

Population health profile of the South Gippsland

Division of General Practice: supplement

Population Profile Series: No. 57a

PHIDU

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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 South Gippsland Division of General Practice: supplement

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

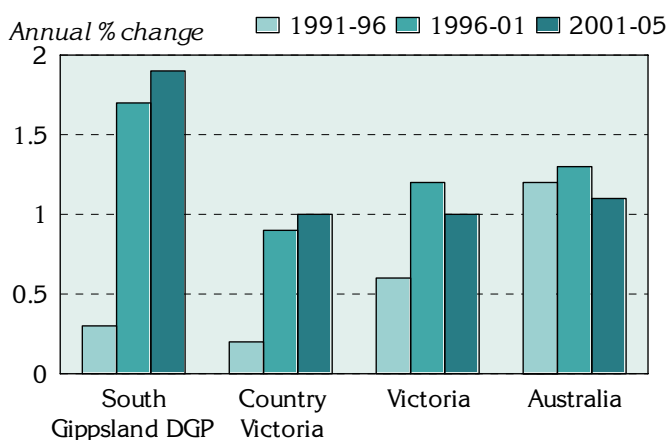
- Population [updated to June 2005]
- Additional socio-demographic indicators
- Unreferred attendances – patient flow/ GP catchment
- Additional prevalence estimates: chronic diseases and risk factors combined
- Avoidable hospitalisations: hospital admissions resulting from ambulatory care sensitive 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 South Gippsland Division had an Estimated Resident Population of 68,006 at 30 June 2005.

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



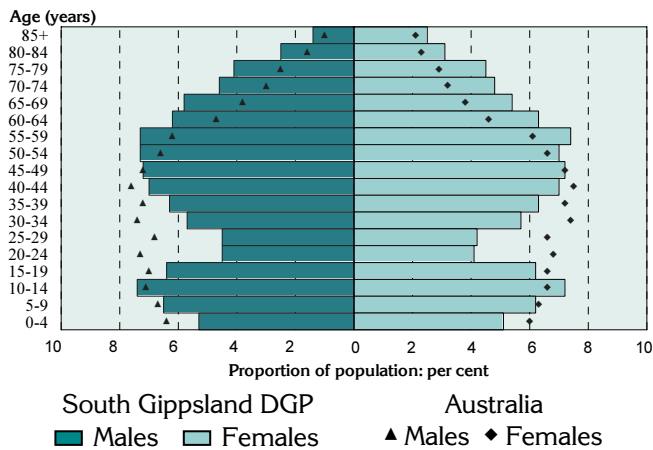
Over the five years from 1991 to 1996, the Division's population increased by 0.3% on average each year, above the level for country Victoria (0.2%), and below that in Victoria (0.6%) and Australia (1.2%). From 1996 to 2001, the annual percentage increase in the Division (1.7%) was much higher than in country Victoria (0.9%) and Victoria (0.6%). The growth rate increased to 1.9% from 2001 to 2005, well above the annual increases for country Victoria and Victoria (1.0%) and Australia (1.1%).

Table 1: Population by age, South Gippsland DGP and Australia, 2005

Age group (years)	South Gippsland DGP		Australia	
	No.	%	No.	%
0-14	12,794	18.8	3,978,221	19.6
15-24	7,182	10.6	2,819,834	13.9
25-44	15,841	23.3	5,878,107	28.9
45-64	19,007	27.9	4,984,446	24.5
65-74	7,009	10.3	1,398,831	6.9
75-84	4,829	7.1	954,143	4.7
85+	1,345	2.0	315,027	1.5
Total	68,006	100.0	20,328,609	100.0

As shown in the accompanying table and the age-sex pyramid below (Figure 2), the South Gippsland DGP had fewer children and young people aged 0 to 14 and 15 to 24 years (18.8% and 10.6%) and people aged 25 to 44 years (23.3%) than Australia as a whole (with 19.6%, 13.9% and 28.9%, respectively) (Table 1). Conversely, the proportions of the Division's population aged 45 years and over were higher compared to Australia.

