Population health profile of the

Murray Mallee

Division of General Practice: supplement

Population Profile Series: No. 98a

DOING

March 2007







Copyright

© Commonwealth of Australia 2007

This work may be reproduced and used subject to acknowledgement of the source of any material so reproduced.

National Library of Australia Cataloguing in Publication entry

Population health profile of the Murray Mallee Division of General Practice: supplement.

Bibliography.

ISBN 9780730896944 (web).

- 1. Public health South Australia Murray Mallee Statistics.
- 2. Health status indicators South Australia Murray Mallee -

Statistics. 3. Health service areas - South Australia - Murray

Mallee. 4. Murray Mallee (S. Aust.) - Statistics, Medical.

I. Public Health Information Development Unit (Australia).

(Series: Population profile series; no. 98a).

362.10994233

ISSN 1833-0452 Population Profile Series

Public Health Information Development Unit, The University of Adelaide A Collaborating Unit of the Australian Institute of Health and Welfare

This profile was produced by PHIDU, the Public Health Information Development Unit at The University of Adelaide, South Australia. The work was funded under a grant from the Australian Government Department of Health and Ageing. The views expressed in this profile are solely those of the authors and should not be attributed to the Department of Health and Ageing or the Minister for Health and Ageing.

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.

Suggested citation:

PHIDU. (2007) Population health profile of the Murray Mallee Division of General Practice: supplement. Population Profile Series: No. 98a. Public Health Information Development Unit (PHIDU), Adelaide.

Enquiries about or comments on this publication should be addressed to:

PHIDU, The University of Adelaide, South Australia 5005

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

This publication, the maps and supporting data, together with other publications on population health, are available from the PHIDU website (www.publichealth.gov.au).

Published by Public Health Information Development Unit, The University of Adelaide

Contributors: Anthea Page, Sarah Ambrose, Kristin Leahy and John Glover

Population health profile of the Murray Mallee Division of General Practice: supplement

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

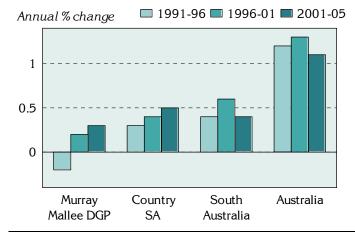
- Population [updated to June 2005]
- Additional socio-demographic indicators
- Unreferred attendances patient flow/ GP catchment
- Additional prevalence estimates: chronic diseases and risk factors combined
- Avoidable hospitalisations: hospital admissions resulting from ambulatory care sensitive conditions
- 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 Murray Mallee Division had an Estimated Resident Population of 31,424 at 30 June 2005.

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



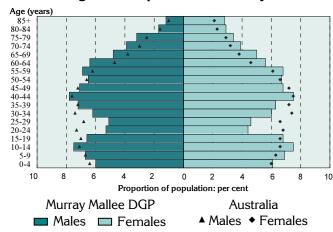
Over the five years from 1991 to 1996, the Division's population decreased by 0.2% on average each year, compared to increases in country South Australia (0.3%) and South Australia (0.4%). From 1996 to 2001, the annual increase in the Division was 0.2%, half that in country South Australia and South Australia (0.4%). The Division's population increase of 0.3% from 2001 to 2005 was again lower than the annual increases in country South Australia (0.5%) and South Australia (0.4%).

Table 1: Population by age, Murray Mallee DGP and Australia, 2005

Age group	Murray	Mallee	Australi	ia
(years)	DG	iP		
	No.	%	No.	%
0-14	6,394	20.3	3,978,221	19.6
15-24	3,614	11.5	2,819,834	13.9
25-44	7,953	25.3	5,878,107	28.9
45-64	8,308	26.4	4,984,446	24.5
65-74	2,776	8.8	1,398,831	6.9
75-84	1,751	5.6	954,143	4.7
85+	628	2.0	315,027	1.5
Total	31,424	100.0	20,328,609	100.0

As shown in the accompanying table and the age-sex pyramid (Figure 2), the Murray Mallee DGP had fewer young people aged 15 to 24 years (11.5%) and people in the 25 to 44 year age groups (25.3%) compared to Australia as a whole (with 13.9% and 28.9%) (Table 1). Conversely, the proportions of the Division's population aged 45 years and over were higher than those for Australia.

