Population health profile of the
Geelong
Division of General Practice

Population Profile Series: No. 53

PHIDU
November 2005
Population health profile
Geelong Division of General Practice

Introduction
This profile has been designed to provide a description of the population of the Geelong Division of General Practice, and aspects of their health. Its purpose is to provide information to support a population health approach, which aims to improve the health of the entire population and to reduce health inequalities among population groups: a more detailed discussion of a population health approach is provided in the supporting information, page 17.

Contents
The profile includes a number of tables, maps and graphs to profile population health in the Division and provides comparisons with other areas (eg. country Victoria and Australia). Specific topics covered include:

- a socio-demographic profile (pages 2-6);
- GP workforce data (page 7);
- immunisation rates (page 7);
- rates of premature death (page 8); and
- estimates of the prevalence of chronic disease and selected risk factors (pages 9-13).

Key indicators

| Location: | Victoria |
| Division number: | 317 |
| Population‡: | No. | % |
| Total | 229,906 |
| 65+ | 35,636 | 15.5% |
| <25 | 75,036 | 32.6% |
| Indigenous | 1,484 | 0.7% |
| Disadvantage score¹: | 1001 |
| GP services per head of population: | |
| Division‡ | 4.2 |
| Australia | 4.7 |
| Population per FTE GP: | |
| Division‡ | 1,503 |
| Australia | 1,403 |
| Premature death rate²: | |
| Division‡ | 304.0 |
| Australia | 290.4 |

¹ Numbers above 1000 (the index score for Australia) indicate the Division is relatively advantaged
² Deaths at ages 0 to 74 years per 100,000 population
³ See note “Data converters and mapping” re calculation of Division Total

Geelong Division of General Practice

Victorian Divisions of General Practice

Geelong DGP by SLA
Socio-demographic profile

Population


Figure 1: Annual population change, Geelong DGP‡, country Victoria¹, Victoria and Australia, 1991 to 1996, 1996 to 2001 and 2001 to 2004

Over the five years from 1991 to 1996, the Division’s population increased by 0.5% on average each year, higher than for country Victoria (0.2%), but lower than for Victoria (0.6%), and Australia as a whole (1.2%). From 1996 to 2001, the annual percentage increase in the Division (1.4%) was greater than for country Victoria (0.9%), Victoria (1.2%), and Australia (1.3%). The growth rate of 1.5% per year from 2001 to 2004 was again above the annual increases of 1.0% for country Victoria, and Victoria and 1.1% for Australia.

Figure 2: Population in Geelong DGP‡ and Australia, by age and sex, 2004

The age distribution of the Division’s population is similar to that for Australia. The most notable differences are:
- at younger ages – a slightly lower proportion of male children aged 0 to 4 years and females aged 0 to 14 years;
- from 20 to 44 years – lower proportions of both males and females; and
- at older ages – higher proportions of males aged 65 years and over and females aged 60 years and above.

Table 1: Population by age, Geelong DGP‡ and Australia, 2004

As shown in the age-sex pyramid above, the Geelong DGP had fewer children aged 0 to 14 years (19.5%) and people aged 25 to 44 years than Australia as a whole (with 19.8% and 29.3%) (Table 1). Conversely, the 65 years and over age groups had slightly higher proportions compared to Australia.

The Geelong DGP comprised 7.6% of people born in predominantly non-English speaking countries and resident in Australia for five years or more (Table 2), a greater proportion than in country Victoria (4.4%), but well below the level of 13.8% for Victoria. Recent arrivals (those resident in Australia for less than five years) from non-English speaking countries comprised 0.7% of the Division’s population.

‡ See note under ‘Data converters and mapping’ re calculation of Division totals on this page

¹References to ‘country Victoria’ relate to Victoria excluding the Melbourne Statistical Division

Data Sources: see ‘Data sources and limitations’ at end of report
Of these residents, 1.4% had poor proficiency in English (determined when people aged five years and over born overseas in predominantly non-English speaking countries reported in the Census speaking another language and speaking English ‘not well’ or ‘not at all’), higher than country Victoria (0.6%), but lower than for Victoria (3.4%) and Australia (2.4%).

Table 2: Non-English speaking born, Geelong DGP, country Victoria and Australia, 2001

<table>
<thead>
<tr>
<th>People born in predominantly non-English speaking countries</th>
<th>Geelong DGP</th>
<th>Country Victoria</th>
<th>Victoria</th>
<th>Australia</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resident in Australia for five years or more</td>
<td>16,092</td>
<td>56,852</td>
<td>644,806</td>
<td>2,019,410</td>
</tr>
<tr>
<td>Resident in Australia for less than five years</td>
<td>1,431</td>
<td>5,810</td>
<td>110,557</td>
<td>408,074</td>
</tr>
<tr>
<td>Poor proficiency in English (^1)</td>
<td>2,750</td>
<td>7,285</td>
<td>147,394</td>
<td>425,399</td>
</tr>
</tbody>
</table>

\(^1\) Calculated on persons aged 5 years and over who reported speaking another language and speaking English ‘not well’ or ‘not at all’

Figure 3: Major non-English speaking birthplaces, Geelong DGP, 2001

Australian-born people comprised 84.4% of the Division’s population, notably higher than the Australian figure of 72.6%. Of the 6.9% of people from English speaking countries, 5.7% were from the UK and Eire. The major birthplaces of the non-English speaking population include Italy (1.1%), The Netherlands (0.9%); Croatia and Germany (both 0.8%); Yugoslavia (0.6%); and Macedonia and Poland (both 0.4%).

Socioeconomic status

The indicators presented in this section describe geographic variations in the distribution of the population for a number of key socioeconomic influences, which impact on the health and wellbeing of populations.

The Geelong DGP had a similar proportion of single parent families (10.8%) to country Victoria as a whole (10.7%), and a lower proportion of Aboriginal and Torres Strait Islanders (0.7%, compared to 1.1% for country Victoria) (Figure 4, Table 3).

Full-time secondary school education participation of 16 year olds living in the Division (83.5%) was marginally above that for country Victoria (81.2%).

A higher proportion of the Division’s households received rent assistance from Centrelink (14.0%) compared to country Victoria and Victoria (both 12.9%), but there were fewer dwellings rented from the State housing authority (3.7%, compared to 3.9%). The proportion of dwellings with no access to a motor vehicle (8.5%) was above that for country Victoria (7.7%), but below the rate for Victoria (9.0%).

