Population health profile of the Mid North Coast

Division of General Practice: supplement

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1. Public health - New South Wales - North Coast - Statistics. 2. Health status indicators - New South Wales - North Coast - Statistics. 3. Health service areas - New South Wales - North Coast. 4. North Coast (N.S.W.) - Statistics, Medical. I. Public Health Information Development Unit (Australia). (Series : Population profile series ; no. 22a).

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

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Population health profile of the Mid North Coast Division of General Practice: supplement

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

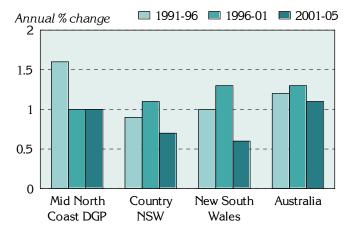
- Population [updated to June 2005]
- Additional socio-demographic indicators
- Unreferred attendances patient flow/ GP catchment
- Additional prevalence estimates: chronic diseases and risk factors combined
- Avoidable hospitalisations: hospital admissions resulting from ambulatory care sensitive conditions
- 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 Mid North Coast Division had an Estimated Resident Population of 130,762 at 30 June 2005.

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



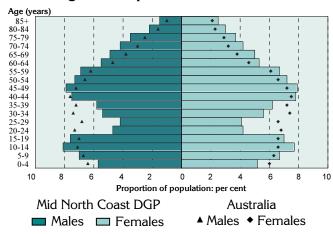
Over the five years from 1991 to 1996, the Division's population increased by 1.6% on average each year, higher than for country New South Wales (0.9%), New South Wales (1.0%), and Australia (1.2%). From 1996 to 2001, the annual percentage increase was 1.0%, lower than for country New South Wales (1.2%) and New South Wales (1.3%). The annual growth rate from 2001 to 2005 was again 1.0%, and higher than the rates for country New South Wales (0.7%) and New South Wales (0.6%), but lower than for Australia (1.1%).

Table 1: Population by age, Mid North Coast DGP and Australia, 2005

Age group (years)	Mid North Coast DGP		Australia
_	No.	%	No. %
0-14	26,407	20.2	3,978,221 19.6
15-24	15,345	11.7	2,819,834 13.9
25-44	30,543	23.4	5,878,107 28.9
45-64	35,768	27.4	4,984,446 24.5
65-74	11,969	9.2	1,398,831 6.9
75-84	8,087	6.2	954,143 4.7
85+	2,643	2.0	315,027 1.5
Total	130,762	100.0	20,328,609 100.0

As shown in the accompanying table and the age-sex pyramid below (Figure 2), the Mid North Coast DGP had lower proportions of the population aged 15 to 24 years (11.7%), and 25 to 44 years (23.4%), compared to Australia as a whole (with 13.9%, and 28.9%, respectively). Conversely, the 45 years and over age groups all had notably higher proportions compared to Australia.

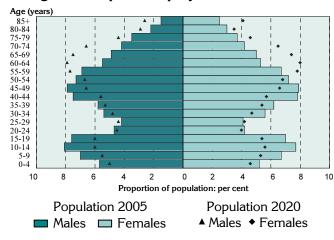
Figure 2: Population in Mid North Coast DGP and Australia, by age and sex, 2005



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

- at younger ages a lower proportion of the population at ages 0 to 4 years, and higher proportions at ages 5 to 19 years;
- from 20 to 39 years substantially lower proportions (perhaps with people moving away to continue education, or to seek employment opportunities); and
- at 45 years and over relatively more males and females.

Figure 3: Population projections for Mid North Coast DGP, by age and sex, 2005 and 2020



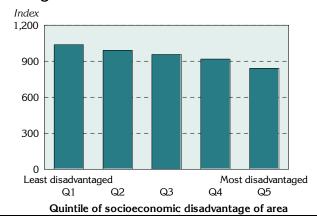
The population projections for the Division show a number of changes in age distribution, with the 2020 population projected to have:

- at younger ages generally much lower proportions of males and females aged 0 to 19 years;
- from 30 to 54 years old lower proportions of both males and females; and
- from age 55 years and over relatively more males and females (most pronounced at ages 60 to 74 years and for the 85+ age group).

