

Population health profile of the Shoalhaven

Division of General Practice: supplement

Population Profile Series: No. 19a

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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 Shoalhaven Division of General Practice: supplement

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

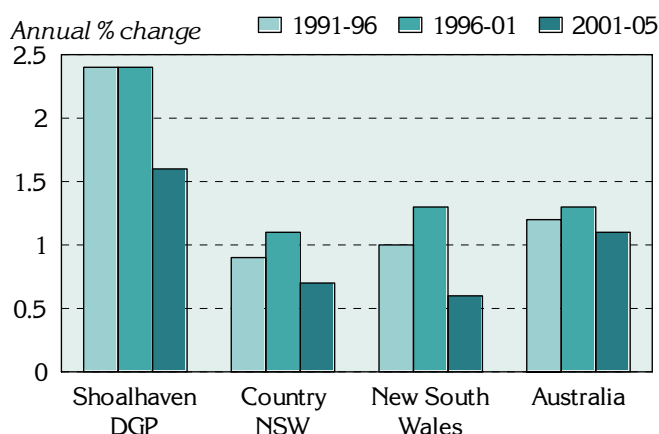
- Population [updated to June 2005]
- Additional socio-demographic indicators
- Unreferred attendances – patient flow/ GP catchment
- Additional prevalence estimates: chronic diseases and risk factors combined
- Avoidable hospitalisations: hospital admissions resulting from ambulatory care sensitive 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 Shoalhaven Division had an Estimated Resident Population of 92,956 at 30 June 2005.

Figure 1: Annual population change, Shoalhaven DGP, country New South Wales, New South Wales and Australia, 1991 to 1996, 1996 to 2001 and 2001 to 2005



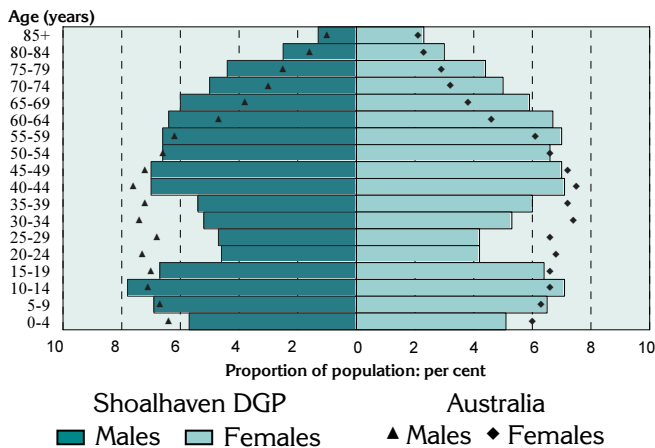
Over the five years from 1991 to 1996, the Division's population increased by 2.4% on average each year, over twice the level in country New South Wales (0.9%), New South Wales (1.0%) and Australia as a whole (1.2%). From 1996 to 2001, the annual percentage increase in the Division (2.4%) was again substantially higher than for the other areas. The lower growth rate of 1.6% per year from 2001 to 2005 was still above that for country New South Wales (0.6%), New South Wales (0.6%) and Australia (1.1%).

Table 1: Population by age, Shoalhaven DGP and Australia, 2005

Age group (years)	Shoalhaven DGP		Australia	
	No.	%	No.	%
0-14	18,196	19.6	3,978,221	19.6
15-24	10,210	11.0	2,819,834	13.9
25-44	20,915	22.5	5,878,107	28.9
45-64	25,097	27.0	4,984,446	24.5
65-74	10,250	11.0	1,398,831	6.9
75-84	6,642	7.1	954,143	4.7
85+	1,645	1.8	315,027	1.5
Total	92,956	100.0	20,328,609	100.0

As shown in the accompanying table and the age-sex pyramid below (Figure 2), the Shoalhaven DGP had fewer young people at ages 15 to 24 years (11.0%) and people 25 to 44 years (22.5%), than Australia as a whole (with 13.9% and 28.9%). The 45 years and over age groups had higher proportions compared to Australia, particularly at ages 65 to 74 years (11.0%, compared to 6.9%). (Table 1).