The Division had higher proportions of the population who reported using a computer at home (42.6%) compared to country Victoria (39.7%), and the Internet (26.1%, compared to 22.4%).

These socioeconomic indicators show the Division to comprise a population of average socioeconomic status: see also the note on page 5 (Summary of socioeconomic ranking).
Figure 4: Socio-demographic indicators, Geelong DGP, country Victoria, Victoria and Australia, 2001

Note the different scales

Single parent families

Indigenous‡

Education participation at age 16‡

Unemployment rate (June 2003)‡

Households receiving rent assistance & Dwellings rented from State housing authority

Dwellings with no motor vehicle

Computer use at home

Internet use at home

‡ See note under ‘Data converters and mapping’ re calculation of Division totals

Data Sources: see ‘Data sources and limitations’ at end of report
Table 3: Socio-demographic indicators, Geelong DGP, country Victoria, Victoria and Australia, 2001

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Geelong DGP</th>
<th>Country Victoria</th>
<th>Victoria</th>
<th>Australia</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No.</td>
<td>No.</td>
<td>No.</td>
<td>No.</td>
</tr>
<tr>
<td>Single parent families</td>
<td>6,110</td>
<td>36,341</td>
<td>120,824</td>
<td>529,969</td>
</tr>
<tr>
<td>Indigenous‡</td>
<td>1,484</td>
<td>15,130</td>
<td>27,846</td>
<td>458,261</td>
</tr>
<tr>
<td>Full-time secondary school education at age 16‡</td>
<td>2,526</td>
<td>16,154</td>
<td>54,494</td>
<td>130,198</td>
</tr>
<tr>
<td>Households: rent assistance</td>
<td>10,970</td>
<td>62,105</td>
<td>212,587</td>
<td>1,006,599</td>
</tr>
<tr>
<td>Dwellings rented from the State housing authority</td>
<td>3,000</td>
<td>18,852</td>
<td>54,805</td>
<td>317,171</td>
</tr>
<tr>
<td>Dwellings: no motor vehicle</td>
<td>6,892</td>
<td>37,538</td>
<td>155,728</td>
<td>708,073</td>
</tr>
<tr>
<td>Computer use at home</td>
<td>88,184</td>
<td>505,663</td>
<td>2,001,169</td>
<td>7,881,983</td>
</tr>
<tr>
<td>Internet use at home</td>
<td>55,109</td>
<td>290,350</td>
<td>644,806</td>
<td>2,019,410</td>
</tr>
</tbody>
</table>

‡ See note under ‘Data converters and mapping’ re calculation of Division total

The unemployment rate of 6.7% in Geelong DGP was higher than the rates for country Victoria and Victoria (both 5.8%) (Figure 4, Table 4). The labour force participation rate (73.5%) was lower than country Victoria and Victoria (both 75.3%) and Victoria, while the female labour force participation rate (69.4%) was slightly higher than for country Victoria (69.0%), but lower than Victoria (70.6%).

Table 4: Unemployment and labour force participation, Geelong DGP, country Victoria, Victoria and Australia, 2003

<table>
<thead>
<tr>
<th>Labour force indicators</th>
<th>Geelong DGP</th>
<th>Country Victoria</th>
<th>Victoria</th>
<th>Australia</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No.</td>
<td>No.</td>
<td>No.</td>
<td>No.</td>
</tr>
<tr>
<td>Unemployment rate ‡</td>
<td>7,297</td>
<td>41,083</td>
<td>144,584</td>
<td>623,791</td>
</tr>
<tr>
<td>Labour force participation ‡</td>
<td>108,367</td>
<td>705,081</td>
<td>2,492,980</td>
<td>10,038,147</td>
</tr>
</tbody>
</table>

‡ See note under ‘Data converters and mapping’ re calculation of Division total
Summary of the socioeconomic ranking of the Geelong DGP

Following the 2001 Census, the Australian Bureau of Statistics (ABS) produced four socio-economic indexes for areas (SEIFA) which describe various aspects of the socioeconomic profile of populations in areas. The scores for these indexes for each Statistical Local Area (SLA) or part SLA in Geelong DGP are shown in the supporting information Table 9, page 17: SLAs are described on page 19.

The Geelong DGP area’s SEIFA Index of Relative Socio-Economic Disadvantage (IRSD) score is 1001, marginally above the average score for Australia (1000), and that for country Victoria (999); this highlights the average socioeconomic status profile of the Geelong DGP population. There are notable variations in the IRSD within the Division at the SLA level (Map 1).

Map 1: Index of Relative Socio-Economic Disadvantage by SLA, Geelong DGP, 2001

See note under ‘Methods’ re Data converters and mapping concerning SLAs mapped to the Division. This is of particular relevance where part of an SLA is mapped to the Division.
General medical practitioner (GP) supply

A total of 152.1 full-time equivalent (FTE) GPs, and 168.9 full-time workload equivalent (FWE\(^2\)) GPs worked in the Geelong DGP in 2003/04 (Table 5). Of the FWE GPs, 20.2% were female, and 25.4% were over 55 years of age (compared to 25.6% and 28.3%, respectively, for Victoria).

Apart from the estimated day-time population, the rates of population per FTE GP varied, depending on the population measure used, from a high of 1,503 people per GP (calculated on the average Estimated Residential Population (ERP) as at 30 June 2003 and 30 June 2004), to a low of 1,413 people per GP (calculated on 1 August 2001 Census count – all people counted in the Division on Census night, including visitors from Australia and overseas). The rates of population per FWE GP were lower, ranging from 1,272 (calculated on the Census count) to 1,352 (calculated on the ERP).

The rates of population per GP in the Division, when calculated on the estimated day-time population, were 7.4% below those calculated on the Usual Resident Population (usual residents of the Division counted in Australia on Census night).