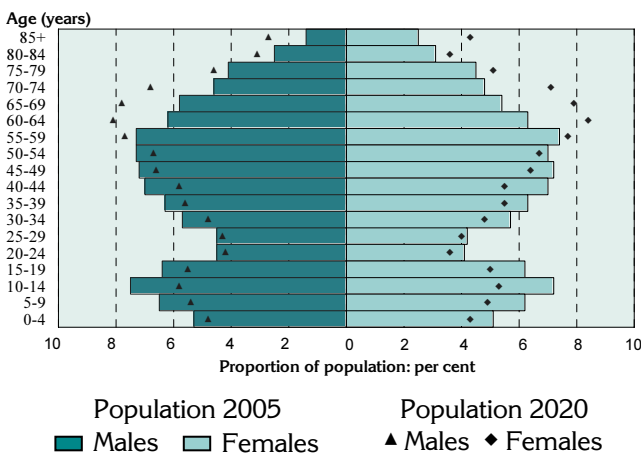
Figure 2: Population in South Gippsland DGP and Australia, by age and sex, 2005



The most notable differences in the age distribution of the Division's population (when compared to Australia overall) are:

- at younger ages – lower proportions of males aged 0 to 9 years and females aged 0 to 4 years, and higher proportions of children aged 10 to 14 years;
- from 15 to 44 years – lower proportions of both males and females (most pronounced at ages 20 to 29 years); and
- at older ages – higher proportions of both males and females aged 50 years and over.

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



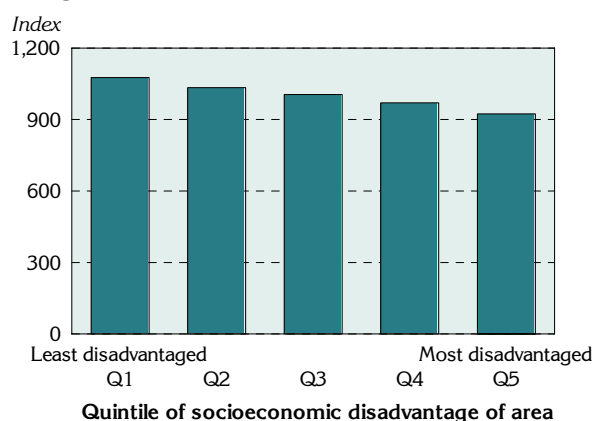
The population projections for the Division show a number of changes in age distribution, with the 2020 population projected to have:

- at younger ages – lower proportions of children and young people, aged 0 to 19 years;
- from 20 to 54 years – lower proportions of both males and females; and
- from 55 years onwards – higher proportions of both males and females.

Additional socio-demographic indicators

Please refer to the earlier *Population health profile of the South Gippsland 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, South Gippsland DGP, 2001



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

The South Gippsland DGP has an index score of 1002, marginally above the score for Australia of 1000: this score varies across the Division, from 923 in the most disadvantaged areas to 1075 in the least disadvantaged areas.

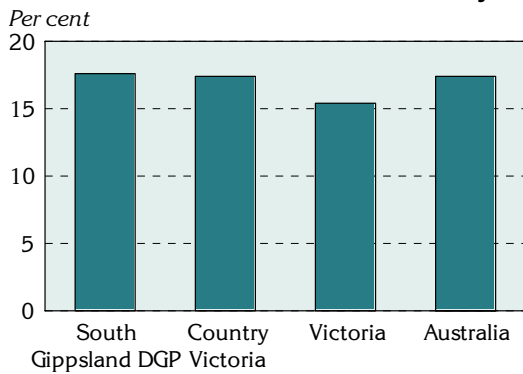
Note: each 'quintile' comprises approximately 20% of the population of the Division.

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 was a similar proportion of jobless families in the South Gippsland DGP (17.6%), 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 notably lower proportion of people with private health insurance (35.7%), compared to country Victoria (43.0%) (Figure 5, Table 2).

