

# Population health profile of the Eyre Peninsula

## Division of General Practice: supplement

Population Profile Series: No. 96a

PHIDU

March 2007



PHIDU



Australian Government

Australian Institute of  
Health and Welfare



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## National Library of Australia Cataloguing in Publication entry

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Population health profile of the Eyre Peninsula Division of General Practice: supplement.

Bibliography.

ISBN 9 78073089 6920 (web).

1. Public health - South Australia - Eyre Peninsula - Statistics. 2. Health status indicators - South Australia - Eyre Peninsula- Statistics. 3. Health service areas - South Australia - Eyre Peninsula. 4. Eyre Peninsula (S. Aust.) - Statistics, Medical. I. Public Health Information Development Unit (Australia). (Series : Population profile series ; no. 96a).

362.10994238

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*

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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 Eyre Peninsula Division of General Practice: supplement*. Population Profile Series: No. 96a. Public Health Information Development Unit (PHIDU), Adelaide.

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

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

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# Population health profile

## of the Eyre Peninsula Division of General Practice: supplement

This profile is a supplement to the *Population health profile of the Eyre Peninsula Division of General Practice*, dated November 2005, available from [www.publichealth.gov.au](http://www.publichealth.gov.au). This supplement includes an update of the population of the Eyre Peninsula 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:

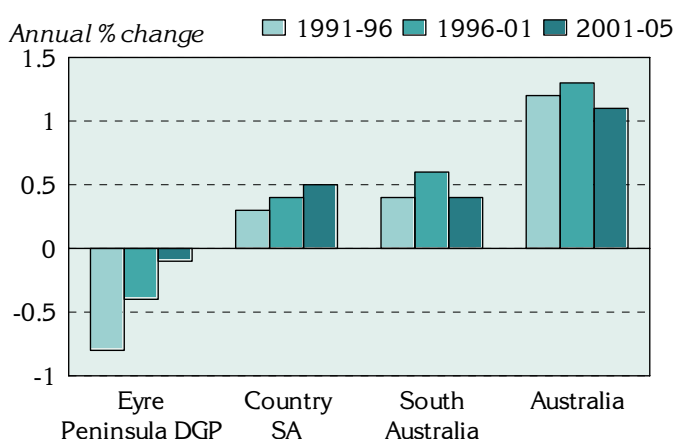
- Population [updated to June 2005]
- Additional socio-demographic indicators
- Unreferred attendances – patient flow/ GP catchment
- Additional prevalence estimates: chronic diseases and risk factors combined
- Avoidable hospitalisations: hospital admissions resulting from ambulatory care sensitive 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](http://www.publichealth.gov.au)).

## Population

The Eyre Peninsula Division had an Estimated Resident Population of 56,139 at 30 June 2005.

**Figure 1: Annual population change, Eyre Peninsula DGP, country South Australia, South Australia and Australia, 1991 to 1996, 1996 to 2001 and 2001 to 2005**



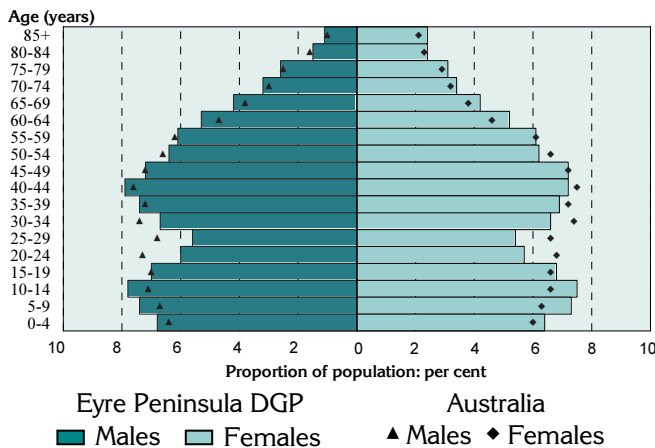
Over the five years from 1991 to 1996, there was a 0.8% decline in the Division's population, compared with small increases in country South Australia (0.3%) and South Australia (0.4%). From 1996 to 2001, the Division's population again declined (0.4%), compared to increases in country South Australia (0.4%) and South Australia (0.6%). The Division's rate of decline of 0.1% per year on average from 2001 to 2005 was again in contrast to the annual increases for country South Australia (0.5%) and South Australia (0.4%).

**Table 1: Population by age, Eyre Peninsula DGP and Australia, 2005**

Age group (years)	Eyre Peninsula DGP		Australia	
	No.	%	No.	%
0-14	12,112	21.6	3,978,221	19.6
15-24	7,172	12.8	2,819,834	13.9
25-44	15,074	26.9	5,878,107	28.9
45-64	13,941	24.8	4,984,446	24.5
65-74	4,199	7.5	1,398,831	6.9
75-84	2,689	4.8	954,143	4.7
85+	952	1.7	315,027	1.5
<b>Total</b>	<b>56,139</b>	<b>100.0</b>	<b>20,328,609</b>	<b>100.0</b>

As shown in the accompanying table and the age-sex pyramid (Figure 2), the Eyre Peninsula DGP had a higher proportion of children aged 0 to 14 years (21.6%) compared to Australia as a whole (with 19.6%) (Table 1). Conversely, the proportions of the Division's population aged 15 to 24 years (12.8%) and 25 to 44 years (26.9%) were lower than for Australia (with 13.9% and 28.9%). The proportions of the Division's population aged 45 years and over were higher than for Australia.