Based on the ERP, the rates of population per GP in Geelong DGP were higher than the rates for Victoria and Australia, indicating a lower level of provision of GP services in the Division.

| Table 5: Population per GP in Geelong DGP, Victoria and Australia, 2003/04 |
|----------------|----------------|----------------|
| Geelong DGP | | | |
| Census count (adjusted)* | 214,854 | 152.1 | 1,413 | 1,272 |
| Usual Resident Population (URP) (adjusted)† | 219,116 | .. | .. | 1,441 | 1,297 |
| Estimated Resident Population (ERP) | 228,488 | .. | .. | 1,503 | 1,352 |
| Day-time population (estimated on the URP)‡ | 202,938 | .. | .. | 1,335 | 1,201 |
| Victoria (ERP) | 4,942,102 | 3,575 | 4,157 | 1,382 | 1,189 |
| Australia (ERP) | 19,989,303 | 14,246 | 16,872 | 1,403 | 1,185 |

* The Census count, Usual Resident Population and Day-time population were adjusted to reflect population change between 2001 and 2003/2004, as measured by the ERP
† See note under ‘Data converters and mapping’ re calculation of Division totals
‡ See note under ‘Data converters and mapping’ re calculation of Division totals

Immunisation

Data from the Australian Childhood Immunisation Register show that 93.8% of children in the Division in 2002 were fully immunised at age one, marginally below the Australian proportion of 94.2%.

Immunisation by provider type for children between the ages of 0 to 6 is shown in Table 6. The proportion of children in the Division who were immunised by a general practitioner was 61.7%, below the 70.0% for Australia, with 38.2% immunised at a local government council.

| Table 6: Childhood immunisation at ages 0 to 6 by provider type, Geelong DGP and Australia, 2003/04 |
|----------------|----------------|----------------|
| Provider | Geelong DGP | Australia |
| | % | % |
| General practitioner | 61.7 | 70.0 |
| Local government council | 38.2 | 16.6 |
| Community health centre/ worker | 0.0 | 9.8 |
| Public hospital | 0.0 | 2.1 |
| Aboriginal health service/ worker | 0.0 | 0.9 |
| Other* | 0.0 | 0.6 |
| Total: Per cent | 100.0 | 100.0 |
| Number | 42,055 | 3,843,610 |

* Includes immunisations in/ by State Health Departments, RFDS and private hospitals

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\(^2\) The FWE value is calculated for each GP location by dividing the GP’s total Medicare billing (Schedule fee value of services provided during the reference period) by the mean billing of full-time doctors in that derived major speciality for the reference period. Thus, a GP earning 20% more than the mean billing of full-time doctors is shown as 1.2 FWE; this differs from full-time equivalent (FTE) counts, where the FTE value of any GP cannot exceed 1.0

Data Sources: see ‘Data sources and limitations’ at end of report
Premature mortality

Deaths at ages below 75 years are used as an indicator of health status, as they largely reflect premature deaths, given the current levels of life expectancy in Australia.

The ‘all causes’ death rate in the Division at ages 0 to 74 years (304.0 deaths per 100,000 population) was lower than for country Victoria (316.8) but higher than for Australia (290.4): the rates have been age standardised to allow for comparisons between areas, regardless of differences in age profiles between the Division and Australia.

The major causes of premature mortality in the Division, as for country Victoria and Australia as a whole, are cancer and diseases of the circulatory system (Figure 5). With the exception of cancer and the ‘other causes’ group, death rates in the Division for all of the major condition groups and individual causes shown were similar to, or lower than, those for Australia and country Victoria.

The data on which the following chart is based are in Table 12.

Figure 5: Deaths before 75 years of age by major condition group and selected cause, Geelong DGP‡, country Victoria and Australia, 2000-02

*Indirectly age standardised rate per 100,000 population

<table>
<thead>
<tr>
<th>Variable</th>
<th>Geelong DGP</th>
<th>Rate per 100,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Circulatory system diseases</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ischaemic heart disease</td>
<td>[No.: 265; Rate: 42.4]</td>
<td></td>
</tr>
<tr>
<td>Cerebrovascular disease - stroke</td>
<td>[No.: 69; Rate: 11.0]</td>
<td></td>
</tr>
<tr>
<td>Cancer</td>
<td>[No.: 815; Rate: 131.7]</td>
<td></td>
</tr>
<tr>
<td>Cancer of the trachea, bronchus &amp; lung</td>
<td>[No.: 174; Rate: 27.8]</td>
<td></td>
</tr>
<tr>
<td>Respiratory system diseases</td>
<td>[No.: 109; Rate: 17.3]</td>
<td></td>
</tr>
<tr>
<td>Chronic lower respiratory disease</td>
<td>[No.: 85; Rate: 13.4]</td>
<td></td>
</tr>
<tr>
<td>Injuries and poisonings</td>
<td>[No.: 191; Rate: 33.4]</td>
<td></td>
</tr>
<tr>
<td>Suicide</td>
<td>[No.: 74; Rate: 13.0]</td>
<td></td>
</tr>
<tr>
<td>Motor vehicle accidents</td>
<td>[No: 52; Rate: 9.1]</td>
<td></td>
</tr>
<tr>
<td>Other causes</td>
<td>[No.: 317; Rate: 52.3]</td>
<td></td>
</tr>
<tr>
<td>Diabetes mellitus</td>
<td>[No.: 57; Rate: 9.0]</td>
<td></td>
</tr>
</tbody>
</table>

* ‘No.’ is the total number of deaths for the 2000-02 period; ‘Rate’ is an annual rate, based on the 3 year average
‡ See note under ‘Data converters and mapping’ re calculation of Division totals
Chronic diseases and risk factors

The term “chronic disease” describes health problems that persist across time and require some degree of health care management (WHO 2002). Chronic diseases tend to have complex causes, are often long lasting and persistent in their effects, and can produce a range of complications (Thacker et al. 1995). They are responsible for a significant proportion of the burden of disease and illness in Australia and other westernised countries. Given the ageing of the population, this trend is likely to continue.

At different life stages, risk factors for chronic diseases and their determinants include genetic predisposition; poor diet and lack of exercise; alcohol misuse and tobacco smoking; poor intra-uterine conditions; stress, violence and traumatic experiences; and inadequate living environments that fail to promote healthy lifestyles (NPHP 2001). Risk factors are also more prevalent in areas of low socioeconomic status, and in communities characterised by low levels of educational attainment; high levels of unemployment; substantial levels of discrimination, interpersonal violence and exclusion; and poverty. There is a higher prevalence of risk factors among Indigenous communities, and other socioeconomically disadvantaged Australians (NPHP 2001).

