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*Authoritative information and statistics
to promote better health and wellbeing*

Comorbidity of mental disorders and physical conditions, 2007

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Abbreviations

ABS	Australian Bureau of Statistics
AIHW	Australian Institute of Health and Welfare
BMI	body mass index
CI	confidence interval
K10	Kessler Psychological Distress Scale – 10
MESC	main English speaking countries
SEIFA	socioeconomic indexes for areas
SES	socioeconomic status

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Summary

Background

Comorbidity is the occurrence of more than one condition/disorder at the same time, and is common among those with mental illness. It can involve more than one mental disorder, or one mental disorder and one or more physical conditions. People with multiple disorders are more disabled and consume more health resources than those with only one disorder.

This report provides a snapshot of the prevalence of mental illness in association with common chronic conditions in Australia in 2007. It compares the comorbidity group – comprising 12% of the population aged 16–85 – with three other groupings:

- people with a mental disorder but no physical condition
- people with a physical condition but no mental disorder
- people with no mental disorder or physical condition.

The results are all derived from the National Survey of Mental Health and Wellbeing 2007, conducted by the Australian Bureau of Statistics.

Main findings

Around one in nine Australians aged 16–85 had a mental disorder and a physical condition at the same time. These people were more likely to be female, and aged in their early forties.

The most common comorbidity was anxiety disorder combined with a physical condition, affecting around 1.4 million Australian adults. This was consistent for most age and sex groups, with the exception of younger males (aged 16–24) for whom substance use disorder combined with a physical condition was most common comorbidity.

In general, the results show that comorbidity increased with decreasing socioeconomic status (SES). For example, people living in the most disadvantaged areas of Australia were 65% more likely to have comorbidity than those living in the least disadvantaged areas.

Some health risk factors were more prevalent among people who had a mental disorder. For example, groups with a mental disorder had higher proportions of smokers compared with the groups without a mental disorder, and the comorbidity group had the highest proportion of smokers of all the groups.

People with a comorbidity of any mental disorder and physical condition had higher rates of hospitalisation than the three comparison groups. Similarly, the proportion of people consulting a health professional for a mental health disorder was much higher in the comorbidity group and mental disorder only group than the other comparison groups.

The coexistence of mental and physical conditions has an effect on quality of life. For example, on the Kessler Psychological Distress Scale 10, people in the comorbidity group were more than 10 times as likely to report high levels of psychological distress compared with the groups with no mental disorder.

People with comorbidity were around twice as likely as people without comorbidity to have more than 7 out of the past 30 days out of role (derived as the number of days totally unable to function plus half the number of days of reduced functioning).

1 Introduction

Why comorbidity matters

Comorbidity (the occurrence of more than one condition/disorder at the same time) is common among those with mental illness. It can involve more than one mental disorder, or one mental disorder and one or more physical conditions. People with multiple disorders are more disabled, more distressed and have more consultations for mental health problems than those with only one disorder (Andrews et al. 2002).

Further, a recent report by the Australian Institute of Health and Welfare (AIHW 2011) showed that even after comorbidity of mental and physical conditions was taken into account, people with severe or profound disability were more likely than those without disability to use health services for mental disorders.

The relationship between mental and physical illness is not clearly understood, but having a physical illness is one of the strongest risk factors for depression (Wilhelm et al. 2003). Conversely, depression is also a risk factor for physical illness (Wulsin et al. 1999).

Similarly, the authors of an AIHW report looking at the relationship between mental disorders and musculoskeletal conditions (AIHW 2010a) concluded that there was evidence of an underlying relationship between the two conditions, with the observed comorbidity being higher than expected. While the causal directions were not fully understood, their high comorbidity indicates the need for health-care providers to be aware of the complex treatment and management requirements of people with long-term musculoskeletal conditions.

Understanding these complexities, and the best ways to treat each, requires consideration of both the mental and the physical illness (Clarke & Currie 2009).

What this report offers

This report provides a snapshot of the prevalence of mental illness in association with common chronic physical conditions (comorbidity of any mental disorder and physical condition). The comorbidity group (12% of the population aged 16–85) is compared with three other groups:

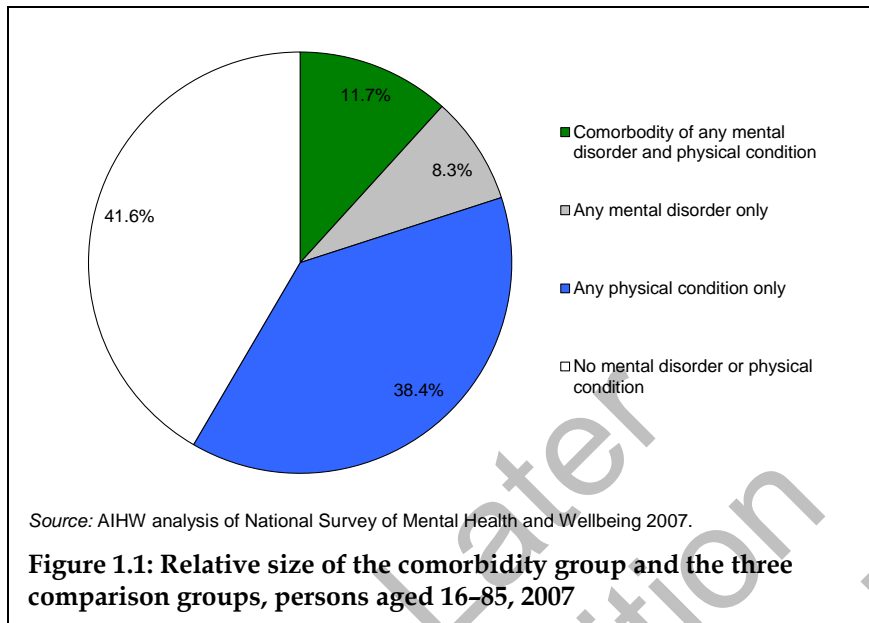
- people with one or more mental disorders but no physical condition (any mental disorder only) (8%)
- people with one or more physical conditions but no mental disorder (any physical condition only) (38%)
- people with no mental disorder or a physical condition (no mental disorder or physical condition) (42%) (Figure 1.1).

A more detailed schematic of these groups are derived is at Appendix 1.

The analysis is based on the National Survey of Mental Health and Wellbeing 2007, conducted by the Australian Bureau of Statistics (ABS) from August–December 2007. The survey collected information from approximately 8,800 Australians aged 16–85.

This report follows the methodology used in the ABS survey, where a person must have had a diagnosed mental disorder in the last 12 months (that is, not just in their lifetime) to be included in the mental disorder and comorbidity group.

Because of the size of the total comorbidity group (around 12% of the sample), there is limited scope to conduct detailed analysis of specific mental disorder–physical condition comorbidities.



A note on terminology

In this report, the term ‘mental disorder’ generally refers to a specific mental health condition, and is consistent with the term used by the ABS in reporting findings from the survey.

The term ‘mental illness’ generally refers to the overall concept of mental ill health, and/or the broad grouping of mental disorders.

The term ‘12-month mental disorder’, mostly used in tables, refers to having had a diagnosed mental disorder in the last 12 months.

Structure of the report

Following this introduction, major sections cover:

- an overview of the comorbidity of mental disorders and physical conditions (Section 2)
- selected sociodemographic factors by comorbidity group (Section 3)
- selected risk factors by comorbidity group (Section 4)
- health service use by comorbidity group (Section 5)
- selected measures of quality of life by comorbidity group (Section 6).

As most of the analysis in the following sections is presented graphically, supporting tables are included in Appendix 1. A description of the data source and methods used in the analysis is at Appendix 2. A glossary of terms is also provided.

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2 Overview of comorbidity

Introduction

The 16–85 age group accounts for about 78% of the Australian population, and most of the detectable mental health problems will be in this age group, especially when the information is collected by means of a survey (ABS 2008).

About 12% of this adult population had both a mental disorder and a chronic condition, with females 1.6 times as likely as males to have had comorbidity (Table 2.1). Males and females had similar age profiles within each subgroup; both had a higher median age (of around 5 years) when the mental disorder was accompanied by a physical disorder, compared with a mental disorder only.

Table 2.1: Summary of mental health and physical condition comorbidity

Group	Males		Females		Persons	
	%	Median age	%	Median age	%	Median age
No lifetime mental disorder	51.9	44	57.1	47	54.5	45
Any lifetime mental disorder	48.1	42	42.9	41	45.5	41
Any 12-month mental disorder	17.6	38	22.3	37	20.0	37
Comorbidity of 12-month mental disorder and physical condition	8.9	42	14.5	42	11.7	42
All persons aged 16–85	100	43	100	43	100	43

Source: AIHW analysis of National Survey of Mental Health and Wellbeing 2007.

Of the main groups of mental disorders (as classified by the ABS), the highest rate of comorbidity with a physical condition is seen for anxiety disorders, affecting an estimated 1.4 million Australians. This combination was more than twice as common among women as men (Table 2.2).

Of the more serious chronic conditions, the group most commonly appearing with any mental disorder was arthritis, rheumatism and gout, affecting around 455,000 Australians. This combination was almost twice as common among women as men (Table 2.2).

Table 2.2: Prevalence of selected specific mental disorder–physical condition comorbidities, 2007

Comorbidity	Males	Females	Persons	Males	Females	Persons
	('000)			Per cent		
Affective disorder, any physical condition	249	395	644	3.1	4.9	4.0
Anxiety disorder, any physical condition	456	966	1,422	5.7	12.0	8.9
Substance use disorder, any physical condition	255	149	404	3.2	1.8	2.5
Arthritis, rheumatism or gout, any mental disorders	155	301	455	1.9	3.7	2.8
Asthma, any mental disorders	139	257	396	1.7	3.2	2.5
Cancer, any mental disorders	40	51	91	0.5	0.6	0.6
Diabetes, any mental disorders	58	82	140	0.7	1.0	0.9
Heart problem, any mental disorders	167	224	391	2.1	2.8	2.4
Stroke, any mental disorders	12	15	27	0.1	0.2	0.2

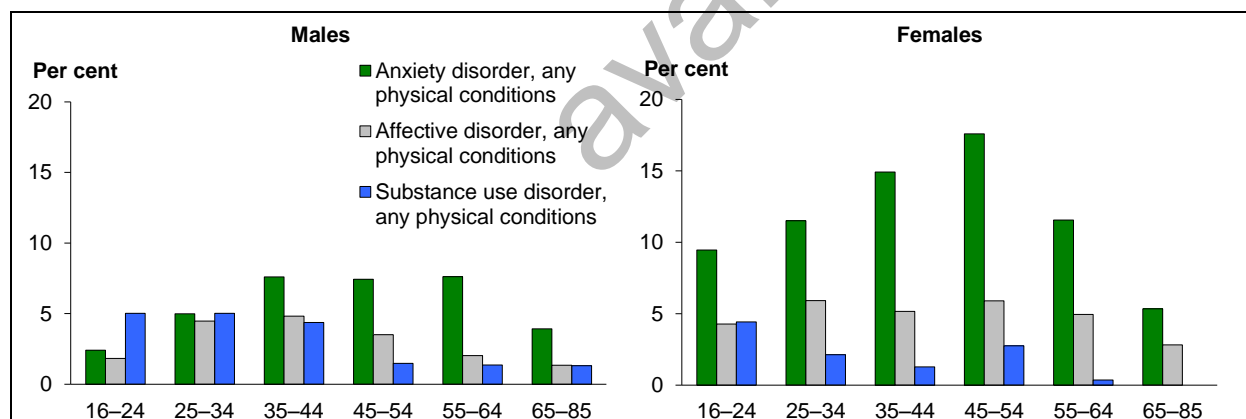
Note: A person may have more than one comorbidity.