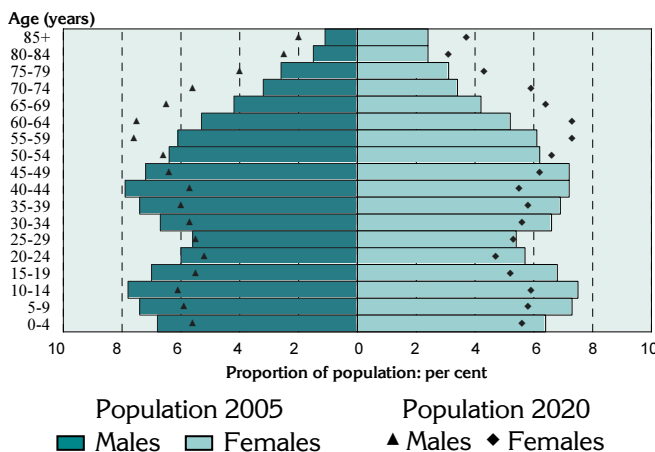
**Figure 2: Population in Eyre Peninsula DGP and Australia, by age and sex, 2005**



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

- at younger ages – relatively more male and female children aged 0 to 14 years;
- from 20 to 34 years – relatively fewer males and females; and
- at ages 60 years and over – slightly more females, and males between the ages of 65 and 79 years.

**Figure 3: Population projections for Eyre Peninsula DGP, by age and sex, 2005 and 2020**



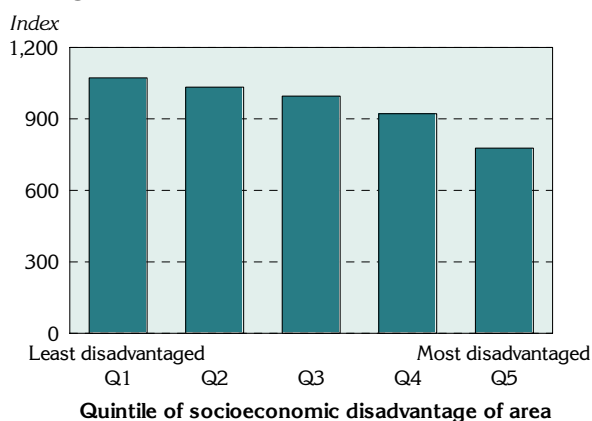
The population projections for the Division show a number of changes in age distribution, with the 2020 population projected to have:

- at younger ages – relatively fewer children and young people aged 0 to 19 years;
- from 20 to 49 years – relatively fewer males and females; and
- from 50 years onwards – noticeably more males and females, particularly between 55 and 74 years.

## Additional socio-demographic indicators

Please refer to the earlier *Population health profile of the Eyre Peninsula Division of General Practice*, dated November 2005, available from [www.publichealth.gov.au](http://www.publichealth.gov.au), for other socio-demographic indicators.

**Figure 4: Index of Relative Socio-Economic Disadvantage, Eyre Peninsula DGP, 2001**



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

The Eyre Peninsula DGP has an index score of 958, below the score for Australia of 1000; this score varies widely across the Division, from a low of 777 in the most disadvantaged areas to 1072 in the least disadvantaged areas.

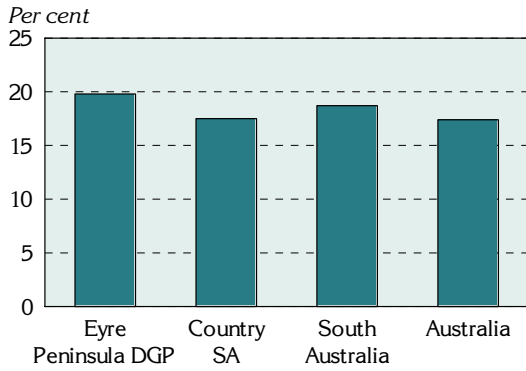
Note: each 'quintile' comprises approximately 20% of the population of the Division.

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 Eyre Peninsula DGP (19.8%), compared to country South Australia as a whole (17.5%) (Figure 5, Table 2).

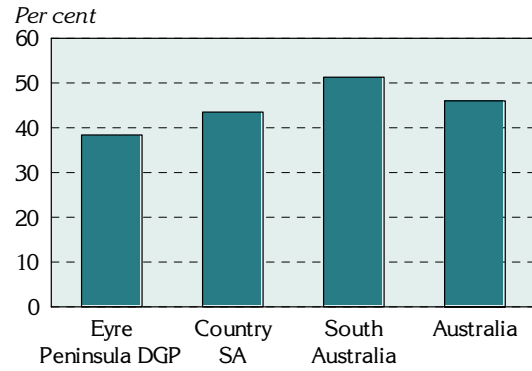
With the introduction of the 30% rebate for private health insurance premiums, there was a once-off registration process, providing information of the postcode and residence of those who had such insurance (these data are not available at this area level for later dates). In 2001, the Division had a notably lower proportion of people with private health insurance (38.4%), compared to country South Australia (43.5%) (Figure 5, Table 2).

**Figure 5: Socio-demographic indicators, Eyre Peninsula DGP, country South Australia, South Australia and Australia, 2001**