Background

In this section, estimates of the prevalence of selected chronic diseases and risk factors, and two summary measures of health, are shown for the Division‡, and for SLAs within the Division: note that the estimates have been predicted from self-reported data, and are not based on clinical records or physical measures. The chronic diseases and risk factors are those for which sufficiently reliable estimates can be made for the Division from national survey data. The process by which the estimates have been made, and details of their limitations, are described in the Notes section, pages 15-16. The data on which the following charts are based are in Table 13.

The estimates provide information of relevance to a number of the National Health Priority Areas (NHPAs – asthma; cardiovascular health; diabetes mellitus; injury prevention and control; mental health; and arthritis and musculoskeletal conditions: estimates have not been made for cancer control, the other NHPA). The risk factors for which estimates have been made are those which are accepted as being associated with these important chronic conditions. They are overweight (not obese), obesity, smoking, lack of exercise and high-risk alcohol use.

The numbers are estimates for an area, not measured events as are death statistics: they should be used as indicators of likely levels (and not actual levels) of a condition or risk factor in an area.

Prevalence estimates: chronic disease‡

It is estimated that, with the exceptions of respiratory system diseases, diabetes type 2 and osteoporosis (females), relatively more people in Geelong DGP reported having any of the selected chronic conditions than in Australia as a whole (Figure 6): that is, the prevalence rates per 1,000 population were higher.

Prevalence estimates: self-reported health‡

The NHS includes two measures of self-reported health. One is the Kessler Psychological Distress Scale–10 items (K–10). This is a scale of non-specific psychological distress based on 10 questions about negative emotional states in the four weeks prior to interview, asked of respondents 18 years and over (ABS 2002). The other asks respondents aged 15 years and over to rate their health on a scale from ’excellent’, through ’very good’, ’good’ and ’fair’, to ’poor’ health.

The population of the Division aged 18 years and over is estimated to have the same rate of people with very high psychological distress levels as measured by the K–10 as Australia (Figure 7). The proportion of the population aged 15 years and over estimated to have reported their health as ‘fair’ or ‘poor’ is marginally lower than the national average.

‡ See note under ‘Data converters and mapping’ re calculation of Division totals
Figure 6: Estimates* of chronic disease and injury, Geelong DGP‡, country Victoria and Australia, 2001

Indirectly age standardised rate per 1,000 population

<table>
<thead>
<tr>
<th>Variable</th>
<th>Geelong DGP</th>
<th>Country Victoria</th>
<th>Australia</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Respiratory system diseases</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>[No.: 57,644; Rate: 279.2]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Asthma</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>[No.: 25,815; Rate: 125.4]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Circulatory system diseases</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>[No.: 38,402; Rate: 175.7]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Diabetes type 2</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>[No.: 5,116; Rate: 23.2]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Injury event</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>[No.: 25,671; Rate: 125.5]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Mental &amp; behavioural disorders</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>[No.: 21,481; Rate: 104.7]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Musculoskeletal system diseases</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>[No.: 72,287; Rate: 342.8]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arthritis</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>[No.: 31,373; Rate: 143.4]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- osteoarthritis</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>[No.: 17,281; Rate: 78.1]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- rheumatoid arthritis</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>[No.: 5,305; Rate: 24.5]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Osteoporosis (females)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>[No.: 1,980; Rate: 16.8]</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*‘No.’ is a weighted estimate of the number of people in Geelong DGP reporting each chronic condition and is derived from synthetic predictions from the 2001 NHS
‡ See note under ‘Data converters and mapping’ re calculation of Division totals

Figure 7: Estimates* of measures of self-reported health, Geelong DGP‡, country Victoria and Australia, 2001

Indirectly age standardised rate per 1,000 population

<table>
<thead>
<tr>
<th>Variable</th>
<th>Geelong DGP</th>
<th>Country Victoria</th>
<th>Australia</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Very high psychological distress levels ([K-10])</strong> (18+ years)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>[No.: 5,572; Rate: 36.3]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fair or poor self-assessed health status</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(15+ years)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>[No.: 30,500; Rate: 180.9]</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*‘No.’ is a weighted estimate of the number of people in Geelong DGP reporting under these measures and is derived from synthetic predictions from the 2001 NHS
\ Kessler 10
‡ See note under ‘Data converters and mapping’ re calculation of Division totals

Data Sources: see ‘Data sources and limitations’ at end of report
Prevalence estimates: risk factors‡

The Geelong DGP had relatively lower rates (when compared with the Australian population) for obesity in males, overweight in females and lack of exercise (Figure 8). The rate for high-risk alcohol consumption was consistent with the national average, and the rates for the remaining selected risk factors were higher than the national averages.

Figure 8: Estimates* of selected risk factors, Geelong DGP‡, country Victoria and Australia, 2001

Indirectly age standardised rate per 1,000 population

<table>
<thead>
<tr>
<th>Variable</th>
<th>Geelong DGP</th>
<th>Country Victoria</th>
<th>Australia</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overweight (not obese) males</td>
<td>[No.: 31,096; Rate: 396.0]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(15+ years)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Obese males</td>
<td>[No.: 9,844; Rate: 125.8]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(15+ years)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Overweight (not obese) females</td>
<td>[No.: 18,108; Rate: 210.5]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(15+ years)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Obese females</td>
<td>[No.: 13,597; Rate: 159.3]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(15+ years)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Smokers (18+ years)</td>
<td>[No.: 38,759; Rate: 257.5]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical inactivity</td>
<td>[No.: 46,488; Rate: 280.3]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(15+ years)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>High health risk due to alcohol consumed</td>
<td>[No.: 6,426; Rate: 42.4]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(18+ years)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* ‘No.’ is a weighted estimate of the number of people in Geelong DGP with these risk factors and has been predicted using data from the 2001 NHS and known data for the Division
‡ See note under ‘Data converters and mapping’ re calculation of Division totals

The following maps provide details of the geographic distribution, at the SLA level, of the estimated prevalence of chronic disease (Map 2), self-reported health (Map 3) and risk factors associated with chronic disease (Map 4).

In the following maps, users should note that the estimates shown for part SLAs in the Division (see Table 11, page 19, for per cent of SLA population in the Division) represent the estimates for the whole SLA, and not just the part shown. However, SLAs with only a small proportion of their population in the Division are likely to have little influence on the total estimates for the Division, which have been based on the percentage of the SLA population in the Division.