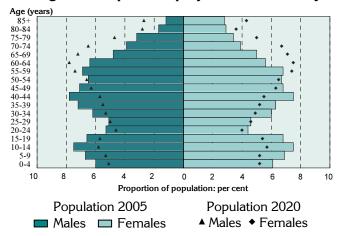
Figure 2: Population in Murray Mallee DGP and Australia, by age and sex, 2005



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

- at younger ages relatively fewer male children aged 0 to 4 years, and relatively more female children aged 5 to 14 years;
- from 15 to 39 years relatively fewer males (to 34 years) and females (from 20 years);
 and
- from 55 years higher proportions of both males and females.

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



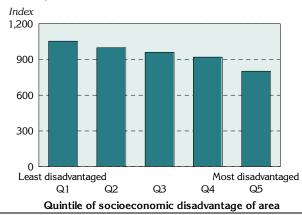
The population projections for the Division show a number of changes in age distribution, with the 2020 population projected to have:

- at younger ages relatively fewer children and young people aged 0 to 19 years;
- from 20 to 54 years relatively fewer males (to 50 year) and females; and
- from 55 years onwards relatively more males and females, particularly between 60 and 74 years of age.

Additional socio-demographic indicators

Please refer to the earlier *Population health profile of the Murray Mallee 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, Murray Mallee DGP, 2001



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

The Murray Mallee DGP has an index score of 945, below the score for Australia of 1000: this score varies across the Division, from a low of 801 in the most disadvantaged areas to 1053 in the least disadvantaged areas.

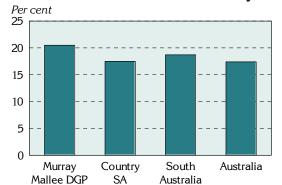
Note: each 'quintile' comprises approximately 20% of the population of the Division.

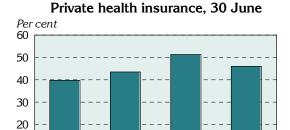
A new indicator, produced for the first time at the 2001 ABS Census, shows the number of jobless families with children under 15 years of age. There were notably more jobless families in the Murray Mallee DGP (20.5%), compared to country South Australia as a whole (17.5%) (Figure 5, Table 2).

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 relatively fewer people with private health insurance (39.7%) compared to country South Australia (43.5%) (Figure 5, Table 2).

Figure 5: Socio-demographic indicators, Murray Mallee DGP, country South Australia, South Australia and Australia, 2001

Jobless families with children under 15 years old





Country

SA

South

Australia

Australia

Table 2: Socio-demographic indicators, Murray Mallee DGP, country South Australia, South Australia and Australia, 2001

Murray

Mallee DGP

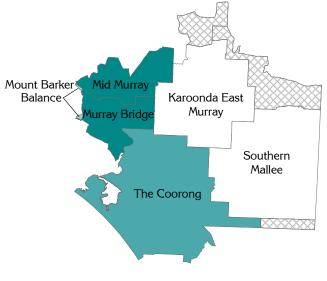
10

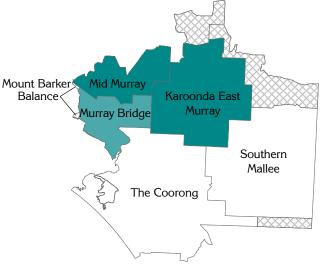
Indicator	Murray Mallee DGP		Country	Country SA		South Australia		Australia	
	No.	%	No.	%	No.	%	No.	%	
Jobless families with children under 15 years old	679	20.5	7,725	17.5	29,203	18.7	357,563	17.4	
Private health insurance (30 June)	11,984	39.7	173,066	43.5	754,598	51.3	8,671,106	46.0	

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

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

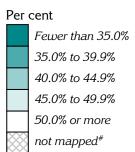
Map 2: People covered by private health insurance by SLA, Murray Mallee DGP, 30 June 2001







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



data were not mapped: see'Mapping' note under Methods

GP services to residents of the Murray Mallee 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 (88.2%) of all unreferred attendances to residents of Murray Mallee DGP were provided in the Division (i.e. by a GP with a provider number in the Division): this represented 145,940 GP unreferred attendances (Table 3). A further 2.6% of unreferred attendances to residents were provided by GPs with a provider number in Adelaide Hills DGP, with 1.9% provided by GPs in Adelaide Central and Eastern DGP.

