## Population health profile of the

## South East NSW

## **Division of General Practice: supplement**

Population Profile Series: No. 20a

PHIDU

March 2007





Australian Government

Australian Institute of Health and Welfare



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### National Library of Australia Cataloguing in Publication entry

Population health profile of the South East NSW Division of General Practice: supplement.

Bibliography. ISBN 9 78073089 6203 (web).

1. Public health - New South Wales, Southeastern -Statistics. 2. Health status indicators - New South Wales, Southeastern - Statistics. 3. Health service areas - New South Wales, Southeastern. 4. New South Wales, Southeastern - Statistics, Medical. I. Public Health Information Development Unit (Australia). (Series : Population profile series ; no. 20a).

362.1099447

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 South East NSW Division of General Practice: supplement.* Population Profile Series: No. 20a. 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 (<u>www.publichealth.gov.au</u>).

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

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### Population health profile

### of the South East NSW Division of General Practice: supplement

This profile is a supplement to the *Population health profile of the South East NSW Division of General Practice*, dated November 2005, available from <u>www.publichealth.gov.au</u>. This supplement includes an update of the population of the South East NSW Division of General Practice, as well as additional indicators and aspects of the Division's socioeconomic status, use of GP services and health. The contents are:

- Population [updated to June 2005]
- Additional socio-demographic indicators
- Unreferred attendances patient flow/ GP catchment
- Additional prevalence estimates: chronic diseases and risk factors combined
- Avoidable hospitalisations: hospital admissions resulting from ambulatory care sensitive conditions
- Avoidable mortality

For further information on the way Division totals in this report have been estimated, please refer to the 'Notes on the data' section of the *Population health profile*, November 2005 (www.publichealth.gov.au).

## Population

The South East NSW Division had an Estimated Resident Population of 177,468 at 30 June 2005.

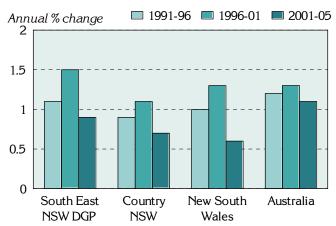
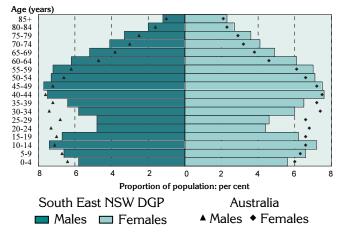


Figure 1: Annual population change, South East NSW DGP, country New South Wales, New South Wales and Australia, 1991 to 1996, 1996 to 2001 and 2001 to 2005

Over the five years from 1991 to 1996, the Division's population increased by 1.1% on average each year, higher than in country New South Wales (0.9%) and New South Wales (1.0%), and below the level in Australia (1.2%). From 1996 to 2001, the annual percentage increase was 1.5%, higher than for the comparators. The lower growth rate of 0.9% per year from 2001 to 2005 was higher than for country New South Wales and New South Wales (0.6%), but again lower than for Australia (1.1%).

Age group (years)	South East NSW DGP		Austral	ia
	No.	%	No.	%
0-14	34,722	19.6	3,978,221	19.6
15-24	19,615	11.1	2,819,834	13.9
25-44	43,699	24.6	5,878,107	28.9
45-64	49,744	28.0	4,984,446	24.5
65-74	16,242	9.2	1,398,831	6.9
75-84	10,340	5.8	954,143	4.7
85+	3,106	1.8	315,027	1.5
Total	177,468	100.0	20,328,609	100.0

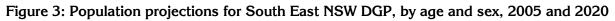
As shown in the accompanying table and the age-sex pyramid below (Figure 2), South East NSW DGP had a lower proportion of the population aged 15 to 24 and 25 to 44 years (11.1% and 24.6%, respectively) compared to Australia (13.9% and 28.9%, respectively) (Table 1). Conversely, the 65 years and over age groups had markedly higher proportions, compared to Australia as a whole.