**Jobless families with children under 15 years old**



**Private health insurance, 30 June**

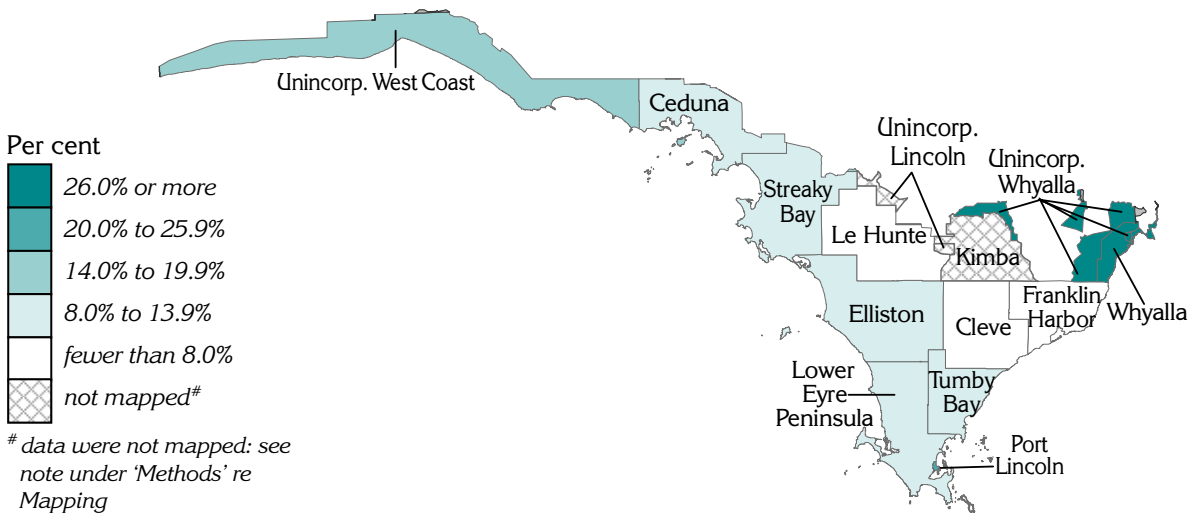


**Table 2: Socio-demographic indicators, Eyre Peninsula DGP, country South Australia, South Australia and Australia, 2001**

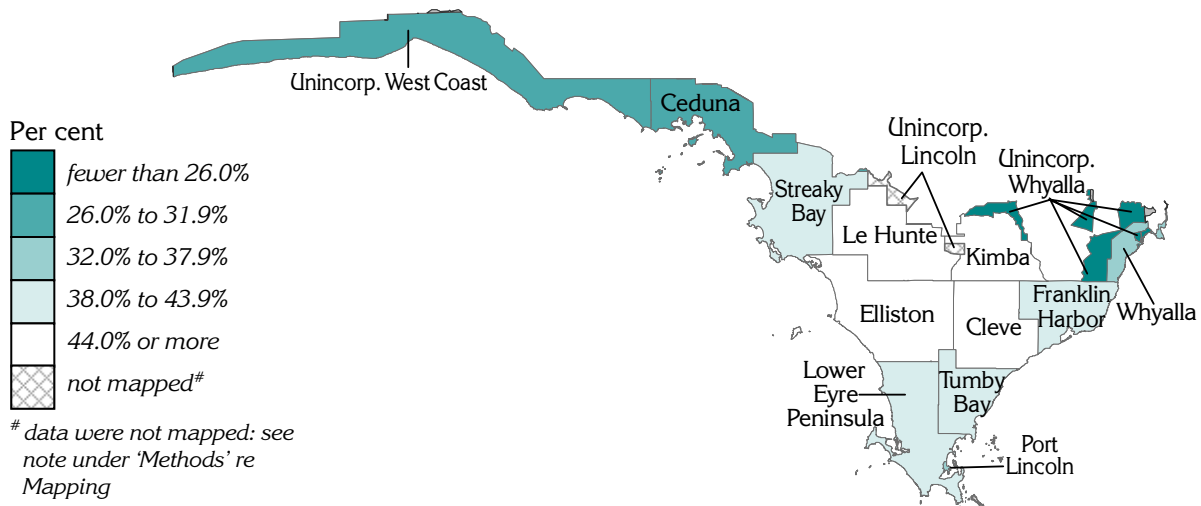
Indicator	Eyre Peninsula DGP		Country SA		South Australia		Australia	
	No.	%	No.	%	No.	%	No.	%
Jobless families with children under 15 years old	1,266	19.8	7,725	17.5	29,203	18.7	357,563	17.4
Private health insurance (30 June)	21,309	38.4	173,066	43.5	754,598	51.3	8,671,106	46.0

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, Eyre Peninsula DGP, 2001**



**Map 2: People covered by private health insurance by SLA, Eyre Peninsula DGP, 30 June 2001**



## GP services to residents of the Eyre Peninsula 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 (94.4%) of GP unreferred attendances to residents of Eyre Peninsula DGP were provided in the Division (ie. by a GP with a provider number in the Division): this represented 42,460 GP unreferred attendances (Table 3). A further 0.8% of unreferred attendances were provided by GPs with a provider number in Adelaide Central and Eastern DGP, also with 0.8% by GPs in Southern DGP.

**Table 3: Patient flow – People living<sup>1</sup> in Eyre Peninsula DGP by Division where attendance occurred<sup>2</sup>, 2003/04**

Division		Unreferred attendances	
Number	Name	No.	% <sup>3</sup>
511	Eyre Peninsula DGP	260,093	94.4
504	Adelaide Central and Eastern DGP	2,170	0.8
505	Southern DGP	2,142	0.8
501	Adelaide Western DGP	1,749	0.6
512	Flinders and Far North DGP	1,633	0.6
502	Adelaide Northern DGP	1,427	0.5
503	Adelaide North Eastern DGP	839	0.3
Other	..	5,584	2.0
<b>Total</b>	<b>..</b>	<b>275,637</b>	<b>100.0</b>

<sup>1</sup> Based on address in Medicare records

<sup>2</sup> Division of GP based on provider number

<sup>3</sup> Proportion of all unreferred attendances of patients with an address in Division 511 by Division in which attendance occurred

The majority (93.9%) of unreferred attendances provided by GPs with a provider number in Eyre Peninsula DGP were also to people living in the Division (ie. their Medicare address was in the Division) (Table 4). A further 0.8% of unreferred attendances provided by the Division's GPs were to people living in Flinders and Far North DGP.