Source: AIHW analysis of National Survey of Mental Health and Wellbeing 2007.

Comorbidity of mental disorders and any physical condition

The main features observed across the age groups are (Figure 2.1):

- the prevalence of anxiety disorder comorbidity increased up to middle ages for both males and females, with around 1 in 6 females aged 45–54 affected
- compared with older males, substance abuse disorder comorbidity was relatively more prevalent for males aged under 45, affecting around 1 in 20 males
- in each age group, females had a higher prevalence than males of affective disorder comorbidity.

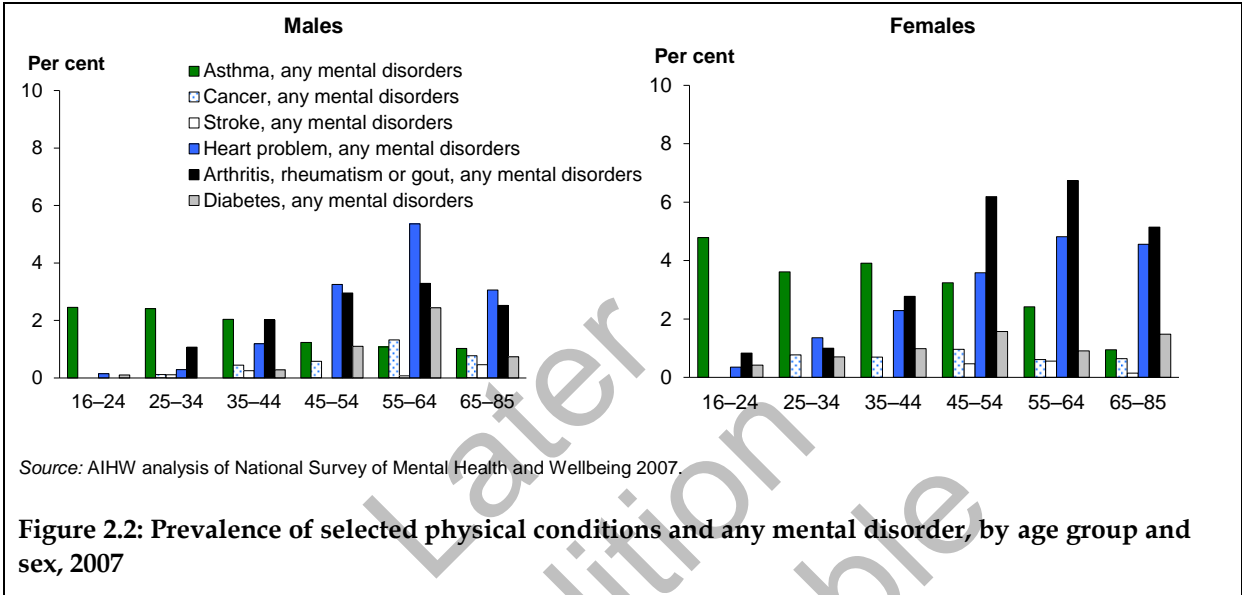


Source: AIHW analysis of National Survey of Mental Health and Wellbeing 2007.

Figure 2.1: Prevalence of selected mental disorders and any physical conditions, by age group and sex, 2007

Comorbidity of physical conditions and any mental disorder

The variation in comorbidity by age group is more pronounced when viewed by physical condition (Figure 2.2). The main features are that asthma was more prominent in the early age groups, for both males and females, whereas for older Australians heart problems dominated for males and musculoskeletal problems (arthritis, rheumatism and gout) were more prevalent for females.



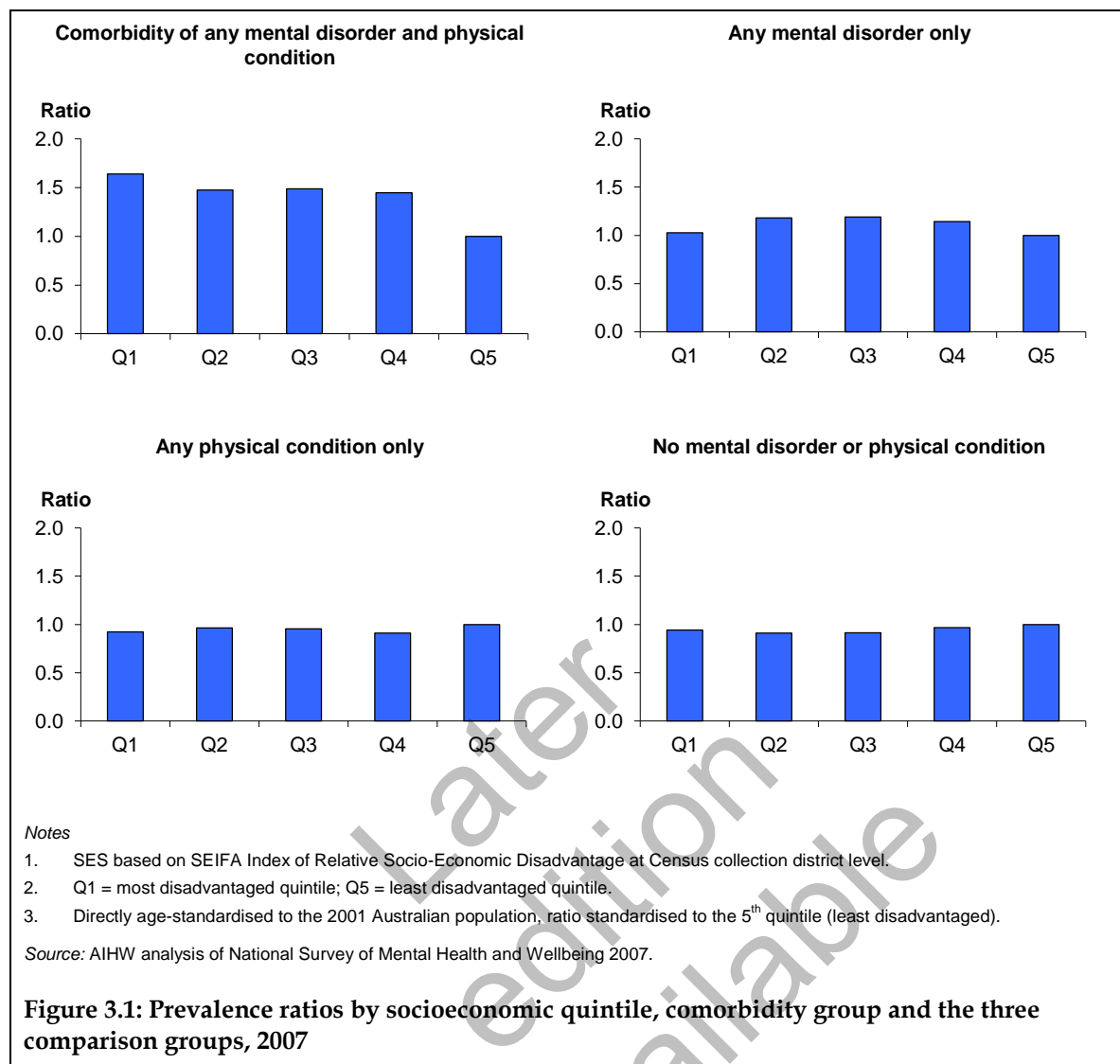
3 Comorbidity and selected sociodemographic characteristics

The results presented in this section describe patterns of comorbidity disaggregated by four selected sociodemographic characteristics: socioeconomic status, geography, country of birth, and labour force status. Each of these are considered in turn in the following subsections. The analyses are expressed as *prevalence ratios*, which compare the prevalence in one group with the prevalence in a 'reference' group (which is given a value of 1.0) – the reference group is arbitrary, and stated for each characteristic. A ratio greater than 1.0 reflects a higher prevalence in that group compared with the reference group, whereas a ratio less than 1.0 reflects a lower prevalence.

Socioeconomic status

People who have a lower socioeconomic status (SES) often have higher rates of illness and disability and shorter lives compared with those who have a higher SES (AIHW 2010b). The analysis shows this to also be true for the comorbidity group, where a definite gradient exists: people living in the areas of Australia with the lowest SES were 65% more likely to have comorbidity than those living in areas with the highest SES (Figure 3.1, tables A2–A6).