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

Division		Unreferre	d attendances
Number	Name	No.	% ³
513	Murray Mallee DGP	145,940	88.2
514	Adelaide Hills DGP	4,321	2.6
504	Adelaide Central and Eastern DGP	3,139	1.9
505	Southern DGP	2,206	1.3
501	Adelaide Western DGP	1,614	1.0
502	Adelaide Northern DGP	1,299	8.0
506	Barossa DGP	1,267	0.8
510	Limestone Coast DGP	1,212	0.7
Other		4,557	2.8
Total		165,555	100.0

¹ Based on address in Medicare records

The majority (92.5%) of unreferred attendances provided by GPs with a provider number in Murray Mallee DGP were also to people living in the Division (i.e. their Medicare address was in the Division) (Table 4). A further 1.1% of unreferred attendances by GPs in the Division were to residents of Southern DGP.

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

Division		Unreferred a	attendances
Number	Name	No.	% ³
513	Murray Mallee DGP	145,940	92.5
505	Southern DGP	1,780	1.1
506	Barossa DGP	1,270	8.0
332	Mallee DGP	1,214	0.8
514	Adelaide Hills DGP	1,110	0.7
501	Adelaide Western DGP	877	0.6
502	Adelaide Northern DGP	743	0.5
Other		4,849	3.0
Total		157,783	100.0

¹ Division of GP based on provider number

² Division of GP based on provider number

³ Proportion of all unreferred attendances of patients with an address in Division 513 by Division in which attendance occurred

² Based on address in Medicare records

³ Proportion of all unreferred attendances to GPs with a provider number in Division 513 by Division of patient address

Additional prevalence estimates: chronic diseases and risk factors combined

Please refer to the earlier *Population health profile of the Murray Mallee 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 Murray Mallee DGP who had asthma and were smokers, compared to country South Australia or Australia as a whole (Figure 6, Table 5): that is, the prevalence rates per 1,000 population were higher. However, there were relatively fewer people in Murray Mallee DGP who had type 2 diabetes and were overweight/ obese, compared to Australia (although the rate in the Division was just above that in country South Australia).

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



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

Variable	Murray Mallee DGP		Count	Country SA		South Australia		Australia	
	No.1	Rate ²	No.1	Rate ²	No. ¹	Rate ²	No.1	Rate ¹	
Had asthma & smoked ³	789	28.5	9,057	25.5	32,487	22.3	397,734	20.8	
Had type 2 diabetes ε were overweight/ obese ⁴	444	13.2	5,425	12.8	23,187	14.9	283,176	15.2	

¹ No. is a weighted estimate of the number of people in Murray Mallee 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.

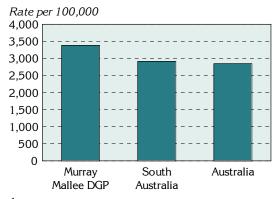
In 2001 to 2002, the 1,134 admissions from ambulatory care sensitive (ACS) conditions accounted for 11.3% of all admissions in the Murray Mallee DGP (Table 6, Figure 7), markedly above the levels in South Australia (8.5) and Australia (8.7%).

Table 6: Avoidable¹ and unavoidable hospitalisations, Murray Mallee DGP, South Australia, and Australia, 2001/02

Category	Murr	ay Mallee D	GP	Sou	South Australia			Australia			
	No.	Rate ²	%	No.	Rate ²	%	No.	Rate ²	%		
Avoidable ¹	1,134	3,383.1	11.3	47,247	2,915.7	8.5	552,786	2,847.5	8.7		
Unavoidable	8,894	27,539.8	88.7	507,053	32,039.4	91.5	5,818,199	29,970.7	91.3		
Total	10,028	30,949.3	100.0	554,300	34,952.2	100.0	6,370,985	32,818.2	100.0		

¹ Admissions resulting from ACS conditions

Figure 7: Avoidable hospitalisations¹, Murray Mallee DGP, South Australia and Australia, 2001/02



The rate of avoidable hospitalisations in Murray Mallee DGP is notably higher, a rate of 3,383.1 admissions per 100,000 population, compared to both South Australia (a rate of 2,915.7), and Australia (2,847.5).

