Population health profile of the

Northern Melbourne

Division of General Practice: supplement

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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 Northern Melbourne Division of General Practice: supplement

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

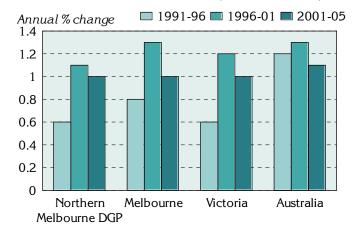
- Population [updated to June 2005]
- Additional socio-demographic indicators
- Unreferred attendances patient flow/ GP catchment
- Additional prevalence estimates: chronic diseases and risk factors combined
- Avoidable hospitalisations: hospital admissions resulting from ambulatory care sensitive conditions
- 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 Northern Melbourne Division had an Estimated Resident Population of 246,716 at 30 June 2005.

Figure 1: Annual population change, Northern Melbourne DGP, Melbourne, Victoria and Australia, 1991 to 1996, 1996 to 2001 and 2001 to 2005



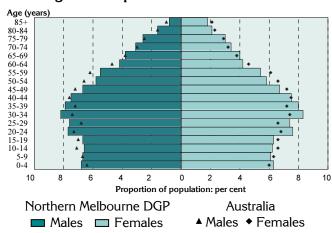
Over the five years from 1991 to 1996, the Division's population increased by 0.6% on average each year, the same as Victoria, but lower than for Melbourne (0.8%) or for Australia as a whole (1.2%). From 1996 to 2001, the annual percentage increase in the Division was 1.1%, lower than for the other areas (1.3%, 1.2% and 1.3%, respectively). From 2001 to 2005 the population increased by an average of 1.0% each year, consistent with the annual increases of 1.0% for Melbourne and Victoria.

Table 1: Population by age, Northern Melbourne DGP and Australia, 2005

Age group (years)	Northern Melbourne DGP		Austral	ia
	No.	%	No.	%
0-14	47,712	19.3	3,978,221	19.6
15-24	34,932	14.2	2,819,834	13.9
25-44	76,930	31.2	5,878,107	28.9
45-64	54,721	22.2	4,984,446	24.5
65-74	17,693	7.2	1,398,831	6.9
75-84	11,498	4.7	954,143	4.7
85+	3,231	1.3	315,027	1.5
Total	246,716	100.0	20,328,609	100.0

As shown in the accompanying table and the age-sex pyramid below (Figure 2), the Northern Melbourne DGP had relatively more people aged 25 to 44 years (31.2%), and fewer people aged 45 to 64 years (22.2%) compared to Australia as a whole (with 28.9% and 24.5%) (Table 1). The proportions in the Division's other age groups were similar to those for Australia as a whole.

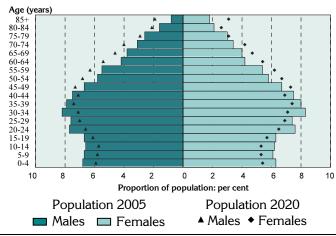
Figure 2: Population in Northern Melbourne DGP and Australia, by age and sex, 2005



The age distribution of the Division's population is quite similar to that for Australia overall. The most notable differences are:

- at younger ages slightly lower proportions of young people aged 10 to 19 years;
- from 20 to 39 years higher proportions of both males and females;
- from 45 to 64 years lower proportions of both males and females; and
- at older ages slightly lower proportions of males and females aged 85 years and older.

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



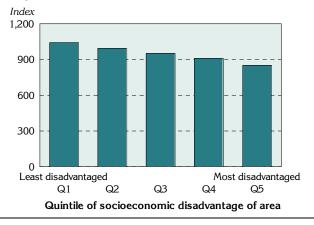
The population projections for the Division show a number of changes in age distribution, with the 2020 population projected to have:

- at younger ages lower proportions of children, teenagers and young adults, aged 0 to 24 years;
- from 25 to 44 years lower proportions of both males and females; and
- from 45 years onwards higher proportions of both males and females.

Additional socio-demographic indicators

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



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

The Northern Melbourne DGP has an index score of 949, below the score for Australia of 1000: this score varies in a step-wise fashion across the Division, from 1041 in the least disadvantaged areas to 851 in the most disadvantaged areas.

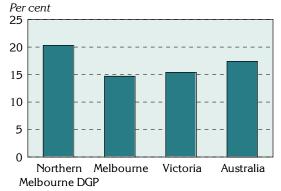
Note: each 'quintile' comprises approximately 20% of the population of the Division.