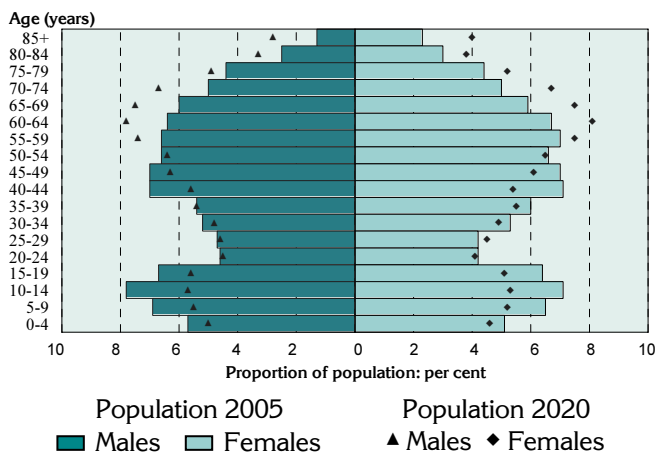
Figure 2: Population in Shoalhaven DGP and Australia, by age and sex, 2005



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

- at younger ages – lower proportions aged 0 to 4 years and 15 to 19 years, and higher proportions at ages 5 to 14 years;
- from 20 to 45 years – notably lower proportions of both males and females; and
- at older ages – higher proportions of both males and females aged 55 years and over (notably higher in most of these age groups).

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



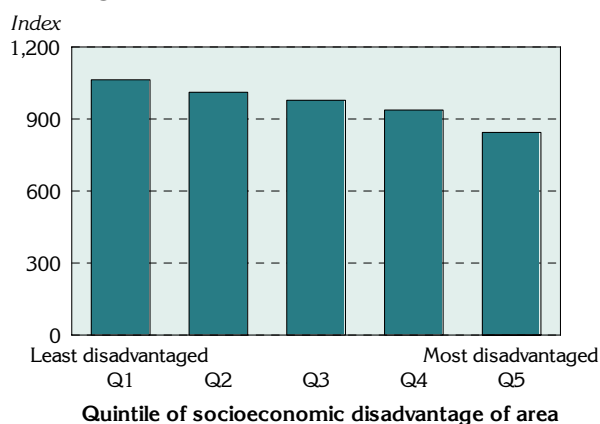
The population projections for the Division show a number of changes in age distribution, with the 2020 population projected to have:

- at younger ages – lower proportions of males and females aged 0 to 19 years;
- lower proportions of females aged 30 to 49 years, and males aged 40 to 49 years; and
- from age 55 years onwards – higher proportions of males and females (most pronounced at ages 60 to 74 years).

Additional socio-demographic indicators

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



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

The Shoalhaven DGP has an index score of 966, below the score for Australia of 1000: this score varies across the Division, from 844 in the most disadvantaged areas to 1063 in the least disadvantaged areas.

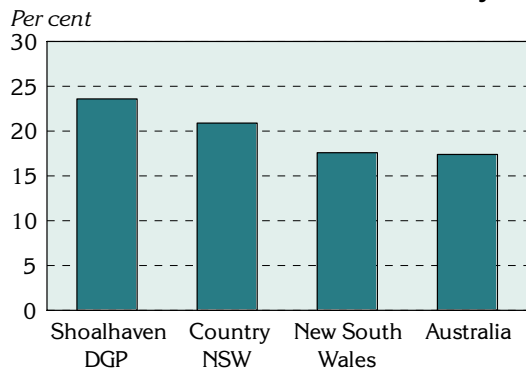
Note: each 'quintile' comprises approximately 20% of the population of the Division.

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 Shoalhaven DGP (23.6%), compared to country New South Wales as a whole (20.9%) (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 smaller proportion of the population with private health insurance (40.5%), compared to country New South Wales (44.9%) (Figure 5, Table 2).

Figure 5: Socio-demographic indicators, Shoalhaven DGP, country New South Wales, New South Wales and Australia, 2001

Jobless families with children under 15 years old



Private health insurance, 30 June

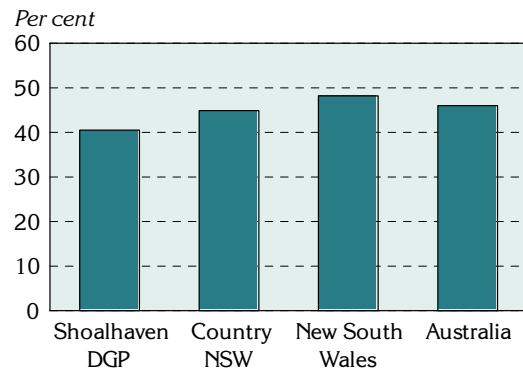
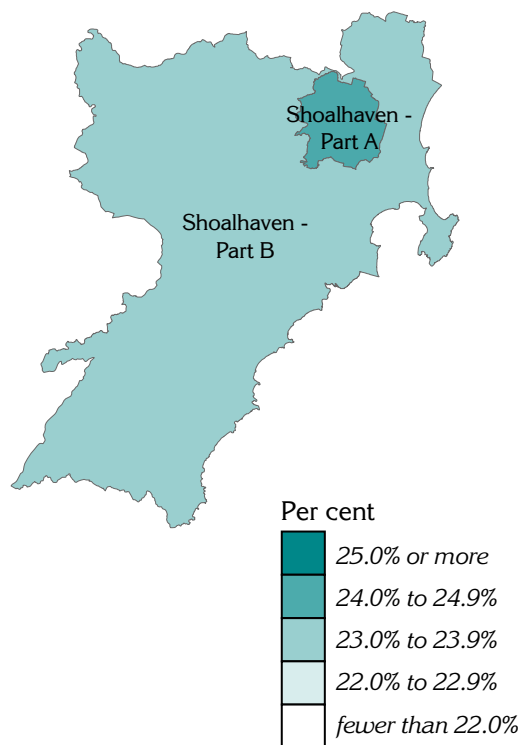