Additional socio-demographic indicators

Please refer to the earlier *Population health profile of the Mid North Coast 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, Mid North Coast DGP, 2001



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

The Mid North Coast DGP has an index score of 948, below the score for Australia of 1000: this score varies widely across the Division, from a low of 841 in the most disadvantaged areas to 1037 in the least disadvantaged areas.

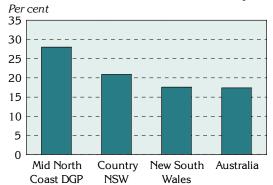
Note: each 'quintile' comprises approximately 20% of the population of the Division.

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. The proportion of jobless families in the Mid North Coast DGP (28.0%) was markedly higher than for 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 (40.6%), compared to country New South Wales (44.9%) (Figure 5, Table 2).

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





Private health insurance, 30 June

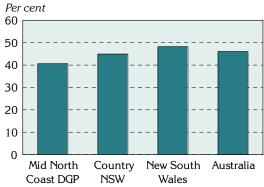


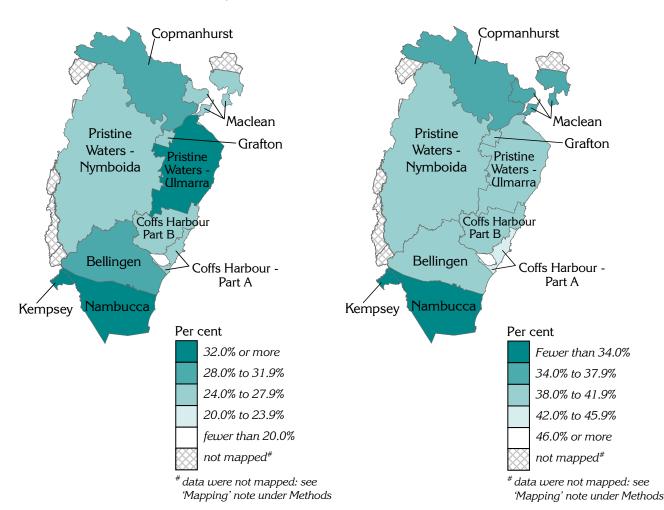
Table 2: Socio-demographic indicators, Mid North Coast DGP, country New South Wales, New South Wales and Australia, 2001

Indicator	Mid North Coast DGP		Country	Country NSW		New South Wales		Australia	
	No.	%	No.	%	No.	%	No.	%	
Jobless families with children under 15 years old	3,872	28.0	54,883	20.9	121,409	17.6	357,563	17.4	
Private health insurance (30 June)	50,069	40.6	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,
Mid North Coast DGP, 2001

Map 2: People covered by private health insurance by SLA, Mid North Coast DGP, 30 June 2001



GP services to residents of the Mid North Coast 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 (90.7%) of all unreferred attendances to residents of Mid North Coast DGP were provided in the Division (i.e. by a GP with a provider number in the Division): this represented 481,157 GP unreferred attendances (Table 3). A further 1.0% of unreferred attendances to residents were provided by GPs with a provider number in both the Northern Rivers DGP and Hastings Macleay DGP.

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

Division		Unreferred a	attendances
Number	Name	No.	%³
224	Mid North Coast DGP	481,157	90.7
225	Northern Rivers DGP	5,517	1.0
223	Hastings Macleay DGP	5,450	1.0
406	Gold Coast DGP	2,355	0.4
201	Central Sydney DGP	2,148	0.4
227	New England DGP	2,049	0.4
206	Western Sydney DGP (now WentWest & part Hawkesbury-Hills)	2,010	0.4
202	Eastern Sydney DGP	1,594	0.3
217	Hunter Urban DGP	1,536	0.3
405	GPpartners DGP	1,476	0.3
Other		24,968	4.7
Total		530,260	100.0

¹ Based on address in Medicare records

The majority (93.3%) of unreferred attendances provided by GPs with a provider number in Mid North Coast DGP were also to people living in the Division (i.e. their Medicare address was in the Division) (Table 4). A further 1.5% of unreferred attendances by GPs in the Division were to residents of Hastings Macleay DGP, with 0.8% also to people living in Northern Rivers DGP.