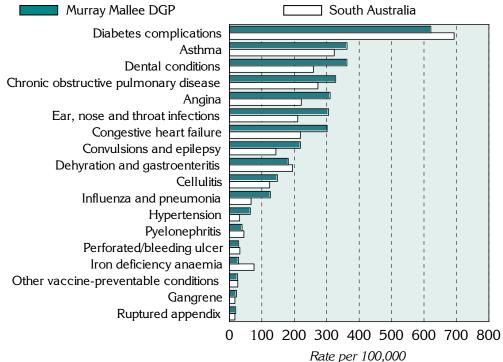
Diabetes complications, asthma, dental conditions and chronic obstructive pulmonary disease were the four conditions with the highest rates of avoidable hospitalisations in the Murray Mallee DGP (Figure 8, Table 7).

Table 7 shows the number, rate and proportion of avoidable hospitalisations, for the individual ACS conditions, as well as the vaccine-preventable; acute; and chronic sub-categories. The majority of avoidable hospitalisations are attributable to chronic health conditions. The predominance of hospitalisations for chronic conditions in this period can be primarily attributed to the large number of admissions for diabetes complications. Dental conditions and ear, nose and throat infections, have the highest rates of avoidable hospitalisations for the acute conditions.

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

¹ Admissions resulting from ACS conditions

Figure 8: Avoidable hospitalisations¹ by condition, Murray Mallee DGP and South Australia, 2001/02



¹ Admissions resulting from ACS conditions: excludes nutritional deficiencies as less than ten admissions, and pelvic inflammatory disease as number of admissions insufficient

Table 7: Avoidable hospitalisations¹ by condition, Murray Mallee DGP, South Australia and Australia, 2001/02

Sub-category/ condition	Murray Ma	llee DGP	South A	ustralia	Austr	alia
	No.	Rate ²	No.	Rate ²	No.	Rate ²
Vaccine-preventable	50	151.8	1,466	92.9	16,573	85.4
Influenza and pneumonia	42	126.3	1,075	67.0	13,021	67.1
Other vaccine preventable	8	25.5	391	25.9	3,552	18.3
Chronic ³	697	2,016.7	30,607	1,837.6	352,545	1,816
Diabetes complications	218	621.2	11,640	692.9	141,345	728.1
Iron deficiency anaemia	10	28.4	1,271	76.1	16,451	84.7
Hypertension	22	64.5	532	31.6	6,354	32.7
Congestive heart failure	106	301.4	3,900	219.1	42,447	218.6
Angina	110	310.6	3,778	221.6	49,963	257.4
Chronic obstructive pulmonary disease	117	327.8	4,710	272.9	54,853	282.6
Asthma	114	362.8	4,776	323.4	41,009	211.3
Acute	420	1,326.2	16,405	1,077.6	200,913	1,035
Dehydration and gastroenteritis	58	181.4	3,111	194.8	37,766	194.5
Convulsions and epilepsy	69	218.9	2,153	143.6	31,137	160.4
Ear, nose and throat infections	95	306.0	3,046	210.9	32,075	165.2
Dental conditions	114	362.4	3,831	259.2	43,667	224.9
Perforated/bleeding ulcer	10	28.7	555	32.5	5,795	29.9
Ruptured appendix	6	19.6	255	17.0	3,866	19.9
Pyelonephritis	11	38.9	681	44.7	7,386	38.0
Pelvic inflammatory disease	#		497	33.7	6,547	33.7
Cellulitis	49	148.3	1,987	124.1	28,204	145.3
Gangrene	8	22.0	289	17.1	4,470	23.0
Total avoidable hospitalisations ⁴	1,134	3,383.1	47,247	2,915.7	552,786	2,847.5

¹ Admissions resulting from ACS conditions

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

³ Excludes nutritional deficiencies as less than ten admissions

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

Avoidable mortality

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

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

Nearly three quarters (74.6%) of all deaths in Murray Mallee DGP at ages 0 to 74 years over the period 1997 to 2001 are considered to be avoidable, higher than the proportion for country South Australia (72.5%) (Table 8). Deaths amenable to health care (amenable mortality, a subset of avoidable mortality) accounted for 31.5% of all deaths at ages 0 to 74 years in Murray Mallee DGP, higher than the 29.8% in country South Australia.