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 markedly more jobless families in the Northern Melbourne DGP (20.3%), compared to Melbourne as a whole (14.7%) (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 markedly lower proportion of people with private health insurance (36.4%), compared to Melbourne (49.2%) (Figure 5, Table 2).

Figure 5: Socio-demographic indicators, Northern Melbourne DGP, Melbourne, Victoria and Australia, 2001

Jobless families with children under 15 years old



Private health insurance, 30 June

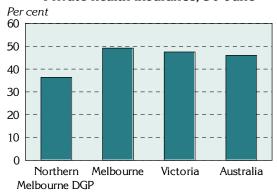


Table 2: Socio-demographic indicators, Northern Melbourne DGP, Melbourne, Victoria and Australia, 2001

Indicator	Northern Melbourne DGP		Melbou	Melbourne		Victoria		Australia	
	No.	%	No.	%	No.	%	No.	%	
Jobless families with children under 15 years old	5,158	20.3	52,418	14.7	77,142	15.4	357,563	17.4	
Private health insurance (30 June)	82,937	36.4	1,653,598	49.2	2,196,890	47.5	8,671,106	46.0	

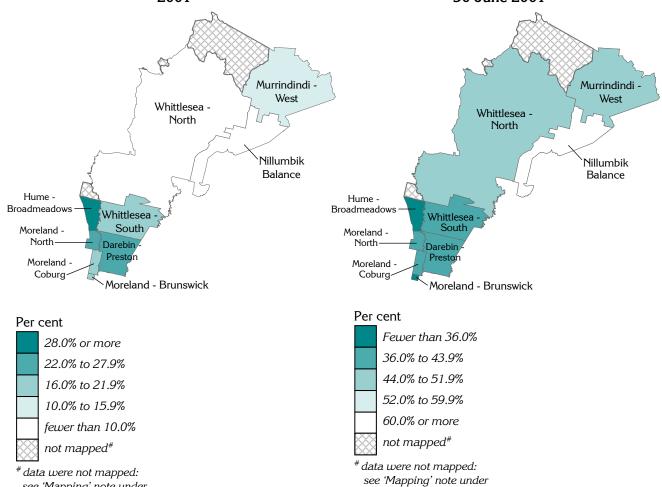
Details of the distribution of jobless families and of the population covered by private health insurance are shown by Statistical Local Area (SLA) in Maps 1 and 2, respectively.

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

see 'Mapping' note under

Methods

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



Methods

GP services to residents of the Northern Melbourne 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.

Almost three quarters (71.7%) of all unreferred attendances to residents of Northern Melbourne were provided in the Division (ie. by a GP with a provider number in the Division): this represented 1,062,771 GP unreferred attendances (Table 3). A further 9.6% of unreferred attendances to residents were provided by GPs with a provider number in North East Valley DGP, with 8.2% provided by GPs in Melbourne DGP.

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

Division		Unreferred a	ttendances
Number	Name	No.	% ³
308	Northern Melbourne DGP	1,062,771	71.7
302	North East Valley DGP	141,697	9.6
301	Melbourne DGP	121,673	8.2
307	North West Melbourne DGP	79,432	5.4
303	Inner Eastern Melbourne DGP	18,268	1.2
304	Southcity DGP	9,984	0.7
306	Western Melbourne DGP	9,741	0.7
Other		39,661	2.7
Total		1,483,227	100.0

¹ Based on address in Medicare records

Three quarters (75.3%) of unreferred attendances provided by GPs with a provider number in Northern Melbourne were also to people living in the Division (ie. their Medicare address was in the Division) (Table 4). A further 8.5% of unreferred attendances provided by GPs in the Division were to residents of North West Melbourne DGP, with 8.1% to people living in North East Valley DGP.

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

Division		Unreferred a	ttendances
Number	Name	No.	% ³
308	Northern Melbourne DGP	1,062,771	75.3
307	North West Melbourne DGP	119,376	8.5
302	North East Valley DGP	114,460	8.1
301	Melbourne DGP	33,529	2.4
306	Western Melbourne DGP	12,654	0.9
318	Central Highlands DGP	12,198	0.9
303	Inner Eastern Melbourne DGP	6,817	0.5
310	Whitehorse DGP	6,632	0.5
Other		42,595	3.0
Total		1,411,032	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 308 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 308 by Division of patient address

Additional prevalence estimates: chronic diseases and risk factors combined

Please refer to the earlier *Population health profile of the Northern Melbourne 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 Northern Melbourne DGP who had asthma and were smokers, compared to Melbourne as a whole (Figure 6, Table 5): that is, the prevalence rates per 1,000 population were higher, although they were the same as the Australian rate. Similarly, there was a higher rate of people in Northern Melbourne DGP who had type 2 diabetes and were overweight/ obese, compared to Melbourne or Australia.