Data Sources: see ‘Data sources and limitations’ at end of report
Map 2: Estimates of chronic disease and injury by SLA, Geelong DGP, 2001

Respiratory system diseases

Respiratory system diseases:
- Asthma

Circulatory system diseases

Diabetes type 2

Injury event

Mental & behavioural disorders

Musculoskeletal system diseases

Musculoskeletal system diseases:
- Arthritis
  - Osteoarthritis
  - Rheumatoid arthritis

Arthritis: Osteoarthritis

Arthritis: Rheumatoid arthritis

Osteoporosis (females)

Per cent difference from Australian average
- 10% or more above
- 5% to less than 10% above
- within 5% of the average
- 5% to less than 10% below
- 10% or more below
- not mapped

* The estimates are synthetic predictions of the prevalence of these conditions: see Notes on the data.

# Data not mapped: see Notes on the data.
Map 3: Estimates of measures of self-reported health by SLA, Geelong DGP, 2001

Very high psychological distress levels [K–10\(^{1}\)] (18+ years)

Fair or poor self-assessed health status (15+ years)

Per cent difference from Australian average

- 10% or more above
- 5% to less than 10% above
- within 5% of the average
- 5% to less than 10% below
- 10% or more below
- not mapped

\(^{1}\) Kessler 10

* The estimates are synthetic predictions of the prevalence of these conditions: see Notes on the data.

# Data not mapped: see Notes on the data.

Map 4: Estimates of selected risk factors by SLA, Geelong DGP, 2001

Overweight (not obese) males (15+ years)

Obese males (15+ years)

Overweight (not obese) females (15+ years)

Obese females (15+ years)

Smokers (18+ years)

Physical inactivity (15+ years)

High health risk due to alcohol consumed (18+ years)

Per cent difference from Australian average

- 10% or more above
- 5% to less than 10% above
- within 5% of the average
- 5% to less than 10% below
- 10% or more below
- not mapped

* The estimates are synthetic predictions of the prevalence of these conditions: see Notes on the data.

# Data not mapped: see Notes on the data.

Data Sources: see ‘Data sources and limitations’ at end of report
Notes on the data

Data sources and limitations

General

References to ‘country Victoria’ relate to Victoria excluding the Melbourne Statistical Division.

Data sources

Table 7 details the data sources for the material presented in this profile.

<table>
<thead>
<tr>
<th>Section</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Key indicators</strong></td>
<td></td>
</tr>
<tr>
<td>GP services per head of population</td>
<td>GP services data supplied by Department of Health and Ageing, 2003/04 Population data: Estimated Resident Population, ABS, mean of 30 June 2003 and 30 June 2004 populations</td>
</tr>
<tr>
<td><strong>Socio-demographic profile</strong></td>
<td></td>
</tr>
<tr>
<td>Figures 1 and 2; Table 1</td>
<td>Estimated Resident Population, ABS, 30 June for the periods shown</td>
</tr>
<tr>
<td>Tables 2, 3 and 4; Figures 3 and 4</td>
<td>Data were extracted by postal area from the ABS Population Census 2001, except for the following indicators: - Indigenous – Experimental estimates of Aboriginal and Torres Strait Islander people, ABS 2001 (unpublished) - Full-time secondary education participation at age 16 – Census 2001 (unpublished) - Households receiving rent assistance – Centrelink, December Quarter 2001 (unpublished) - Unemployment rate / Labour force participation – extracted from Small Area Labour Markets Australia, June Quarter 2003, Department of Employment and Workplace Relations</td>
</tr>
<tr>
<td><strong>Immunisation</strong></td>
<td>Text comment: 1 year olds</td>
</tr>
<tr>
<td></td>
<td>Table 6</td>
</tr>
<tr>
<td><strong>Premature mortality</strong></td>
<td>Figure 5; Table 12</td>
</tr>
<tr>
<td><strong>Chronic diseases and associated risk factors(^4)</strong></td>
<td>Figures 6, 7 and 8; Maps 2, 3 and 4; Table 13</td>
</tr>
</tbody>
</table>

---

1 All data extracted from Usual Residents Profile, except for data variables only released in the Basic Community Profile
2 Census count - those counted in the Division on Census night, including tourists, business people and other visitors
3 Usual Resident Population - those who usually live there and who were in Australia at the time and would have provided details in the Census at the address where they were counted
4 See notes below
Chronic diseases and associated risk factors

The data for chronic conditions and risk factors for SLAs have been estimated from the 2001 National Health Survey (NHS), conducted by the ABS: see note below on synthetic estimates. The NHS sample includes the majority of people living in private households, but excludes the most remote areas of Australia. These areas cover 86.4% of Australia’s land mass and comprise just 3% of the total population, however, 28% of Australia’s Indigenous population live in these areas. Thus it has not been possible to produce these estimates for Divisions with relatively high proportions of their population in the most remote areas of Australia.

The data for chronic conditions and risk factors are self-reported data, reported to interviewers in the 2001 NHS. Table 8 includes notes relevant to this data.

