Population health profile of the

GP Down South

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 GP Down South Division of General Practice: supplement

This profile is a supplement to the *Population health profile of the GP Down South Division of General Practice*, dated November 2005, available from <u>www.publichealth.gov.au</u>. This supplement includes an update of the population of the GP Down South 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 GP Down South Division had an Estimated Resident Population of 147,953 at 30 June 2005.

Figure 1: Annual population change, GP Down South DGP, country Western Australia, Western Australia 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 3.7% on average each year, substantially higher than the increases in country Western Australia (1.0%) and Western Australia (1.6%). From 1996 to 2001, the annual percentage growth rate in the Division was 3.4%, around double the rates in country Western Australia (1.7%) and Western Australia (1.6%). The Division's growth rate of 3.6% from 2001 to 2005 was over twice the increases for country Western Australia (1.4%).

Table 1: Population by age,	GP Down South DGP and A	ustralia, 2005
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Age group (years)	GP Down DG		Austral	ia
(years)	No.	r %	No.	%
0-14	30,115	20.4	3,978,221	19.6
15-24	17,282	11.7	2,819,834	13.9
25-44	37,923	25.6	5,878,107	28.9
45-64	39,087	26.4	4,984,446	24.5
65-74	13,635	9.2	1,398,831	6.9
75-84	7,881	5.3	954,143	4.7
85+	2,031	1.4	315,027	1.5
Total	147,953	100.0	20,328,609	100.0

As shown in the accompanying table and the age-sex pyramid (Figure 2), the GP Down South DGP had relatively fewer young people at ages 15 to 24 years (11.7%) and people aged 25 to 44 years (25.6%) compared to Australia as a whole (with 13.9% and 28.9%) (Table 1). Conversely, the proportions of the Division's population aged 45 to 84 years were higher than those for Australia.

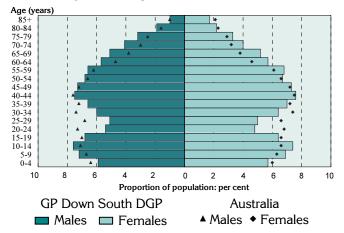
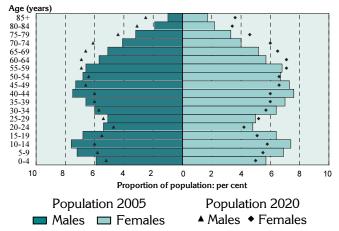


Figure 2: Population in GP Down South DGP and Australia, by age and sex, 2005

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

- at younger ages relatively fewer boys and girls aged 0 to 4 years, and higher proportions of children aged 5 to 14 years;
- from 15 to 39 years relatively fewer males and females (most notably at ages 20 to 29 years); and
- from 55 to 84 years relatively more males and females (to 79 years).

Figure 3: Population projections for GP Down South 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, young people and young adults, aged 0 to 24 years;
- from 30 to 54 years relatively fewer males and females; and
- from 55 years onwards relatively more males and females.

Additional socio-demographic indicators

Please refer to the earlier *Population health profile of the GP Down South Division of General Practice*, dated November 2005, available from <u>www.publichealth.gov.au</u>, for other socio-demographic indicators.

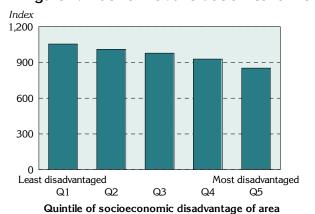


Figure 4: Index of Relative Socio-Economic Disadvantage, GP Down South DGP, 2001

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

The GP Down South DGP has an index score of 965, below the score for Australia of 1000: this score varies across the Division, from a low of 852 in the most disadvantaged areas to 1054 in the least disadvantaged areas.

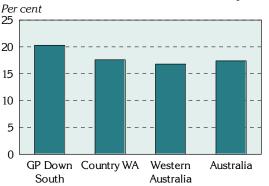
Note: each 'quintile' comprises approximately 20% of the population of the Division.

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 notably more jobless families in the GP Down South DGP (20.3%), compared to country Western Australia as a whole (17.6%) (Figure 5, Table 2).