**Table 4: GP catchment – Unreferred attendances provided by GPs<sup>1</sup> in Eyre Peninsula DGP by Division of patient address<sup>2</sup>, 2003/04**

Division		Unreferred attendances	
Number	Name	No.	% <sup>3</sup>
511	Eyre Peninsula DGP	260,093	93.9
512	Flinders and Far North DGP	2,144	0.8
505	Southern DGP	1,795	0.6
502	Adelaide Northern DGP	1,288	0.5
501	Adelaide Western DGP	1,237	0.4
504	Adelaide Central and Eastern DGP	1,136	0.4
503	Adelaide North Eastern DGP	1,032	0.4
Other	..	8,148	2.9
<b>Total</b>	<b>..</b>	<b>276,873</b>	<b>100.0</b>

<sup>1</sup> Division of GP based on provider number

<sup>2</sup> Based on address in Medicare records

<sup>3</sup> Proportion of all unreferred attendances to GPs with a provider number in Division 511 by Division of patient address

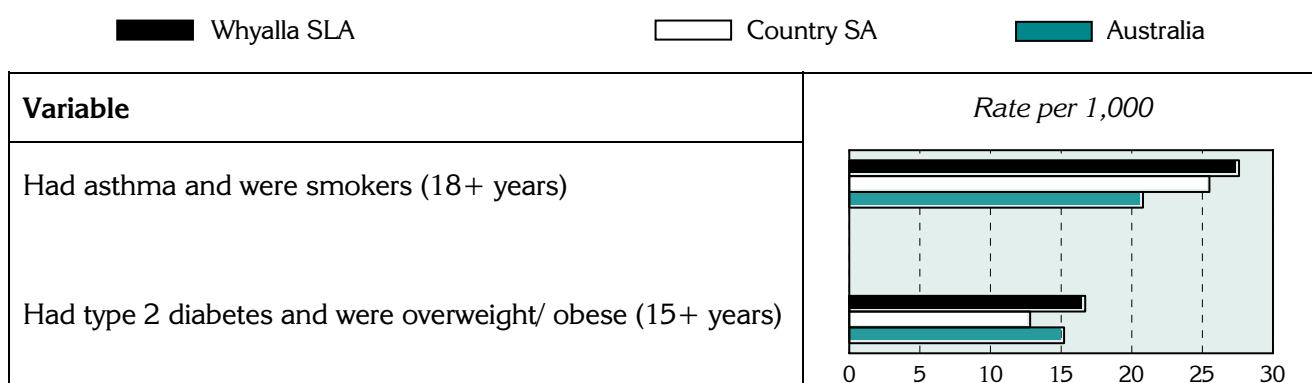
## Additional prevalence estimates: chronic diseases and risk factors combined: Whyalla (part of Eyre Peninsula DGP)

Please refer to the earlier *Population health profile of the Eyre Peninsula Division of General Practice*, dated November 2005, available from [www.publichealth.gov.au](http://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 SLA of Whyalla, which comprises approximately 40.0% of the Division's population. The estimates have not been made for the whole Division as only this SLA was included in the National Health Survey. 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 Whyalla SLA who had asthma and were smokers, compared to country South Australia and Australia as a whole (Figure 6, Table 5): that is, the prevalence rates per 1,000 population were higher. Similarly, there were more people in Whyalla SLA who had type 2 diabetes and were overweight/ obese, compared to country South Australia (in particular) or Australia.

**Figure 6: Estimates of selected chronic diseases and risk factors, Whyalla SLA, country South Australia and Australia, 2001**



**Table 5: Estimates of selected chronic diseases and risk factors, Whyalla SLA, country South Australia, South Australia and Australia, 2001**

Variable	Whyalla SLA		Country SA		South Australia		Australia	
	No. <sup>1</sup>	Rate <sup>2</sup>	No. <sup>1</sup>	Rate <sup>2</sup>	No. <sup>1</sup>	Rate <sup>2</sup>	No. <sup>1</sup>	Rate <sup>1</sup>
Had asthma & smoked <sup>3</sup>	582	27.6	9,057	25.5	32,487	22.3	397,734	20.8
Had type 2 diabetes & were overweight/ obese <sup>4</sup>	366	16.7	5,425	12.8	23,187	14.9	283,176	15.2

<sup>1</sup> No. is a weighted estimate of the number of people in Whyalla SLA reporting these chronic conditions/ with these risk factors and is derived from synthetic predictions from the 2001 NHS

<sup>2</sup> Rate is the indirectly age-standardised rate per 1,000 population

<sup>3</sup> Population aged 18 years and over

<sup>4</sup> 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](http://www.publichealth.gov.au).

In 2001 to 2002, the 2,466 admissions from ambulatory care sensitive (ACS) conditions accounted for 11.3% of all admissions in the Eyre Peninsula DGP (Table 6, Figure 7), markedly above the levels in South Australia (8.5) and Australia (8.7%).

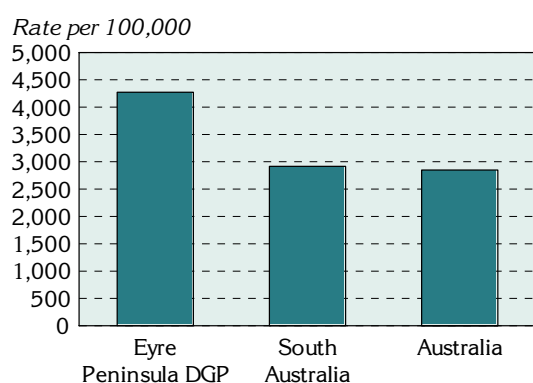
**Table 6: Avoidable<sup>1</sup> and unavoidable hospitalisations, Eyre Peninsula DGP, South Australia, and Australia, 2001/02**