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

Jobless families with children under 15 years old



Private health insurance, 30 June

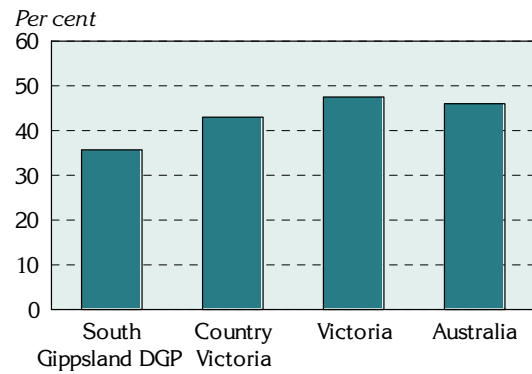


Table 2: Socio-demographic indicators, South Gippsland DGP, country Victoria, Victoria and Australia, 2001

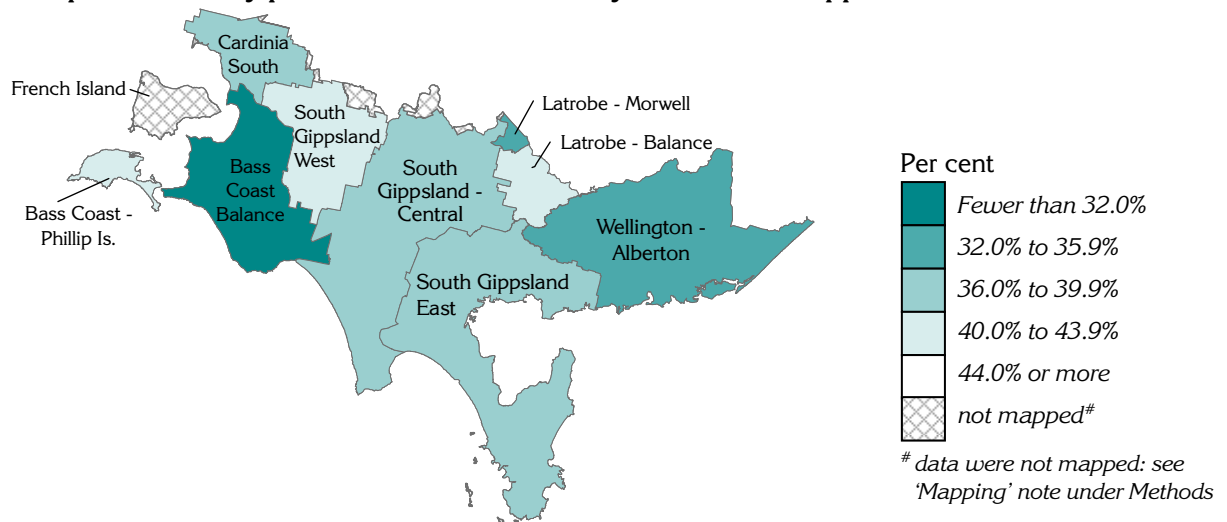
Indicator	South Gippsland DGP		Country Victoria		Victoria		Australia	
	No.	%	No.	%	No.	%	No.	%
Jobless families with children under 15 years old	1,078	17.6	24,724	17.4	77,142	15.4	357,563	17.4
Private health insurance (30 June)	20,902	35.7	543,292	43.0	2,196,890	47.5	8,671,106	46.0

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, South Gippsland DGP, 2001



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



GP services to residents of the South Gippsland 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.

Over four fifths (82.3%) of all unreferred attendances to residents of South Gippsland DGP were provided in the Division (ie. by a GP with a provider number in the Division): this represented 245,312 GP unreferred attendances (Table 3). A further 3.7% of unreferred attendances to residents were provided by GPs with a provider number in Dandenong District DGP, with 3.3% provided by GPs in Central West Gippsland DGP.

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

Division		Unreferred attendances	
Number	Name	No.	% ³
322	South Gippsland DGP	245,312	82.3
315	Dandenong District DGP	11,087	3.7
323	Central West Gippsland DGP	9,978	3.3
320	Eastern Ranges DGP	7,372	2.5
316	Mornington Peninsula DGP	3,313	1.1
301	Melbourne DGP	2,151	0.7
Other	..	18,950	6.4
Total	..	298,163	100.0

¹ Based on address in Medicare records

² Division of GP based on provider number

³ Proportion of all unreferred attendances of patients with an address in Division 322 by Division in which attendance occurred

The majority (92.9%) of unreferred attendances provided by GPs with a provider number in South Gippsland DGP were also to people living in the Division (ie. their Medicare address was in the Division) (Table 4). A further 1.1% of unreferred attendances provided by GPs in the Division were to residents of Central West Gippsland DGP, with 0.9% to people living in Dandenong District DGP.