With the introduction of the 30% rebate for private health insurance premiums, there was a once-off registration process, providing information of the postcode and residence of those who had such insurance (these data are not available at this area level for later dates). In 2001, the Division had a notably higher proportion of the population with private health insurance (33.5%), compared to country Western Australia (30.3%) (Figure 5, Table 2).

Figure 5: Socio-demographic indicators, GP Down South DGP, country Western Australia, Western Australia and Australia, 2001

Jobless families with children under 15 years old



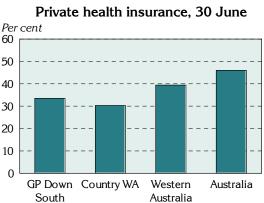
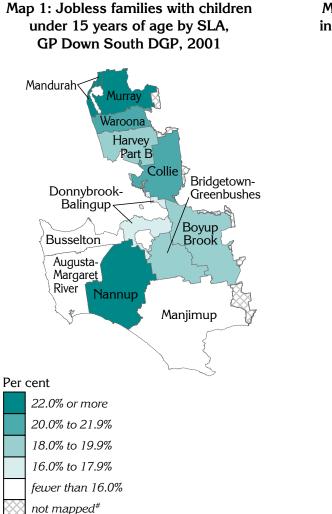


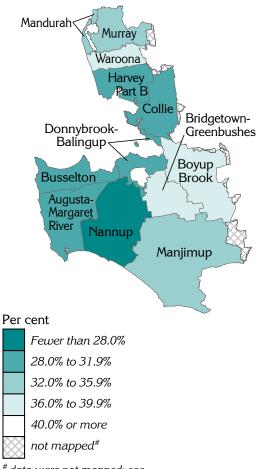
Table 2: Socio-demographic indicators, GP Down South DGP, country Western Australia,Western Australia and Australia, 2001

Indicator	GP Down South DGP				Western Au	stralia	Australia	
	No.	%	No.	%	No.	%	No.	%
Jobless families with children under 15 years old	2,835	20.3	10,142	17.6	34,396	16.8	357,563	17.4
Private health insurance (30 June)	40,067	33.5	148,821	30.3	708,743	39.4	8,671,106	46.0

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



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



[#] data were not mapped: see 'Mapping' note under Methods ^t data were not mapped: see 'Mapping' note under Methods

GP services to residents of the GP Down South 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 (88.1%) of all unreferred attendances to residents of GP Down South DGP were provided in the Division (ie. by a GP with a provider number in the Division): this represented 498,239 GP unreferred attendances (Table 3). A further 1.6% of unreferred attendances to residents were provided by GPs with a provider number in both Fremantle Regional DGP and Greater Bunbury DGP.

Division		Unreferred a	attendances
Number	Name	No.	% ³
607	GP Down South DGP	498,239	88.1
605	Fremantle Regional DGP	8,864	1.6
613	Greater Bunbury DGP	8,839	1.6
606	Rockingham Kwinana DGP	8,656	1.5
604	Canning DGP	7,799	1.4
601	Perth & Hills DGP	7,478	1.3
Other		25,758	4.5
Total		565,633	100.0

Table 3: Patient flow – People living ¹ in GP Down South DGP by Division
where attendance occurred ² , $2003/04$

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 607 by Division in which attendance occurred

The majority (91.7%) of unreferred attendances provided by GPs with a provider number in GP Down South DGP were also to people living in the Division (ie. their Medicare address was in the Division) (Table 4). A further 1.8% of unreferred attendances by GPs in the Division were to people living in Greater Bunbury DGP, with 1.5% also to residents of Rockingham Kwinana DGP.

