,878,107 28.9 |
| 45-64 | 24,985 | 24.5 | 4,984,446 24.5 |
| 65-74 | 7,196 | 7.0 | 1,398,831 6.9 |
| 75-84 | 4,869 | 4.8 | 954,143 4.7 |
| 85+ | 1,588 | 1.6 | 315,027 1.5 |
| Total | 102,151 | 100.0 | 20,328,609 100.0 |

As shown in the accompanying table and the age-sex pyramid below (Figure 2), the Border DGP had more children aged 0 to 14 years (21.1%) and young people aged 15 to 24 years than Australia as a whole (19.6% and 13.9%, respectively), but fewer people aged 25 to 44 years (26.5%, compared to 28.9%) (Table 1). The proportions of the Division's population aged 65 years and over age were slightly higher than for Australia.

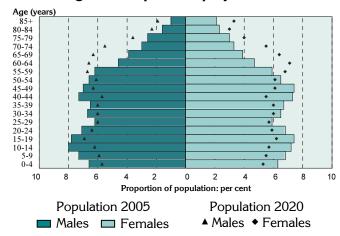
Figure 2: Population in Border DGP and Australia, by age and sex, 2005



The profile of the Division's population is closely similar to that for Australia as a whole. The most notable differences in age distribution (when compared to Australia overall) are:

- at younger ages relatively more children and young people aged 0 to 19 years; and
- from 25 to 44 years relatively fewer males and females.

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



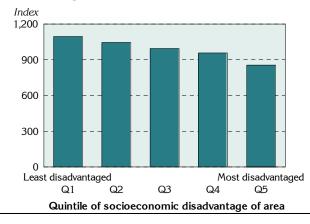
The population projections for the Division show a number of changes in age distribution, with the 2020 population projected to have:

- at younger ages relatively fewer children and young people aged 0 to 19 years;
- from 20 to 54 years relatively fewer males and females; and
- from 55 years onwards relatively more males and females, in particular at ages 60 to 74 years.

Additional socio-demographic indicators

Please refer to the earlier *Population health profile of the Border Division of General Practice*, dated November 2005, available from www.publichealth.gov.au, for other socio-demographic indicators.

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



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

The Border DGP has an index score of 989, below the score for Australia of 1000: this score varies widely across the Division, from a low of 854 in the most disadvantaged areas to 1094 in the least disadvantaged areas.

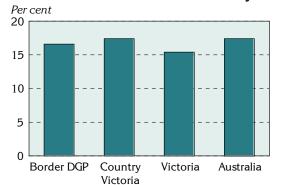
Note: each 'quintile' comprises approximately 20% of the population of the Division.

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 fewer jobless families in the Border DGP (16.6%), compared to country Victoria as a whole (17.4%) (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 markedly higher proportion of people with private health insurance (52.9%), compared to country Victoria (43.0%) (Figure 5, Table 2).

Figure 5: Socio-demographic indicators, Border DGP, country Victoria, Victoria and Australia, 2001

Jobless families with children under 15 years old



Private health insurance, 30 June

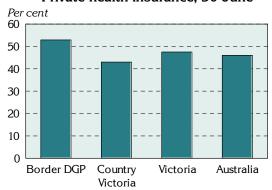


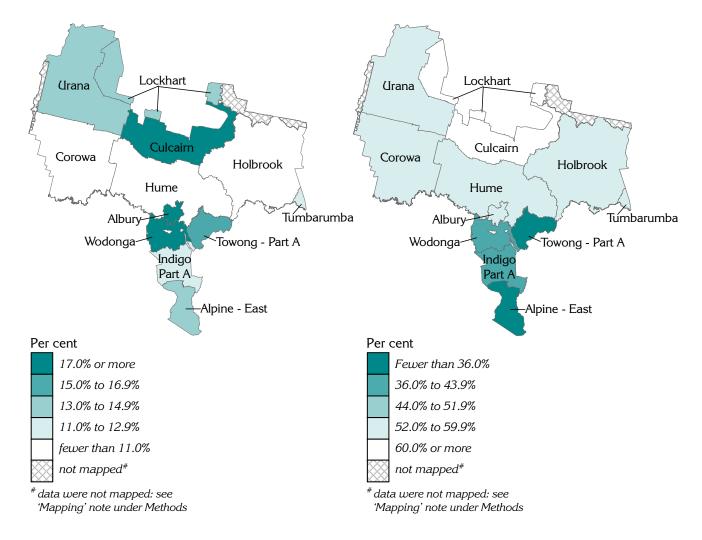
Table 2: Socio-demographic indicators, Border DGP, country Victoria, Victoria and Australia, 2001