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

Mortality category	Murray Mallee DGP		Counti	Country SA		South Australia		Australia	
•	No.	Rate ¹	No.	Rate ¹	No.	Rate ¹	No.	Rate ¹	
Avoidable	393	241.5	4,852	230.3	15,938	210.4	189,845	211.8	
% of total	74.6	••	72.5	••	71.4	••	71.5		
(Amenable)	(166)	(101.2)	(1,993)	(93.6)	(6,556)	(85.9)	(76,249)	(85.1)	
(% of total)	(31.5)	()	(29.8)	()	(29.4)	()	(28.7)	()	
Unavoidable	134	81.8	1,837	86.5	6,369	83.7	75,582	84.3	
% of total	25.4	••	27.5	••	28.6	••	28.5	••	
Total mortality	527	323.2	6,688	316.8	22,307	294.1	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. Murray Mallee DGP's rate of avoidable mortality for males was 330.1 deaths per 100,000 males, higher than the rate of 149.9 for females. Similarly, the rate of amenable mortality for males in the Division was higher, 114.5, compared to 87.5 for females, a rate ratio of 1.31 (Figure 9, Table 9).

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

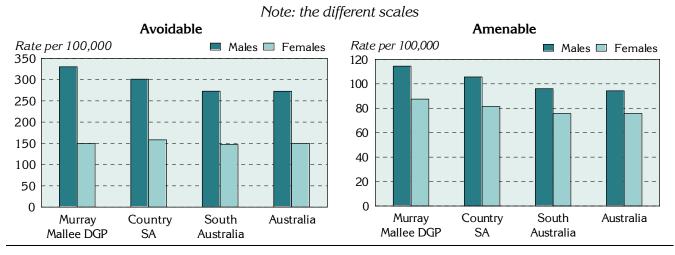


Table 9: Avoidable and amenable mortality (0 to 74 years) by sex, Murray Mallee DGP, country South Australia, South Australia and Australia, 1997 to 2001

, ,		Mallee P	Count	Country SA		South Australia		Australia	
	No.	Rate ¹	No.	Rate ¹	No.	Rate ¹	No.	Rate ¹	
Avoidable									
Males	279	330.1	3,259	300.9	10,326	272.8	123,026	272.6	
Females	114	149.9	1,593	158.3	5,612	147.2	66,819	150.1	
Total	393	241.5	4,852	230.3	15,938	210.4	189,845	211.8	
Rate ratio-M:F ²	••	2.20**	••	1.90**	••	1.85**		1.82**	
Amenable									
Males	99	114.5	1,169	105.6	3,671	96.0	42,568	94.3	
Females	67	87.5	824	81.4	2,884	75.7	33,681	75.7	
Total	166	101.2	1,993	93.6	6,556	85.9	76,249	85.1	
Rate ratio-M:F ²		1.31	••	1.30**		1.27**		1.25**	

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

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

The numbers of YLL for Murray Mallee DGP, country South Australia, South 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 75.0% of total YLL (0 to 74 years) for Murray Mallee DGP, higher than the 72.9% for country South Australia. The proportion of YLL from amenable mortality of 30.0% for Murray Mallee DGP was higher than the 28.9% for country South Australia.

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

Mortality category	Murray Mallee DGP		Country SA		South Australia		Australia	
•	No.	% of	No.	% of	No.	% of	No.	% of
		total		total		total		total
Avoidable	6,742	75.0	83,705	72.9	273,135	71.8	3,327,375	71.9
(Amenable)	(2,696)	(30.0)	(33, 165)	(28.9)	(108,777)	(28.6)	(1,298,430)	(28.0)
Unavoidable	2,252	25.0	31,059	27.1	107,223	28.2	1,303,289	28.1
Total	8,995	100.0	114,764	100.0	380,358	100.0	4,630,664	100.0

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

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 1,506.8 deaths per 100,000 population in the Murray Mallee 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 of 335.7 in the Murray Mallee Division.

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

Mortality category and age (years)	Murray Mallee DGP		Count	ry SA	South A	South Australia		Australia	
	No.	Rate ¹	No.	Rate ¹	No.	Rate ¹	No.	Rate ¹	
Avoidable									
0-14	7	21.0	118	26.8	352	24.2	5,669	28.8	
15-24	16	94.9	159	67.5	523	52.4	7,045	52.8	
25-44	50	113.7	596	99.3	1,979	88.8	24,356	83.9	
45-64	132	335.7	1,640	333.3	5,130	297.8	64,282	304.9	
65-74	188	1,506.8	2,338	1439.0	7,954	1354.8	88,493	1,358.1	
Total	393	241.5	4,852	230.3	15,938	210.4	189,845	211.8	
Amenable									
0-24	8	15.3	101	14.1	324	13.3	5,083	15.4	
25-44	9	19.7	146	23.8	507	22.6	5,946	20.5	
45-64	61	155.3	710	144.8	2,248	130.1	27,464	130.3	
65-74	89	718.4	1,036	641.3	3,477	591.6	37,756	579.4	
Total	166	101.2	1,993	93.6	6,556	85.9	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 Murray Mallee DGP were for cardiovascular diseases, a rate of 90.8 deaths per 100,000 population, and cancer, with a rate of 61.9 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 road traffic injuries, with rates of 73.5 per 100,000 population and 19.9 per 100,000, respectively.