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

Division		Unreferred a	attendances
Number	Name	No.	% ³
224	Mid North Coast DGP	481,157	93.3
223	Hastings Macleay DGP	7,937	1.5
225	Northern Rivers DGP	4,352	0.8
217	Hunter Urban DGP	1,172	0.2
227	New England DGP	1,167	0.2
219	Central Coast DGP	1,123	0.2
Other		18,736	3.7
Total		515,644	100.0

¹ Division of GP based on provider number

² Division of GP based on provider number

³ Proportion of all unreferred attendances of patients with an address in Division 224 by Division in which attendance occurred

² Based on address in Medicare records

³ Proportion of all unreferred attendances to GPs with a provider number in Division 224 by Division of patient address

Additional prevalence estimates: chronic diseases and risk factors combined

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

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



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

Variable	Mid North Coast DGP		Country	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	2,933	27.7	54,344	24.7	126,542	19.7	397,734	20.8	
Had type 2 diabetes & were overweight/ obese ⁴	2,300	15.6	40,784	15.5	100,235	15.7	283,176	15.2	

¹ No. is a weighted estimate of the number of people in Mid North Coast 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.

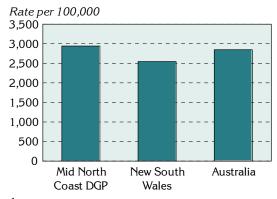
In 2001 to 2002, the 4,166 admissions for ambulatory care sensitive (ACS) conditions accounted for 10.3% of all admissions in the Mid North Coast DGP (Table 6, Figure 7), notably above the levels for both New South Wales (8.6%) and Australia (8.7%).

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

Category	Mid North Coast DGP			New	South Wale	es	Australia			
	No.	Rate ²	%	No.	Rate ²	%	No.	Rate ²	%	
Avoidable ¹	4,166	2,940.2	10.3	170,066	2,543.8	8.6	552,786	2,847.5	8.7	
Unavoidable	36,266	26,980.5	89.7	1,810,901	27,255.3	91.4	5,818,199	29,970.7	91.3	
Total	40,433	29,939.2	100.0	1,980,967	29,798.8	100.0	6,370,985	32,818.2	100.0	

¹ Admissions resulting from ACS conditions

Figure 7: Avoidable hospitalisations¹, Mid North Coast DGP, New South Wales and Australia, 2001/02



The rate of avoidable hospitalisations in Mid North Coast DGP is notably higher, a rate of 2,940.2 admissions per 100,000 population, compared to New South Wales (a rate of 2,543.8), and above that in Australia (2,847.5).

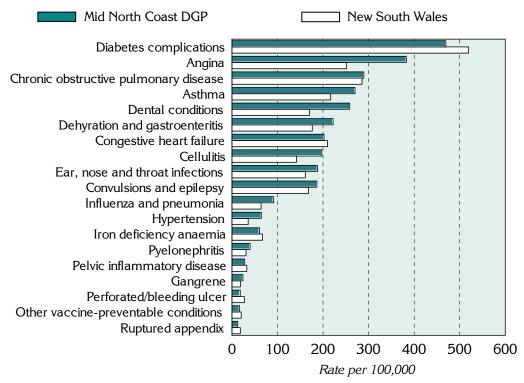
Diabetes complications, angina, chronic obstructive pulmonary disease, and asthma had the highest rates of avoidable hospitalisations in the Mid North Coast DGP (Figure 8, Table 7).

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. Dental conditions; and dehydration and gastroenteritis have the highest rates of avoidable hospitalisations for the acute conditions.