Table 2: Socio-demographic indicators, Shoalhaven DGP, country New South Wales, New South Wales and Australia, 2001

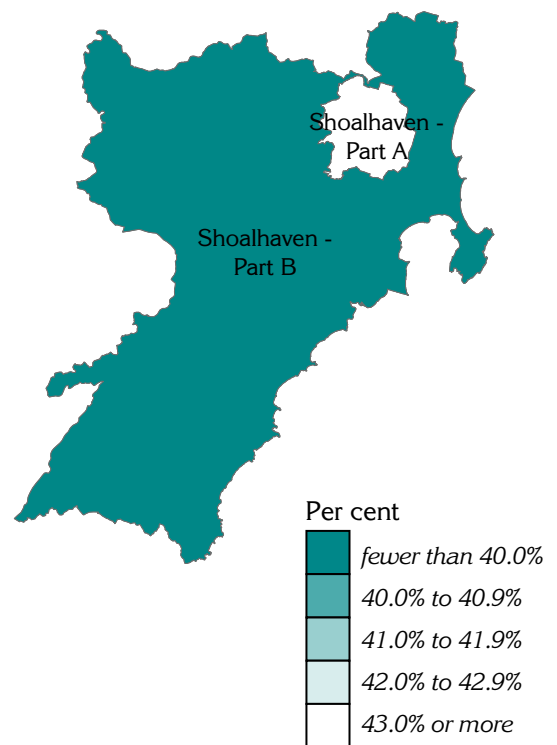
Indicator	Shoalhaven DGP		Country NSW		New South Wales		Australia	
	No.	%	No.	%	No.	%	No.	%
Jobless families with children under 15 years old	2,139	23.6	54,883	20.9	121,409	17.6	357,563	17.4
Private health insurance (30 June)	33,594	40.5	1,061,580	44.9	3,062,382	48.2	8,671,106	46.0

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

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



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



GP services to residents of the Shoalhaven 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 (90.2%) of all unreferred attendances to residents of Shoalhaven DGP were provided in the Division (i.e. by a GP with a provider number in the Division): this represented 375,096 GP unreferred attendances (Table 3). A further 2.2% of unreferred attendances to residents were provided by GPs with a provider number in the Illawarra DGP, with 0.6% provided by GPs in Western Sydney DGP.

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

Division		Unreferred attendances	
Number	Name	No.	% ³
220	Shoalhaven DGP	375,096	90.2
216	Illawarra DGP	9,071	2.2
206	Western Sydney DGP (now WentWest & part Hawkesbury-Hills)	2,419	0.6
201	Central Sydney DGP	2,269	0.5
214	Sutherland DGP	2,214	0.5
215	Macarthur DGP	2,065	0.5
202	Eastern Sydney DGP	1,738	0.4
Other	..	21,101	5.1
Total	..	415,973	100.0

¹ Based on address in Medicare records

² Division of GP based on provider number

³ Proportion of all unreferred attendances of patients with an address in Division 220 by Division in which attendance occurred

The majority (93.2%) of unreferred attendances provided by GPs with a provider number in Shoalhaven DGP were also to people living in the Division (i.e. their Medicare address was in the Division) (Table 4). A further 1.2% of unreferred attendances by GPs in the Division were to residents of Illawarra DGP.