Division		Unreferred attendances			
Number	Name	No.	% ³		
607	GP Down South DGP	498,239	91.7		
613	Greater Bunbury DGP	9,909	1.8		
606	Rockingham Kwinana DGP	8,305	1.5		
609	Great Southern DGP	4,081	0.8		
604	Canning DGP	4,008	0.7		
601	Perth & Hills DGP	3,194	0.6		
Other		15,324	2.8		
Total		543,060	100.0		

Table 4: GP catchment – Unreferred attendances provided by GPs1 in GP Down South DGPby Division of patient address2, 2003-04

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 607 by Division of patient address

Additional prevalence estimates: chronic diseases and risk factors combined

Please refer to the earlier *Population health profile of the GP Down South Division of General Practice*, dated November 2005, available from <u>www.publichealth.gov.au</u>, 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 GP Down South DGP who had asthma and were smokers, compared to country Western Australia or Australia as a whole (Figure 6, Table 5): that is, the prevalence rates per 1,000 population were higher. The rate of people in GP Down South DGP who had type 2 diabetes and were overweight/ obese was higher compared to country Western Australia, and consistent with the rate for Australia.

Figure 6: Estimates of selected chronic diseases and risk factors, GP Down South DGP, country Western Australia and Australia, 2001



Table 5: Estimates of selected chronic diseases and risk factors, GP Down South DGP,country Western Australia, Western Australia and Australia, 2001

Variable	GP Down South DGP		Countr	y WA	Western A	Australia	Austr	alia
_	No. ¹	Rate ²	No. ¹	Rate ²	No. ¹	Rate ²	No. ¹	Rate ¹
Had asthma & smoked ³	2,881	26.3	11,045	25.2	38,731	21.1	397,734	20.8
Had type 2 diabetes & were overweight/ obese ⁴	1,972	14.9	5,869	13.2	25,290	15.0	283,176	15.2

¹ No. is a weighted estimate of the number of people in GP Down South 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 <u>www.publichealth.gov.au</u>.

In 2001 to 2002, the 4,883 admissions from ambulatory care sensitive (ACS) conditions accounted for 10.6% of all admissions in the GP Down South DGP (Table 6, Figure 7), markedly above the levels in Western Australia (8.8) and Australia (8.7%).

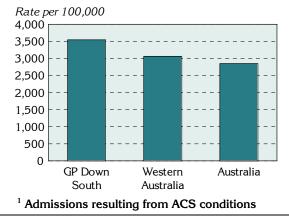
Table 6: Avoidable ¹ and unavoidable hospitalisations, GP Down South DGP,
Western Australia, and Australia, 2001/02

Category	GP Down South DGP			GP Down South DGP Western Australia					Australia		
	No.	Rate ²	%	No.	Rate ²	%	No.	Rate ²	%		
Avoidable ¹	4,883	3,543.7	10.6	55,102	3,062.4	8.8	552,786	2,847.5	8.7		
Unavoidable	41,073	30,656.8	89.4	568,402	31,010.0	91.2	5,818,199	29,970.7	91.3		
Total	45,956	34,216.9	100.0	623,504	34,070.5	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, GP Down South DGP, Western Australia and Australia, 2001/02

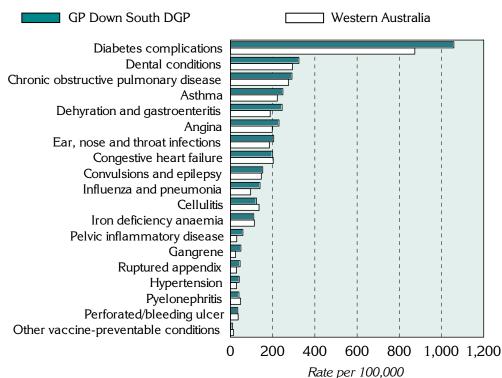


The rate of avoidable hospitalisations in GP Down South DGP is notably higher, a rate of 3,543.7 admissions per 100,000 population, compared to both Western Australia (a rate of 3,062.4) and Australia (2,847.5).