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

¹ Admissions resulting from ACS conditions

Figure 8: Avoidable hospitalisations¹ by condition, Mid North Coast 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, Mid North Coast DGP, New South Wales and Australia, 2001/02

Sub-category/ condition		th Coast GP	New So	uth Wales	Austr	ralia
	No.	Rate ²	No.	Rate ²	No.	Rate ²
Vaccine-preventable	148	108.4	5,630	84.5	16,573	85.4
Influenza and pneumonia	127	91.6	4,280	64.1	13,021	67.1
Other vaccine preventable	21	16.8	1,350	20.4	3,552	18.3
Chronic ³	2,598	1,739.8	106,803	1,587.0	352,545	1,816
Diabetes complications	711	469.6	34,975	519.5	141,345	728.1
Iron deficiency anaemia	89	60.8	4,494	67.0	16,451	84.7
Hypertension	94	64.5	2,398	35.7	6,354	32.7
Congestive heart failure	317	202.2	14,270	209.7	42,447	218.6
Angina	587	382.9	16,987	251.8	49,963	257.4
Chronic obstructive pulmonary disease	458	289.5	19,359	285.6	54,853	282.6
Asthma	342	270.3	14,289	216.8	41,009	211.3
Acute	1,510	1,174.8	62,543	946.0	200,913	1,035
Dehydration and gastroenteritis	294	222.1	11,725	176.4	37,766	194.5
Convulsions and epilepsy	233	186.3	11,093	168.1	31,137	160.4
Ear, nose and throat infections	230	187.7	10,615	161.1	32,075	165.2
Dental conditions	325	258.6	11,196	170.3	43,667	224.9
Perforated/bleeding ulcer	27	18.2	1,830	27.1	5,795	29.9
Ruptured appendix	16	12.6	1,212	18.5	3,866	19.9
Pyelonephritis	49	39.8	2,038	31.0	7,386	38.0
Pelvic inflammatory disease	32	28.0	2,134	32.7	6,547	33.7
Cellulitis	268	197.3	9,451	142.0	28,204	145.3
Gangrene	36	24.2	1,249	18.6	4,470	23.0
Total avoidable hospitalisations ⁴	4,166	2,940.2	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 (71.3%) of all deaths in Mid North Coast 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 28.2% of all deaths at ages 0 to 74 years in Mid North Coast DGP, also consistent with the proportion in country New South Wales (28.3%).

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

Mortality category	Mid North Coast DGP		Country	Country NSW New S			Austr	Australia	
	No.	Rate ¹	No.	Rate ¹	No.	Rate ¹	No.	Rate ¹	
Avoidable	1,516	227.0	29,442	234.3	66,151	213.6	189,845	211.8	
% of total	71.3	••	71.6		71.4	••	71.5	••	
(Amenable)	(599)	(87.8)	(11,638)	(91.2)	(26,374)	(85.0)	(76,249)	(85.1)	
(% of total)	(28.2)	()	(28.3)	()	(28.5)	()	(28.7)	()	
Unavoidable	609	89.7	11,700	92.1	26,468	85.3	75,582	84.3	
% of total	28.7	••	28.4		28.6	••	28.5	••	
Total mortality	2,125	316.7	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. Mid North Coast DGP's rate of avoidable mortality for males was 293.9 deaths per 100,000 males, notably higher than the rate of 159.1 for females. Similarly, the rate of amenable mortality for males in the Division was higher, 99.6, compared to 75.7 for females, a rate ratio of 1.32 (Figure 9, Table 9).