Category	Eyre Peninsula DGP			South Australia			Australia		
	No.	Rate <sup>2</sup>	%	No.	Rate <sup>2</sup>	%	No.	Rate <sup>2</sup>	%
Avoidable <sup>1</sup>	2,466	4,271.8	11.3	47,247	2,915.7	8.5	552,786	2,847.5	8.7
Unavoidable	19,330	34,256.1	88.7	507,053	32,039.4	91.5	5,818,199	29,970.7	91.3
<b>Total</b>	<b>21,796</b>	<b>38,549.1</b>	<b>100.0</b>	<b>554,300</b>	<b>34,952.2</b>	<b>100.0</b>	<b>6,370,985</b>	<b>32,818.2</b>	<b>100.0</b>

<sup>1</sup> Admissions resulting from ACS conditions

<sup>2</sup> Rate is the indirectly age-standardised rate per 100,000 population

**Figure 7: Avoidable hospitalisations<sup>1</sup>, Eyre Peninsula DGP, South Australia and Australia, 2001/02**



The rate of avoidable hospitalisations in Eyre Peninsula DGP is markedly higher, a rate of 4,271.8 admissions per 100,000 population, compared to both South Australia (a rate of 2,915.7), and Australia (2,847.5).

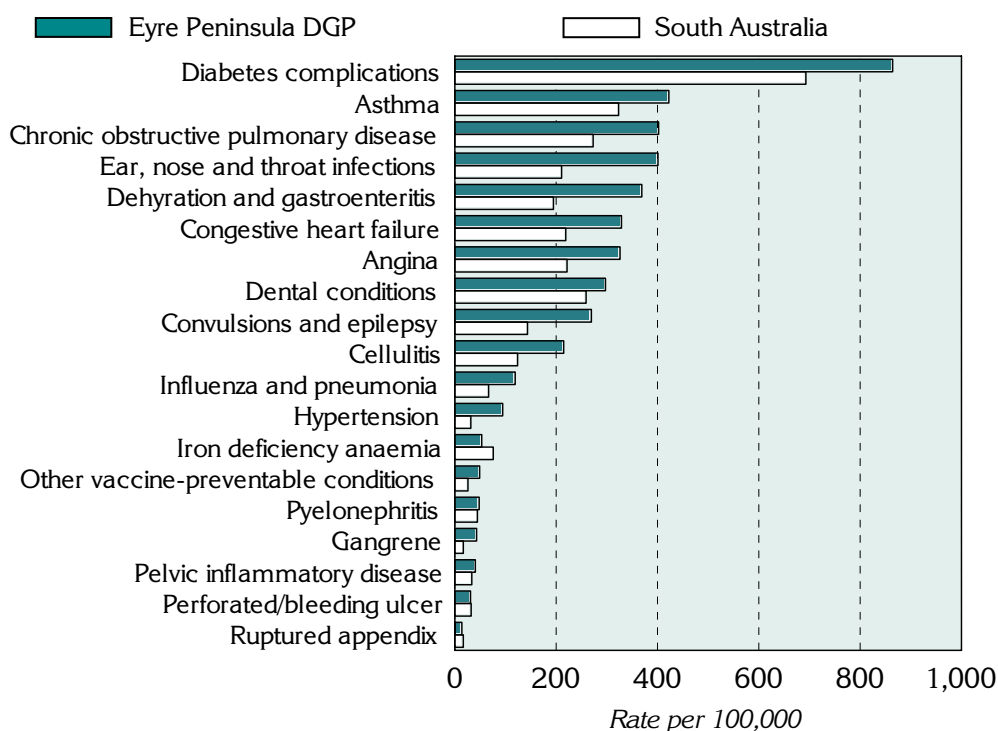
<sup>1</sup> Admissions resulting from ACS conditions

Diabetes complications; asthma; chronic obstructive pulmonary disease; ear, nose and throat infections; and dehydration and gastroenteritis, were the five conditions with the highest rates of avoidable hospitalisations in the Eyre Peninsula 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. Ear, nose and throat infections; and dehydration and gastroenteritis, have the highest rates of avoidable hospitalisations for the acute conditions.



**Figure 8: Avoidable hospitalisations<sup>1</sup> by condition, Eyre Peninsula DGP and South Australia, 2001/02**



<sup>1</sup> Admissions resulting from ACS conditions: excludes nutritional deficiencies as less than ten admissions

**Table 7: Avoidable hospitalisations<sup>1</sup> by condition, Eyre Peninsula DGP, South Australia and Australia, 2001/02**

Sub-category/ condition	Eyre Peninsula DGP		South Australia		Australia	
	No.	Rate <sup>2</sup>	No.	Rate <sup>2</sup>	No.	Rate <sup>2</sup>
<b>Vaccine-preventable</b>	<b>97</b>	<b>168.4</b>	<b>1,466</b>	<b>92.9</b>	<b>16,573</b>	<b>85.4</b>
Influenza and pneumonia	69	119.3	1,075	67.0	13,021	67.1
Other vaccine preventable	28	49.1	391	25.9	3,552	18.3
<b>Chronic<sup>3</sup></b>	<b>1,449</b>	<b>2,491.6</b>	<b>30,607</b>	<b>1,837.6</b>	<b>352,545</b>	<b>1,816</b>
Diabetes complications	503	864.1	11,640	692.9	141,345	728.1
Iron deficiency anaemia	30	53.1	1,271	76.1	16,451	84.7
Hypertension	54	94.5	532	31.6	6,354	32.7
Congestive heart failure	190	329.0	3,900	219.1	42,447	218.6
Angina	190	326.1	3,778	221.6	49,963	257.4
Chronic obstructive pulmonary disease	236	402.4	4,710	272.9	54,853	282.6
Asthma	246	422.4	4,776	323.4	41,009	211.3
<b>Acute</b>	<b>990</b>	<b>1,729.8</b>	<b>16,405</b>	<b>1,077.6</b>	<b>200,913</b>	<b>1,035</b>
Dehydration and gastroenteritis	205	369.0	3,111	194.8	37,766	194.5
Convulsions and epilepsy	155	269.8	2,153	143.6	31,137	160.4
Ear, nose and throat infections	236	401.0	3,046	210.9	32,075	165.2
Dental conditions	173	297.4	3,831	259.2	43,667	224.9
Perforated/bleeding ulcer	18	31.1	555	32.5	5,795	29.9
Ruptured appendix	8	14.2	255	17.0	3,866	19.9
Pyelonephritis	26	48.3	681	44.7	7,386	38.0
Pelvic inflammatory disease	21	40.6	497	33.7	6,547	33.7
Cellulitis	123	215.1	1,987	124.1	28,204	145.3
Gangrene	25	43.3	289	17.1	4,470	23.0
<b>Total avoidable hospitalisations<sup>4</sup></b>	<b>2,466</b>	<b>4,271.8</b>	<b>47,247</b>	<b>2,915.7</b>	<b>552,786</b>	<b>2,847.5</b>