Diabetes complications, dental conditions, and chronic obstructive pulmonary disease were the three conditions with the highest rates of avoidable hospitalisations in the GP Down South 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, GP Down South DGP and Western Australia, 2001/02



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

-	and Aus	tralia, 200	1/02			
Sub-category/ condition	GP De South		Western /	Australia	Austi	alia
	No.	Rate ²	No.	Rate ²	No.	Rate ²
Vaccine-preventable	205	151.1	2,018	110.7	16,573	85.4
Influenza and pneumonia	191	140.4	1,743	96.2	13,021	67.1
Other vaccine preventable	14	10.7	275	14.5	3,552	18.3
Chronic ³	3,121	2,182.4	33,628	1,915.6	352,545	1,816
Diabetes complications	1,539	1,058.3	15,323	873.6	141,345	728.1
Iron deficiency anaemia	153	110.9	2,009	113.4	16,451	84.7
Hypertension	58	42.0	510	29.0	6,354	32.7
Congestive heart failure	280	200.4	3,400	202.9	42,447	218.6
Angina	332	230.2	3,452	198.5	49,963	257.4
Chronic obstructive pulmonary disease	435	291.8	4,707	275.9	54,853	282.6
Asthma	324	248.8	4,227	222.3	41,009	211.3
Acute	1,667	1,283.4	21,021	1,121.4	200,913	1,035
Dehydration and gastroenteritis	320	245.0	3,443	188.7	37,766	194.5
Convulsions and epilepsy	197	153.3	2,779	146.7	31,137	160.4
Ear, nose and throat infections	263	205.3	3,550	185.3	32,075	165.2
Dental conditions	423	324.8	5,623	294.3	43,667	224.9
Perforated/bleeding ulcer	49	35.2	645	37.1	5,795	29.9
Ruptured appendix	59	45.9	566	29.4	3,866	19.9
Pyelonephritis	51	40.9	914	48.7	7,386	38.0
Pelvic inflammatory disease	70	59.3	577	30.2	6,547	33.7
Cellulitis	165	123.9	2,484	135.9	28,204	145.3
Gangrene	70	49.8	440	25.1	4,470	23.0
Total avoidable hospitalisations ⁴	4,883	3,543.7	55,102	3,062.4	552,786	2,847.5

Table 7: Avoidable hospitalisations ¹ by condition, GP Down South DGP, Western Australia
and Australia, 2001/02

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 the *Australian and New Zealand Atlas of Avoidable Mortality*, available from www.publichealth.gov.au.

Almost three quarters (72.7%) of all deaths in GP Down South DGP at ages 0 to 74 years over the period 1997 to 2001 are considered to be avoidable, the same as the proportion for country Western Australia (72.7%) (Table 8). However, the rate in the Division is notably lower than that in country Western Australia, a differential of 0.86.

Deaths amenable to health care (amenable mortality, a subset of avoidable mortality) accounted for 28.6% of all deaths at ages 0 to 74 years in GP Down South DGP, compared to 27.6% in country Western Australia.

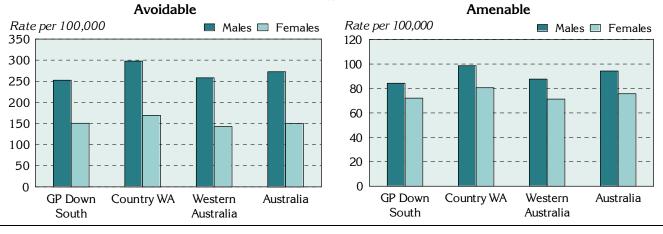
Mortality category	GP Down South DGP		Countr	y WA	Western A	Australia	Austr	alia
	No.	Rate ¹	No.	Rate ¹	No.	Rate ¹	No.	Rate ¹
Avoidable	1,322	201.7	5,122	233.8	16,602	201.0	189,845	211.8
% of total	72.7		72.7		71.2		71.5	
(Amenable)	(520)	(78.1)	(1,943)	(89.6)	(6,517)	(79.6)	(76,249)	(85.1)
(% of total)	(28.6)	()	(27.6)	()	(28.0)	()	(28.7)	()
Unavoidable	496	74.8	1,925	88.3	6,708	81.6	75,582	84.3
% of total	27.3	••	27.3	••	28.8		28.5	••
Total mortality	1,818	276.5	7,047	322.1	23,310	282.6	265,427	296.1
%	100.0		100.0		100.0		100.0	

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

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. GP Down South DGP's rate of avoidable mortality for males was 252.5 deaths per 100,000 males, higher than the rate of 150.6 for females. Similarly, the rate of amenable mortality for males in the Division was higher, 84.3, compared to 72.1, for females, a rate ratio of 1.17 (Figure 9, Table 9).