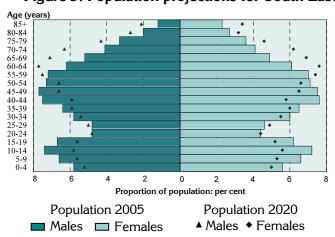


#### Figure 2: Population in South East NSW DGP and Australia, by age and sex, 2005

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

- at younger ages lower proportions at ages 0 to 4 and 15 to 19 years, and higher proportions at ages 5 to 9 (females only) and 10 to 14 years;
- from 20 to 39 years lower proportions of both males and females (substantially lower for some age groups, suggesting outward migration for employment or education opportunities); and
- from 45 years and over higher proportions of both males and females.



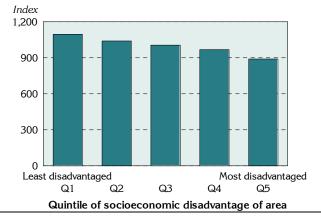


The population projections for the Division show a number of changes in age distribution, with the 2020 population expected to have:

- at younger ages much lower proportions of males and females aged 0 to 19 years;
- from 30 to 54 years lower proportions of both males and females; and
- from ages 55 years and over higher proportions of both males and females (most pronounced at ages 60 to 74 and 85+ years).

## Additional socio-demographic indicators

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





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

The South East NSW DGP has an index score of 999, consistent with the score for Australia of 1000: this score varies across the Division, from 890 in the most disadvantaged areas to 1096 in the least disadvantaged areas.

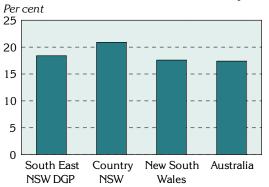
Note: each 'quintile' comprises approximately 20% of the population of the Division.

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 fewer jobless families in the South East NSW DGP (18.4%), than 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 lower proportion of the population with private health insurance (41.3%), compared to country New South Wales (44.9%) (Figure 5, Table 2).

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

Jobless families with children under 15 years old



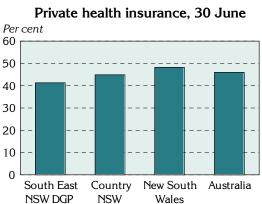
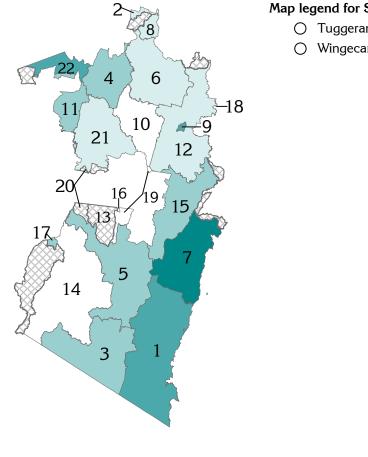


Table 2: Socio-demographic indicators, South East NSW DGP, country New South Wales, New South Wales and Australia, 2001

Indicator	South East NSW DGP		Country NSW		New South Wales		Australia	
	No.	%	No.	%	No.	%	No.	%
Jobless families with children under 15 years old	3,221	18.4	54,883	20.9	121,409	17.6	357,563	17.4
Private health insurance (30 June)	71,106	41.3	1,061,580	44.9	3,062,382	48.2	8,671,106	46.0

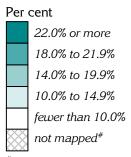
Details of the distribution of jobless families and of the population covered by private health insurance are shown by Statistical Local Area (SLA) in Maps 1 and 2, respectively.

#### Map 1: Jobless families with children under 15 years of age by SLA, South East NSW DGP, 2001



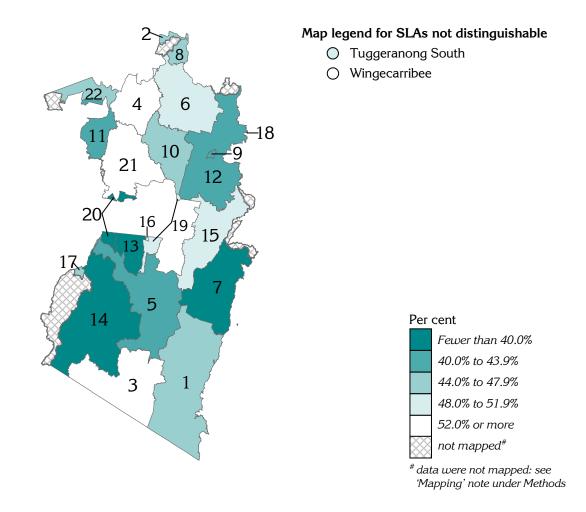
#### Map legend for SLAs not distinguishable