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

Division		Unreferred attendances	
Number	Name	No.	% ³
322	South Gippsland DGP	245,312	92.9
323	Central West Gippsland DGP	2,883	1.1
315	Dandenong District DGP	2,318	0.9
320	Eastern Ranges DGP	1,677	0.6
316	Mornington Peninsula DGP	1,390	0.5
310	Whitehorse DGP	948	0.4
Other	..	9,532	3.6
Total	..	264,060	100.0

¹ Division of GP based on provider number

² Based on address in Medicare records

³ Proportion of all unreferred attendances to GPs with a provider number in Division 322 by Division of patient address

Additional prevalence estimates: chronic diseases and risk factors combined

Please refer to the earlier *Population health profile of the South Gippsland 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 South Gippsland DGP who had asthma and were smokers, compared to country Victoria and Australia as a whole (Figure 6, Table 5): that is, the prevalence rates per 1,000 population were higher. In contrast, there were fewer people in South Gippsland DGP who had type 2 diabetes and were overweight/ obese, compared to country Victoria or Australia.

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



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

Variable	South Gippsland DGP		Country Victoria		Victoria		Australia	
	No. ¹	Rate ²	No. ¹	Rate ²	No. ¹	Rate ²	No. ¹	Rate ¹
Had asthma & smoked ³	1,345	26.1	29,424	24.6	95,664	19.9	397,734	20.8
Had type 2 diabetes & were overweight/ obese ⁴	994	13.3	19,136	14.1	69,192	15.1	283,176	15.2

¹ No. is a weighted estimate of the number of people in South Gippsland 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 the *Atlas of Avoidable Hospitalisations in Australia: ambulatory care-sensitive conditions*, available from www.publichealth.gov.au.

In 2001 to 2002, the 2,260 admissions from ambulatory care sensitive (ACS) conditions accounted for 10.0% of all hospitalisations in the South Gippsland DGP (Table 6, Figure 7), notably above the levels in Victoria (8.8%) and Australia (8.7%).

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

Category	South Gippsland DGP			Victoria			Australia		
	No.	Rate ²	%	No.	Rate ²	%	No.	Rate ²	%
Avoidable ¹	2,260	3,020.3	10.0	145,135	2,983.2	8.8	552,786	2,847.5	8.7
Unavoidable	20,274	28,749.7	90.0	1,510,437	31,088.3	91.2	5,818,199	29,970.7	91.3
Total	22,534	31,785.9	100.0	1,655,572	34,071.5	100.0	6,370,985	32,818.2	100.0

¹ Admissions resulting from ACS conditions

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

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



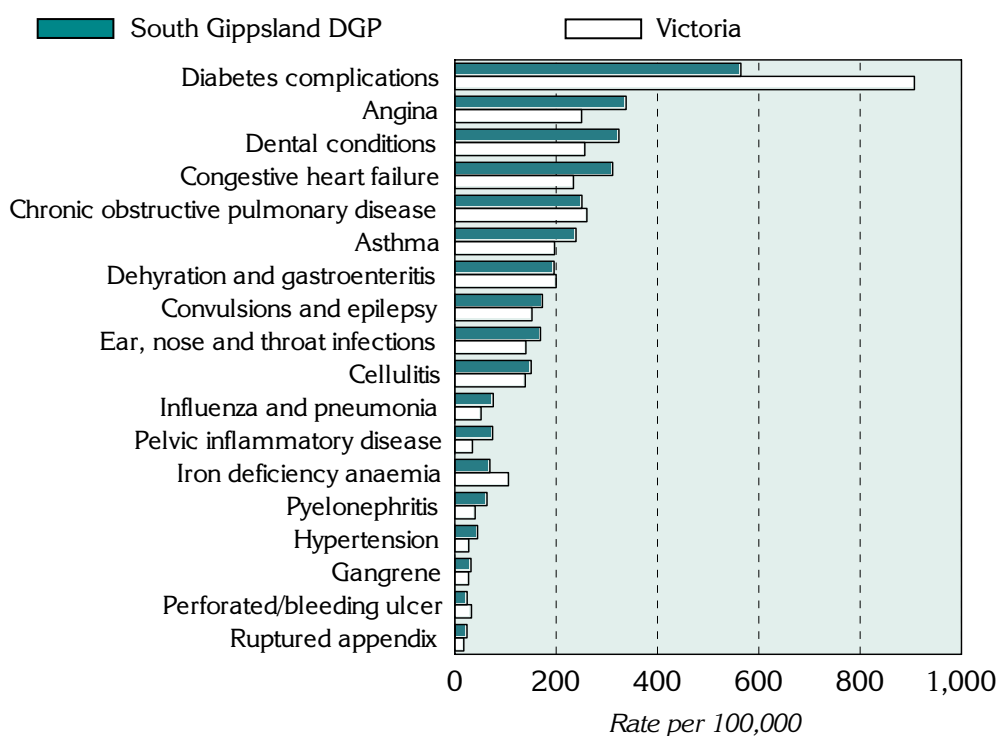
The rate of avoidable hospitalisations in South Gippsland DGP is marginally higher, a rate of 3,020.3 admissions per 100,000 population, compared to Victoria (a rate of 2,983.2) and slightly higher than for Australia (2,847.5).