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

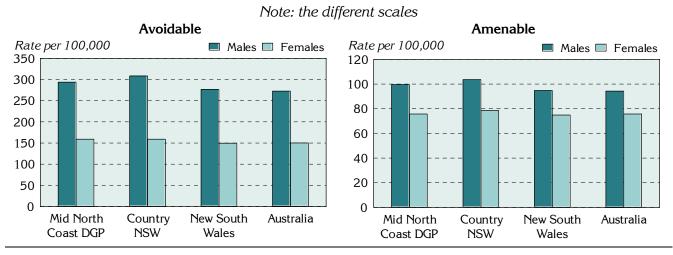


Table 9: Avoidable and amenable mortality (0 to 74 years) by sex, Mid North Coast DGP, country New South Wales, New South Wales and Australia, 1997 to 2001

Mortality category and sex	Mid North Coast DGP		Country	Country NSW New S Wal				alia
	No.	Rate ¹	No.	Rate ¹	No.	Rate ¹	No.	Rate ¹
Avoidable								
Males	992	293.9	19,569	308.5	43,074	276.8	123,026	272.6
Females	524	159.1	9,873	159.1	23,077	149.6	66,819	150.1
Total	1,516	227.0	29,442	234.3	66,151	213.6	189,845	211.8
Rate ratio-M:F ²		1.85**	••	1.94**		1.85**		1.82**
Amenable								
Males	349	99.6	6,743	103.6	14,811	94.8	42,568	94.3
Females	251	75.7	4,895	78.6	11,562	74.9	33,681	75.7
Total	599	87.8	11,638	91.2	26,374	85.0	76,249	85.1
Rate ratio-M:F ²		1.32**	••	1.32**	••	1.27**	••	1.25**

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

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

The numbers of YLL for Mid North Coast 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 71.6% of total YLL (0 to 74 years) for Mid North Coast DGP, marginally lower than the 71.8% for country New South Wales. At the same time, the proportion of YLL from amenable mortality for Mid North Coast DGP (27.7%) was consistent with that for country New South Wales (27.6%).

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

Mortality category	Mid North Coast DGP		Country	J		outh es	Austra	ılia
	No.	% of	No.	% of	No.	% of	No.	% of
		total		total		total		total
Avoidable	25,949	71.6	502,860	71.8	1,147,183	71.8	3,327,375	71.9
(Amenable)	(10,046)	(27.7)	(192,960)	(27.6)	(444, 143)	(27.8)	(1,298,430)	(28.0)
Unavoidable	10,284	28.4	197,182	28.2	451,496	28.2	1,303,289	28.1
Total	36,233	100.0	700,042	100.0	1,598,679	100.0	4,630,664	100.0

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

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

In each of the areas in Table 11, the majority of avoidable mortality at ages 0 to 74 years occurred in the 65 to 74 year age group (Table 11), with 1,356.6 deaths per 100,000 population in Mid North Coast 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 338.6 in Mid North Coast Division.

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

Mortality category and age (years)	Mid North Coast DGP		Country	y NSW	New S Wa		Austi	ralia
	No.	Rate ¹	No.	Rate ¹	No.	Rate ¹	No.	Rate ¹
Avoidable								
0-14	41	32.5	738	29.0	1,836	27.5	5,669	28.8
15-24	43	63.5	938	62.6	2,241	50.9	7,045	52.8
25-44	179	107.9	3,317	99.6	8,119	82.9	24,356	83.9
45-64	509	338.6	9,755	343.5	22,358	311.1	64,282	304.9
65-74	744	1,356.6	14,694	1464.0	31,597	1,375.8	88,493	1,358.1
Total	1,516	227.0	29,442	234.3	66,151	213.6	189,845	211.8
Amenable								
0-24	38	19.0	645	15.5	1,658	14.8	5,083	15.4
25-44	44	24.6	784	23.0	1,878	19.2	5,946	20.5
45-64	219	145.4	4,060	142.9	9,444	131.4	27,464	130.3
65-74	298	545.4	6,148	613.7	13,394	582.9	37,756	579.4
Total	599	87.8	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 Mid North Coast DGP were for, cancer with a rate of 72.0 deaths per 100,000 population, and cardiovascular diseases, 68.3 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 49.8 per 100,000 population and 27.7 per 100,000, respectively.