Figure 6: Estimates of selected chronic diseases and risk factors, Northern Melbourne DGP, Melbourne and Australia, 2001

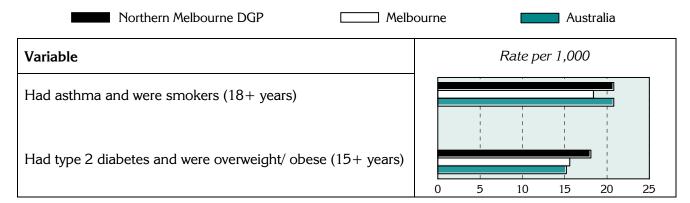


Table 5: Estimates of selected chronic diseases and risk factors, Northern Melbourne DGP, Melbourne, Victoria and Australia, 2001

Variable	Northern Melbourne DGP		Melbourne		Victoria		Australia	
•	No. ¹	Rate ²	No. ¹	Rate ²	No. ¹	Rate ²	No. ¹	Rate ¹
Had asthma & smoked ³	5,137	20.8	66,240	18.4	95,664	19.9	397,734	20.8
Had type 2 diabetes δ were overweight/ obese ⁴	3,974	18.1	50,057	15.6	69,192	15.1	283,176	15.2

¹ No. is a weighted estimate of the number of people in Northern Melbourne 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.

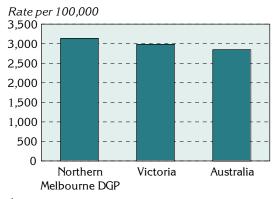
In 2001 to 2002, the 7,133 admissions from ambulatory care sensitive (ACS) conditions accounted for 8.7% of all admissions in the Northern Melbourne DGP (Table 6, Figure 7). The proportion of avoidable hospitalisations in the Division was consistent with the proportions for both Victoria (8.8%) and Australia (8.7%).

Table 6: Avoidable¹ and unavoidable hospitalisations, Northern Melbourne DGP, Victoria, and Australia, 2001/02

Category	Northe	rn Melbourr	ne DGP	,	Victoria			Australia			
	No.	Rate ²	%	No.	Rate ²	%	No.	Rate ²	%		
Avoidable ¹	7,133	3,132.4	8.7	145,135	2,983.2	8.8	552,786	2,847.5	8.7		
Unavoidable	74,455	32,188.0	91.3	1,510,437	31,088.3	91.2	5,818,199	29,970.7	91.3		
Total	81,588	35,319.4	100.0	1,655,572	34,071.5	100.0	6,370,985	32,818.2	100.0		

¹ Admissions resulting from ACS conditions

Figure 7: Avoidable hospitalisations¹, Northern Melbourne DGP, Victoria and Australia, 2001/02



The rate of avoidable hospitalisations in Northern Melbourne DGP, 3,132.4 admissions per 100,000 population, is higher than the rates for Victoria (a rate of 2,983.2) and for Australia (2,847.5).

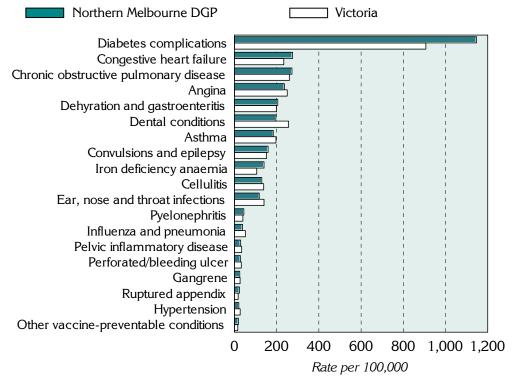
Diabetes complications, congestive heart failure, chronic obstructive pulmonary disease and angina were the four conditions with the highest rates of avoidable hospitalisations in the Northern Melbourne DGP (Figure 8, Table 7).