| Indicator | Border DGP | | Country Victoria | | Victoria | | Australia | |
|---|------------|------|------------------|------|-----------|------|-----------|------|
| | No. | % | No. | % | No. | % | No. | % |
| Jobless families with children under 15 years old | 1,808 | 16.6 | 24,724 | 17.4 | 77,142 | 15.4 | 357,563 | 17.4 |
| Private health insurance (30 June) | 49,404 | 52.9 | 543,292 | 43.0 | 2,196,890 | 47.5 | 8,671,106 | 46.0 |

Details of the distribution of jobless families and of the population covered by private health insurance 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, Border DGP, 2001

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



GP services to residents of the Border 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.

The majority (89.8%) of all unreferred attendances to residents of Border DGP were provided in the Division (ie. by a GP with a provider number in the Division): this represented 326,598 GP unreferred attendances (Table 3). A further 3.2% of unreferred attendances to residents were provided by GPs with a provider number in North East Victorian DGP, with 1.0% provided by GPs in Riverina DGP.

Table 3: Patient flow – People living¹ in Border DGP by Division where attendance occurred², 2003/04

| Division | | Unreferred a | ttendances |
|----------|--------------------------|--------------|----------------|
| Number | Name | No. | % ³ |
| 329 | Border DGP | 326,598 | 89.8 |
| 319 | North East Victorian DGP | 11,693 | 3.2 |
| 228 | Riverina DGP | 3,503 | 1.0 |
| 301 | Melbourne DGP | 1,459 | 0.4 |
| 304 | Southcity DGP | 770 | 0.2 |
| 232 | Murrumbidgee DGP | 719 | 0.2 |
| Other | | 18,806 | 5.2 |
| Total | | 363,550 | 100.0 |

¹ Based on address in Medicare records

The majority (89.2%) of unreferred attendances provided by GPs with a provider number in Border DGP were also to people living in the Division (ie. their Medicare address was in the Division) (Table 4). A further 7.2% of unreferred attendances provided by GPs in the Division were to people living in North East Victorian DGP, with 0.9% to residents of Riverina DGP.

Table 4: GP catchment – Unreferred attendances provided by GPs¹ in Border DGP by Division of patient address², 2003/04

| Division | | Unreferred a | ttendances |
|----------|--------------------------|--------------|------------|
| Number | Name | No. | %³ |
| 329 | Border DGP | 326,598 | 89.2 |
| 319 | North East Victorian DGP | 26,415 | 7.2 |
| 228 | Riverina DGP | 3,218 | 0.9 |
| 232 | Murrumbidgee DGP | 818 | 0.2 |
| 327 | Goulburn Valley DGP | 596 | 0.2 |
| Other | | 8,455 | 2.3 |
| Total | | 366,100 | 100.0 |

¹ Division of GP based on provider number

² Division of GP based on provider number

³ Proportion of all unreferred attendances of patients with an address in Division 329 by Division in which attendance occurred

² Based on address in Medicare records

³ Proportion of all unreferred attendances to GPs with a provider number in Division 329 by Division of patient address

Additional prevalence estimates: chronic diseases and risk factors combined

Please refer to the earlier *Population health profile of the Border Division of General Practice*, dated November 2005, available from 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 more people in Border DGP who had asthma and were smokers, compared to Australia as a whole (Figure 6, Table 5): that is, the prevalence rates per 1,000 population were higher. However, the rate was below that in country Victoria. In contrast, there were relatively more people in Border DGP who had type 2 diabetes and were overweight/ obese, compared to country Victoria: the rate was consistent with that in Australia.