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

Division		Unreferred attendances	
Number	Name	No.	% ³
220	Shoalhaven DGP	375,096	93.2
216	Illawarra DGP	4,891	1.2
235	Southern Highlands DGP	2,574	0.6
221	South East NSW DGP	2,197	0.5
214	Sutherland DGP	1,315	0.3
206	Western Sydney DGP (now WentWest & part Hawkesbury-Hills)	1,247	0.3
215	Macarthur DGP	1,236	0.3
222	ACT DGP	1,068	0.3
Other	..	12,725	3.2
Total	..	402,349	100.0

¹ Division of GP based on provider number

² Based on address in Medicare records

³ Proportion of all unreferred attendances to GPs with a provider number in Division 220 by Division of patient address

Additional prevalence estimates: chronic diseases and risk factors combined

Please refer to the earlier *Population health profile of the Shoalhaven 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 Shoalhaven DGP who had asthma and were smokers, compared to Australia as a whole and country New South Wales (Figure 6, Table 5): that is, the prevalence rates per 1,000 population were higher. There were also more people in Shoalhaven DGP who had type 2 diabetes and were overweight or obese, compared to Australia and country New South Wales.

Figure 6: Estimates of selected chronic diseases and risk factors, Shoalhaven DGP, country New South Wales and Australia, 2001



Table 5: Estimates of selected chronic diseases and risk factors, Shoalhaven DGP, country New South Wales, New South Wales and Australia, 2001

Variable	Shoalhaven DGP		Country NSW		New South Wales		Australia	
	No. ¹	Rate ²	No. ¹	Rate ²	No. ¹	Rate ²	No. ¹	Rate ¹
Had asthma and smoked ³	1,831	26.2	54,344	24.7	126,542	19.7	397,734	20.8
Had type 2 diabetes & were overweight/ obese ⁴	1,768	16.3	40,784	15.5	100,235	15.7	283,176	15.2

¹ No. is a weighted estimate of the number of people in Shoalhaven 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 3,455 admissions from ambulatory care sensitive (ACS) conditions accounted for 11.1% of all admissions in the Shoalhaven DGP (Table 6, Figure 7). The proportion of avoidable hospitalisations in the Division was markedly higher than the proportions for both New South Wales (8.6%) and Australia (8.7%).

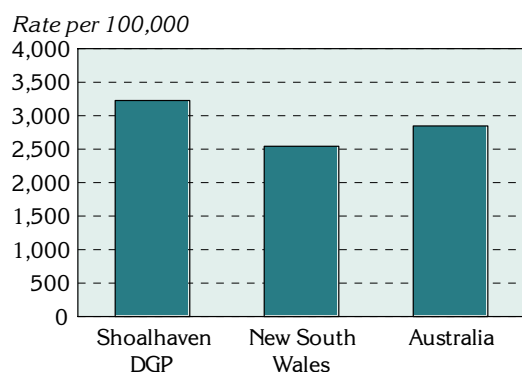
Table 6: Avoidable¹ and unavoidable hospitalisations, Shoalhaven DGP, New South Wales, and Australia, 2001/02

Category	Shoalhaven DGP			New South Wales			Australia		
	No.	Rate ²	%	No.	Rate ²	%	No.	Rate ²	%
Avoidable ¹	3,455	3,277.9	11.1	170,066	2,543.8	8.6	552,786	2,847.5	8.7
Unavoidable	27,568	27,990.2	88.9	1,810,901	27,255.3	91.4	5,818,199	29,970.7	91.3
Total	31,022	31,307.5	100.0	1,980,967	29,798.8	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, Shoalhaven DGP, New South Wales and Australia, 2001/02