Table 7 shows the number, rate and proportion of avoidable hospitalisations, for the individual ACS conditions, as well as the vaccine-preventable; acute; and chronic sub-categories. The majority of avoidable hospitalisations are attributable to chronic health conditions. The predominance of hospitalisations for chronic conditions in this period can be primarily attributed to the large number of admissions for diabetes complications. Dehydration and gastroenteritis, and dental conditions 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, Northern Melbourne DGP and Victoria, 2001/02



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

Table 7: Avoidable hospitalisations¹ by condition, Northern Melbourne DGP, Victoria and Australia, 2001/02

Sub-category/ condition		Melbourne GP	Victo	oria	Austr	alia
	No.	Rate ²	No.	Rate ²	No.	Rate ²
Vaccine-preventable	135	58.7	3,293	68.0	16,573	85.4
Influenza and pneumonia	89	39.0	2,525	52.0	13,021	67.1
Other vaccine preventable	46	19.7	768	16.0	3,552	18.3
Chronic ³	5,123	2,278.0	97,133	1,982.6	352,545	1,816
Diabetes complications	2,594	1,147.1	44,409	906.9	141,345	728.1
Iron deficiency anaemia	314	140.4	5,196	105.9	16,451	84.7
Hypertension	47	21.1	1,362	27.7	6,354	32.7
Congestive heart failure	597	275.7	11,655	234.1	42,447	218.6
Angina	524	236.8	12,285	250.4	49,963	257.4
Chronic obstructive pulmonary disease	617	272.7	12,850	260.7	54,853	282.6
Asthma	430	184.2	9,376	196.9	41,009	211.3
Acute	2,233	962.6	50,153	1,041.7	200,913	1,035
Dehydration and gastroenteritis	475	205.8	9,761	200.0	37,766	194.5
Convulsions and epilepsy	373	159.7	7,297	152.4	31,137	160.4
Ear, nose and throat infections	278	117.6	6,653	140.5	32,075	165.2
Dental conditions	457	196.6	12,235	256.7	43,667	224.9
Perforated/bleeding ulcer	64	28.7	1,618	32.9	5,795	29.9
Ruptured appendix	55	23.9	855	17.9	3,866	19.9
Pyelonephritis	107	45.1	1,948	40.2	7,386	38.0
Pelvic inflammatory disease	72	29.7	1,693	34.8	6,547	33.7
Cellulitis	295	129.9	6,751	139.0	28,204	145.3
Gangrene	57	25.6	1,342	27.3	4,470	23.0
Total avoidable hospitalisations ⁴	7,133	3,132.4	145,135	2,983.2	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.

Over two-thirds (70.2%) of all deaths in Northern Melbourne DGP at ages 0 to 74 years over the period 1997 to 2001 are considered to be avoidable, marginally lower than the proportion for Melbourne (71.0%) (Table 8). Deaths amenable to health care (amenable mortality, a subset of avoidable mortality) accounted for 29.1% of all deaths at ages 0 to 74 years in Northern Melbourne DGP, marginally higher than the 28.7% in Melbourne.

Table 8: Avoidable and unavoidable mortality (0 to 74 years) by area, Northern Melbourne DGP, Melbourne, Victoria and Australia, 1997 to 2001

Mortality category	Northern Melbourne DGP		Melbo	Melbourne		Victoria		Australia	
	No.	Rate ¹	No.	Rate ¹	No.	Rate ¹	No.	Rate ¹	
Avoidable	2,216	198.9	30,654	193.0	45,466	201.3	189,845	211.8	
% of total	70.2	••	71.0		70.9	••	71.5		
(Amenable)	(917)	(82.5)	(12,406)	(78.4)	(18,406)	(81.4)	(76,249)	(85.1)	
(% of total)	(29.1)	()	(28.7)	()	(28.7)	()	(28.7)	()	
Unavoidable	939	84.3	12,517	79.1	18,617	82.4	75,582	84.3	
% of total	29.8	••	29.0		29.1	••	28.5	••	
Total mortality	3,155	283.2	51,477	272.1	64,083	283.7	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. Northern Melbourne DGP's rate of avoidable mortality for males was 257.5 deaths per 100,000 males, higher than the rate of 139.5 for females. The rate of amenable mortality for males in the Division was also higher, 90.8, compared to 74.1 for females, a rate ratio of 1.23 (Figure 9, Table 9).