- O Tuggeranong South
- O Wingecarribee



<sup>#</sup> data were not mapped: see 'Mapping' note under Methods

For map labels: see next page



Alphabetical key to	SLAs/SLA gr	oup, South East NSW DGP, 200	)1
Bega Valley	1	Mulwaree	12
Blayney - Part B	2	Remainder of ACT	13
Bombala	3	Snowy River	14
Boorowa	4	Tallaganda	15
Cooma-Monaro	5	Tuggeranong South	16
Crookwell	6	Tumut	17
Eurobodalla	7	Wingecarribee	18
Evans - Part B	8	Yarrowlumla - Part A	19
Goulburn	9	Yarrowlumla - Part B	20
Gunning	10	Yass	21
Harden	11	Young	22

## GP services to residents of the South East NSW 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.

Just over four fifths (84.7%) of unreferred attendances to residents of South East NSW DGP were provided in the Division (ie. by a GP with a provider number in the Division): this represented 547,123 GP unreferred attendances (Table 3). A further 6.4% of unreferred attendances to residents were provided by GPs with a provider number in ACT DGP.

Division		Unreferred a	ttendances
Number	Name	No.	% <sup>3</sup>
221	South East NSW DGP	547,123	84.7
222	ACT DGP	41,309	6.4
216	Illawarra DGP	4,339	0.7
235	Southern Highlands DGP	3,800	0.6
228	Riverina DGP	3,472	0.5
Other		46,236	7.2
Total		646,279	100.0

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

<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 221 by Division in which attendance occurred

The majority (92.3%) of unreferred attendances provided by GPs with a provider number in South East NSW DGP were also to people living in the Division (ie. their Medicare address was in the Division) (Table 4). A further 1.6% of unreferred attendances by GPs in the Division were to people living in ACT DGP.

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

Division		Unreferred attendance			
Number	Name	No.	<b>%</b> <sup>3</sup>		
221	South East NSW DGP	547,123	92.3		
222	ACT DGP	9,785	1.6		
229	NSW Central West DGP	3,620	0.6		
235	Southern Highlands DGP	2,377	0.4		
228	Riverina DGP	1,843	0.3		
Other		28,331	4.8		
Total		593,079	100.0		

<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 221 by Division of patient address

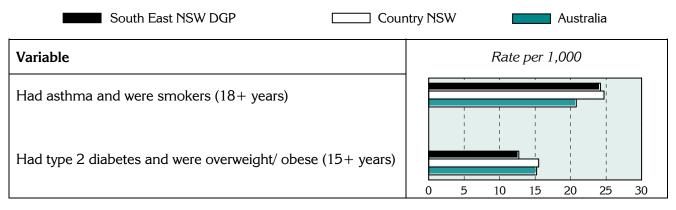
# Additional prevalence estimates: chronic diseases and risk factors combined

Please refer to the earlier *Population health profile of the South East NSW Division of General Practice*, dated November 2005, available from <u>www.publichealth.gov.au</u>, for the separate prevalence estimates of chronic disease; measures of self-reported health and risk factors. The process by which the estimates have been made, and details of their limitations, are also described in the 'Notes on the data' section of this earlier profile.

In this section two estimates, which combine the prevalence of selected chronic diseases with a risk factor, are shown for the Division. The measures are of people who *had asthma and were smokers*, and people who *had type 2 diabetes and were overweight or obese*: note that the estimates have been predicted from self-reported data, and are not based on clinical records or physical measures.