¹ Admissions resulting from ACS conditions

Diabetes complications, angina, dental conditions and congestive heart failure were the four conditions with the highest rates of avoidable hospitalisations in the South Gippsland 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 dehydration and gastroenteritis, have the highest rates of avoidable hospitalisations for the acute conditions.

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



¹ Admissions resulting from ACS conditions: excludes nutritional deficiencies as less than ten admissions, and other vaccine-preventable conditions as number of admissions insufficient

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

Sub-category/ condition	South Gippsland DGP		Victoria		Australia	
	No.	Rate ²	No.	Rate ²	No.	Rate ²
Vaccine-preventable	55	76.0	3,293	68.0	16,573	85.4
Influenza and pneumonia	55	76.0	2,525	52.0	13,021	67.1
Other vaccine preventable	#	..	768	16.0	3,552	18.3
Chronic³	1,472	1,818.8	97,133	1,982.6	352,545	1,816
Diabetes complications	466	564.5	44,409	906.9	141,345	728.1
Iron deficiency anaemia	54	69.3	5,196	105.9	16,451	84.7
Hypertension	36	45.1	1,362	27.7	6,354	32.7
Congestive heart failure	266	311.6	11,655	234.1	42,447	218.6
Angina	283	338.1	12,285	250.4	49,963	257.4
Chronic obstructive pulmonary disease	219	251.0	12,850	260.7	54,853	282.6
Asthma	148	239.2	9,376	196.9	41,009	211.3
Acute	793	1,231.9	50,153	1,041.7	200,913	1,035
Dehydration and gastroenteritis	136	196.1	9,761	200.0	37,766	194.5
Convulsions and epilepsy	108	172.9	7,297	152.4	31,137	160.4
Ear, nose and throat infections	100	169.3	6,653	140.5	32,075	165.2
Dental conditions	200	323.8	12,235	256.7	43,667	224.9
Perforated/bleeding ulcer	20	24.3	1,618	32.9	5,795	29.9
Ruptured appendix	15	24.1	855	17.9	3,866	19.9
Pyelonephritis	40	63.6	1,948	40.2	7,386	38.0
Pelvic inflammatory disease	41	74.7	1,693	34.8	6,547	33.7
Cellulitis	107	150.9	6,751	139.0	28,204	145.3
Gangrene	26	32.2	1,342	27.3	4,470	23.0
Total avoidable hospitalisations⁴	2,260	3,020.3	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

Not shown or not calculated as there are fewer than five admissions over the period

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.

Over two-thirds (71.4%) of all deaths in South Gippsland DGP at ages 0 to 74 years over the period 1997 to 2001 are considered to be avoidable, marginally 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 27.5% of all deaths at ages 0 to 74 years in South Gippsland DGP, lower than the 28.7% in country Victoria.