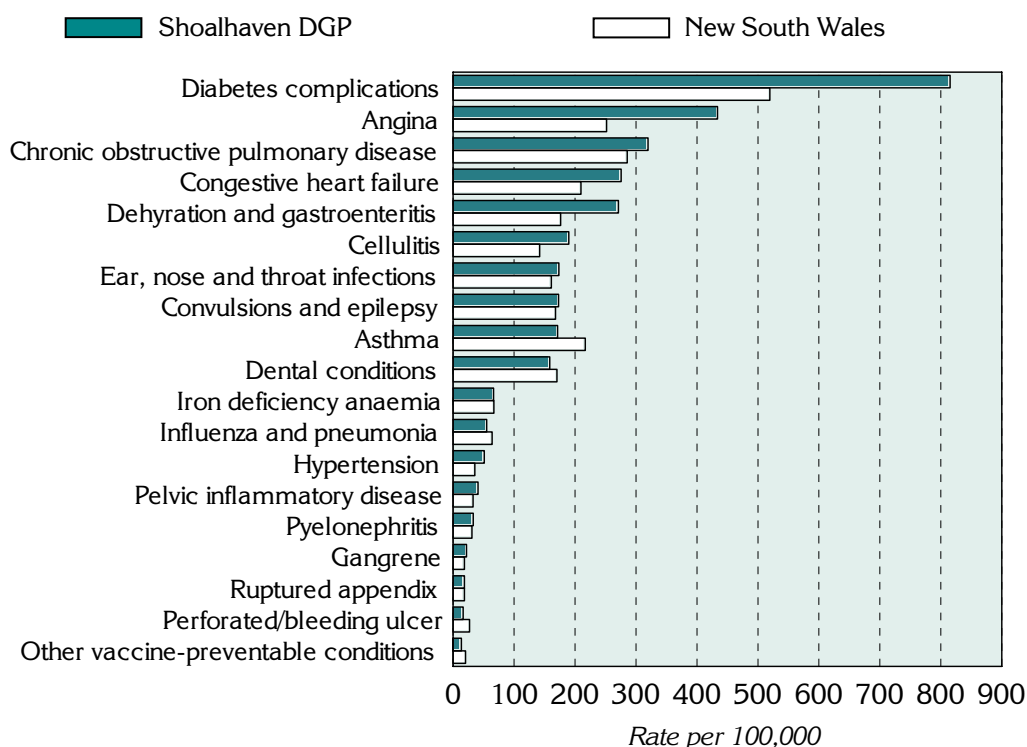
The rate of avoidable hospitalisations in Shoalhaven DGP is markedly higher, a rate of 3,277.9 admissions per 100,000 population, compared to both New South Wales (a rate of 2,543.8), and Australia (2,847.5).

¹ Admissions resulting from ACS conditions

Diabetes complications, angina, chronic obstructive pulmonary disease and congestive heart failure were the four conditions with the highest rates of avoidable hospitalisations in the Shoalhaven 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. Almost two-thirds 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. Dehydration and gastroenteritis; and ear nose and throat infections have the highest rates of avoidable hospitalisations for the acute conditions.

Figure 8: Avoidable hospitalisations¹ by condition, Shoalhaven DGP and New South Wales, 2001/02



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

Table 7: Avoidable hospitalisations¹ by condition, Shoalhaven DGP, New South Wales and Australia, 2001/02

Sub-category/ condition	Shoalhaven DGP		New South Wales		Australia	
	No.	Rate ²	No.	Rate ²	No.	Rate ²
Vaccine-preventable	68	68.6	5,630	84.5	16,573	85.4
Influenza and pneumonia	56	55.1	4,280	64.1	13,021	67.1
Other vaccine preventable	12	13.5	1,350	20.4	3,552	18.3
Chronic³	2,476	2,133.8	106,803	1,587.0	352,545	1,816
Diabetes complications	959	815.2	34,975	519.5	141,345	728.1
Iron deficiency anaemia	72	66.5	4,494	67.0	16,451	84.7
Hypertension	56	51.2	2,398	35.7	6,354	32.7
Congestive heart failure	327	275.8	14,270	209.7	42,447	218.6
Angina	510	433.7	16,987	251.8	49,963	257.4
Chronic obstructive pulmonary disease	402	319.9	19,359	285.6	54,853	282.6
Asthma	150	171.5	14,289	216.8	41,009	211.3
Acute	999	1,097.0	62,543	946.0	200,913	1,035
Dehydration and gastroenteritis	261	271.3	11,725	176.4	37,766	194.5
Convulsions and epilepsy	150	173.1	11,093	168.1	31,137	160.4
Ear, nose and throat infections	145	173.4	10,615	161.1	32,075	165.2
Dental conditions	137	158.4	11,196	170.3	43,667	224.9
Perforated/bleeding ulcer	19	16.4	1,830	27.1	5,795	29.9
Ruptured appendix	16	18.6	1,212	18.5	3,866	19.9
Pyelonephritis	29	33.1	2,038	31.0	7,386	38.0
Pelvic inflammatory disease	31	41.0	2,134	32.7	6,547	33.7
Cellulitis	186	189.7	9,451	142.0	28,204	145.3
Gangrene	25	22.0	1,249	18.6	4,470	23.0
Total avoidable hospitalisations⁴	3,455	3,277.9	170,066	2,543.8	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.

Almost three quarters (70.3%) of all deaths in Shoalhaven 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 New South Wales (71.6%) (Table 8). Deaths amenable to health care (amenable mortality, a subset of avoidable mortality) accounted for 28.0% of all deaths at ages 0 to 74 years in Shoalhaven DGP, compared to 28.3% in country New South Wales.