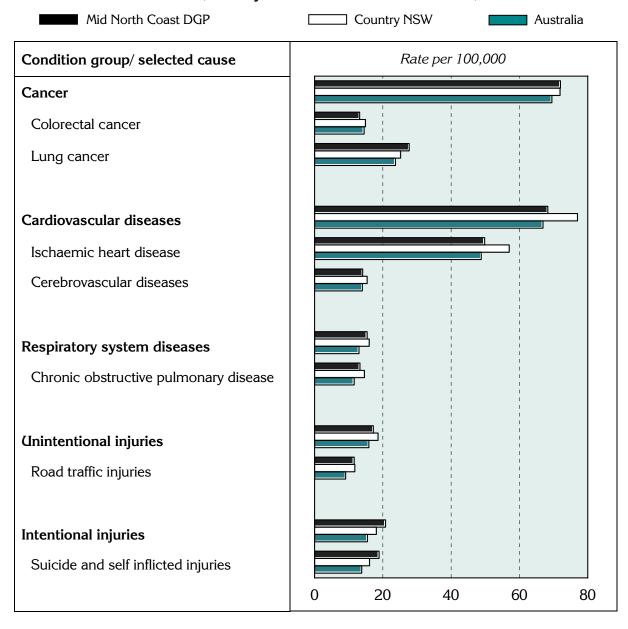
Table 12: Avoidable mortality (0 to 74 years) by major condition group and selected cause, Mid North Coast DGP, country New South Wales, New South Wales and Australia, 1997 to 2001

Condition group/ selected cause	Mid Nort DC		Country	Country NSW		outh es	Austr	alia
	No.	Rate ¹	No.	Rate ¹	No.	Rate ¹	No.	Rate ¹
Cancer	498	72.0	9,239	71.9	21,158	68.1	62,338	69.5
Colorectal cancer	92	13.2	1,936	14.9	4,318	13.9	13,008	14.5
Lung cancer	196	27.7	3,314	25.2	7,297	23.4	21,208	23.7
Cardiovascular diseases	484	68.3	10,101	77.0	21,925	70.3	59,945	66.9
Ischaemic heart disease	353	49.8	7,474	57.0	15,935	51.1	43,712	48.8
Cerebrovascular diseases	100	14.1	2,015	15.4	4,656	14.9	12,558	14.0
Respiratory system diseases	111	15.4	2,136	16.0	4,313	13.8	11,612	13.0
Chronic obstructive pulmonary disease	97	13.3	1,966	14.6	3,882	12.4	10,395	11.6
Unintentional injuries	93	17.2	2,027	18.6	4,540	15.0	14,224	15.9
Road traffic injuries	63	11.6	1,279	11.8	2,528	8.4	8,138	9.1
Intentional injuries	111	20.8	1,939	18.1	4,497	14.9	13,891	15.5
Suicide and self inflicted injuries	101	18.9	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 generally above or consistent with those for Australia for the condition groups and selected causes, but more variable in relation to rates in country New South Wales (Figure 10).

Figure 10: Avoidable mortality (0 to 74 years) by major condition group and selected cause, Mid North Coast 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 (ie. jobless families, people with health insurance): these areas are mapped with a pattern.

Statistical geography of the Mid North Coast 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, some Local Government Areas (LGAs) have been split into SLAs. For example, Coffs Harbour is comprised of two SLAs, Part A (a majority of which is in the Division) and Part B (all in the Division). These SLAs, and all or parts of the other SLAs listed in Table 14 comprise the Division.

Table 14: SLAs and population in Mid North Coast 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
10600	Bellingen	100.0	12,758
11801	Coffs Harbour - Part A	95.7	47,563
11804	Coffs Harbour - Part B	100.0	16,205
12250	Copmanhurst	92.1	4,308
13200	Grafton	100.0	17,139
13754	Hastings Part - B	1.9	560
14350	Kempsey	3.2	933
15000	Maclean	8.4	1,510
15700	Nambucca	98.0	18,387
16421	Pristine Waters - Nymboida	100.0	4,458
16422	Pristine Waters - Ulmarra	100.0	6,941

^{*} 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

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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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