### Table 8: Notes on estimates of chronic diseases and associated risk factors

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Notes on the data</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Estimates of chronic disease and injury</strong> (Figure 6 and Map 2)</td>
<td></td>
</tr>
<tr>
<td>Long term conditions</td>
<td>Respondents were asked whether they had been diagnosed with any long term health condition (a condition which has lasted or is expected to last for 6 months or more), and were also asked whether they had been told by a doctor or nurse that they had asthma, cancer, heart and circulatory conditions, and/or diabetes</td>
</tr>
<tr>
<td>Injury event</td>
<td>Injuries which occurred in the four weeks prior to interview</td>
</tr>
<tr>
<td><strong>Estimates of measures of self-reported health</strong> (Figure 7 and Map 3)</td>
<td></td>
</tr>
<tr>
<td>Very high psychological distress levels (K10)</td>
<td>Derived from the Kessler Psychological Distress Scale-10 items (K-10), which is a scale of non-specific psychological distress based on 10 questions about negative emotional states in the 4 weeks prior to interview. ‘Very high’ distress is the highest level of distress category (of a total of four categories)</td>
</tr>
<tr>
<td>Fair or poor self-assessed health status</td>
<td>Respondent’s general assessment of their own health, against a five point scale from excellent through to poor – ‘fair’ or ‘poor’ being the two lowest in the scale</td>
</tr>
<tr>
<td><strong>Estimates of selected risk factors</strong> (Figure 8 and Map 4)</td>
<td></td>
</tr>
<tr>
<td>Overweight (not obese)</td>
<td>Based on self-reported height and weight; BMI calculated and grouped into categories (to allow reporting against both WHO and NHMRC guidelines) - overweight: 25.0 to less than 30.0</td>
</tr>
<tr>
<td>Obese</td>
<td>Based on self-reported height and weight; BMI calculated and grouped into categories (to allow reporting against both WHO and NHMRC guidelines) – obese: 30.0 and greater</td>
</tr>
<tr>
<td>Smokers</td>
<td>Respondent’s undertaking regular (or daily) smoking at the time of interview</td>
</tr>
<tr>
<td>Physical inactivity</td>
<td>Did not exercise in the two weeks prior to interview through sport, recreation or fitness (including walking) – excludes incidental exercise undertaken for other reasons, such as for work or while engaged in domestic duties</td>
</tr>
<tr>
<td>High health risk due to alcohol consumed</td>
<td>Respondent’s estimated average daily alcohol consumption in the seven days prior to interview (based on number of days and quantity consumed). Alcohol risk levels were grouped according to NHMRC risk levels for harm in the long term, with ‘high risk’ defined as a daily consumption of more than 75 ml for males and 50 ml for females</td>
</tr>
</tbody>
</table>

Note: For a full description, refer to ABS 2001 National Health Survey, Cat. No. 4364.0 and ABS 2001 Health Risk Factors, Cat. No. 4812.0
Methods

Synthetic estimates

The estimates of the prevalence of chronic disease and associated risk factors have been predicted for a majority of SLAs across Australia, using modelled survey data collected in the 2001 ABS National Health Survey (NHS) and known characteristics of the area. A synthetic prediction can be interpreted as the likely value for a ‘typical’ area with those characteristics: the SLA is the area level of interest for this project (where SLAs had small populations they were grouped to larger areas). This work was undertaken by the Australian Bureau of Statistics, as they hold the NHS unit record files: the small area data were compiled by PHIDU.

The approach used is to undertake an analysis of the survey data for Australia to identify associations in the NHS data between the variables that we wish to predict at the area level (eg. prevalence of chronic conditions and risk factors) and the data we have at the area level (eg. socioeconomic status, use of health services). The relationship between these variables for which we have area level data (the predictors) and the reporting of chronic conditions in the NHS is also a part of the model that is developed by the ABS. For example, such associations might be between the number of people reporting specified chronic conditions in the NHS and:

- the number of hospital admissions (in total, to public and to private hospitals, by age, sex and diagnosis),
- socioeconomic status (as indicated by Census data, or for recipients of government pensions and benefits), and
- the number of visits to a general medical practitioner.

The results of the modelling exercise are then applied to the SLA counts of the predictors. The prediction is, effectively, the likely value for a typical area with those characteristics. The raw numbers were then age-standardised, to control for the effects of differences in the age profiles of areas.

The numbers are estimates for an area, not measured events as are death statistics: they should be used as indicators of likely levels of a condition or risk factor in an area.

Premature deaths

Details of deaths by SLA were purchased from the ABS. The raw numbers were then age-standardised, by the indirect method, to control for the effects of differences in the age profiles of areas.

Data converters and mapping

Conversion to Division of data available by postcode

The allocation of postcodes to Divisions was undertaken using information from the Department of Health and Ageing’s web site, which shows the proportion of a postcode in a Division (Table 10).

Conversion to Division of data available by SLA

(see note under ‘Data converters and mapping’ re calculation of Division total)

Where the data presented in these profiles were only available by SLA they have been converted to Division of General Practice areas using a concordance based on data at the 2001 Census. A copy of the concordance is included in the Population data: A Guide for Divisions of General Practice: it is also available from the Divisions’ data area on PHIDU web site.

In brief, the concordance splits the data (eg number of deaths) for each SLA across one or more Divisions. The proportion of an SLA’s data that is allocated to each Division was calculated from (a) CD level Census 2001 data that splits SLAs across approximations to postcodes (referred to as postal areas) and (b) data on the DoHA website that splits postcodes across Divisions. This concordance can be adjusted to meet any new configuration of Division boundaries based on the 2001 Collection Districts, or combinations thereof.

The estimated population of each SLA in this Division is shown in Table 11.

Mapping

In some Divisions the maps may include a very small part of an SLA which has not been allocated any population, or either has a population of less than 100 or has less than 1% of the SLA’s total population: these areas are mapped with a pattern.
A definition of population health

Population health, in the context of general practice, has been defined as:

“The prevention of illness, injury and disability, reduction in the burden of illness and rehabilitation of those with a chronic disease. This recognises the social, cultural and political determinants of health. This is achieved through the organised and systematic responses to improve, protect and restore the health of populations and individuals. This includes both opportunistic and planned interventions in the general practice setting.”

The key determinants of health are social support networks, employment and working conditions, social environments, physical environments, geographical isolation, personal health practices, healthy child development, ageing and disability, biology and genetic endowment, health services, gender and culture.

In the Aboriginal and Torres Strait Islander context this means that a population health approach to health services will assist in ensuring “that Aboriginal and Torres Strait Islander people enjoy a healthy life equal to that of the general population, that is enshrined by a strong living culture, dignity and justice”. This recognises the importance of achieving improvements to Aboriginal and Torres Strait Islander health and respects the particular health issues facing Indigenous people.

1 “The role of general practice in population health – A Joint Consensus Statement of the General Practice Partnership Advisory Council and the National Public Health Partnership Group” (Joint Advisory Group on General Practice and Population Health 2001)

2 As defined in the Strategic Framework for Aboriginal and Torres Strait Islander Health

SEIFA scores

Following the 2001 Census, the Australian Bureau of Statistics (ABS) produced four socioeconomic indexes for areas (SEIFA). The indexes describe various aspects of the socioeconomic make-up of populations in areas, using data collected in the 2001 Census.

The Index of Relative Socio-Economic Disadvantage (labelled ‘Disadvantage’ in Table 9) includes all variables that either reflect or measure disadvantage. The Index of Advantage/Disadvantage is used to rank areas in terms of both advantage and disadvantage: any information on advantaged persons in an area will offset information on disadvantaged persons in the area. The Index of Economic Resources and the Index of Education and Occupation were targeted towards specific aspects of advantage/disadvantage.