It is estimated that there were relatively more people in South East NSW DGP who had asthma and were smokers, compared to Australia as a whole (Figure 6, Table 5): that is, the prevalence rates per 1,000 population were higher, and notably so, than the national rates (although consistent with those for country New South Wales. However, there were notably lower rates in South East NSW DGP of people who had type 2 diabetes and were overweight or obese, compared to country New South Wales and Australia.

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



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

Variable	South East NSW DGP		Country NSW		New South Wales		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 and smoked <sup>3</sup>	3,957	24.2	54,344	24.7	126,542	19.7	397,734	20.8
Had type 2 diabetes & were overweight/ obese $^4$	2,598	12.7	40,784	15.5	100,235	15.7	283,176	15.2

<sup>1</sup> No. is a weighted estimate of the number of people in South East NSW DGP 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 <u>www.publichealth.gov.au</u>.

In 2001 to 2002, 5,131 admissions from ambulatory care sensitive (ACS) conditions accounted for 11.0% of all admissions in the South East NSW DGP (Table 6, Figure 7), markedly higher than the levels for both New South Wales (8.6%) and Australia (8.7%).

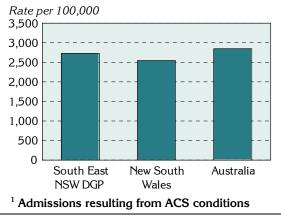
Table 6: Avoidable <sup>1</sup> and unavoidable hospitalisations, South East NSW DGP,
New South Wales, and Australia, 2001/02

Category	South	South East NSW DGP			New South Wales			Australia			
	No.	Rate <sup>2</sup>	%	No.	Rate <sup>2</sup>	%	No.	Rate <sup>2</sup>	%		
Avoidable <sup>1</sup>	5,131	2,729.5	11.0	170,066	2,543.8	8.6	552,786	2,847.5	8.7		
Unavoidable	41,530	22,939.9	89.0	1,810,901	27,255.3	91.4	5,818,199	29,970.7	91.3		
Total	46,661	25,688.5	100.0	1,980,967	29,798.8	100.0	6,370,985	32,818.2	100.0		

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

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



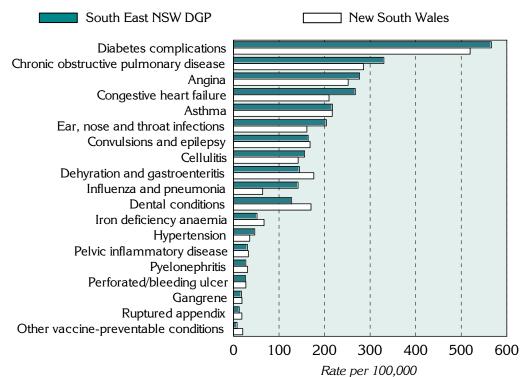


The rate of avoidable hospitalisations in South East NSW DGP is higher, a rate of 2,729.5 admissions per 100,000 population, compared to New South Wales (a rate of 2,543.8), but lower than the rate for Australia (2,847.5).

Diabetes complications, chronic obstructive pulmonary disease, angina and congestive heart failure were the four conditions with the highest rates of avoidable hospitalisations in the South East NSW 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. Ear, nose and throat infections; and convulsions and epilepsy have the highest rates of avoidable hospitalisations for the acute conditions.

Figure 8: Avoidable hospitalisations<sup>1</sup> by condition, South East NSW DGP and New South Wales, 2001/02