<sup>1</sup> Admissions resulting from ACS conditions

<sup>2</sup> Rate is the indirectly age-standardised rate per 100,000 population

<sup>3</sup> Excludes nutritional deficiencies as less than ten admissions

<sup>4</sup> 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](http://www.publichealth.gov.au).

Over two thirds (71.0%) of all deaths in Eyre Peninsula DGP at ages 0 to 74 years over the period 1997 to 2001 are considered to be avoidable, slightly lower 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 29.1% of all deaths at ages 0 to 74 years in Eyre Peninsula DGP, lower than the 29.8% in country South Australia.

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

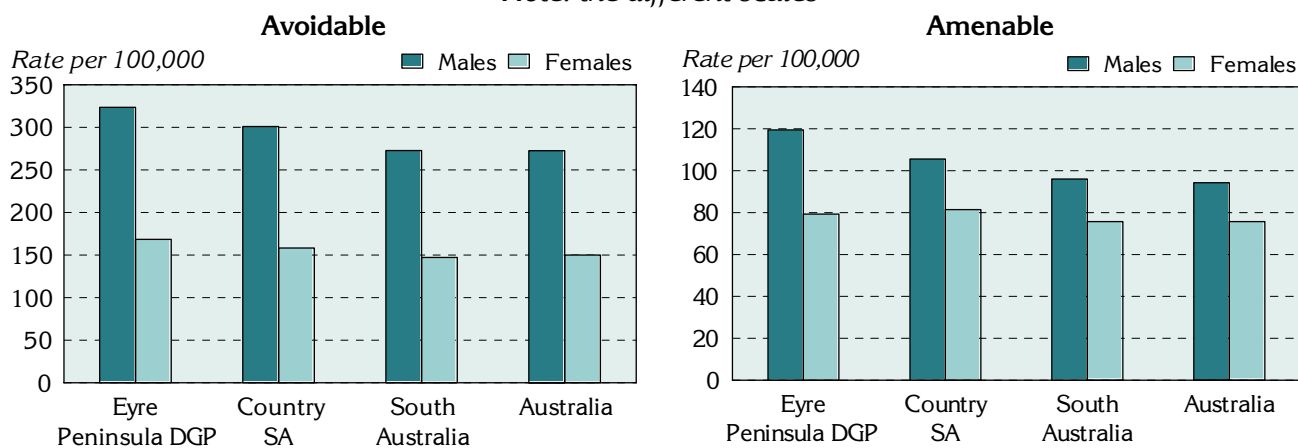
Mortality category	Eyre Peninsula DGP		Country SA		South Australia		Australia	
	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>
Avoidable	689	246.8	4,852	230.3	15,938	210.4	189,845	211.8
% of total	<b>71.0</b>	..	<b>72.5</b>	..	<b>71.4</b>	..	<b>71.5</b>	..
(Amenable)	(280)	(99.9)	(1,993)	(93.6)	(6,556)	(85.9)	(76,249)	(85.1)
(% of total)	<b>(28.8)</b>	(..)	<b>(29.8)</b>	(..)	<b>(29.4)</b>	(..)	<b>(28.7)</b>	(..)
Unavoidable	283	100.8	1,837	86.5	6,369	83.7	75,582	84.3
% of total	<b>29.1</b>	..	<b>27.5</b>	..	<b>28.6</b>	..	<b>28.5</b>	..
<b>Total mortality</b>	<b>971</b>	<b>347.6</b>	<b>6,688</b>	<b>316.8</b>	<b>22,307</b>	<b>294.1</b>	<b>265,427</b>	<b>296.1</b>
%	<b>100.0</b>	..	<b>100.0</b>	..	<b>100.0</b>	..	<b>100.0</b>	..

<sup>1</sup> 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. Eyre Peninsula DGP's rate of avoidable mortality for males was 323.5 deaths per 100,000 males, higher than the rate of 168.5 for females. Similarly, the rate of amenable mortality for males in the Division was higher, 119.5, compared to 79.3 for females, a rate ratio of 1.51 (Figure 9, Table 9).