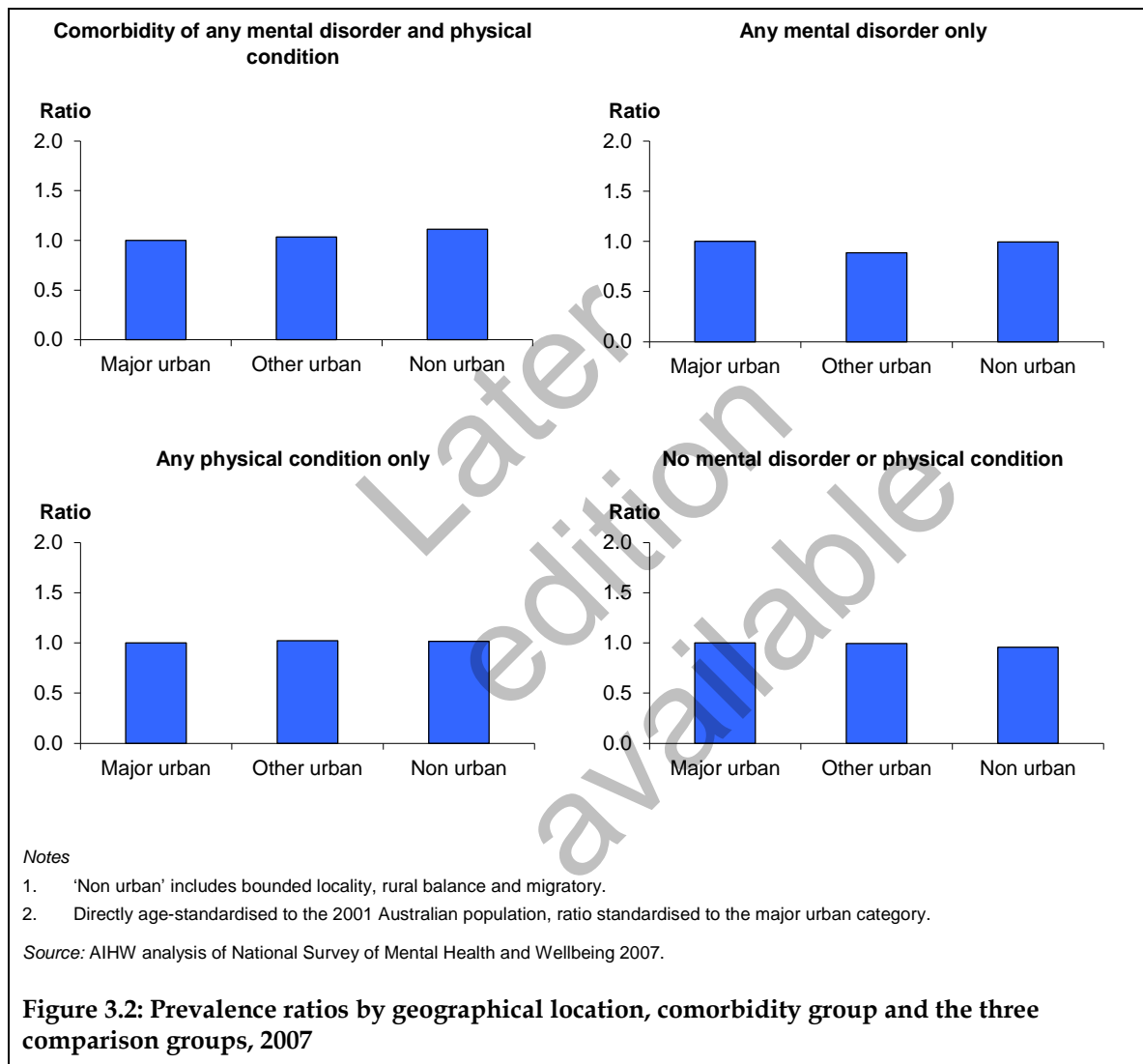
There are no clear gradients evident in the comparison groups. Although there is some variation in prevalence of mental disorder only across the socioeconomic range, it is the middle quintiles that had the higher rates.



Geography—section of state

The survey enables analysis of geography in terms of broad section of state: major urban, other urban and non urban (see Glossary for description of terms).

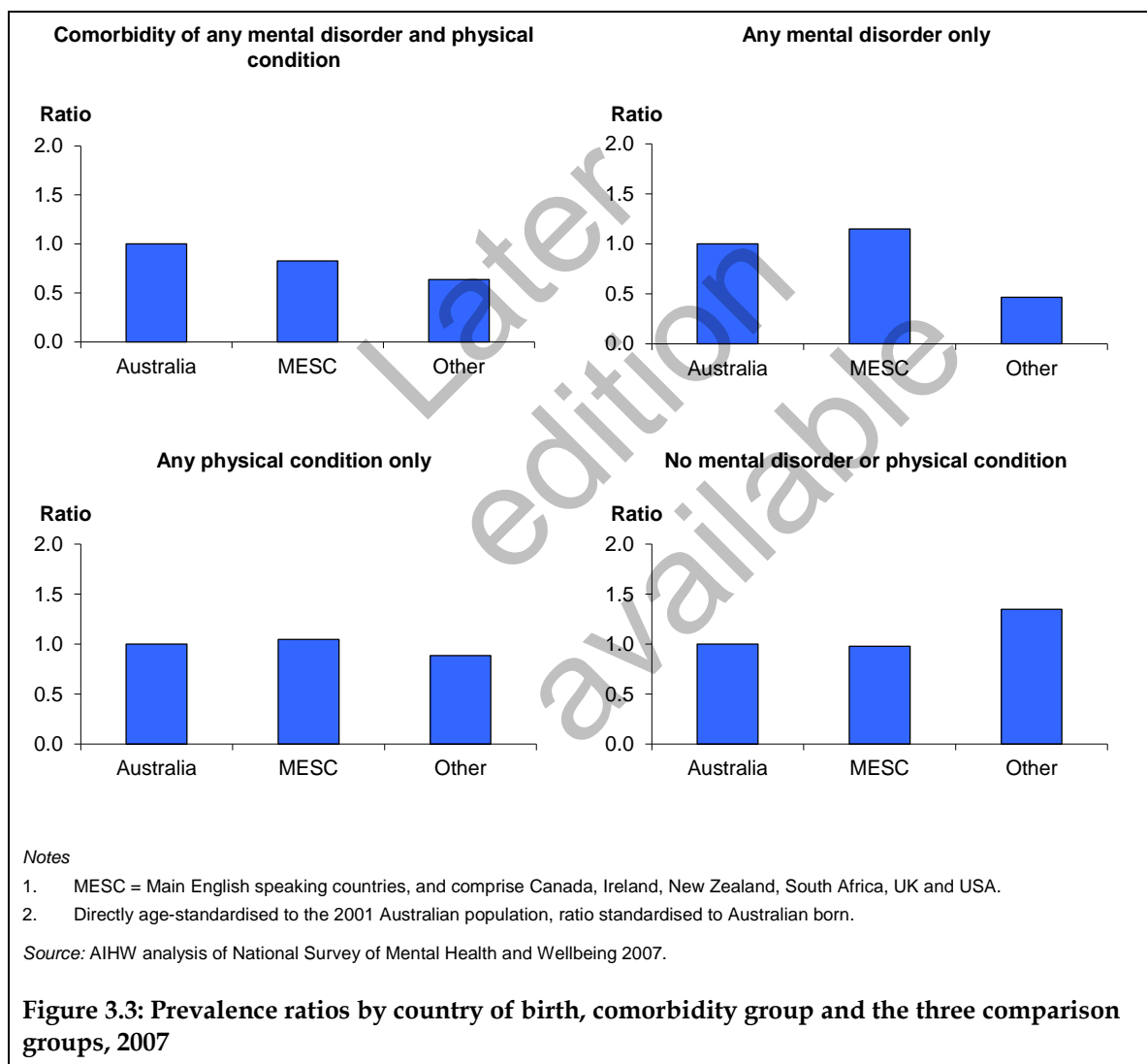
Australians living outside of major urban areas had slightly higher comorbidity rates compared with the major urban areas (Figure 3.2), and this pattern is repeated for both males and females (tables A7–A9). The pattern in the three comparison groups is much less clear, and most differences between the areas are very small.



Country of birth

People born overseas had lower rates of comorbidity than those born in Australia, and those born in non-English speaking countries (shown in the figures below as 'Other') had the lowest rates of all (Figure 3.3). This pattern is evident in both sexes, but males born in non-English speaking countries had the greatest difference: their rate of comorbidity is significantly lower than the rate for Australian-born males (tables A10–A12).

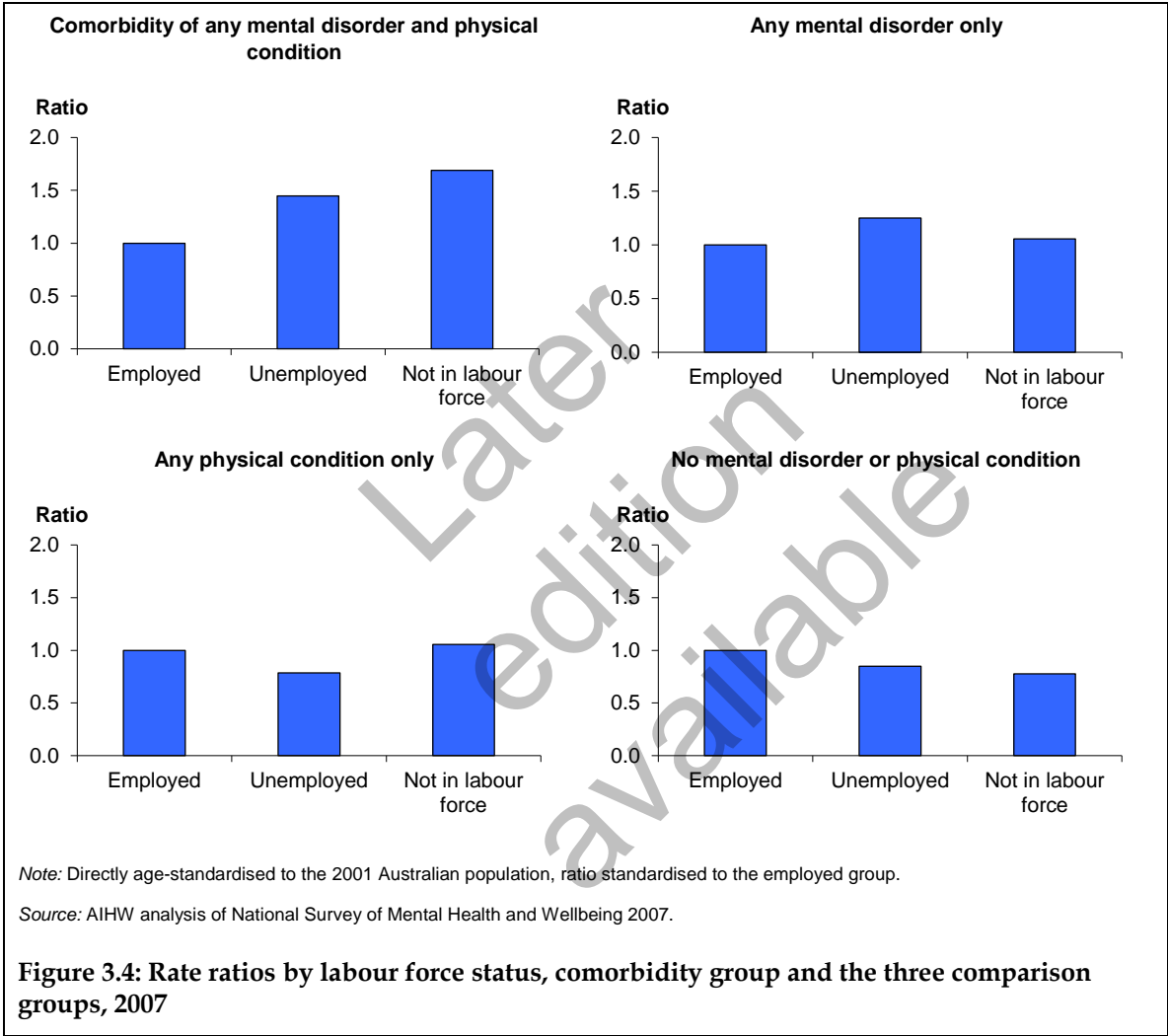
The pattern of better health amongst people born in non-English speaking countries is quite pronounced in the 'any mental disorder only' comparison group, with these being only half as likely as Australian-born people to have had 'any mental disorder only'. People born in non-English speaking countries were 35% more likely than Australian-born people to have 'no mental disorder or physical condition'.