Figure 6: Estimates of selected chronic diseases and risk factors, Border DGP, country Victoria and Australia, 2001



Table 5: Estimates of selected chronic diseases and risk factors, Border DGP, country Victoria, Victoria and Australia, 2001

| Variable | Border DGP | | Country | Country Victoria | | ria | Austr | Australia | |
|--|------------------|-------------------|------------------|-------------------|------------------|-------------------|------------------|-------------------|--|
| | No. ¹ | Rate ² | No. ¹ | Rate ² | No. ¹ | Rate ² | No. ¹ | Rate ¹ | |
| Had asthma & smoked ³ | 2,127 | 22.9 | 29,424 | 24.6 | 95,664 | 19.9 | 397,734 | 20.8 | |
| Had type 2 diabetes & were overweight/ obese | 1,421 | 15.6 | 19,136 | 14.1 | 69,192 | 15.1 | 283,176 | 15.2 | |

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

² Rate is the indirectly age-standardised rate per 1,000 population

³ Population aged 18 years and over

⁴ 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: www.publichealth.gov.au//qp_divisions_state_territory.html, and download the avoid_hosp_conditions.pdf. For more detailed information, refer to the Atlas of Avoidable Hospitalisations in Australia, also available at www.publichealth.gov.au.

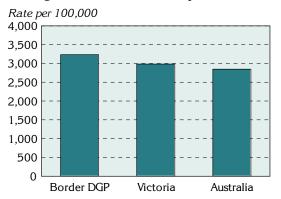
In 2001 to 2002, the 3,192 admissions from ambulatory care sensitive (ACS) conditions accounted for 9.0% of all admissions in the Border DGP (Table 6, Figure 7), marginally above the levels in Victoria (8.8%) and Australia (8.7%).

Table 6: Avoidable¹ and unavoidable hospitalisations, Border DGP, Victoria, and Australia, 2001/02

| Category |] | Border DGP |) | , | Victoria | | | Australia | | | |
|------------------------|--------|-------------------|-------|-----------|-------------------|-------|-----------|-------------------|-------|--|--|
| | No. | Rate ² | % | No. | Rate ² | % | No. | Rate ² | % | | |
| Avoidable ¹ | 3,192 | 3,232.2 | 9.0 | 145,135 | 2,983.2 | 8.8 | 552,786 | 2,847.5 | 8.7 | | |
| Unavoidable | 32,315 | 33,232.8 | 91.0 | 1,510,437 | 31,088.3 | 91.2 | 5,818,199 | 29,970.7 | 91.3 | | |
| Total | 35,508 | 36,466.1 | 100.0 | 1,655,572 | 34,071.5 | 100.0 | 6,370,985 | 32,818.2 | 100.0 | | |

¹ Admissions resulting from ACS conditions

Figure 7: Avoidable hospitalisations¹, Border DGP, Victoria and Australia, 2001/02



The rate of avoidable hospitalisations in Border DGP is notably higher, a rate of 3,232.2 admissions per 100,000 population, compared to both Victoria (a rate of 2,983.2) and Australia (2,847.5).

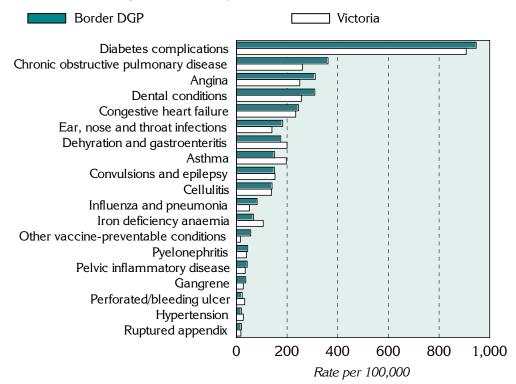
Diabetes complications, chronic obstructive pulmonary disease, angina and dental conditions were the four conditions with the highest rates of avoidable hospitalisations in the Border DGP (Figure 8, Table 7).

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. The majority 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. Dental conditions and ear, nose and throat infections have the highest rates of avoidable hospitalisations for the acute conditions.

² Rate is the indirectly age-standardised rate per 100,000 population

¹ Admissions resulting from ACS conditions

Figure 8: Avoidable hospitalisations¹ by condition, Border DGP and Victoria, 2001/02



¹ Admissions resulting from ACS conditions: excludes nutritional deficiencies as less than ten admissions