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

Sub-category/ condition		ast NSW GP	New So	uth Wales	Austr	alia
	No.	Rate <sup>2</sup>	No.	Rate <sup>2</sup>	No.	Rate <sup>2</sup>
Vaccine-preventable	274	149.6	5,630	84.5	16,573	85.4
Influenza and pneumonia	261	141.8	4,280	64.1	13,021	67.1
Other vaccine preventable	13	7.8	1,350	20.4	3,552	18.3
Chronic <sup>3</sup>	3,476	1,756.3	106,803	1,587.0	352,545	1,816
Diabetes complications	1,142	566.1	34,975	519.5	141,345	728.1
Iron deficiency anaemia	99	51.6	4,494	67.0	16,451	84.7
Hypertension	90	46.7	2,398	35.7	6,354	32.7
Congestive heart failure	533	267.5	14,270	209.7	42,447	218.6
Angina	561	277.0	16,987	251.8	49,963	257.4
Chronic obstructive pulmonary disease	684	330.1	19,359	285.6	54,853	282.6
Asthma	367	217.3	14,289	216.8	41,009	211.3
Acute	1,567	911.0	62,543	946.0	200,913	1,035
Dehydration and gastroenteritis	257	144.8	11,725	176.4	37,766	194.5
Convulsions and epilepsy	277	164.0	11,093	168.1	31,137	160.4
Ear, nose and throat infections	335	204.0	10,615	161.1	32,075	165.2
Dental conditions	216	127.7	11,196	170.3	43,667	224.9
Perforated/bleeding ulcer	52	26.6	1,830	27.1	5,795	29.9
Ruptured appendix	21	12.6	1,212	18.5	3,866	19.9
Pyelonephritis	45	27.0	2,038	31.0	7,386	38.0
Pelvic inflammatory disease	47	30.5	2,134	32.7	6,547	33.7
Cellulitis	283	156.2	9,451	142.0	28,204	145.3
Gangrene	34	17.6	1,249	18.6	4,470	23.0
Total avoidable hospitalisations <sup>4</sup>	5,131	2,729.5	170,066	2,543.8	552,786	2,847.5

Table 7: Avoidable hospitalisations <sup>1</sup> by condition, South East NSW D	GP,
New South Wales and Australia, 2001/02	

<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.

Almost three quarters (71.7%) of all deaths in South East NSW DGP at ages 0 to 74 years over the period 1997 to 2001 are considered to be avoidable, consistent with 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 29.3% of all deaths at ages 0 to 74 years in South East NSW DGP, compared to 28.3% in country New South Wales.

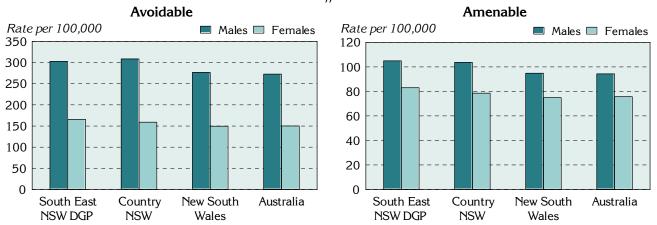
Mortality category	South Ea		Country NSW		New South Wales		Australia	
	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>
Avoidable	2,141	234.7	29,442	234.3	66,151	213.6	189,845	211.8
% of total	71.7	••	71.6		71.4		71.5	
(Amenable)	(874)	(94.1)	(11,638)	(91.2)	(26,374)	(85.0)	(76,249)	(85.1)
(% of total)	(29.3)	()	(28.3)	()	(28.5)	()	(28.7)	()
Unavoidable	844	91.3	11,700	92.1	26,468	85.3	75,582	84.3
% of total	28.3	••	28.4		28.6	••	28.5	
Total mortality	2,985	326.1	41,142	326.4	92,619	299.0	265,427	296.1
%	100.0		100.0		100.0		100.0	

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

<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. South East NSW DGP's rate of avoidable mortality for males was 302.8 deaths per 100,000 males, notably higher than the rate of 165.7 for females. Similarly, the rate of amenable mortality for males in the Division was higher, 104.9, compared to 83.0 for females, a rate ratio of 1.26 (Figure 9, Table 9).

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



Note: the different scales

Mortality category and sex	South East NSW DGP		Country NSW		New South Wales		Australia	
	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>
Avoidable								
Males	1,414	302.8	19,569	308.5	43,074	276.8	123,026	272.6
Females	727	165.7	9,873	159.1	23,077	149.6	66,819	150.1
Total	2,141	234.7	29,442	234.3	66,151	213.6	189,845	211.8
Rate ratio–M:F <sup>2</sup>		1.83**	••	1.94**	••	1.85**		1.82**
Amenable								
Males	507	104.9	6,743	103.6	14,811	94.8	42,568	94.3
Females	367	83.0	4,895	78.6	11,562	74.9	33,681	75.7
Total	874	94.1	11,638	91.2	26,374	85.0	76,249	85.1
Rate ratio–M:F <sup>2</sup>		1.26**	••	1.32**	••	1.27**	••	1.25**

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

<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 South East NSW 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 71.5% of total YLL (0 to 74 years) for South East NSW DGP, consistent with the 71.8% for country New South Wales. At the same time, the proportion of YLL from amenable mortality for South East NSW DGP (28.5%) was higher than that for country New South Wales (27.6%).