Labour force status

Compared with employed people, those not in the labour force were nearly 70% more likely to have comorbidity, and those who were unemployed were 45% more likely to have comorbidity (Figure 3.4, tables A13–A15).

On the other hand, but reflecting the same gradient of disadvantage, people not in the labour force were 23% less likely than employed people to have ‘no mental disorder or physical condition’.



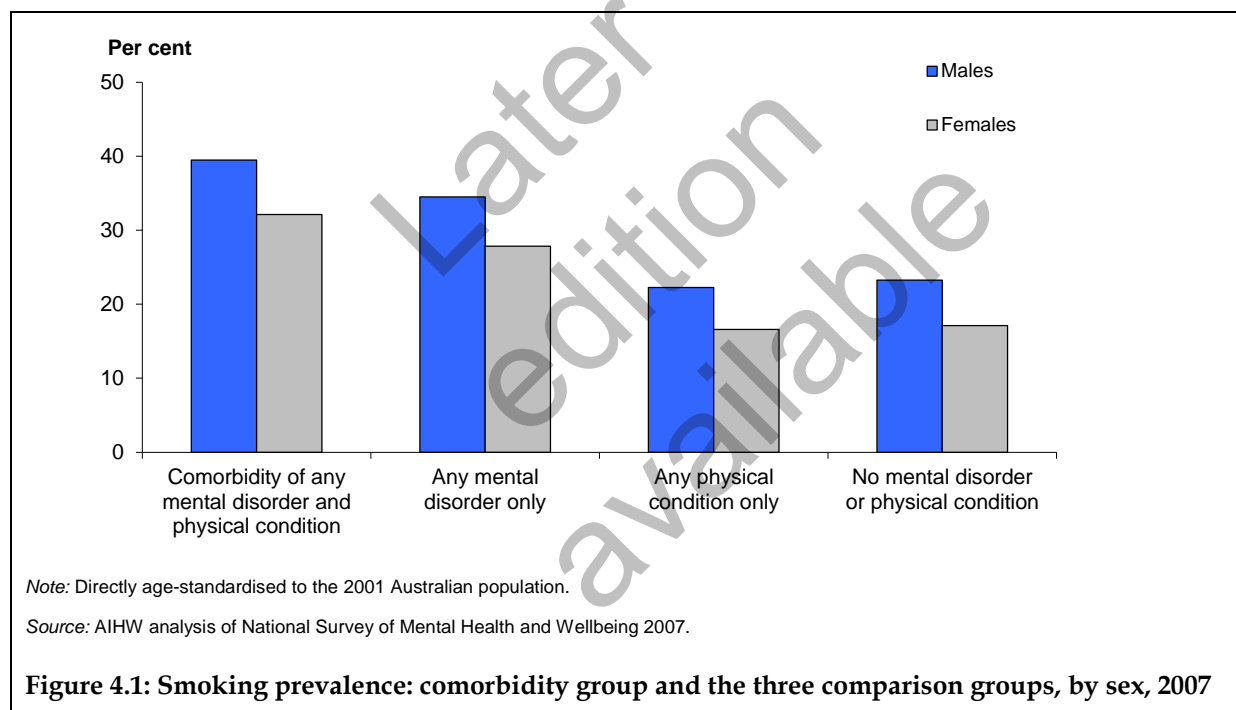
4 Comorbidity and selected risk factors

The analysis presented here shows that health risk factors are generally more prevalent among people who have a mental disorder; although it is important to note that this finding does not imply causal pathways. Risk factors are correlated with the development of or management of chronic disease, and poorer physical health can impact negatively on mental health.

Tobacco smoking

The comorbidity group had the highest proportion of smokers of all the groups (Figure 4.1, Table A16). For both males and females, there were higher proportions of smokers in the groups with a mental disorder compared with the groups without a mental disorder.

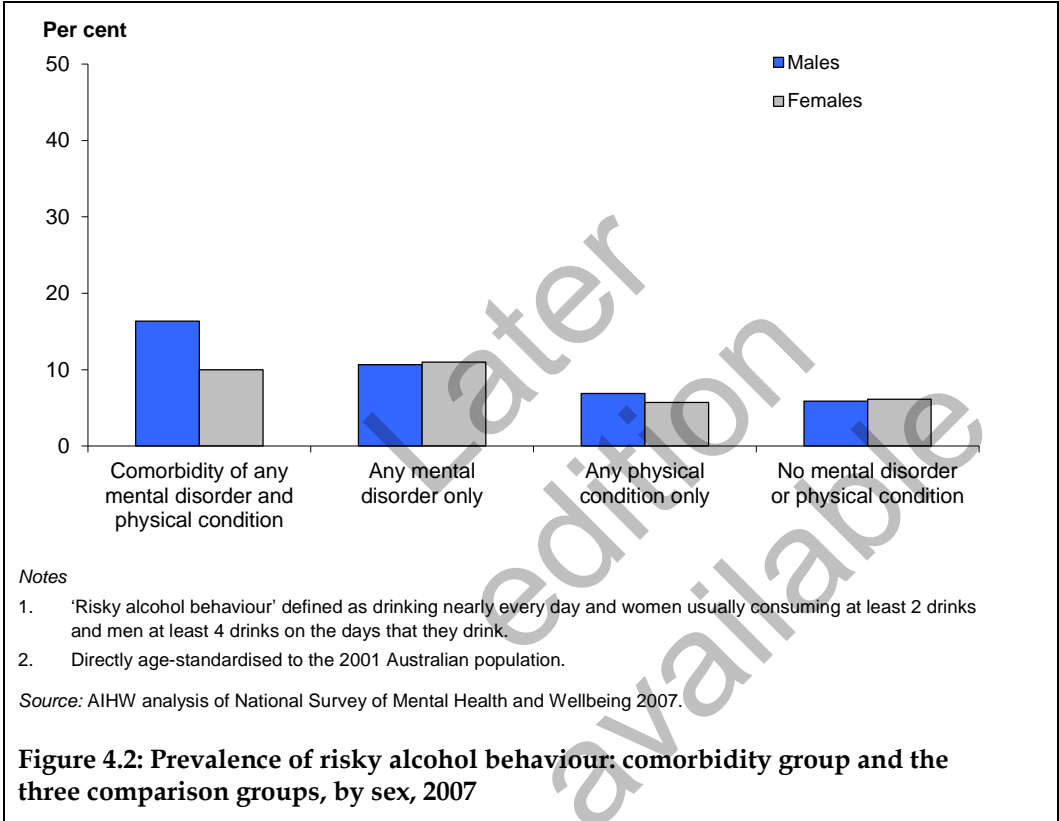
Slightly higher proportions of males were smokers compared with females in the comorbidity group and the three comparison groups.



Alcohol

In the survey, 'risky alcohol behaviour' was defined as drinking nearly every day and usually consuming at least 2 drinks (women) and at least 4 drinks (men) on the days that they drink.

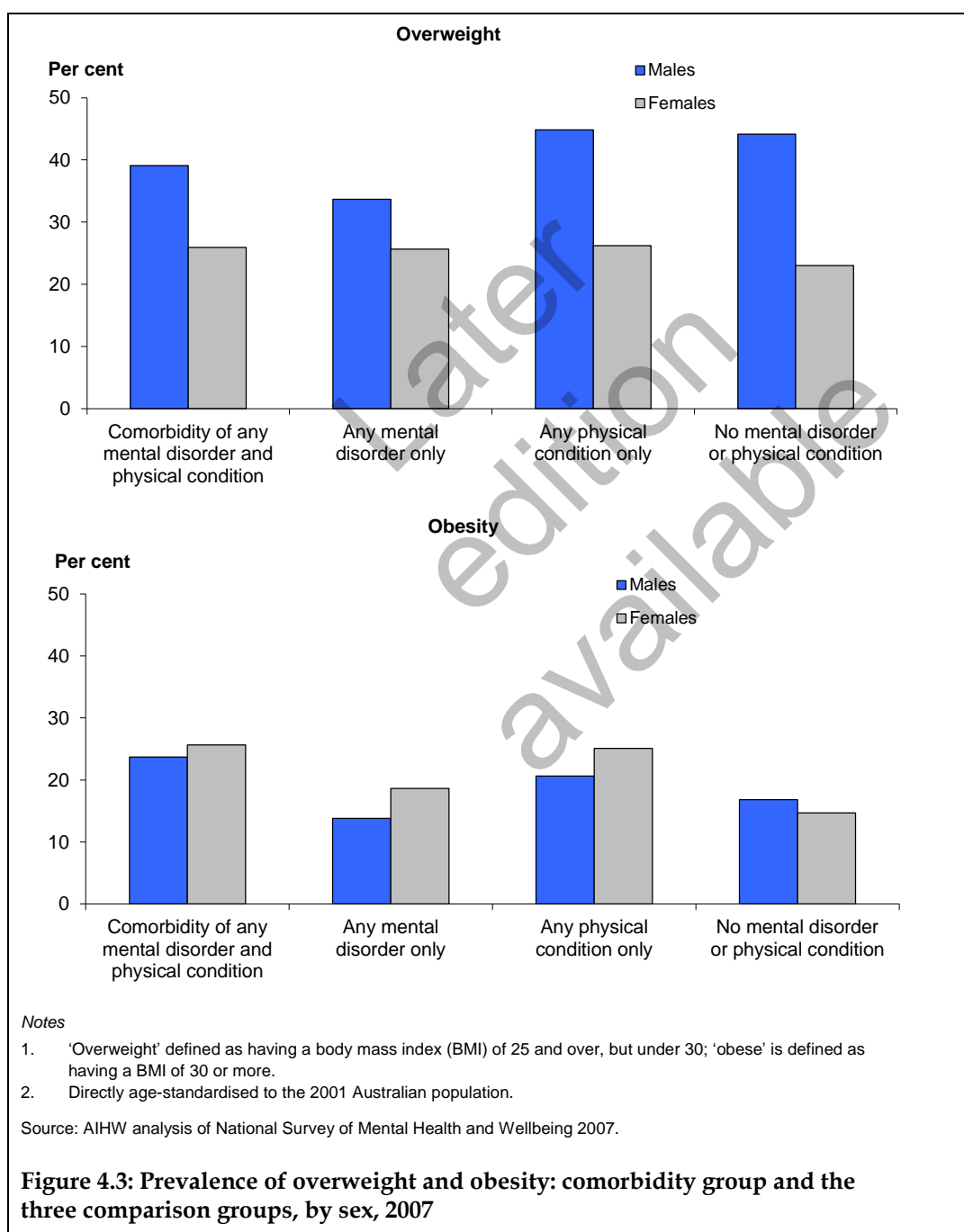
There was a higher proportion of risky alcohol behaviour among males in the comorbidity group compared with the other three groups, with substantially higher prevalence in the comorbidity group (Figure 4.2, Table A17). For females, risky alcohol consumption was also more prevalent in the groups with a mental disorder compared with the two groups without a mental disorder.