For further information on the composition and calculation of these indexes see the ABS Information Paper ABS Cat No. 2039.0 available on the ABS web site www.abs.gov.au. The scores for these indexes for each Statistical Local Area (SLA) or part SLA in Geelong DGP are shown in Table 9.
In using this table, users should note that the index score shown for SLAs with less than 100 per cent in the Division represents the score for the whole SLA, and not just the part shown. However, SLAs with small proportions may have little influence on the average index score for the Division which has been based on the postcodes in the Division.

Table 9: SEIFA scores by SLA, Geelong DGP, 2001

<table>
<thead>
<tr>
<th>SLA code</th>
<th>SLA name (per cent of SLA in the Division)</th>
<th>Index score</th>
</tr>
</thead>
<tbody>
<tr>
<td>22751</td>
<td>Bellarine - Inner (100)</td>
<td>Disadvantage: 963</td>
</tr>
<tr>
<td>22752</td>
<td>Corio - Inner (100)</td>
<td>Disadvantage: 914</td>
</tr>
<tr>
<td>22753</td>
<td>Geelong (100)</td>
<td>Disadvantage: 1000</td>
</tr>
<tr>
<td>22754</td>
<td>Geelong West (100)</td>
<td>Disadvantage: 999</td>
</tr>
<tr>
<td>22755</td>
<td>Newtown (100)</td>
<td>Disadvantage: 1079</td>
</tr>
<tr>
<td>22756</td>
<td>South Barwon - Inner (100)</td>
<td>Disadvantage: 1048</td>
</tr>
<tr>
<td>26493</td>
<td>Surf Coast - East (100)</td>
<td>Disadvantage: 1077</td>
</tr>
<tr>
<td>26495</td>
<td>Surf Coast - West (40)</td>
<td>Disadvantage: 1049</td>
</tr>
</tbody>
</table>

*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.

Statistical geography of the Geelong DGP

The Geelong Division of General Practice covers 3,509 square kilometres, based on 2001 SLA data.

The postcodes in the Division (as per the Department of Health and Ageing web site) are shown below (Table 10).

Table 10: Postcodes in Geelong DGP, 2004

<table>
<thead>
<tr>
<th>Postcode</th>
<th>Per cent of postcode population in the Division*</th>
<th>Postcode</th>
<th>Per cent of postcode population in the Division*</th>
<th>Postcode</th>
<th>Per cent of postcode population in the Division*</th>
</tr>
</thead>
<tbody>
<tr>
<td>3212</td>
<td>100</td>
<td>3221</td>
<td>100</td>
<td>3231</td>
<td>100</td>
</tr>
<tr>
<td>3213</td>
<td>100</td>
<td>3222</td>
<td>100</td>
<td>3240</td>
<td>100</td>
</tr>
<tr>
<td>3214</td>
<td>100</td>
<td>3223</td>
<td>100</td>
<td>3321</td>
<td>100</td>
</tr>
<tr>
<td>3215</td>
<td>100</td>
<td>3224</td>
<td>100</td>
<td>3328</td>
<td>100</td>
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<tr>
<td>3216</td>
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<td>100</td>
<td>3329</td>
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<td>3217</td>
<td>100</td>
<td>3226</td>
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<td>3331</td>
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<td>3218</td>
<td>100</td>
<td>3227</td>
<td>100</td>
<td>3332</td>
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<td>3219</td>
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<td>3220</td>
<td>100</td>
<td>3230</td>
<td>100</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Proportions are approximate

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, Local Government Areas (LGAs) have been split into SLAs. For example, the LGA of Surf Coast has two SLAs – East and West. All or part of these SLAs and the other SLAs in Table 13 comprise the Division.

### Table 11: SLAs in Geelong DGP by 2001 boundaries

<table>
<thead>
<tr>
<th>SLA code</th>
<th>SLA name</th>
<th>Per cent of the SLA’s population in the Division</th>
<th>Estimate of the SLA’s 2004 population in the Division</th>
</tr>
</thead>
<tbody>
<tr>
<td>21755</td>
<td>Colac-Otway - South</td>
<td>3.8</td>
<td>154</td>
</tr>
<tr>
<td>22492</td>
<td>Golden Plains - South-East</td>
<td>87.9</td>
<td>7,664</td>
</tr>
<tr>
<td>22751</td>
<td>Bellarine - Inner</td>
<td>100.0</td>
<td>23,743</td>
</tr>
<tr>
<td>22752</td>
<td>Corio - Inner</td>
<td>100.0</td>
<td>56,606</td>
</tr>
<tr>
<td>22753</td>
<td>Geelong</td>
<td>100.0</td>
<td>11,842</td>
</tr>
<tr>
<td>22754</td>
<td>Geelong West</td>
<td>100.0</td>
<td>13,923</td>
</tr>
<tr>
<td>22755</td>
<td>Newtown</td>
<td>100.0</td>
<td>9,835</td>
</tr>
<tr>
<td>22756</td>
<td>South Barwon - Inner</td>
<td>100.0</td>
<td>48,185</td>
</tr>
<tr>
<td>22757</td>
<td>Greater Geelong - Part B</td>
<td>100.0</td>
<td>35,352</td>
</tr>
<tr>
<td>22758</td>
<td>Greater Geelong - Part C</td>
<td>60.3</td>
<td>1,647</td>
</tr>
<tr>
<td>26080</td>
<td>Queenscliffe</td>
<td>100.0</td>
<td>3,206</td>
</tr>
<tr>
<td>26493</td>
<td>Surf Coast - East</td>
<td>100.0</td>
<td>13,162</td>
</tr>
<tr>
<td>26495</td>
<td>Surf Coast - West</td>
<td>49.5</td>
<td>4,588</td>
</tr>
</tbody>
</table>

* 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.

### Supporting data

The data used in Figure 5 to illustrate the rates of premature mortality in the Division are shown below in Table 12.