Figure 9: Avoidable and amenable mortality by sex (0 to 74 years), Northern Melbourne DGP, Melbourne, Victoria and Australia, 1997 to 2001

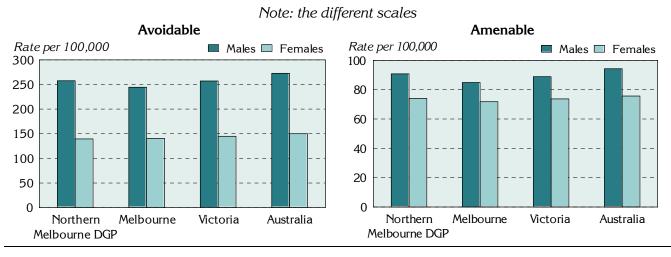


Table 9: Avoidable and amenable mortality (0 to 74 years) by sex, Northern Melbourne DGP, Melbourne, Victoria and Australia, 1997 to 2001

Mortality category and sex	Northern Melbourne DGP		Melbourne		Victo	Victoria		Australia	
	No.	Rate ¹	No.	Rate ¹	No.	Rate ¹	No.	Rate ¹	
Avoidable									
Males	1,435	257.5	19,378	244.5	29,042	257.0	123,026	272.6	
Females	781	139.5	11,276	140.7	16,424	144.8	66,819	150.1	
Total	2,216	198.9	30,354	193.0	45,466	201.3	189,845	211.8	
Rate ratio-M:F ²	••	1.85**	••	1.74**	••	1.77**		1.82**	
Amenable									
Males	504	90.8	6,667	84.9	10,052	88.9	42,568	94.3	
Females	413	74.1	5,739	71.8	8,354	73.7	33,681	75.7	
Total	917	82.5	12,406	78.4	18,406	81.4	76,249	85.1	
Rate ratio-M:F ²	••	1.23**	••	1.18**	••	1.21**		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 Northern Melbourne DGP, Melbourne, Victoria 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 Northern Melbourne DGP, slightly below the proportion for Melbourne. The proportion of YLL from amenable mortality for Northern Melbourne DGP (28.5%), was marginally higher than for Melbourne (28.1%).

Table 10: Years of life lost from avoidable mortality (0 to 74 years), Northern Melbourne DGP, Melbourne, Victoria and Australia, 1997 to 2001

Mortality category	Northern Melbourne DGP		Melbourne		Victoria		Australia	
	No.	% of	No.	% of	No.	% of	No.	% of
		total		total		total		total
Avoidable	38,136	70.5	536,388	71.6	790,054	71.5	3,327,375	71.9
(Amenable)	(15,410)	(28.5)	(210,627)	(28.1)	(310,758)	(28.1)	(1,298,430)	(28.0)
Unavoidable	15,984	29.5	212,979	28.4	315,555	28.5	1,303,289	28.1
Total	54,120	100.0	749,368	100.0	1,105,610	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.

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

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 1,311.6 deaths per 100,000 population in the Northern Melbourne 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 289.8 in the Northern Melbourne Division.

Table 11: Avoidable and amenable mortality by age, Northern Melbourne DGP, Melbourne, Victoria and Australia, 1997 to 2001

Mortality category and age (years)	Northern Melbourne DGP		Melbo	ourne	Vict	Victoria		Australia	
	No.	Rate ¹	No.	Rate ¹	No.	Rate ¹	No.	Rate ¹	
Avoidable									
0-14	74	30.1	874	26.0	1,290	27.1	5,669	28.8	
15-24	66	38.1	1,120	45.2	1,627	49.3	7,045	52.8	
25-44	267	71.7	4,090	75.6	5,705	78.9	24,356	83.9	
45-64	713	289.8	10,123	273.0	15,004	286.9	64,282	304.9	
65-74	1,097	1,311.6	14,447	1265.1	21,840	1306.6	88,493	1,358.1	
Total	2,216	198.9	30,654	193.0	45,466	201.3	189,845	211.8	
Amenable									
0-24	70	16.8	836	14.6	1,189	14.9	5,083	15.4	
25-44	55	15.2	963	18.0	1,382	19.1	5,946	20.5	
45-64	315	127.4	4,398	118.2	6,489	123.8	27,464	130.3	
65-74	477	570.5	6,209	542.7	9,348	558.6	37,756	579.4	
Total	917	82.5	12,406	78.4	18,406	81.4	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 Northern Melbourne DGP were for cancer, with a rate of 66.9 deaths per 100,000 population, and cardiovascular diseases, 62.9 deaths per 100,000 population (Table 12, Figure 10). For the selected causes within the condition groups, the two major causes of avoidable mortality were ischaemic heart disease and lung cancer, with rates of 45.1 per 100,000 population and 22.1 per 100,000, respectively.