Overweight and obesity

A higher proportion of males than females were overweight (but not obese) in all four population groups. Obesity was more prevalent among females in all the population groups except in the group with 'no mental disorder or physical condition' (Figure 4.3, tables A18 and A19).

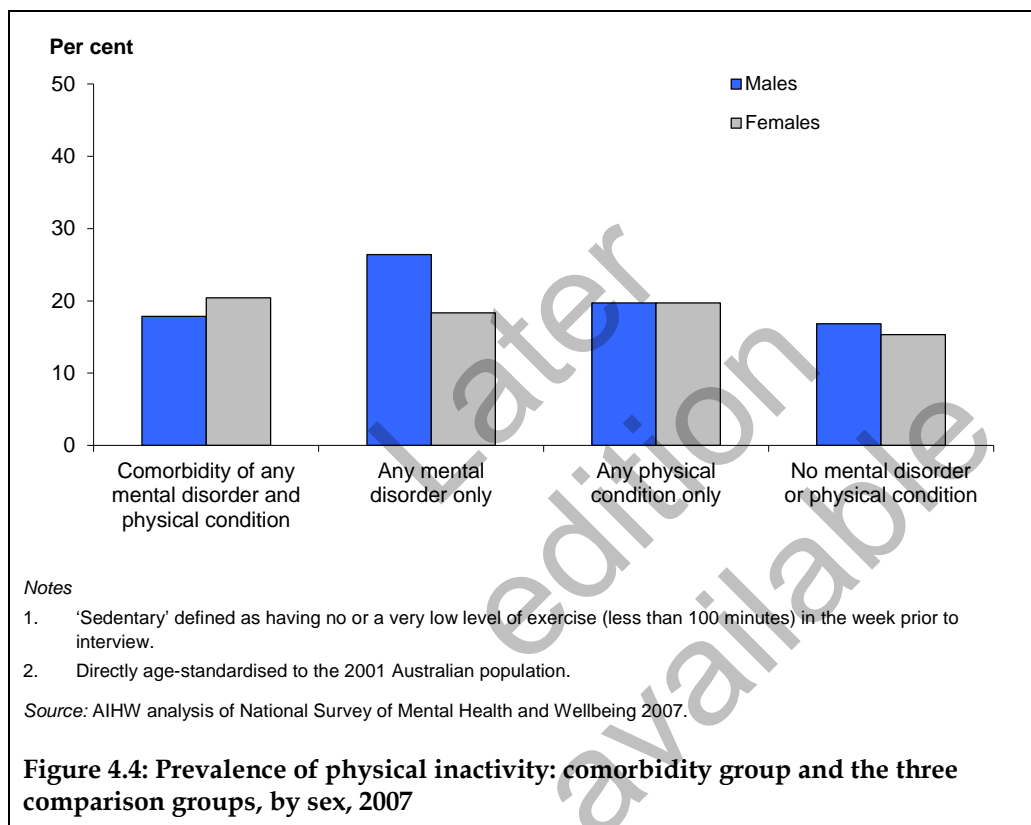
There was little variation across the groups in the proportion of females that were overweight, with more variation seen among males. In the case of obesity, there was substantially more variation for both males and females, with higher prevalence seen amongst the comorbidity group and the 'any physical condition only' group.



Physical inactivity

Physical activity has been positively associated with psychological wellbeing, and studies have shown that higher levels of physical activity reduce the likelihood of depression. 'Sedentary' activity is used as an indicator for physical inactivity, and in this survey was defined as people who did very little exercise (less than 100 minutes) or no exercise in the week prior to interview.

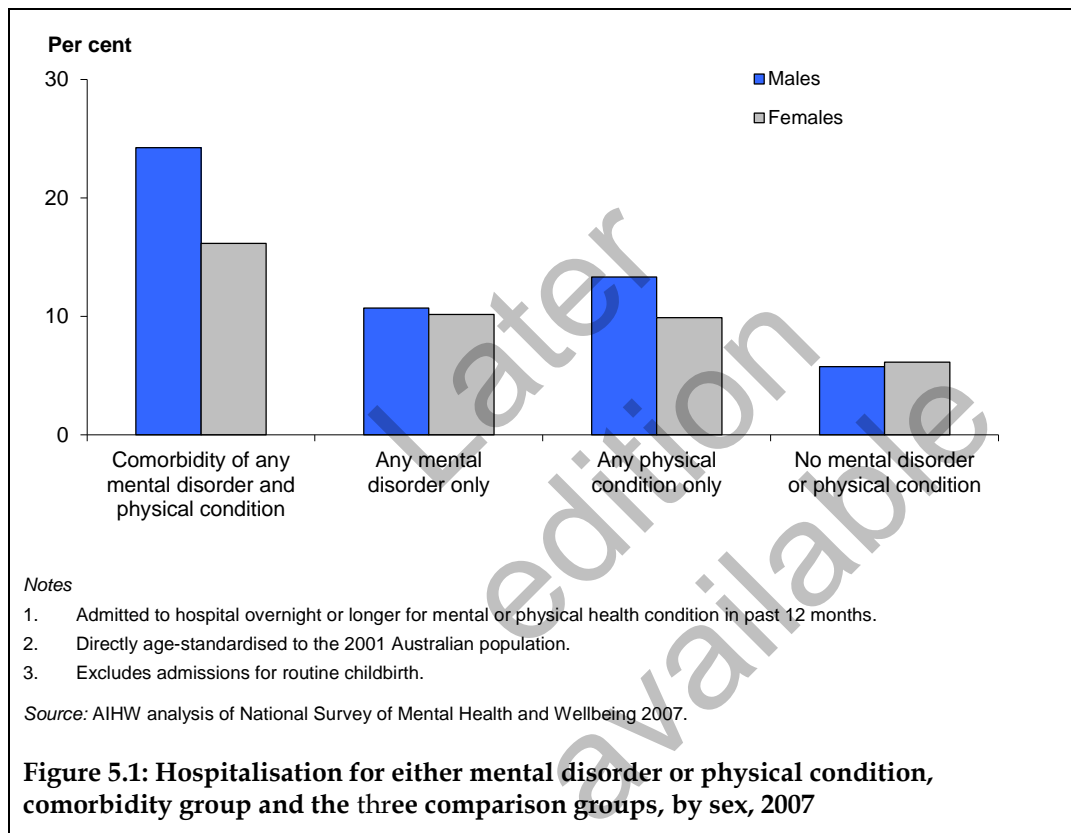
Levels of sedentary activity vary little among females across all four groups. The male rate is more variable, with the prevalence highest in the 'any mental disorder only' group (Figure 4.4, Table A20).



5 Comorbidity and health service use

Hospitalisations

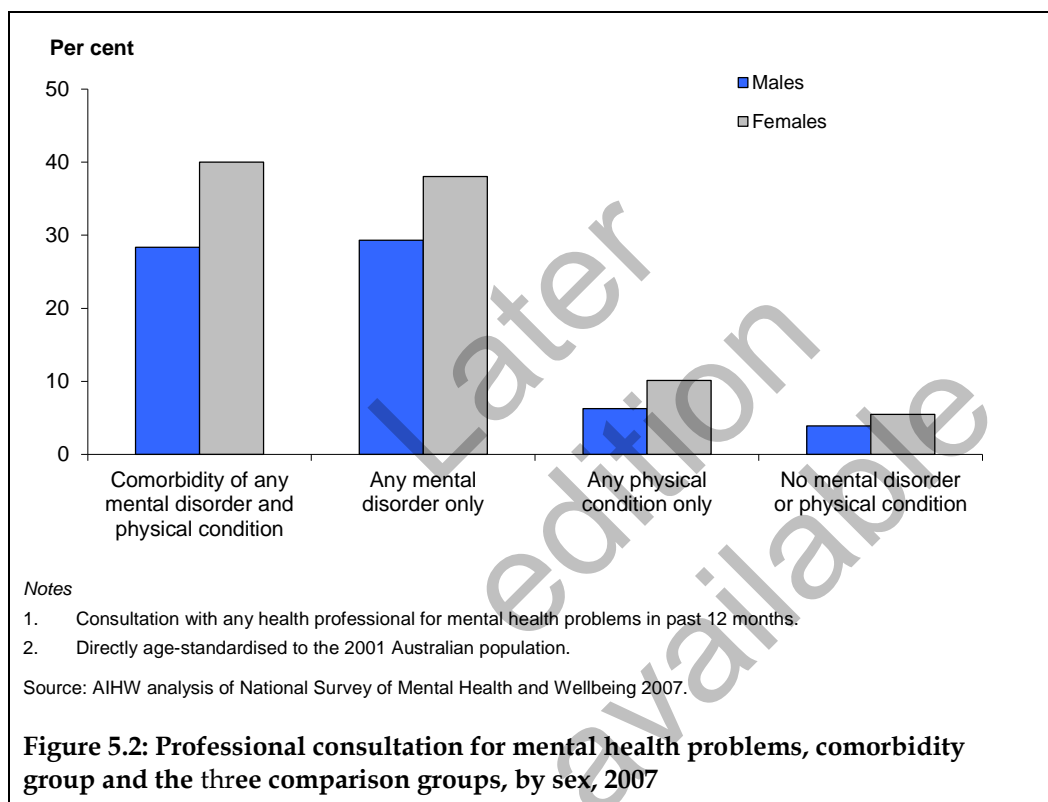
People with a 'comorbidity of any mental disorder and physical condition' had higher rates of hospitalisation than the three comparison groups (note that hospitalisation is for either a mental disorder and/or physical condition) (Figure 5.1). This difference is significant for both sexes compared with the two groups without a mental disorder, and for males compared with the 'any mental disorder only' group (Table A21).