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



Note: the different scales

Mortality category and sex	GP Down South DGP		Country WA		Western Australia		Australia	
	No.	Rate ¹	No.	Rate ¹	No.	Rate ¹	No.	Rate ¹
Avoidable								
Males	848	252.5	3,426	297.9	10,850	258.3	123,026	272.6
Females	474	150.6	1,696	169.3	5,752	142.9	66,819	150.1
Total	1,322	201.7	5,122	233.8	16,602	201.0	189,845	211.8
Rate ratio–M:F ²	••	1.68**	••	1.76**	••	1.81**		1.82**
Amenable								
Males	292	84.3	1,130	98.6	3,646	87.7	42,568	94.3
Females	228	72.1	813	80.6	2,871	71.3	33,681	75.7
Total	520	78.1	1,943	89.6	6,517	79.6	76,249	85.1
Rate ratio–M:F ²	••	1.17	••	1.22**	••	1.23**	••	1.25**

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

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 GP Down South DGP, country Western Australia, Western Australia 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 73.5% of total YLL (0 to 74 years) for GP Down South DGP, consistent with the 73.2% for country Western Australia. The proportion of YLL from amenable mortality of 27.7% for GP Down South DGP was higher than the 26.5% for country Western Australia.

Mortality category	GP Down South DGP		Country WA		Western Australia		Australia	
	No.	% of total	No.	% of total	No.	% of total	No.	% of total
Avoidable	22,709	73.5	95,572	73.2	300,008	71.7	3,327,375	71.9
(Amenable)	(8,564)	(27.7)	(34,657)	(26.5)	(113,010)	(27.0)	(1,298,430)	(28.0)
Unavoidable	8,195	26.5	35,020	26.8	118,618	28.3	1,303,289	28.1
Total	30,904	100.0	130,592	100.0	418,625	100.0	4,630,664	100.0

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

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 1,260.6 deaths per 100,000 population in the GP Down South 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 280.2 in the GP Down South Division.

Mortality category and age (years)	GP Down South DGP		Count	Country WA		Western Australia		Australia	
	No.	Rate ¹	No.	Rate ¹	No.	Rate ¹	No.	Rate ¹	
Avoidable									
0-14	30	22.3	196	32.5	548	27.9	5,669	28.8	
15-24	67	98.7	309	96.4	826	60.7	7,045	52.8	
25-44	146	83.7	883	110.1	2,479	85.3	24,356	83.9	
45-64	407	280.2	1,718	325.2	5,546	275.2	64,282	304.9	
65-74	673	1,260.6	2,016	1360.4	7,203	1282.7	88,493	1,358.1	
Total	1,322	201.7	5,122	233.8	16,602	201.0	189,845	211.8	
Amenable									
0-24	28	13.2	153	15.6	454	13.8	5,083	15.4	
25-44	38	21.3	223	28.3	594	20.5	5,946	20.5	
45-64	167	114.5	706	135.1	2,381	118.5	27,464	130.3	
65-74	287	541.7	861	585.9	3,088	550.9	37,756	579.4	
Total	520	78.1	1,943	89.6	6,517	79.6	76,249	85.1	

Table 11: Avoidable and amenable mortality by age, GP Down South DGP,
country Western Australia, Western Australia and Australia, 1997 to 2001

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 GP Down South DGP were for cancer, with a rate of 67.8 deaths per 100,000 population, and cardiovascular diseases, 60.7 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 44.5 per 100,000 population and 22.2 per 100,000, respectively.