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

Mortality category	South Gippsland DGP		Country Victoria		Victoria		Australia	
	No.	Rate ¹	No.	Rate ¹	No.	Rate ¹	No.	Rate ¹
Avoidable	771	213.3	14,812	221.0	45,466	201.3	189,845	211.8
% of total	71.4	..	70.8	..	70.9	..	71.5	..
(Amenable)	(297)	(79.9)	(6,001)	(88.2)	(18,406)	(81.4)	(76,249)	(85.1)
(% of total)	(27.5)	(..)	(28.7)	(..)	(28.7)	(..)	(28.7)	(..)
Unavoidable	309	83.9	6,100	90.0	18,617	82.4	75,582	84.3
% of total	28.6	..	29.2	..	29.1	..	28.5	..
Total mortality	1,080	297.1	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. South Gippsland DGP's rate of avoidable mortality for males was 276.6 deaths per 100,000 males, higher than the rate of 149.0 for females. The rate of amenable mortality for males in the Division was also higher, 87.6, compared to 72.3 for females, a rate ratio of 1.21 (Figure 9, Table 9).

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

Note: the different scales

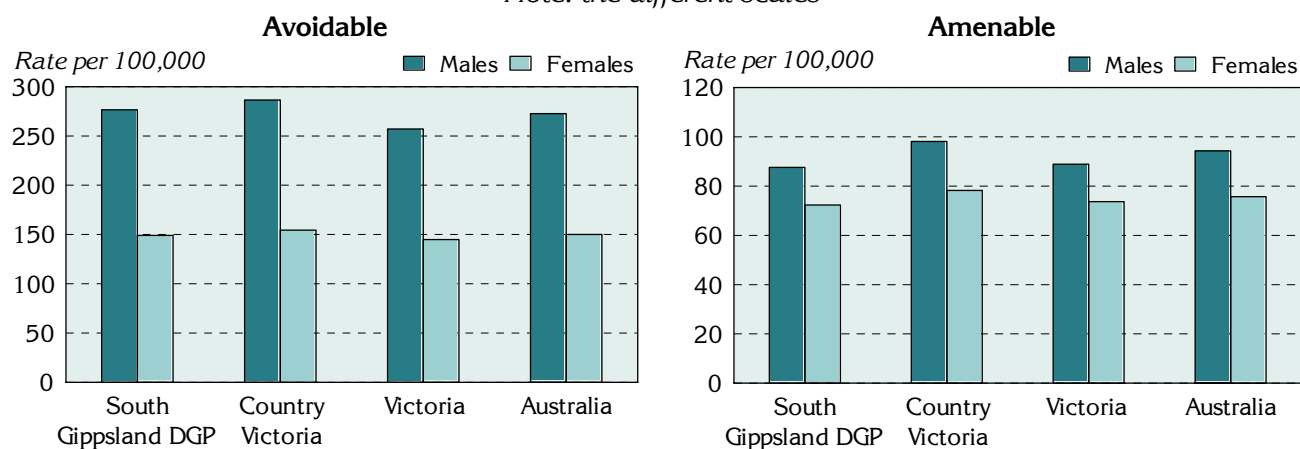


Table 9: Avoidable and amenable mortality (0 to 74 years) by sex, South Gippsland DGP, country Victoria, Victoria and Australia, 1997 to 2001

Mortality category and sex	South Gippsland DGP		Country Victoria		Victoria		Australia	
	No.	Rate ¹	No.	Rate ¹	No.	Rate ¹	No.	Rate ¹
Avoidable								
Males	505	276.6	9,664	286.5	29,042	257.0	123,026	272.6
Females	266	149.0	5,148	154.5	16,424	144.8	66,819	150.1
Total	771	213.3	14,812	221.0	45,466	201.3	189,845	211.8
Rate ratio-M:F²	..	1.86**	..	1.85**	..	1.77**	..	1.82**
Amenable								
Males	167	87.6	3,386	98.1	10,052	88.9	42,568	94.3
Females	129	72.3	2,615	78.2	8,354	73.7	33,681	75.7
Total	297	79.9	6,001	88.2	18,406	81.4	76,249	85.1
Rate ratio-M:F²	..	1.21	..	1.25**	..	1.21**	..	1.25**

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

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

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 South Gippsland DGP, country Victoria, Victoria 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 72.1% of total YLL (0 to 74 years) for South Gippsland DGP, slightly higher than the proportion for country Victoria. The proportion of YLL from amenable mortality for South Gippsland DGP (27.3%) was also slightly lower than that for country Victoria (28.1%).