Table 7: Avoidable hospitalisations¹ by condition, Border DGP, Victoria and Australia, 2001/02

| Sub-category/ condition | Border | DGP | Victo | oria | Austr | alia |
|---|--------|-------------------|---------|-------------------|---------|-------------------|
| | No. | Rate ² | No. | Rate ² | No. | Rate ² |
| Vaccine-preventable | 136 | 138.8 | 3,293 | 68.0 | 16,573 | 85.4 |
| Influenza and pneumonia | 81 | 82.0 | 2,525 | 52.0 | 13,021 | 67.1 |
| Other vaccine preventable | 55 | 56.8 | 768 | 16.0 | 3,552 | 18.3 |
| Chronic ³ | 2,069 | 2,105.0 | 97,133 | 1,982.6 | 352,545 | 1,816 |
| Diabetes complications | 927 | 946.3 | 44,409 | 906.9 | 141,345 | 728.1 |
| Iron deficiency anaemia | 67 | 68.2 | 5,196 | 105.9 | 16,451 | 84.7 |
| Hypertension | 20 | 20.4 | 1,362 | 27.7 | 6,354 | 32.7 |
| Congestive heart failure | 241 | 245.8 | 11,655 | 234.1 | 42,447 | 218.6 |
| Angina | 305 | 311.2 | 12,285 | 250.4 | 49,963 | 257.4 |
| Chronic obstructive pulmonary disease | 355 | 361.9 | 12,850 | 260.7 | 54,853 | 282.6 |
| Asthma | 154 | 151.2 | 9,376 | 196.9 | 41,009 | 211.3 |
| Acute | 1,120 | 1,126.9 | 50,153 | 1,041.7 | 200,913 | 1,035 |
| Dehydration and gastroenteritis | 169 | 175.1 | 9,761 | 200.0 | 37,766 | 194.5 |
| Convulsions and epilepsy | 149 | 150.3 | 7,297 | 152.4 | 31,137 | 160.4 |
| Ear, nose and throat infections | 189 | 183.0 | 6,653 | 140.5 | 32,075 | 165.2 |
| Dental conditions | 313 | 309.8 | 12,235 | 256.7 | 43,667 | 224.9 |
| Perforated/bleeding ulcer | 22 | 22.9 | 1,618 | 32.9 | 5,795 | 29.9 |
| Ruptured appendix | 20 | 20.1 | 855 | 17.9 | 3,866 | 19.9 |
| Pyelonephritis | 44 | 44.9 | 1,948 | 40.2 | 7,386 | 38.0 |
| Pelvic inflammatory disease | 40 | 42.7 | 1,693 | 34.8 | 6,547 | 33.7 |
| Cellulitis | 138 | 140.8 | 6,751 | 139.0 | 28,204 | 145.3 |
| Gangrene | 36 | 37.3 | 1,342 | 27.3 | 4,470 | 23.0 |
| Total avoidable hospitalisations ⁴ | 3,192 | 3,232.2 | 145,135 | 2,983.2 | 552,786 | 2,847.5 |

¹ Admissions resulting from ACS conditions

² Rate is the indirectly age-standardised rate per 100,000 population

³ Excludes nutritional deficiencies as less than ten admissions

⁴ 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: www.publichealth.gov.au//gp_divisions_state_territory.html and download the avoid_mortality_conditions.pdf. For more detailed information, refer to the Australian and New Zealand Atlas of Avoidable Mortality, also available at www.publichealth.gov.au.

Over two-thirds (72.7%) of all deaths in Border DGP at ages 0 to 74 years over the period 1997 to 2001 are considered to be avoidable, higher than the proportion for country Victoria (70.8%) (Table 8). Deaths amenable to health care (amenable mortality, a subset of avoidable mortality) accounted for 28.4% of all deaths at ages 0 to 74 years in Border DGP, consistent with the 28.7% in country Victoria.

Table 8: Avoidable and unavoidable mortality (0 to 74 years) by area, Border DGP, country Victoria, Victoria and Australia, 1997 to 2001

| Mortality category | Border | DGP | Country ' | Victoria | Victo | oria | Australia | |
|--------------------|--------|-------------------|-----------|-------------------|----------|-------------------|-----------|-------------------|
| • | No. | Rate ¹ | No. | Rate ¹ | No. | Rate ¹ | No. | Rate ¹ |
| Avoidable | 1,042 | 242.0 | 14,812 | 221.0 | 45,466 | 201.3 | 189,845 | 211.8 |
| % of total | 72.7 | | 70.8 | •• | 70.9 | •• | 71.5 | |
| (Amenable) | (407) | (94.6) | (6,001) | (88.2) | (18,406) | (81.4) | (76,249) | (85.1) |
| (% of total) | (28.4) | () | (28.7) | () | (28.7) | () | (28.7) | () |
| Unavoidable | 391 | 90.8 | 6,100 | 90.0 | 18,617 | 82.4 | 75,582 | 84.3 |
| % of total | 27.3 | •• | 29.2 | •• | 29.1 | •• | 28.5 | |
| Total mortality | 1,433 | 332.9 | 20,912 | 311.0 | 64,083 | 283.7 | 265,427 | 296.1 |
| % | 100.0 | •• | 100.0 | | 100.0 | •• | 100.0 | •• |

¹ 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. Border DGP's rate of avoidable mortality for males was 309.7 deaths per 100,000 males, higher than the rate of 173.6 for females. The rate of amenable mortality for males in the Division was also higher, 106.1, compared to 82.9 for females, a rate ratio of 1.28 (Figure 9, Table 9).