Professional consultations

The proportion of people consulting a health professional for a mental health disorder was much higher in the comorbidity group and the 'any mental disorder only' group than the other comparison groups (Figure 5.2, Table A22). The presence of a physical condition in addition to having a mental disorder did not significantly increase the rate of consulting a professional for a mental health problem. A higher proportion of females consulted a health professional than males in all four population groups.

Perhaps surprisingly, nearly 800,000 people without a diagnosed mental disorder consulted a health professional for a mental health problem in the 12 months prior to the survey.



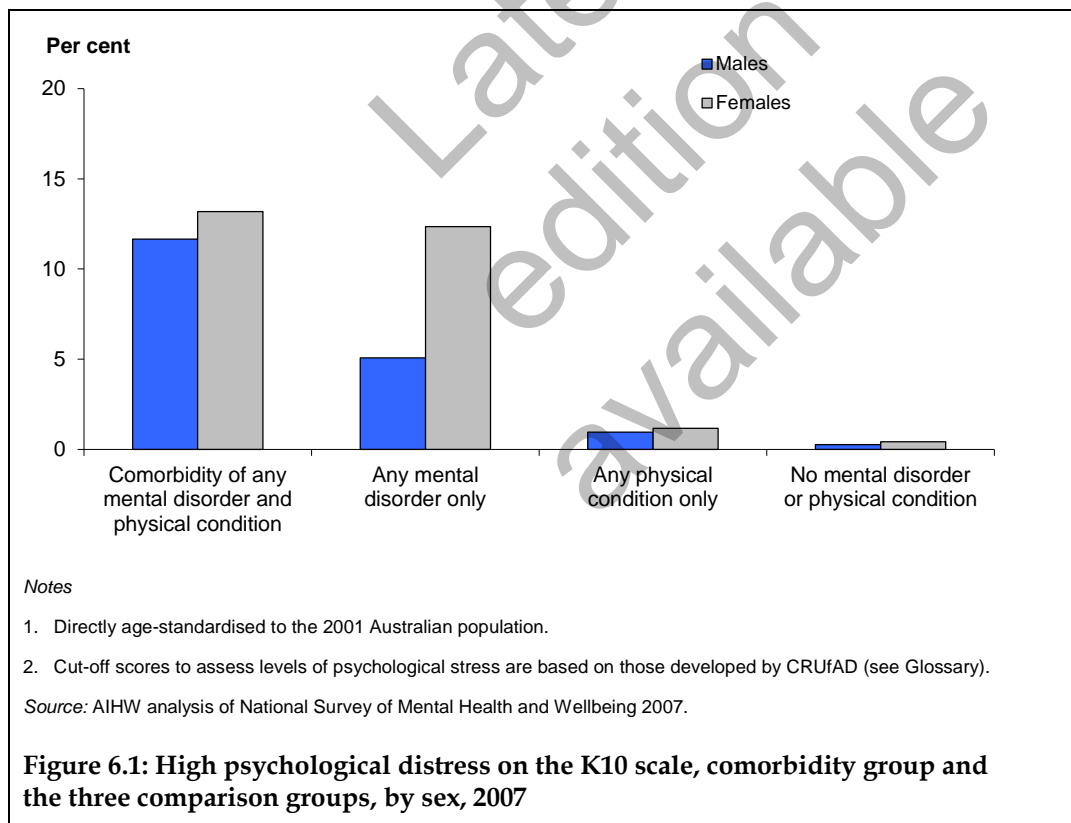
6 Comorbidity and quality of life

The results presented in this section use three measures of 'quality of life', and indicate that comorbidity of mental disorder and physical condition is associated with generally poorer quality of life.

The Kessler Psychological Distress Scale

The Kessler Psychological Distress Scale (K10) is a 10-item questionnaire intended to yield a global measure of psychological distress, based on questions about anxiety and depressive symptoms that a person has experienced in the most recent 4 week period. A higher score represents more psychological distress. In this analysis, high psychological distress was taken as a score of 30 or higher (out of a maximum score of 50).

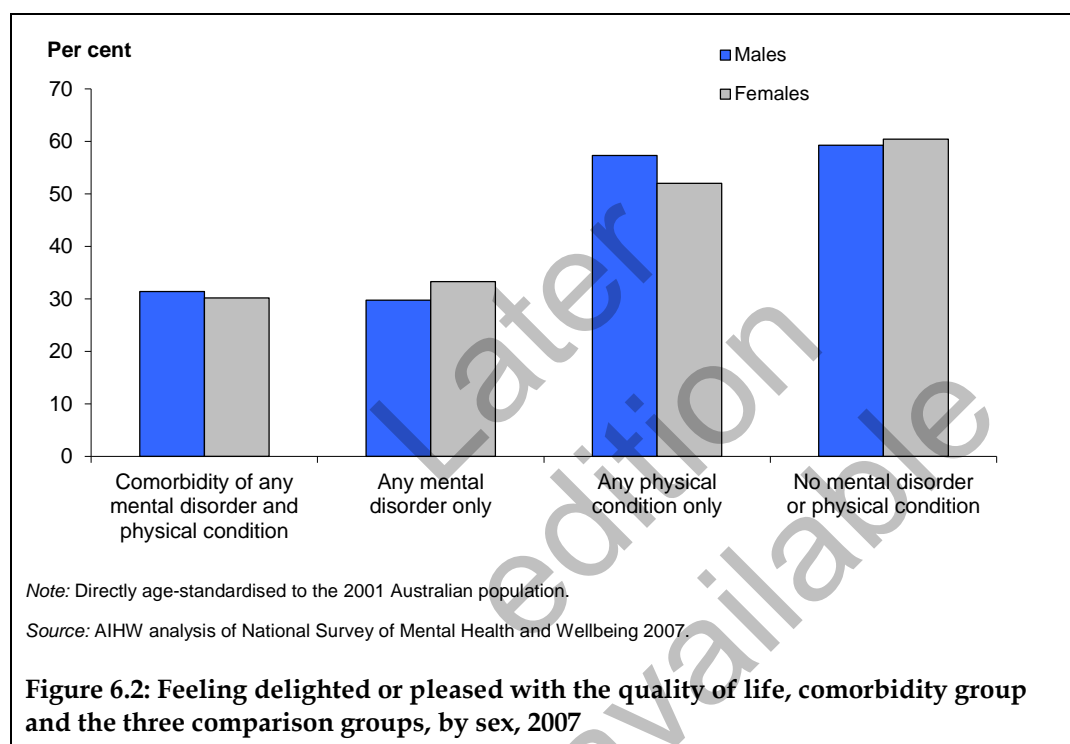
Not surprisingly, the comorbidity group and the 'any mental disorder only' group had the highest prevalence of high K10 scores (Figure 6.1, Table A23). Females had higher prevalence of high psychological distress than males across all four population groups, with more than twice the rate in the 'any mental disorder only' group.



Delighted–terrible scale

The delighted–terrible scale is a single-question indicator of quality of life, using the following categories: delighted, pleased, mostly satisfied, mixed, mostly dissatisfied, unhappy, terrible. In this analysis, the first two categories are grouped and reported as ‘prevalence of feeling delighted or pleased’.

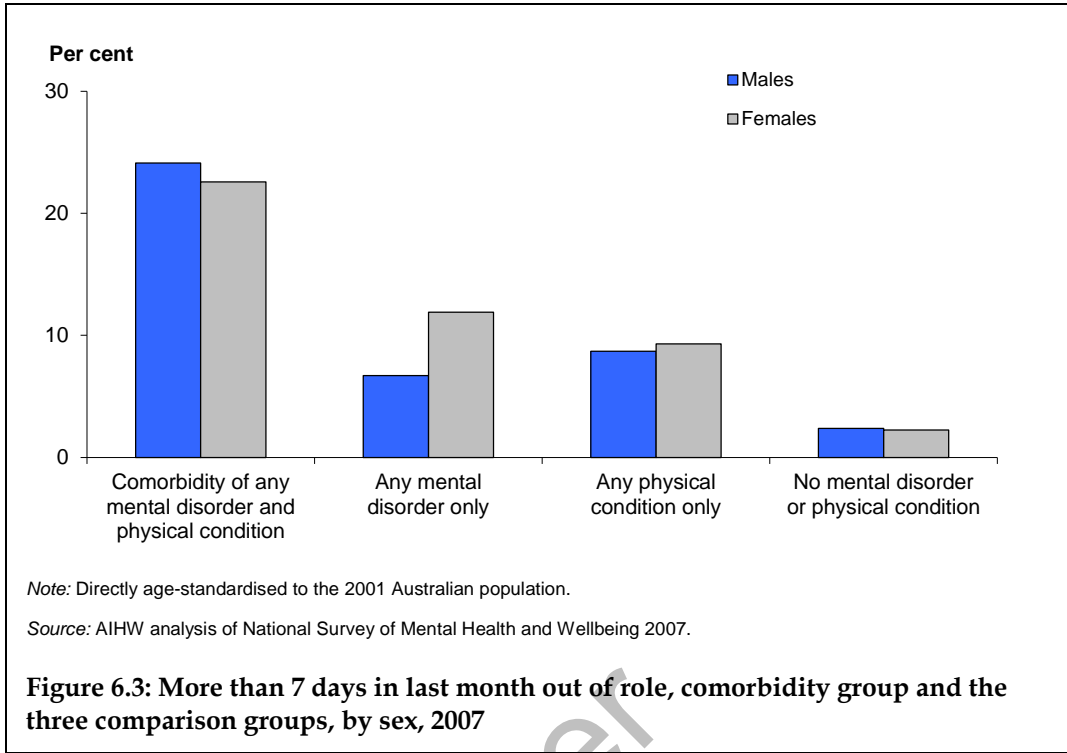
People with a mental disorder were only about half as likely to be ‘delighted’ or ‘pleased’ as people without a mental disorder (Figure 6.2, Table A24). Having a physical condition, either in addition to the mental disorder or by itself, had a much smaller influence on their perception of quality of life. This finding is consistent for both males and females.



Days out of role

The ‘days out of role’ measure is a proxy for how well a person is functioning – that is the extent to which health problems interfered with their life and activities during the 30 days prior to the survey. People were asked to nominate how many days they were totally unable to work or carry out their normal activities because of their health, and the number of days they had to cut down on what was done or did not get as much done as usual because of their health. The number of ‘days out of role’ was derived as the number of days totally unable to function plus half the number of days of reduced functioning. This analysis presents the prevalence of more than 7 days ‘out of role’.

People with comorbidity were around twice as likely as people without comorbidity to have more than 7 out of the past 30 days ‘out of role’ (Figure 6.3, Table A25). Conversely, people with no mental or physical condition were less likely to have 7 or more days ‘out of role’.