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

Mortality category	South Gippsland DGP		Country Victoria		Victoria		Australia	
	No.	% of total	No.	% of total	No.	% of total	No.	% of total
Avoidable	12,943	72.1	253,666	71.2	790,054	71.5	3,327,375	71.9
(Amenable)	(4,899)	(27.3)	(100,131)	(28.1)	(310,758)	(28.1)	(1,298,430)	(28.0)
Unavoidable	5,012	27.9	102,576	28.8	315,555	28.5	1,303,289	28.1
Total	17,955	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.

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 1,271.7 deaths per 100,000 population in the South Gippsland 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 320.6 in the South Gippsland Division.

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

Mortality category and age (years)	South Gippsland DGP		Country Victoria		Victoria		Australia	
	No.	Rate ¹	No.	Rate ¹	No.	Rate ¹	No.	Rate ¹
Avoidable								
0-14	22	37.5	416	29.9	1,290	27.1	5,669	28.8
15-24	19	62.3	507	61.8	1,627	49.3	7,045	52.8
25-44	78	100.0	1,615	88.6	5,705	78.9	24,356	83.9
45-64	250	320.6	4,881	320.7	15,004	286.9	64,282	304.9
65-74	402	1,271.7	7,393	1396.1	21,840	1306.6	88,493	1,358.1
Total	771	213.3	14,812	221.0	45,466	201.3	189,845	211.8
Amenable								
0-24	18	19.1	352	15.5	1,189	14.9	5,083	15.4
25-44	15	18.4	419	22.3	1,382	19.1	5,946	20.5
45-64	109	139.8	2,091	137.4	6,489	123.8	27,464	130.3
65-74	154	489.9	3,139	593.1	9,348	558.6	37,756	579.4
Total	297	79.9	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 South Gippsland DGP were for cancer, with a rate of 71.5 deaths per 100,000 population, and cardiovascular diseases, 58.7 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 43.2 per 100,000 population and 24.2 per 100,000, respectively.

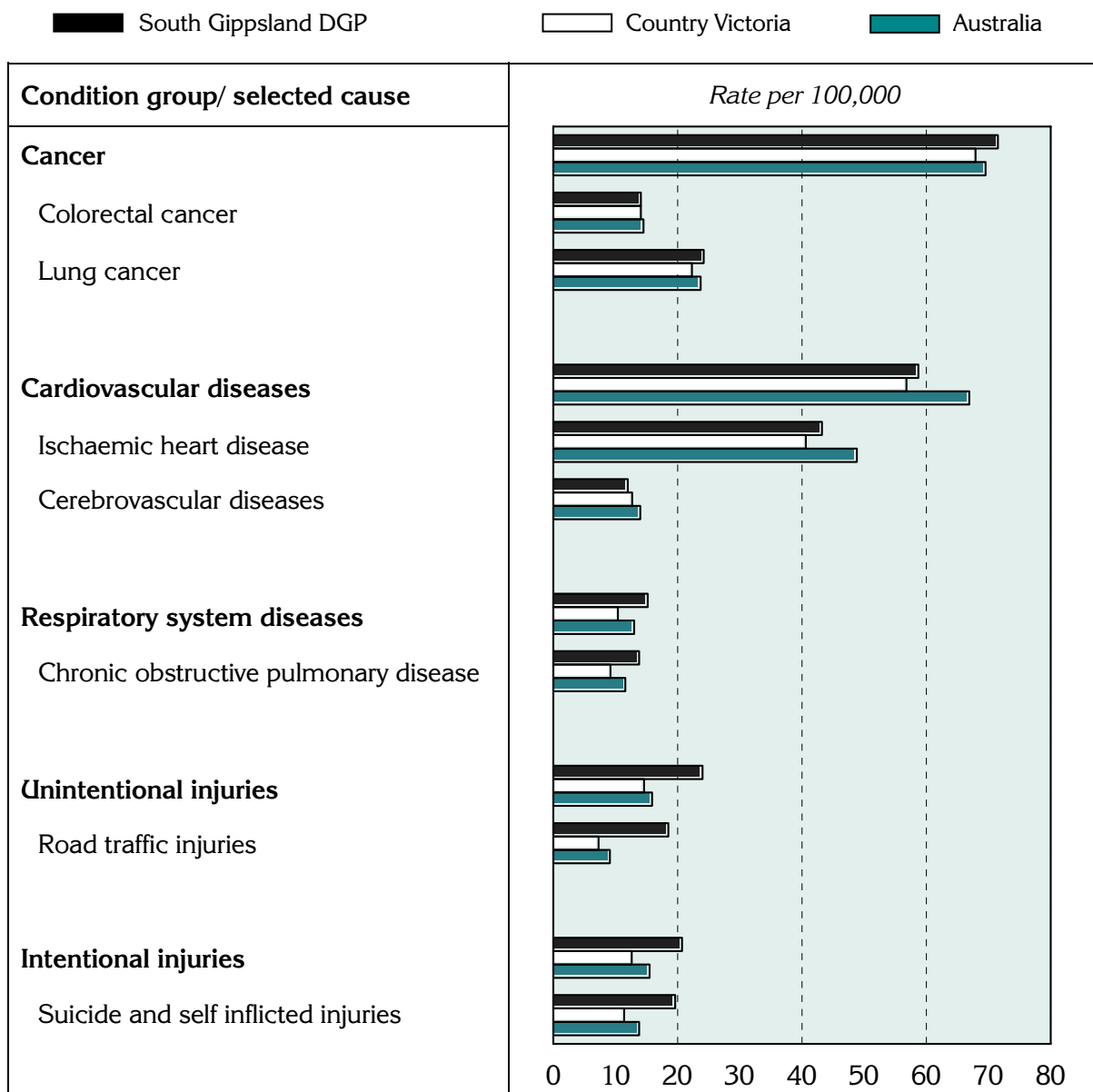
Table 12: Avoidable mortality (0 to 74 years) by major condition group and selected cause, South Gippsland DGP, country Victoria, Victoria and Australia, 1997 to 2001