### Table 12: Deaths before 75 years of age by major condition group and selected cause, Geelong DGP‡, country Victoria and Australia, 2000-02

<table>
<thead>
<tr>
<th>Variable</th>
<th>Geelong DGP‡</th>
<th>Country Victoria</th>
<th>Australia</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No.</td>
<td>Rate</td>
<td>No.</td>
</tr>
<tr>
<td>Circulatory system diseases</td>
<td>433</td>
<td>69.2</td>
<td>3,163</td>
</tr>
<tr>
<td>Ischaemic heart disease</td>
<td>265</td>
<td>42.4</td>
<td>1,879</td>
</tr>
<tr>
<td>Cerebrovascular disease – stroke</td>
<td>69</td>
<td>11.0</td>
<td>568</td>
</tr>
<tr>
<td>Cancer</td>
<td>815</td>
<td>131.7</td>
<td>5,188</td>
</tr>
<tr>
<td>Cancer of the trachea, bronchus &amp; lung</td>
<td>174</td>
<td>27.8</td>
<td>1,039</td>
</tr>
<tr>
<td>Respiratory system diseases</td>
<td>109</td>
<td>17.3</td>
<td>765</td>
</tr>
<tr>
<td>Chronic lower respiratory disease</td>
<td>85</td>
<td>13.4</td>
<td>574</td>
</tr>
<tr>
<td>Injuries and poisonings</td>
<td>191</td>
<td>33.4</td>
<td>1,406</td>
</tr>
<tr>
<td>Suicide</td>
<td>74</td>
<td>13.0</td>
<td>477</td>
</tr>
<tr>
<td>Motor vehicle accidents</td>
<td>52</td>
<td>9.1</td>
<td>473</td>
</tr>
<tr>
<td>Other causes</td>
<td>317</td>
<td>52.3</td>
<td>2,089</td>
</tr>
<tr>
<td>Diabetes mellitus</td>
<td>57</td>
<td>9.0</td>
<td>343</td>
</tr>
</tbody>
</table>

* ‘No.’ is the total number of deaths for the 2000-02 period; ‘Rate’ is an annual rate, based on the 3 year average.
‡ See note under ‘Data converters and mapping’ re calculation of Division totals.
The rates used to illustrate the prevalence estimates of chronic disease and injury (Figure 6), measures of self-reported health (Figure 7), and selected risk factors (Figure 8), are shown in Table 13 below.

**Table 13: Estimates of chronic disease and associated risk factors, Geelong DGP‡, country Victoria and Australia, 2001**

*Indirectly age standardised rate per 1,000 population*

<table>
<thead>
<tr>
<th>Variable</th>
<th>Geelong DGP‡</th>
<th>Country Victoria</th>
<th>Australia</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Chronic disease and injury (Figure 6)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Respiratory system diseases</td>
<td>279.2</td>
<td>286.6</td>
<td>310.8</td>
</tr>
<tr>
<td>Asthma</td>
<td>125.4</td>
<td>127.5</td>
<td>118.3</td>
</tr>
<tr>
<td>Circulatory system diseases</td>
<td>175.7</td>
<td>181.8</td>
<td>171.5</td>
</tr>
<tr>
<td>Diabetes type 2</td>
<td>23.2</td>
<td>21.1</td>
<td>23.4</td>
</tr>
<tr>
<td>Injury event</td>
<td>125.5</td>
<td>126.8</td>
<td>121.2</td>
</tr>
<tr>
<td>Mental &amp; behavioural disorders</td>
<td>104.7</td>
<td>101.9</td>
<td>97.6</td>
</tr>
<tr>
<td>Musculoskeletal system diseases</td>
<td>342.8</td>
<td>351.4</td>
<td>326.2</td>
</tr>
<tr>
<td>Arthritis</td>
<td>143.4</td>
<td>145.0</td>
<td>138.8</td>
</tr>
<tr>
<td>- Osteoarthritis</td>
<td>78.1</td>
<td>78.6</td>
<td>74.9</td>
</tr>
<tr>
<td>- Rheumatoid arthritis</td>
<td>24.5</td>
<td>24.9</td>
<td>23.6</td>
</tr>
<tr>
<td>Osteoporosis (females)</td>
<td>16.8</td>
<td>17.1</td>
<td>26.4</td>
</tr>
<tr>
<td><strong>Measures of self-reported health (Figure 7)</strong></td>
<td></td>
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<td></td>
</tr>
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<td>Very high psychological distress levels (18+ years)</td>
<td>36.3</td>
<td>36.8</td>
<td>36.6</td>
</tr>
<tr>
<td>Fair or poor self-assessed health status (15+ years)</td>
<td>180.9</td>
<td>181.1</td>
<td>184.0</td>
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<tr>
<td><strong>Risk factors (Figure 8)</strong></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Overweight (not obese) males (15+ years)</td>
<td>396.0</td>
<td>404.6</td>
<td>389.7</td>
</tr>
<tr>
<td>Obese males (15+ years)</td>
<td>125.8</td>
<td>120.9</td>
<td>145.9</td>
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<tr>
<td>Overweight (not obese) females (15+ years)</td>
<td>210.5</td>
<td>210.8</td>
<td>223.9</td>
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<tr>
<td>Obese females (15+ years)</td>
<td>159.3</td>
<td>164.4</td>
<td>148.0</td>
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<td>Smokers (18+ years)</td>
<td>257.5</td>
<td>263.6</td>
<td>248.0</td>
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<tr>
<td>Physical inactivity (15+ years)</td>
<td>280.3</td>
<td>296.3</td>
<td>315.5</td>
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<tr>
<td>High health risk due to alcohol consumed (18+ years)</td>
<td>42.4</td>
<td>45.9</td>
<td>42.1</td>
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</table>

‡ See note under ‘Data converters and mapping’ re calculation of Division totals
References


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Further developments and updates

Subject to agreement and funding, a number of developments could be undertaken:

- Details of hospitalisations potentially avoidable through ambulatory care interventions are currently being prepared and will be forwarded to Divisions (and posted on the PHIDU web site) when they are available. Other enhancements will be considered as appropriate datasets become available.

The profiles could be updated as the data are updated. For example:

- Population estimates, avoidable hospitalisations, immunisation, and GP activity and workforce data – annually;
- Chronic disease estimates – three-yearly;
- Census data – five-yearly.

Any developments would be informed by consultation, including with Divisions.

PHIDU contact details

For general comments, data issues or enquiries re information on the web site, please contact PHIDU:

Phone: 08-8303 6236 or e-mail: PHIDU@publichealth.gov.au