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Appendix A Additional and supporting data

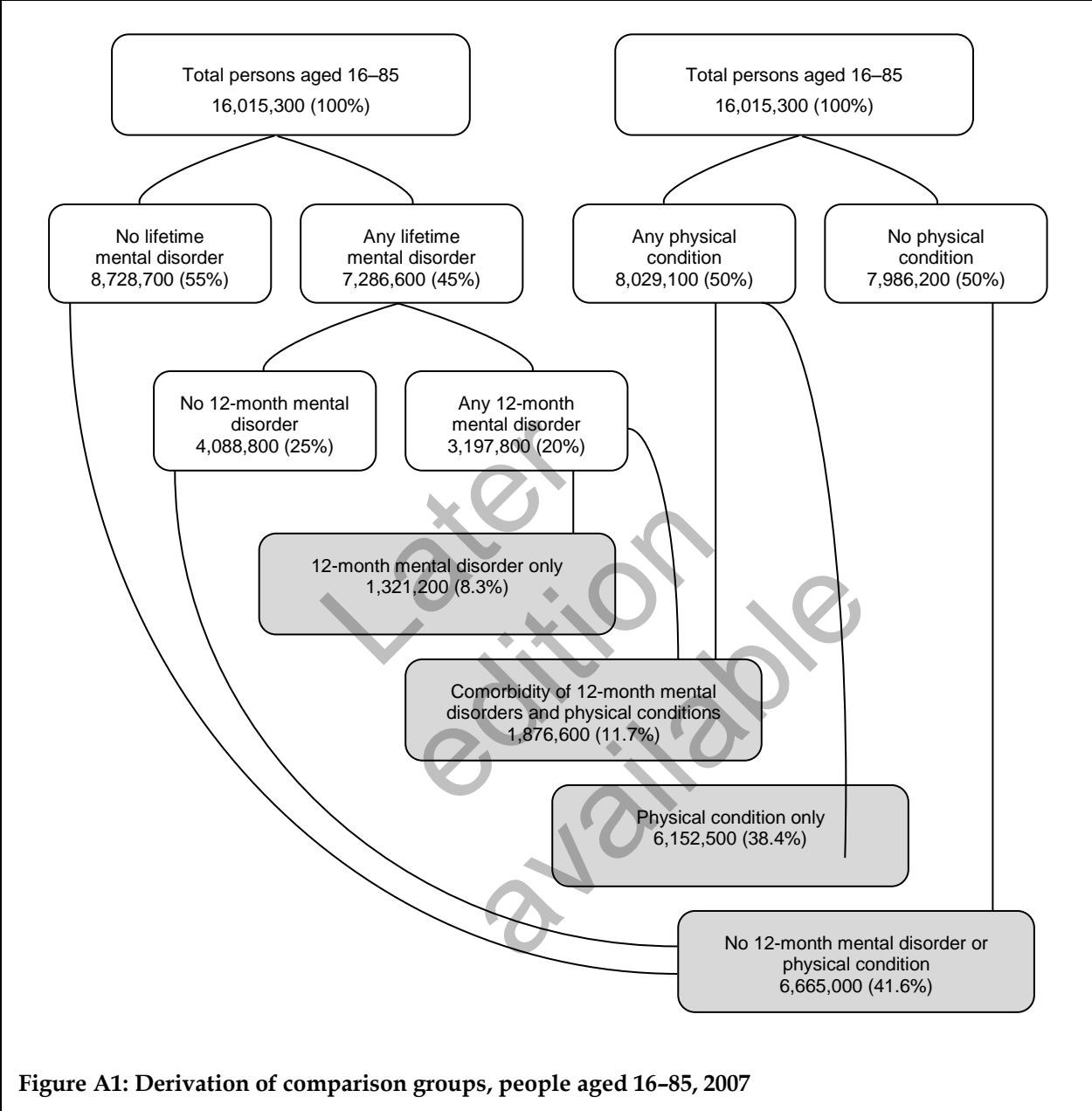


Table A1: Prevalence of selected comorbidities, by sex and age group, 2007 (per cent)

Comorbidity	Sex	16–24	25–34	35–44	45–54	55–64	65–85
Anxiety disorder, any physical condition	Males	2.4	5.0	7.6	7.4	7.6	3.9
	Females	9.5	11.5	14.9	17.6	11.6	5.3
	Persons	5.9	8.2	11.3	12.6	9.6	4.7
Affective disorder, any physical condition	Males	1.8	4.5	4.8	3.5	2.0	1.3
	Females	4.3	5.9	5.2	5.9	5.0	2.8
	Persons	3.0	5.2	5.0	4.7	3.5	2.1
Substance use disorder, any physical condition	Males	5.0	5.0	4.4	1.5	1.4	1.3
	Females	4.4	2.1	1.3	2.8	0.4	0.0
	Persons	4.7	3.6	2.8	2.1	0.9	0.6
Any mental disorder and asthma	Males	2.5	2.4	2.0	1.2	1.1	1.0
	Females	4.8	3.6	3.9	3.2	2.4	0.9
	Persons	3.6	3.0	3.0	2.3	1.7	1.0
Any mental disorder and cancer	Males	0.0	0.1	0.4	0.6	1.3	0.8
	Females	0.0	0.8	0.7	1.0	0.6	0.6
	Persons	0.0	0.4	0.6	0.8	1.0	0.7
Any mental disorder and stroke	Males	0.0	0.1	0.3	0.0	0.1	0.5
	Females	0.0	0.0	0.0	0.5	0.6	0.1
	Persons	0.0	0.1	0.1	0.2	0.3	0.3
Any mental disorder and heart problem	Males	0.1	0.3	1.2	3.3	5.4	3.1
	Females	0.3	1.4	2.3	3.6	4.8	4.6
	Persons	0.2	0.8	1.7	3.4	5.1	3.8
Any mental disorder and arthritis, rheumatism or gout	Males	0.0	1.1	2.0	3.0	3.3	2.5
	Females	0.8	1.0	2.8	6.2	6.7	5.1
	Persons	0.4	1.0	2.4	4.6	5.0	3.9
Any mental disorder and diabetes	Males	0.1	0.0	0.3	1.1	2.4	0.7
	Females	0.4	0.7	1.0	1.6	0.9	1.5
	Persons	0.3	0.3	0.6	1.3	1.7	1.1

Source: AIHW analysis of National Survey of Mental Health and Wellbeing, 2007.

Table A2: Number and proportion in the most disadvantaged socioeconomic quintile, by population group, 2007

Population group	Males			Females			Persons		
	'000	%	CI	'000	%	CI	'000	%	CI
Comorbidity of any mental and physical condition	128	9.7	6.4, 13.1	248	18.1	13.1, 23.1	376	13.9	10.9, 16.9
Any mental disorder only	102	8.4	5.6, 11.2	94	7.5	4.8, 10.1	197	7.9	6.0, 9.8
Any physical condition only	468	35.3	28.7, 41.9	537	37.8	31.7, 43.8	1,006	36.6	32.0, 41.2
No mental disorder or physical condition	607	46.6	38.6, 54.6	492	36.7	30.8, 42.6	1,099	41.6	36.6, 46.7

Notes

1. SES based on SEIFA Index of Relative Socio-Economic Disadvantage at Census collection district level, not population weighted.
2. Proportions (%) have been directly age-standardised to the 2001 Australian population.

Source: AIHW analysis of National Survey of Mental Health and Wellbeing, 2007.

Table A3: Number and proportion in the second most disadvantaged socioeconomic quintile, by population group, 2007

Population group	Males			Females			Persons		
	'000	%	CI	'000	%	CI	'000	%	CI
Comorbidity of any mental and physical condition	156	11.2	7.5, 14.9	206	13.9	10.0, 17.8	362	12.5	9.9, 15.1
Any mental disorder only	138	9.6	6.3, 12.9	117	8.6	6.1, 11.2	255	9.1	7.0, 11.1
Any physical condition only	543	35.6	29.4, 41.8	646	40.7	35.1, 46.3	1,189	38.2	34.0, 42.5
No mental disorder or physical condition	614	43.6	37, 50.2	540	36.8	31.2, 42.4	1,154	40.2	35.7, 44.8

Notes

1. SES based on the SEIFA Index of Relative Socio-Economic Disadvantage at Census collection district level, not population weighted.
2. Directly age-standardised to the 2001 Australian population.

Source: AIHW analysis of National Survey of Mental Health and Wellbeing, 2007.

Table A4: Number and proportion in the third most disadvantaged socioeconomic quintile, by population group, 2007

Population group	Males			Females			Persons		
	'000	%	CI	'000	%	CI	'000	%	CI
Comorbidity of any mental and physical condition	148	9.3	5.7, 12.9	257	16.1	12.4, 19.8	405	12.6	10.0, 15.1
Any mental disorder only	151	10.0	6.4, 13.6	128	8.3	6.2, 10.5	280	9.1	7.0, 11.2
Any physical condition only	644	38.8	31.3, 46.3	596	36.7	31.2, 42.1	1,240	37.8	33.1, 42.6
No mental disorder or physical condition	665	41.9	35.8, 48	618	38.9	33.4, 44.4	1,284	40.5	36.4, 44.5

Notes

1. SES based on the SEIFA Index of Relative Socio-Economic Disadvantage at Census collection district level, not population weighted.
2. Directly age-standardised to the 2001 Australian population.

Source: AIHW analysis of National Survey of Mental Health and Wellbeing, 2007.

Table A5: Number and proportion in the second least disadvantaged socioeconomic quintile, by population group, 2007

Population group	Males			Females			Persons		
	'000	%	CI	'000	%	CI	'000	%	CI
Comorbidity of any mental and physical condition	163	8.8	6.4, 11.1	267	16.0	12.7, 19.4	429	12.2	10.2, 14.3
Any mental disorder only	162	9.3	5.6, 12.9	147	8.7	6.5, 11.0	309	8.8	6.7, 10.9
Any physical condition only	612	34.1	28.7, 39.6	633	38.4	33.0, 43.8	1,245	36.2	32.2, 40.1
No mental disorder or physical condition	872	47.8	39.9, 55.7	632	36.8	31.2, 42.5	1,504	42.8	37.8, 47.8

Notes

1. SES based on the SEIFA Index of Relative Socio-Economic Disadvantage at Census collection district level, not population weighted.
2. Directly age-standardised to the 2001 Australian population.

Source: AIHW analysis of National Survey of Mental Health and Wellbeing, 2007.