Figure 9: Avoidable and amenable mortality by sex (0 to 74 years), Border DGP, country Victoria, Victoria and Australia, 1997 to 2001

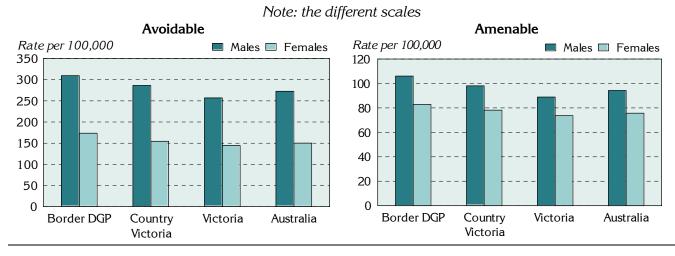


Table 9: Avoidable and amenable mortality (0 to 74 years) by sex, Border DGP, country Victoria, Victoria and Australia, 1997 to 2001

| Mortality category | Bordei | DGP | Country ' | Victoria | Victo | oria | Austr | alia |
|-----------------------------|--------|-------------------|-----------|-------------------|--------|-------------------|---------|-------------------|
| and sex | No. | Rate ¹ | No. | Rate ¹ | No. | Rate ¹ | No. | Rate ¹ |
| Avoidable | | | | | | | | |
| Males | 691 | 309.7 | 9,664 | 286.5 | 29,042 | 257.0 | 123,026 | 272.6 |
| Females | 351 | 173.6 | 5,148 | 154.5 | 16,424 | 144.8 | 66,819 | 150.1 |
| Total | 1,042 | 242.0 | 14,812 | 221.0 | 45,466 | 201.3 | 189,845 | 211.8 |
| Rate ratio-M:F ² | •• | 1.78** | | 1.85** | | 1.77** | | 1.82** |
| Amenable | | | | | | | | |
| Males | 239 | 106.1 | 3,386 | 98.1 | 10,052 | 88.9 | 42,568 | 94.3 |
| Females | 168 | 82.9 | 2,615 | 78.2 | 8,354 | 73.7 | 33,681 | 75.7 |
| Total | 407 | 94.6 | 6,001 | 88.2 | 18,406 | 81.4 | 76,249 | 85.1 |
| Rate ratio-M:F ² | •• | 1.28* | •• | 1.25** | •• | 1.21** | •• | 1.25** |

¹ 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)¹, 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 Border DGP, country Victoria, Victoria and Australia over the period of analysis are shown in Table 10 by mortality category. However, given the substantial variations 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 73.1% of total YLL (0 to 74 years) for Border DGP, higher than the proportion for country Victoria. The proportion of YLL from amenable mortality for Border DGP (27.9%) was lower than that for country Victoria (28.1%).

Table 10: Years of life lost from avoidable mortality (0 to 74 years), Border DGP, country Victoria, Victoria and Australia, 1997 to 2001

| Mortality category | Border DGP | | Country V | ntry Victoria Vic | | ria | Austra | ılia |
|--------------------|------------|--------|------------|-------------------|-----------|--------|-------------|--------|
| | No. | % of | No. | % of | No. | % of | No. | % of |
| | | total | | total | | total | | total |
| Avoidable | 18,014 | 73.1 | 253,666 | 71.2 | 790,054 | 71.5 | 3,327,375 | 71.9 |
| (Amenable) | (6,869) | (27.9) | (100, 131) | (28.1) | (310,758) | (28.1) | (1,298,430) | (28.0) |
| Unavoidable | 6,632 | 26.9 | 102,576 | 28.8 | 315,555 | 28.5 | 1,303,289 | 28.1 |
| Total | 24,647 | 100.0 | 356,242 | 100.0 | 1,105,610 | 100.0 | 4,630,664 | 100.0 |

¹ 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.