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

Mortality category	Shoalhaven DGP		Country NSW		New South Wales		Australia	
	No.	Rate ¹	No.	Rate ¹	No.	Rate ¹	No.	Rate ¹
Avoidable	1,176	225.2	29,442	234.3	66,151	213.6	189,845	211.8
% of total	70.3	..	71.6	..	71.4	..	71.5	..
(Amenable)	(469)	(87.2)	(11,638)	(91.2)	(26,374)	(85.0)	(76,249)	(85.1)
(% of total)	(28.0)	(..)	(28.3)	(..)	(28.5)	(..)	(28.7)	(..)
Unavoidable	498	93.3	11,700	92.1	26,468	85.3	75,582	84.3
% of total	29.7	..	28.4	..	28.6	..	28.5	..
Total mortality	1,674	318.6	41,142	326.4	92,619	299.0	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. Shoalhaven DGP's rate of avoidable mortality for males was 298.0 deaths per 100,000 males, almost twice the rate of 151.4 for females. Similarly, the rate of amenable mortality for males in the Division was higher, 100.0, compared to 73.9 for females, a rate ratio of 1.46 (Figure 9, Table 9).

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

Note: the different scales

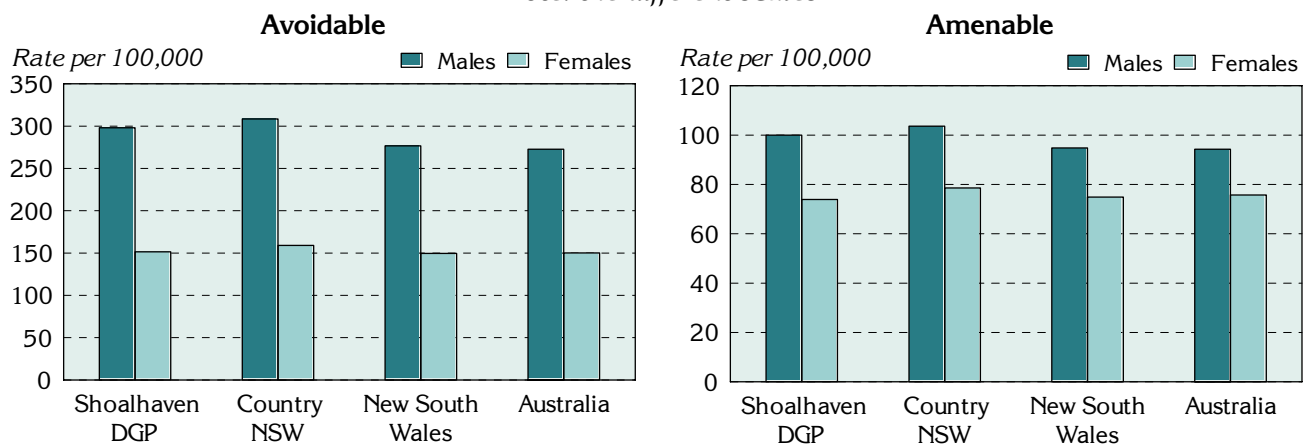


Table 9: Avoidable and amenable mortality (0 to 74 years) by sex, Shoalhaven DGP, country New South Wales, New South Wales and Australia, 1997 to 2001

Mortality category and sex	Shoalhaven DGP		Country NSW		New South Wales		Australia	
	No.	Rate ¹	No.	Rate ¹	No.	Rate ¹	No.	Rate ¹
Avoidable								
Males	788	298.0	19,569	308.5	43,074	276.8	123,026	272.6
Females	388	151.4	9,873	159.1	23,077	149.6	66,819	150.1
Total	1,176	225.2	29,442	234.3	66,151	213.6	189,845	211.8
Rate ratio-M:F²	..	1.97**	..	1.94**	..	1.85**	..	1.82**
Amenable								
Males	279	100.0	6,743	103.6	14,811	94.8	42,568	94.3
Females	190	73.9	4,895	78.6	11,562	74.9	33,681	75.7
Total	469	87.2	11,638	91.2	26,374	85.0	76,249	85.1
Rate ratio-M:F²	..	1.35**	..	1.32**	..	1.27**	..	1.25**

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

² Rate ratio (M:F) is the ratio of male to female rates; rate ratios differing significantly from 1.0 are shown with * p <0.05; ** p <0.01

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

The numbers of YLL for Shoalhaven DGP, country New South Wales, New South Wales 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 70.5% of total YLL (0 to 74 years) for Shoalhaven DGP, slightly lower than the 71.8% for country New South Wales. At the same time, the proportion of YLL from amenable mortality for Shoalhaven DGP (27.7%) was consistent with 27.6% for country New South Wales.