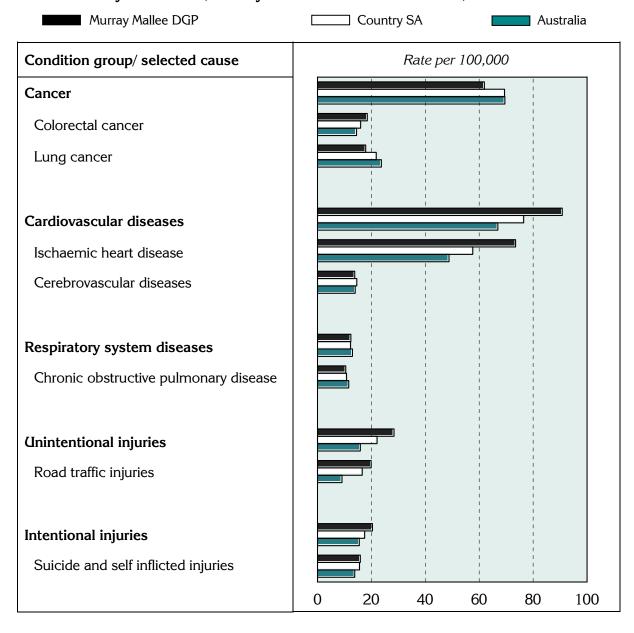
Table 12: Avoidable mortality (0 to 74 years) by major condition group and selected cause, Murray Mallee DGP, country South Australia, South Australia and Australia, 1997 to 2001

Condition group/ selected cause	Murray DC		Count	ry SA	South A	ustralia	Austi	alia
	No.	Rate ¹	No.	Rate ¹	No.	Rate ¹	No.	Rate ¹
Cancer	103	61.9	1,489	69.4	5,209	67.8	62,338	69.5
Colorectal cancer	31	18.5	346	16.0	1,142	14.8	13,008	14.5
Lung cancer	31	17.9	477	21.8	1,728	22.3	21,208	23.7
Cardiovascular diseases	154	90.8	1,669	76.5	5,324	68.5	59,945	66.9
Ischaemic heart disease	125	73.5	1,260	57.6	3,918	50.5	43,712	48.8
Cerebrovascular diseases	23	13.8	316	14.6	1,086	13.9	12,558	14.0
Respiratory system diseases	21	12.4	270	12.3	897	11.4	11,612	13.0
Chronic obstructive pulmonary disease	18	10.5	239	10.8	783	9.9	10,395	11.6
Unintentional injuries	40	28.4	412	22.1	1,085	15.5	14,224	15.9
Road traffic injuries	28	19.9	307	16.6	687	9.9	8,138	9.1
Intentional injuries	29	20.4	329	17.5	1,138	16.3	13,891	15.5
Suicide and self inflicted injuries	22	15.9	293	15.6	1,018	14.5	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 for country South Australia and Australia for all condition groups and selected causes other than for cancer (total and lung cancer), where rates were lower (Figure 10).

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



Notes on the data

Data sources and limitations

General

References to 'country South Australia' relate to South Australia excluding the Adelaide Statistical Division

Data sources

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

Table 13: Data sources

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

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

Methods

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

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

Mapping

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

Statistical geography of the Murray Mallee 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, Loxton Waikerie local government area (LGA) is split into two SLAs, Loxton Waikerie - East and Loxton Waikerie - West. Small parts of these SLAs and all or parts of the SLAs listed in Table 14 comprise the Division.

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

SLA code	SLA name	Per cent of the SLA's population in the Division [*]	Estimate of the SLA's 2005population in the Division
43080	Karoonda East Murray	100.0	1,168
44210	Mid Murray	49.4	4,156
44554	Mount Barker - Balance	2.3	197
45040	Murray Bridge	100.0	17,959
47290	Southern Mallee	100.0	2,197
47800	The Coorong	100.0	5,746

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

Acknowledgements

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

Further developments and updates

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

PHIDU contact details

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