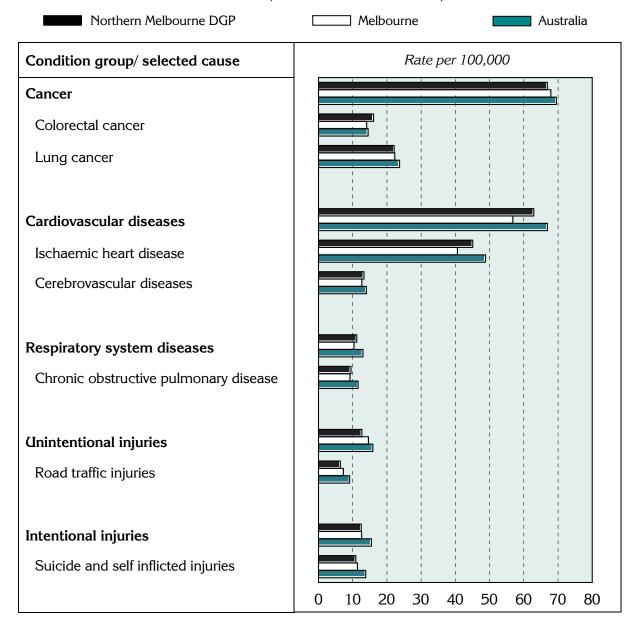
Table 12: Avoidable mortality (0 to 74 years) by major condition group and selected cause, Northern Melbourne DGP, Melbourne, Victoria and Australia, 1997 to 2001

Condition group/	North	nern	Melbo	urne	Victo	oria	Austi	ralia
selected cause	Melbouri	ne DGP						
	No.	Rate ¹	No.	Rate ¹	No.	Rate ¹	No.	Rate ¹
Cancer	740	66.9	10,739	67.9	15,813	69.8	62,338	69.5
Colorectal cancer	179	16.1	2,218	14.1	3,351	14.8	13,008	14.5
Lung cancer	245	22.1	3,505	22.3	5,244	23.1	21,208	23.7
Cardiovascular diseases	700	62.9	8,946	56.8	13,612	60.0	59,945	66.9
Ischaemic heart disease	501	45.1	6,377	40.6	9,809	43.3	43,712	48.8
Cerebrovascular diseases	149	13.3	2,013	12.7	2,947	12.9	12,558	14.0
Respiratory system diseases	127	11.2	1,644	10.4	2,621	11.5	11,612	13.0
Chronic obstructive pulmonary disease	107	9.5	1,451	9.2	2,339	10.2	10,395	11.6
Unintentional injuries	144	12.7	2,394	14.6	3,536	15.9	14,224	15.9
Road traffic injuries	72	6.4	1,192	7.3	1,931	8.7	8,138	9.1
Intentional injuries	141	12.5	2,074	12.6	3,020	13.6	13,891	15.5
Suicide and self inflicted injuries	123	10.9	1,877	11.4	2,752	12.3	12,393	13.8

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

With the exception of colorectal cancer, rates in the Division were below, or consistent with, those for Australia; there was more variation in comparison with the rates for Melbourne (Figure 10).

Figure 10: Avoidable mortality (0 to 74 years) by major condition group and selected cause, Northern Melbourne DGP, Melbourne and Australia, 1997 to 2001



Notes on the data

Data sources and limitations

General

References to 'Melbourne' relate to the Melbourne 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 Northern Melbourne 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, Local Government Areas (LGAs) have been split into SLAs. For example, Whittlesea has two SLAs, Whittlesea - North (all in the Division) and Whittlesea - South (the majority of which is in the Division). These SLAs and parts of the other SLAs listed in Table 14 comprise the Division.

Table 14: SLAs and population in Northern Melbourne DGP, 2005 on 2001 boundaries

SLA code	SLA name	Per cent of SLA population in the Division*	Estimate of the SLA's 2005 population in the Division
20662	Banyule - North	8.1	4,460
21892	Darebin - Preston	96.2	78,771
23271	Hume - Broadmeadows	8.5	5,575
25251	Moreland - Brunswick	10.1	4,128
25252	Moreland - Coburg	31.1	14,870
25253	Moreland - North	28.4	13,413
25622	Murrindindi - West	19.5	1,503
25718	Nillumbik Balance	8.1	760
27071	Whittlesea - North	100.0	22,515
27074	Whittlesea - South	95.6	100,721

^{*} 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).

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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 December 2006).

PHIDU contact details

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