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

Mortality category	Shoalhaven DGP		Country NSW		New South Wales		Australia	
	No.	% of total	No.	% of total	No.	% of total	No.	% of total
Avoidable	19,277	70.5	502,860	71.8	1,147,183	71.8	3,327,375	71.9
(Amenable)	(7,568)	(27.7)	(192,960)	(27.6)	(444,143)	(27.8)	(1,298,430)	(28.0)
Unavoidable	8,065	29.5	197,182	28.2	451,496	28.2	1,303,289	28.1
Total	27,342	100.0	700,042	100.0	1,598,679	100.0	4,630,664	100.0

¹ Years of life lost were calculated using the remaining life expectancy method (this provides an estimate of the average time a person would have lived had he or she not died prematurely). The reference life table was the Coale and Demeny Model Life Table West level 26 female (for both males and females), with the YLL discounted to net present value at a rate of 3 per cent per year.

In each of the areas in Table 11, the majority of avoidable mortality at ages 0 to 74 years occurred in the 65 to 74 year age group (Table 11), with 1,388.6 deaths per 100,000 population in Shoalhaven 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 334.9 in Shoalhaven Division.

Table 11: Avoidable and amenable mortality by age, Shoalhaven DGP, country New South Wales, New South Wales and Australia, 1997 to 2001

Mortality category and age (years)	Shoalhaven DGP		Country NSW		New South Wales		Australia	
	No.	Rate ¹	No.	Rate ¹	No.	Rate ¹	No.	Rate ¹
Avoidable								
0-14	24	28.1	738	29.0	1,836	27.5	5,669	28.8
15-24	20	46.0	938	62.6	2,241	50.9	7,045	52.8
25-44	114	110.3	3,317	99.6	8,119	82.9	24,356	83.9
45-64	359	334.9	9,755	343.5	22,358	311.1	64,282	304.9
65-74	659	1,388.6	14,694	1464.0	31,597	1,375.8	88,493	1,358.1
Total	1,176	225.2	29,442	234.3	66,151	213.6	189,845	211.8
Amenable								
0-24	20	14.6	645	15.5	1,658	14.8	5,083	15.4
25-44	31	28.5	784	23.0	1,878	19.2	5,946	20.5
45-64	146	135.0	4,060	142.9	9,444	131.4	27,464	130.3
65-74	272	576.3	6,148	613.7	13,394	582.9	37,756	579.4
Total	469	87.2	11,638	91.2	26,374	85.0	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 Shoalhaven DGP were for cardiovascular diseases, with a rate of 77.1 deaths per 100,000 population, and cancer, 74.6 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 chronic obstructive pulmonary disease, with rates of 56.4 per 100,000 population and 27.4 per 100,000, respectively.