Mortality category	South East NSW DGP		Country NSW		New South Wales		Australia	
	No.	% of	No.	% of	No.	% of	No.	% of
		total		total		total		total
Avoidable	35,865	71.5	502,860	71.8	1,147,183	71.8	3,327,375	71.9
(Amenable)	(14,285)	(28.5)	(192,960)	(27.6)	(444,143)	(27.8)	(1,298,430)	(28.0)
Unavoidable	14,265	28.5	197,182	28.2	451,496	28.2	1,303,289	28.1
Total	50,130	100.0	700,042	100.0	1,598,679	100.0	4,630,664	100.0

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

<sup>&</sup>lt;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 1,540.8 deaths per 100,000 population in South East NSW 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 323.2 in South East NSW Division.

Mortality category and age (years)	South East NSW DGP		Country	Country NSW		New South Wales		Australia	
	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	
Avoidable									
0-14	56	33.1	738	29.0	1,836	27.5	5,669	28.8	
15-24	65	73.2	938	62.6	2,241	50.9	7,045	52.8	
25-44	202	88.9	3,317	99.6	8,119	82.9	24,356	83.9	
45-64	686	323.2	9,755	343.5	22,358	311.1	64,282	304.9	
65-74	1,133	1,540.8	14,694	1464.0	31,597	1,375.8	88,493	1,358.1	
Total	2,141	234.7	29,442	234.3	66,151	213.6	189,845	211.8	
Amenable									
0-24	49	17.9	645	15.5	1,658	14.8	5,083	15.4	
25-44	47	19.9	784	23.0	1,878	19.2	5,946	20.5	
45-64	304	143.4	4,060	142.9	9,444	131.4	27,464	130.3	
65-74	474	648.7	6,148	613.7	13,394	582.9	37,756	579.4	
Total	874	94.1	11,638	91.2	26,374	85.0	76,249	85.1	

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

<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 South East NSW DGP were for cardiovascular diseases, with a rate of 74.8 deaths per 100,000 population, and cancer, 72.4 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 55.1 per 100,000 population and 24.1 per 100,000, respectively.

Condition group/ selected cause	South East NSW DGP		5			Austi	alia	
	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>	No.	Rate <sup>1</sup>
Cancer	685	72.4	9,239	71.9	21,158	68.1	62,338	69.5
Colorectal cancer	160	16.8	1,936	14.9	4,318	13.9	13,008	14.5
Lung cancer	234	24.1	3,314	25.2	7,297	23.4	21,208	23.7
Cardiovascular diseases	723	74.8	10,101	77.0	21,925	70.3	59,945	66.9
lschaemic heart disease	534	55.1	7,474	57.0	15,935	51.1	43,712	48.8
Cerebrovascular diseases	150	15.6	2,015	15.4	4,656	14.9	12,558	14.0
Respiratory system diseases	165	16.9	2,136	16.0	4,313	13.8	11,612	13.0
Chronic obstructive pulmonary disease	156	15.7	1,966	14.6	3,882	12.4	10,395	11.6
Unintentional injuries	147	20.0	2,027	18.6	4,540	15.0	14,224	15.9
Road traffic injuries	93	12.8	1,279	11.8	2,528	8.4	8,138	9.1
Intentional injuries Suicide and self inflicted injuries	<b>133</b> 125	<b>18.1</b> 17.0	<b>1,939</b> 1,730	<b>18.1</b> 16.1	<b>4,497</b> 3,941	<b>14.9</b> 13.0	<b>13,891</b> 12,393	<b>15.5</b> 13.8

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

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

Rates in the Division were above those in Australia for all of the conditions groups and selected causes: however, for a small number of the condition groups and selected causes, rates were below those in country New South Wales (Figure 10).