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

*Note: the different scales*



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

Mortality category and sex	Eyre Peninsula DGP		Country SA		South Australia		Australia	
	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>
<b>Avoidable</b>								
Males	466	323.5	3,259	300.9	10,326	272.8	123,026	272.6
Females	222	168.5	1,593	158.3	5,612	147.2	66,819	150.1
<b>Total</b>	<b>689</b>	<b>246.8</b>	<b>4,852</b>	<b>230.3</b>	<b>15,938</b>	<b>210.4</b>	<b>189,845</b>	<b>211.8</b>
<b>Rate ratio-M:F<sup>2</sup></b>	..	<b>1.92**</b>	..	<b>1.90**</b>	..	<b>1.85**</b>	..	<b>1.82**</b>
<b>Amenable</b>								
Males	175	119.5	1,169	105.6	3,671	96.0	42,568	94.3
Females	105	79.3	824	81.4	2,884	75.7	33,681	75.7
<b>Total</b>	<b>280</b>	<b>99.9</b>	<b>1,993</b>	<b>93.6</b>	<b>6,556</b>	<b>85.9</b>	<b>76,249</b>	<b>85.1</b>
<b>Rate ratio-M:F<sup>2</sup></b>	..	<b>1.51**</b>	..	<b>1.30**</b>	..	<b>1.27**</b>	..	<b>1.25**</b>

<sup>1</sup> Rate is the indirectly age-standardised rate per 100,000 population

<sup>2</sup> 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)<sup>1</sup>, 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 Eyre Peninsula 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 71.4% of total YLL (0 to 74 years) for Eyre Peninsula DGP, marginally lower than the 72.9% for country South Australia. The proportion of YLL from amenable mortality of 28.3% for Eyre Peninsula DGP was consistent with the 28.9% for country South Australia.

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

Mortality category	Eyre Peninsula DGP		Country SA		South Australia		Australia	
	No.	% of total	No.	% of total	No.	% of total	No.	% of total
Avoidable	12,024	71.4	83,705	72.9	273,135	71.8	3,327,375	71.9
(Amenable)	(4,773)	(28.3)	(33,165)	(28.9)	(108,777)	(28.6)	(1,298,430)	(28.0)
Unavoidable	4,822	28.6	31,059	27.1	107,223	28.2	1,303,289	28.1
<b>Total</b>	<b>16,847</b>	<b>100.0</b>	<b>114,764</b>	<b>100.0</b>	<b>380,358</b>	<b>100.0</b>	<b>4,630,664</b>	<b>100.0</b>

<sup>1</sup> 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 1,536.3 deaths per 100,000 population in the Eyre Peninsula 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 372.5 in the Eyre Peninsula Division.

**Table 11: Avoidable and amenable mortality by age, Eyre Peninsula DGP, country South Australia, South Australia and Australia, 1997 to 2001**

Mortality category and age (years)	Eyre Peninsula DGP		Country SA		South Australia		Australia	
	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>
<b>Avoidable</b>								
0-14	16	24.1	118	26.8	352	24.2	5,669	28.8
15-24	21	61.5	159	67.5	523	52.4	7,045	52.8
25-44	89	102.8	596	99.3	1,979	88.8	24,356	83.9
45-64	247	372.5	1,640	333.3	5,130	297.8	64,282	304.9
65-74	316	1,536.3	2,338	1439.0	7,954	1354.8	88,493	1,358.1
<b>Total</b>	<b>689</b>	<b>246.8</b>	<b>4,852</b>	<b>230.3</b>	<b>15,938</b>	<b>210.4</b>	<b>189,845</b>	<b>211.8</b>
<b>Amenable</b>								
0-24	14	13.0	101	14.1	324	13.3	5,083	15.4
25-44	22	25.1	146	23.8	507	22.6	5,946	20.5
45-64	114	172.5	710	144.8	2,248	130.1	27,464	130.3
65-74	131	639.4	1,036	641.3	3,477	591.6	37,756	579.4
<b>Total</b>	<b>280</b>	<b>99.9</b>	<b>1,993</b>	<b>93.6</b>	<b>6,556</b>	<b>85.9</b>	<b>76,249</b>	<b>85.1</b>

<sup>1</sup> 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 Eyre Peninsula DGP were for cardiovascular diseases, a rate of 83.8 deaths per 100,000 population, and cancer, with a rate of 80.3 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 61.4 per 100,000 population and 29.3 per 100,000, respectively.

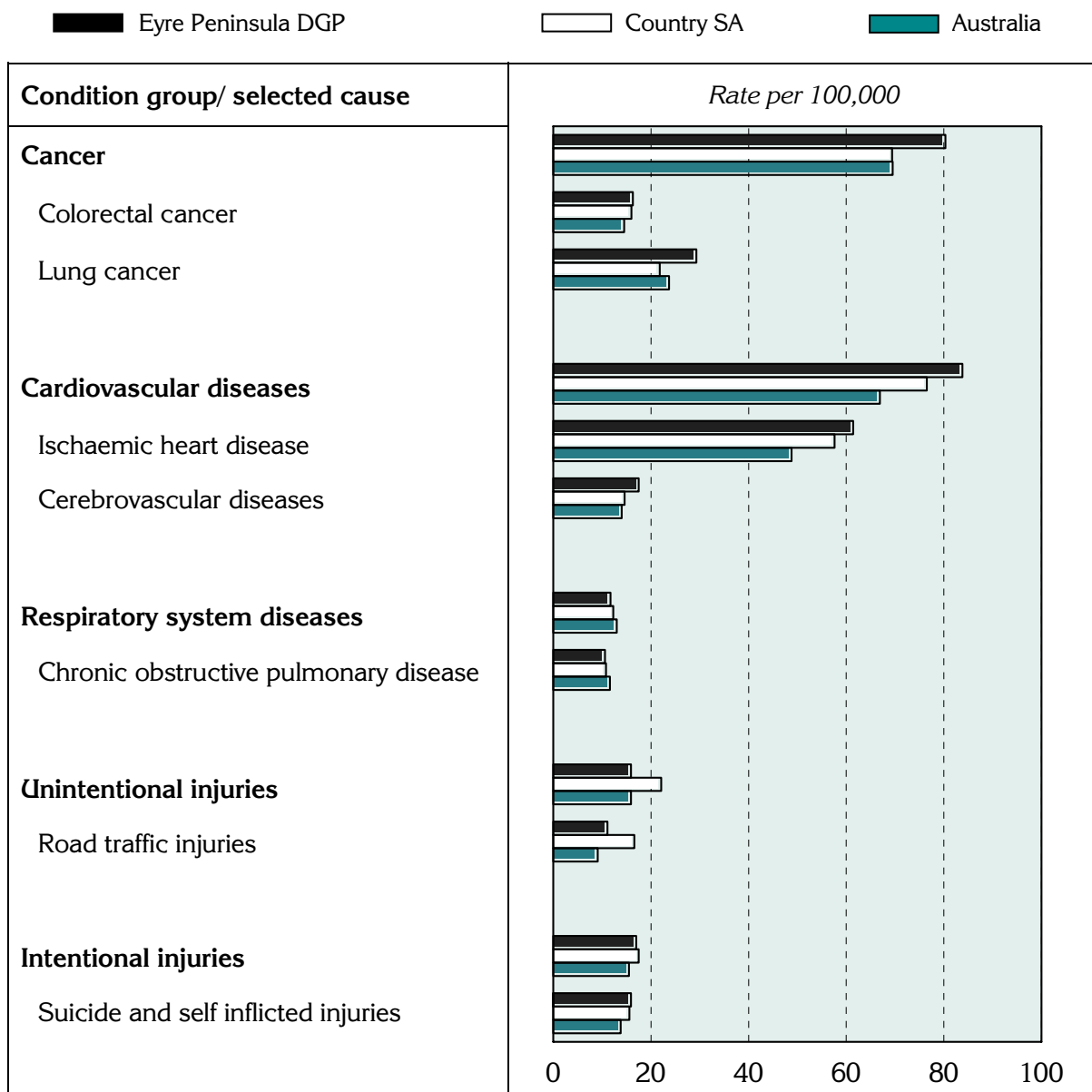
**Table 12: Avoidable mortality (0 to 74 years) by major condition group and selected cause, Eyre Peninsula DGP, country South Australia, South Australia and Australia, 1997 to 2001**