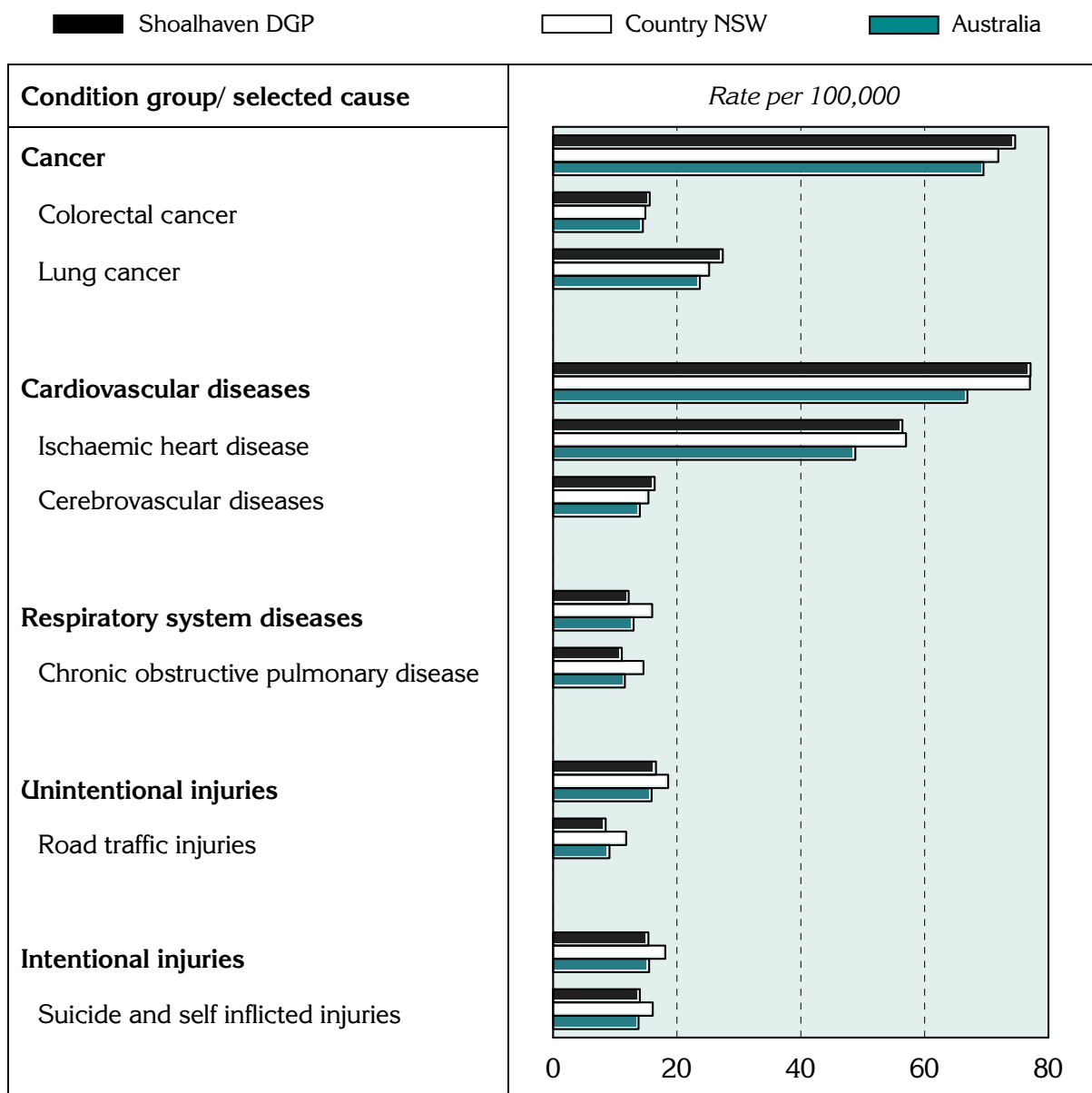
Table 12: Avoidable mortality (0 to 74 years) by major condition group and selected cause, Shoalhaven DGP, country New South Wales, New South Wales and Australia, 1997 to 2001

Condition group/ selected cause	Shoalhaven DGP		Country NSW		New South Wales		Australia	
	No.	Rate ¹	No.	Rate ¹	No.	Rate ¹	No.	Rate ¹
Cancer	410	74.6	9,239	71.9	21,158	68.1	62,338	69.5
Colorectal cancer	87	15.6	1,936	14.9	4,318	13.9	13,008	14.5
Lung cancer	157	27.4	3,314	25.2	7,297	23.4	21,208	23.7
Cardiovascular diseases	444	77.1	10,101	77.0	21,925	70.3	59,945	66.9
Ischaemic heart disease	324	56.4	7,474	57.0	15,935	51.1	43,712	48.8
Cerebrovascular diseases	95	16.4	2,015	15.4	4,656	14.9	12,558	14.0
Respiratory system diseases	73	12.2	2,136	16.0	4,313	13.8	11,612	13.0
Chronic obstructive pulmonary disease	68	11.1	1,966	14.6	3,882	12.4	10,395	11.6
Unintentional injuries	60	16.6	2,027	18.6	4,540	15.0	14,224	15.9
Road traffic injuries	31	8.5	1,279	11.8	2,528	8.4	8,138	9.1
Intentional injuries	54	15.4	1,939	18.1	4,497	14.9	13,891	15.5
Suicide and self inflicted injuries	49	14.0	1,730	16.1	3,941	13.0	12,393	13.8

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

Rates in the Division were above those in country New South Wales and Australia for the condition groups and selected causes of cancer and cardiovascular disease, and below those for respiratory diseases (although only marginally below the Australian rates). In the case of the injury categories, rates in the Division were lower than those in country New South Wales, and consistent with those in Australia (Figure 10).

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



Notes on the data

Data sources and limitations

General

References to 'country New South Wales' relate to New South Wales excluding the Sydney 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 Shoalhaven 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 the Local Government Area (LGA) of Shoalhaven has been split into two SLAs, Part A (all in the Division) and Part B (a majority of which is in the Division). These SLAs comprise the Division (Table 14).

Table 14: SLAs and population in Shoalhaven 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
16951	Shoalhaven - Part A	100.0	32,887
16952	Shoalhaven - Part B	98.0	59,507
91009	Jervis Bay Territory	100.0	562

* 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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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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