² Rate ratio (M:F) is the ratio of male to female rates; rate ratios differing significantly from 1.0 are shown with * p <0.05; ** p <0.01

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 1,597.3 deaths per 100,000 population in the Border 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 349.1 in the Border Division.

Table 11: Avoidable and amenable mortality by age, Border DGP, country Victoria, Victoria and Australia, 1997 to 2001

| Mortality category | Borde | r DGP | Country | Victoria | Victo | oria | Austr | alia |
|--------------------|-------|-------------------|---------|-------------------|--------|-------------------|---------|-------------------|
| and age (years) | No. | Rate ¹ | No. | Rate ¹ | No. | Rate ¹ | No. | Rate ¹ |
| Avoidable | | | | | | | | |
| 0-14 | 24 | 22.9 | 416 | 29.9 | 1,290 | 27.1 | 5,669 | 28.8 |
| 15-24 | 42 | 62.7 | 507 | 61.8 | 1,627 | 49.3 | 7,045 | 52.8 |
| 25-44 | 122 | 91.5 | 1,615 | 88.6 | 5,705 | 78.9 | 24,356 | 83.9 |
| 45-64 | 349 | 349.1 | 4,881 | 320.7 | 15,004 | 286.9 | 64,282 | 304.9 |
| 65-74 | 504 | 1,597.3 | 7,393 | 1396.1 | 21,840 | 1306.6 | 88,493 | 1,358.1 |
| Total | 1,042 | 242.0 | 14,812 | 221.0 | 45,466 | 201.3 | 189,845 | 211.8 |
| Amenable | | | | | | | | |
| 0-24 | 24 | 14.0 | 352 | 15.5 | 1,189 | 14.9 | 5,083 | 15.4 |
| 25-44 | 28 | 21.2 | 419 | 22.3 | 1,382 | 19.1 | 5,946 | 20.5 |
| 45-64 | 153 | 154.1 | 2,091 | 137.4 | 6,489 | 123.8 | 27,464 | 130.3 |
| 65-74 | 201 | 639.8 | 3,139 | 593.1 | 9,348 | 558.6 | 37,756 | 579.4 |
| Total | 407 | 94.6 | 6,001 | 88.2 | 18,406 | 81.4 | 76,249 | 85.1 |

¹ 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 Border DGP were for cardiovascular disease, with a rate of 81.4 deaths per 100,000 population, and cancer, 77.2 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 60.6 per 100,000 population and 26.0 per 100,000, respectively.

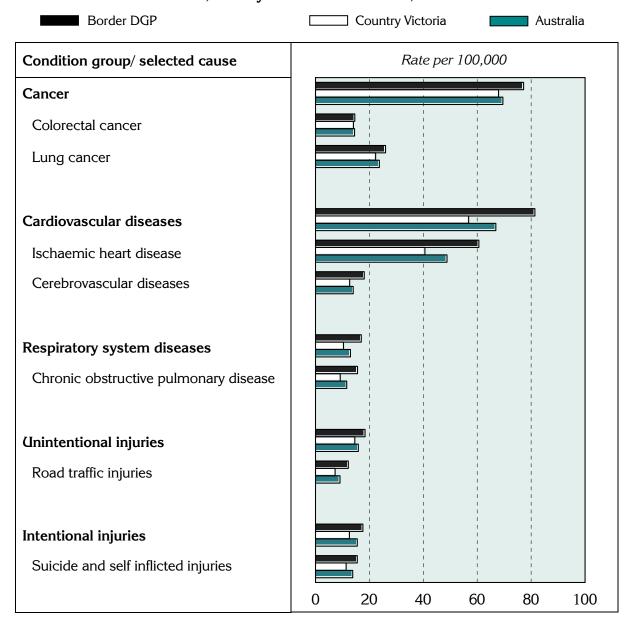
Table 12: Avoidable mortality (0 to 74 years) by major condition group and selected cause, Border DGP, country Victoria, Victoria and Australia, 1997 to 2001