Condition group/ selected cause	South Gippsland DGP		Country Victoria		Victoria		Australia	
	No.	Rate ¹	No.	Rate ¹	No.	Rate ¹	No.	Rate ¹
Cancer	270	71.5	5,074	74.2	15,813	69.8	62,338	69.5
Colorectal cancer	54	14.1	1,133	16.5	3,351	14.8	13,008	14.5
Lung cancer	95	24.2	1,739	25.0	5,244	23.1	21,208	23.7
Cardiovascular diseases	231	58.7	4,666	67.0	13,612	60.0	59,945	66.9
Ischaemic heart disease	169	43.2	3,432	49.3	9,809	43.3	43,712	48.8
Cerebrovascular diseases	47	12.0	934	13.4	2,947	12.9	12,558	14.0
Respiratory system diseases	61	15.2	977	13.9	2,621	11.5	11,612	13.0
Chronic obstructive pulmonary disease	57	13.8	888	12.5	2,339	10.2	10,395	11.6
Unintentional injuries	64	24.0	1,142	19.3	3,536	15.9	14,224	15.9
Road traffic injuries	49	18.5	739	12.5	1,931	8.7	8,138	9.1
Intentional injuries	54	20.7	946	16.2	3,020	13.6	13,891	15.5
Suicide and self inflicted injuries	52	19.6	875	15.0	2,752	12.3	12,393	13.8

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, apart from cardiovascular diseases, where the rate for Australia was higher (Figure 10).

Figure 10: Avoidable mortality (0 to 74 years) by major condition group and selected cause, South Gippsland 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 (ie. jobless families, people with health insurance): these areas are mapped with a pattern.

Statistical geography of the South Gippsland 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, most Local Government Areas (LGAs) have been split into SLAs. For example, South Gippsland has three SLAs, Central, East and West. These three SLAs and all or parts of the other SLAs listed comprise the Division (Table 14).

Table 14: SLAs and population in South Gippsland 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
20741	Bass Coast - Phillip Island	100.0	8,987
20744	Bass Coast - Balance	100.0	20,436
21454	Cardinia - South	100.0	5,340
23814	Latrobe - Morwell	2.2	494
23818	Latrobe Balance	17.6	473
26171	South Gippsland - Central	100.0	13,308
26174	South Gippsland - East	100.0	5,892
26175	South Gippsland - West	100.0	8,007
26811	Wellington - Alberton	85.5	4,974
28529	French Island	100.0	#

* 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

Not shown as the total population is less than 100

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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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