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

South East NSW DGP		Country NS	SW	Aus	stralia
Condition group/ selected cause		Ra	te per 100,0	000	
Cancer					
Colorectal cancer					
Lung cancer					
Cardiovascular diseases		1	1		
		I	l		
Ischaemic heart disease					
Cerebrovascular diseases					
Respiratory system diseases					
Chronic obstructive pulmonary disease					
(Inintentional injurios					
Unintentional injuries					
Road traffic injuries		⊐ ¦		     	
Intentional injuries				l l l	
Suicide and self inflicted injuries					
	0	20	40	60	80

## 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.

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) <sup>1</sup>
Additional socio-demograph	ic indicators
Figure 4	ABS SEIFA package, Census 2001
Table 2; Figure 5; Map 1	Jobless families, ABS, 2001 (unpublished)
Table 2; Figure 5; Map 2	Private health insurance, from Hansard
GP services – patient flow/ C	iP catchment
Tables 3 and 4	Medicare Australia, 2003/04
Additional prevalence estimation	ates: chronic diseases and risk factors combined
Figure 6; Table 5	Estimated from 2001 National Health Survey (NHS), ABS (unpublished)
Avoidable hospitalisations: h	nospital admissions resulting from ambulatory care sensitive conditions
Tables 6 and 7; Figures 7 and 8	National Hospital Morbidity Database at Australian Institute of Health & Welfare 2001/02; data produced in HealthWIZ by Prometheus Information (not available in public release dataset)
Avoidable mortality	
Tables 8, 9, 10, 11 and 12; Figures 9 and 10	ABS Deaths 1997-2001; data produced in HealthWIZ by Prometheus Information (not available in public release dataset)

#### Table 13: Data sources

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

#### **Methods**

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

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

#### Mapping

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

### Statistical geography of the South East NSW DGP

For information on the postcodes in the Division, please refer the Department of Health and Ageing website <u>http://www.health.gov.au/internet/wcms/publishing.nsf/Content/health-pcd-programs-divisions-divspc.htm;</u> also included in table format in the 'Notes on the data' section of the *Population health profile*, November 2005 (www.publichealth.gov.au).

Statistical Local Areas (SLAs) are defined by the Australian Bureau of Statistics to produce areas for the presentation and analysis of data. The SLAs and parts of SLAs listed in Table 14 comprise the Division.

SLA code	SLA name	Per cent of the SLA's	Estimate of the SLA's
		population in the	2005 population in
		Division <sup>*</sup>	the Division
10550	Bega Valley	100.0	32,431
10852	Blayney - Part B	13.8	243
11000	Bombala	100.0	2,534
11050	Boorowa	90.8	2,266
12050	Cooma-Monaro	100.0	9,474
12400	Crookwell	100.0	4,379
12750	Eurobodalla	100.0	36,389
12802	Evans - Part B	3.6	149
13150	Goulburn	100.0	21,274
13600	Gunning	94.4	2,245
13700	Harden	93.5	3,529
15450	Mulwaree	86.5	6,453
16450	Queanbeyan	47.6	16,983
17050	Snowy River	100.0	7,293
17250	Tallaganda	100.0	2,889
17500	Tumut	0.8	#
18350	Wingecarribee	1.4	626
18651	Yarrowlumla - Part A	51.0	5,586
18652	Yarrowlumla - Part B	50.0	146
18700	Yass	97.2	10,700
18750	Young	94.0	11,313
80011	Tuggeranong South	0.1	#
80016	Kowen and Majura	50.0	123
80019	Eastern Fringe	15.0	185
89009	Remainder of ACT	41.3	155

#### Table 14: SLAs and population in South East NSW DGP, 2005 on 2001 boundaries

<sup>\*</sup> 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. In addition, in a small number of cases, part(s) of an SLA can be allocated to another Division, sometimes several hundred kilometres away. Although adjustments have not been made to the concordance to correct these errors, the affected SLAs are highlighted in the table (shown in bold italic typeface)

## 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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