Condition group/ selected cause	Eyre Peninsula DGP		Country SA		South Australia		Australia	
	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>
<b>Cancer</b>	<b>225</b>	<b>80.3</b>	<b>1,489</b>	<b>69.4</b>	<b>5,209</b>	<b>67.8</b>	<b>62,338</b>	<b>69.5</b>
Colorectal cancer	46	16.3	346	16.0	1,142	14.8	13,008	14.5
Lung cancer	84	29.3	477	21.8	1,728	22.3	21,208	23.7
<b>Cardiovascular diseases</b>	<b>237</b>	<b>83.8</b>	<b>1,669</b>	<b>76.5</b>	<b>5,324</b>	<b>68.5</b>	<b>59,945</b>	<b>66.9</b>
Ischaemic heart disease	175	61.4	1,260	57.6	3,918	50.5	43,712	48.8
Cerebrovascular diseases	49	17.5	316	14.6	1,086	13.9	12,558	14.0
<b>Respiratory system diseases</b>	<b>33</b>	<b>11.7</b>	<b>270</b>	<b>12.3</b>	<b>897</b>	<b>11.4</b>	<b>11,612</b>	<b>13.0</b>
Chronic obstructive pulmonary disease	30	10.6	239	10.8	783	9.9	10,395	11.6
<b>Unintentional injuries</b>	<b>42</b>	<b>15.9</b>	<b>412</b>	<b>22.1</b>	<b>1,085</b>	<b>15.5</b>	<b>14,224</b>	<b>15.9</b>
Road traffic injuries	29	11.1	307	16.6	687	9.9	8,138	9.1
<b>Intentional injuries</b>	<b>45</b>	<b>17.0</b>	<b>329</b>	<b>17.5</b>	<b>1,138</b>	<b>16.3</b>	<b>13,891</b>	<b>15.5</b>
Suicide and self inflicted injuries	42	15.9	293	15.6	1,018	14.5	12,393	13.8

<sup>1</sup> 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 the unintentional injury categories, where rates were below those in country South Australia (Figure 10).

**Figure 10: Avoidable mortality (0 to 74 years) by major condition group and selected cause, Eyre Peninsula 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
<b>Population</b>	
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) <sup>1</sup>
<b>Additional socio-demographic indicators</b>	
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
<b>GP services – patient flow/ GP catchment</b>	
Tables 3 and 4	Medicare Australia, 2003/04
<b>Additional prevalence estimates: chronic diseases and risk factors combined</b>	
Figure 6; Table 5	Estimated from 2001 National Health Survey (NHS), ABS (unpublished)
<b>Avoidable hospitalisations: hospital admissions resulting from ambulatory care sensitive conditions</b>	
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)
<b>Avoidable mortality</b>	
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)

<sup>1</sup> 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](http://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 Eyre Peninsula 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](http://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 country South Australia, SLAs are generally the same as local government areas (LGAs). Unincorporated areas of the State are also SLAs. The Division comprises all of the SLAs from within the ABS Eyre Statistical Division and the SLAs of Whyalla and Unincorporated Whyalla from the Northern Statistical Division (Whyalla Statistical Subdivision).

**Table 14: SLAs and population in Eyre Peninsula 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
41010	Ceduna	100.0	3,536
41190	Cleve	100.0	1,885
41750	Elliston	100.0	1,143
41960	Franklin Harbor	100.0	1,324
43220	Kimba	100.0	1,166
43570	Le Hunte	100.0	1,391
43710	Lower Eyre Peninsula	100.0	4,330
46300	Port Lincoln	100.0	14,563
47490	Streaky Bay	100.0	2,014
47910	Tumby Bay	100.0	2,685
48540	Whyalla	100.0	21,306
49179	Unincorporated Lincoln	31.3	#
49249	Unincorporated West Coast	99.7	605
49389	Unincorporated Whyalla	79.8	186

\* 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

## 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

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