| Condition group/ | Borde | r DGP | Country ' | Victoria | Victo | ria | Austr | alia |
|--|-----------------|---------------------|-------------------|-------------------|--------|-------------------|--------|---------------------|
| selected cause | No. | Rate ¹ | No. | Rate ¹ | No. | Rate ¹ | No. | Rate ¹ |
| Cancer | 329 | 77.2 | 5,074 | 74.2 | 15,813 | 69.8 | 62,338 | 69.5 |
| Colorectal cancer | 62 | 14.6 | 1,133 | 16.5 | 3,351 | 14.8 | 13,008 | 14.5 |
| Lung cancer | 112 | 26.0 | 1,739 | 25.0 | 5,244 | 23.1 | 21,208 | 23.7 |
| Cardiovascular diseases | 352 | 81.4 | 4,666 | 67.0 | 13,612 | 60.0 | 59,945 | 66.9 |
| Ischaemic heart disease | 263 | 60.6 | 3,432 | 49.3 | 9,809 | 43.3 | 43,712 | 48.8 |
| Cerebrovascular diseases | 78 | 18.1 | 934 | 13.4 | 2,947 | 12.9 | 12,558 | 14.0 |
| Respiratory system diseases | 73 | 17.0 | 977 | 13.9 | 2,621 | 11.5 | 11,612 | 13.0 |
| Chronic obstructive pulmonary disease | 68 | 15.6 | 888 | 12.5 | 2,339 | 10.2 | 10,395 | 11.6 |
| Unintentional injuries | 79 | 18.4 | 1,142 | 19.3 | 3,536 | 15.9 | 14,224 | 15.9 |
| Road traffic injuries | 53 | 12.2 | 739 | 12.5 | 1,931 | 8.7 | 8,138 | 9.1 |
| Intentional injuries Suicide and self inflicted | 75 66 | 17.6 15.5 | 946 875 | 16.2 15.0 | 3,020 | 13.6 12.3 | 13,891 | 15.5 13.8 |
| injuries | OO | 10.0 | 673 | 19.0 | 2,752 | 12.3 | 12,393 | 13.0 |

¹ Rate is the indirectly age-standardised rate per 100,000 population

Rates in the Division were above, or consistent with, those in country Victoria and Australia for the condition groups and selected causes shown (Figure 10).

Figure 10: Avoidable mortality (0 to 74 years) by major condition group and selected cause, Border DGP, country Victoria and Australia, 1997 to 2001



Notes on the data

Data sources and limitations

General

References to 'country Victoria' relate to Victoria excluding the Melbourne Statistical Division.

Data sources

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

Table 13: Data sources

| Section | Source | | | |
|---|---|--|--|--|
| Population | | | | |
| 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; Population Projections, ABS, 30 June 2020 (unpublished) ¹ | | | |
| Additional socio-demographic indicators | | | | |
| 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 | | | |
| GP services – patient flow/ GP catchment | | | | |
| Tables 3 and 4 | Medicare Australia, 2003/04 | | | |
| Additional prevalence estimates: chronic diseases and risk factors combined | | | | |
| Figure 6; Table 5 | Estimated from 2001 National Health Survey (NHS), ABS (unpublished) | | | |
| Avoidable hospitalisations: hospital admissions resulting from ambulatory care sensitive conditions | | | | |
| Tables 6 and 7; 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) | | | |
| Avoidable mortality | | | | |
| Tables 8, 9, 10, 11 and 12; Figures 9 and 10 | ABS Deaths 1997-2001; data produced in HealthWIZ by Prometheus Information (not available in public release dataset) | | | |

¹ 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).

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 Border 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).

Statistical Local Areas (SLAs) are defined by the Australian Bureau of Statistics to produce areas for the presentation and analysis of data. In this Division, some of the Local Government Areas have been split into SLAs. For example, the LGA of Indigo has two SLAs, Part A (a minor part of which is in this Division) and Part B. Part of this SLA and all or parts of the other SLAs listed comprise the Division (Table 14).

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

| SLA code | SLA name | Per cent of the SLA's population in the Division [*] | Estimate of the SLA's 2004 population in the Division |
|-------------|-----------------|---|---|
| 10050 | Albury | 100.0 | 45,437 |
| 12300 | Corowa | 77.8 | 6,742 |
| 12450 | Culcairn | 62.9 | 2,534 |
| 13900 | Holbrook | 93.1 | 2,294 |
| 14050 | Hume | 94.6 | 7,783 |
| 14950 | Lockhart | 4.2 | 146 |
| 17450 | Tumbarumba | 17.2 | 620 |
| 17700 | Urana | 75.9 | 1,054 |
| 17700 | Alpine - East | 6.5 | 581 |
| 23351 | Indigo - Part A | 13.8 | 1,613 |
| 26671 | Towong - Part A | 34.0 | 818 |
| 27170 | Wodonga | 93.1 | 32,530 |

^{*} 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

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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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