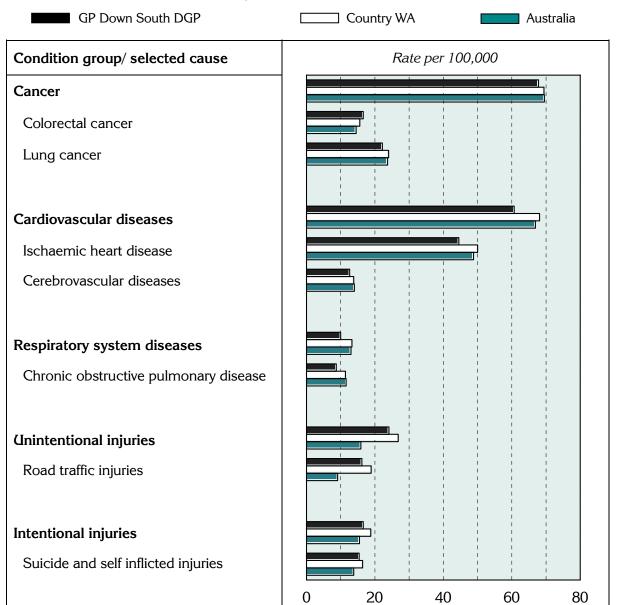
Condition group/ selected cause	GP De South		Countr	y WA	Western Australia		Australia	
	No.	Rate ¹	No.	Rate ¹	No.	Rate ¹	No.	Rate ¹
Cancer	456	67.8	1,488	69.4	5,531	67.8	62,338	69.5
Colorectal cancer	113	16.6	335	15.6	1,189	14.6	13,008	14.5
Lung cancer	154	22.2	515	24.0	1,842	22.8	21,208	23.7
Cardiovascular diseases	418	60.7	1,456	68.1	4,750	58.9	59,945	66.9
lschaemic heart disease	308	44.5	1,075	50.0	3,469	42.9	43,712	48.8
Cerebrovascular diseases	87	12.6	289	13.8	1,000	12.5	12,558	14.0
Respiratory system diseases	70	10.0	278	13.3	871	11.0	11,612	13.0
Chronic obstructive pulmonary disease	62	8.7	238	11.4	748	9.5	10,395	11.6
Unintentional injuries	132	24.1	626	26.8	1,549	17.5	14,224	15.9
Road traffic injuries	88	16.2	439	18.9	918	10.3	8,138	9.1
Intentional injuries Suicide and self inflicted injuries	90 84	16.6 15.4	444 386	18.8 16.4	1,412 1,270	15.9 14.3	13,891 12,393	15.5 13.8

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

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

Rates in the Division for the condition groups and selected causes showed no consistent pattern in relation to the rates for Australia: however, for all but colorectal cancer they were below those for country Western Australia (Figure 10).

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



Notes on the data

Data sources and limitations

General

References to 'country Western Australia' relate to Western Australia excluding the Perth Statistical Division.

Data sources

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

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-demograph	ic 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/ C	iP catchment			
Tables 3 and 4	Medicare Australia, 2003/04			
Additional prevalence estimation	ates: chronic diseases and risk factors combined			
Figure 6; Table 5	Estimated from 2001 National Health Survey (NHS), ABS (unpublished)			
Avoidable hospitalisations: h	nospital 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)			

Table 13: Data sources

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 GP Down South DGP

For information on the postcodes in the Division, please refer the Department of Health and Ageing website <u>http://www.health.gov.au/internet/wcms/publishing.nsf/Content/health-pcd-programs-divisions-divspc.htm;</u> 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, SLAs are the generally same as local government areas (LGAs). The exception is the Shire of Harvey, which is split into two SLAs: one of these (Part B) is partly in the Division (53% of Part B). This SLA and all or parts of the other SLAs listed in Table 14 comprise the Division.

SLA code	SLA name	Per cent of the SLA's population in the Division [*]	Estimate of the SLA's 2005 population in the Division
50280	Augusta-Margaret River	100.0	11,689
50770	Boyup Brook	100.0	1,501
50840	Bridgetown-Greenbushes	100.0	4,001
51260	Busselton	100.0	27,546
51890	Collie	100.0	8,829
52870	Donnybrook-Balingup	15.8	755
53994	Harvey - Part B	67.2	5,578
55110	Mandurah	100.0	61,889
55180	Manjimup	95.1	9,260
56230	Murray	100.0	12,121
56300	Nannup	100.0	1,236
58820	Waroona	100.0	3,548

Table 14: SLAs and population in GP Down South DGP, 2005 on 2001 boundaries

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

Further developments and updates

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

PHIDU contact details

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