Table A6: Number and proportion in the least disadvantaged socioeconomic quintile, by population group, 2007

Population group	Males			Females			Persons		
	'000	%	CI	'000	%	CI	'000	%	CI
Comorbidity of any mental and physical condition	110	6.5	4.3, 8.8	193	10.7	8.1, 13.2	303	8.5	6.8, 10.1
Any mental disorder only	143	7.7	5.1, 10.3	138	8.0	5.1, 10.8	280	7.7	5.8, 9.6
Any physical condition only	608	35.0	29.7, 40.2	865	43.4	37.9, 48.9	1,473	39.7	35.8, 43.5
No mental disorder or physical condition	917	50.8	42.9, 58.8	707	38.0	32.8, 43.1	1,624	44.2	39.4, 49.1

Notes

1. SES based on the SEIFA Index of Relative Socio-Economic Disadvantage at Census collection district level, not population weighted.
2. Directly age-standardised to the 2001 Australian population.

Source: AIHW analysis of National Survey of Mental Health and Wellbeing, 2007.

Table A7: Number and proportion in major urban areas, by population group, 2007

Population group	Males			Females			Persons		
	'000	%	CI	'000	%	CI	'000	%	CI
Comorbidity of any mental and physical condition	460	8.6	7.0, 10.2	761	14.5	12.6, 16.5	1,221	11.6	10.2, 12.9
Any mental disorder only	497	9.3	7.4, 11.2	442	8.2	6.9, 9.6	939	8.8	7.6, 9.9
Any physical condition only	1,810	34.7	31.7, 37.6	2,122	39.8	36.9, 42.8	3,932	37.3	35.2, 39.4
No mental disorder or physical condition	2,517	47.5	43.8, 51.1	2,004	37.4	34.7, 40.1	4,521	42.4	40.1, 44.7

Note: Rates have been age-standardised to the Australian population at 30 June 2001.

Source: AIHW analysis of National Survey of Mental Health and Wellbeing, 2007.

Table A8: Number and proportion in other urban areas, by population group, 2007

Population group	Males			Females			Persons		
	'000	%	CI	'000	%	CI	'000	%	CI
Comorbidity of any mental and physical condition	161	9.3	6.6, 12.1	253	14.5	10.9, 18.0	415	12.0	9.6, 14.3
Any mental disorder only	122	7.6	5.4, 9.7	121	8.2	5.7, 10.6	243	7.8	6.2, 9.3
Any physical condition only	631	36.3	30.2, 42.3	738	40.0	34.8, 45.1	1,370	38.1	33.9, 42.4
No mental disorder or physical condition	775	46.9	40.5, 53.2	618	37.4	31.8, 42.9	1,393	42.2	37.9, 46.4

Note: Rates have been age-standardised to the Australian population at 30 June 2001.

Source: AIHW analysis of National Survey of Mental Health and Wellbeing, 2007.

Table A9: Number and proportion in non-urban areas, by population group, 2007

Population group	Males			Females			Persons		
	'000	%	CI	'000	%	CI	'000	%	CI
Comorbidity of any mental and physical condition	85	9.7	5.2, 14.3	156	15.7	10.7, 20.7	241	12.8	9.4, 16.3
Any mental disorder only	77	10.0	5.4, 14.6	61	8.0	4.9, 11.1	139	8.7	6.0, 11.4
Any physical condition only	434	37.7	28.8, 46.5	417	38.6	32.1, 45.1	851	37.9	32.5, 43.3
No mental disorder or physical condition	383	42.6	34.9, 50.3	368	37.7	29.9, 45.4	751	40.6	34.7, 46.4

Notes

1. Non urban includes bounded locality, rural balance and migratory.

2. Directly age-standardised to the 2001 Australian population.

Source: AIHW analysis of National Survey of Mental Health and Wellbeing, 2007.

Table A10: Number and proportion born in Australia, by population group, 2007

Population group	Males			Females			Persons		
	'000	%	CI	'000	%	CI	'000	%	CI
Comorbidity of any mental and physical condition	566	9.8	8.2, 11.4	904	15.6	13.6, 17.6	1,470	12.7	11.4, 14.0
Any mental disorder only	561	9.4	7.8, 11.1	510	8.9	7.5, 10.2	1,071	9.1	8.1, 10.2
Any physical condition only	2,068	36.9	33.9, 39.9	2,366	39.6	37.1, 42.2	4,434	38.3	36.3, 40.2
No mental disorder or physical condition	2,587	43.9	40.6, 47.2	2,108	35.9	33.1, 38.7	4,695	39.9	37.7, 42.1

Note: Rates have been age-standardised to the Australian population at 30 June 2001.

Source: AIHW analysis of National Survey of Mental Health and Wellbeing, 2007.

Table A11: Number and proportion born in main English-speaking countries, by population group, 2007

Population group	Males			Females			Persons		
	'000	%	CI	'000	%	CI	'000	%	CI
Comorbidity of any mental and physical condition	81	7.8	5.8, 13.7	109	14.0	9.6, 18.5	189	10.5	7.8, 13.2
Any mental disorder only	97	12.8	5.8, 19.7	53	7.9	4.9, 10.9	150	10.5	6.7, 14.3
Any physical condition only	425	36.3	28.5, 44.1	385	43.3	35, 51.7	810	40.0	34.3, 45.7
No mental disorder or physical condition	395	43.1	33.6, 52.6	268	34.7	27.5, 42.0	663	39.0	33.1, 44.9

Notes

1. Main English speaking countries are Canada, Ireland, New Zealand, South Africa, UK and USA.
2. Directly age-standardised to the 2001 Australian population.

Source: AIHW analysis of National Survey of Mental Health and Wellbeing, 2007.

Table A12: Number and proportion of overseas born people (excluding those from main English-speaking countries), by population group, 2007

Population group	Males			Females			Persons		
	'000	%	CI	'000	%	CI	'000	%	CI
Comorbidity of any mental and physical condition	59	4.3	2.5, 6.1	159	11.1	7.7, 14.6	217	8.1	6.0, 10.2
Any mental disorder only	38	3.5	1.6, 5.4	62	5.0	2.7, 7.2	100	4.2	2.8, 5.7
Any physical condition only	382	29.5	23.2, 35.7	526	37.9	30.6, 45.2	909	33.9	29, 38.8
No mental disorder or physical condition	694	62.7	51.7, 73.7	614	46.0	39.8, 52.3	1,308	53.8	47.7, 59.9

Notes

1. Main English speaking countries are Canada, Ireland, New Zealand, South Africa, UK and USA.
2. Directly age-standardised to the 2001 Australian population.

Source: AIHW analysis of National Survey of Mental Health and Wellbeing, 2007.

Table A13: Number and proportion employed, by population group, 2007

Population group	Males			Females			Persons		
	'000	%	CI	'000	%	CI	'000	%	CI
Comorbidity of any mental and physical condition	484	9.2	7.1, 11.3	648	12.1	10.4, 13.9	1,132	10.7	9.2, 12.1
Any mental disorder only	562	8.8	7.2, 10.4	423	7.8	6.6, 9.1	985	8.3	7.3, 9.3
Any physical condition only	1,756	35.1	30.8, 39.5	1,662	39.3	34.7, 43.9	3,418	36.8	33.7, 39.9
No mental disorder or physical condition	2,846	46.9	43.4, 50.3	2,067	40.7	37.1, 44.4	4,913	44.3	41.7, 46.8

Note: Rates have been age-standardised to the Australian population at 30 June 2001.

Source: AIHW analysis of National Survey of Mental Health and Wellbeing, 2007.

Table A14: Number and proportion unemployed, by population group, 2007

Population group	Males			Females			Persons		
	'000	%	CI	'000	%	CI	'000	%	CI
Comorbidity of any mental and physical condition	21	11.0	2.5, 19.4	41	20.2	8.1, 32.3	61	15.4	7.6, 23.2
Any mental disorder only	40	12.7	5.5, 19.9	20	6.8	1.8, 11.7	60	10.4	5.6, 15.2
Any physical condition only	39	22.2	4.9, 39.5	42	31.3	13.5, 49.1	81	28.9	13.7, 44.1
No mental disorder or physical condition	137	43.9	25.0, 62.8	74	29.4	16.7, 42.1	211	37.5	24.3, 50.8

Note: Rates have been age-standardised to the Australian population at 30 June 2001.

Source: AIHW analysis of National Survey of Mental Health and Wellbeing, 2007.

Table A15: Number and proportion not in the labour force, by population group, 2007

Population group	Males			Females			Persons		
	'000	%	CI	'000	%	CI	'000	%	CI
Comorbidity of any mental and physical condition	201	14.6	8.7, 20.6	482	19.5	15.1, 23.8	683	18.0	14.5, 21.5
Any mental disorder only	94	9.1	5.3, 12.8	182	9.1	6.8, 11.4	276	8.8	6.9, 10.6
Any physical condition only	1,080	38.9	27.2, 50.6	1,573	39.2	34.4, 44.0	2,653	38.8	34.0, 43.6
No mental disorder or physical condition	693	37.4	27.6, 47.2	849	32.3	28.6, 35.9	1,541	34.4	30.6, 38.2

Note: Rates have been age-standardised to the Australian population at 30 June 2001.

Source: AIHW analysis of National Survey of Mental Health and Wellbeing, 2007.

Table A16: Number and proportion of smokers, by population group, 2007

Population group	Males			Females			Persons		
	'000	%	CI	'000	%	CI	'000	%	CI
Comorbidity of any mental and physical condition	292	39.5	30.6, 48.3	396	32.1	26.0, 38.2	688	34.9	29.8, 40.1
Any mental disorder only	262	34.5	25.9, 43.1	207	27.9	20.5, 35.2	469	30.6	25.3, 36.0
Any physical condition only	552	22.3	17.7, 26.9	460	16.6	13.7, 19.5	1,012	19.0	16.5, 21.5
No mental disorder or physical condition	886	23.3	20.0, 26.5	512	17.1	14.0, 20.2	1,398	20.6	18.2, 23.0

Note: Rates have been age-standardised to the Australian population at 30 June 2001.

Source: AIHW analysis of National Survey of Mental Health and Wellbeing, 2007.

Table A17: Number and proportion with risky alcohol behaviour, by population group, 2007

Population group	Males			Females			Persons		
	'000	%	CI	'000	%	CI	'000	%	CI
Comorbidity of any mental and physical condition	124	16.4	10.1, 22.6	120	10.0	6.4, 13.6	245	13.0	9.4, 16.5
Any mental disorder only	67	10.7	5.7, 15.7	51	11.0	5.1, 16.9	117	10.9	7.1, 14.8
Any physical condition only	245	6.9	5.0, 8.8	238	5.7	4.3, 7.1	483	6.2	5.1, 7.4
No mental disorder or physical condition	199	5.9	4.1, 7.7	172	6.1	4.3, 7.9	371	6.1	4.7, 7.4

Notes

1. 'Risky alcohol behaviour' defined as drinking nearly every day and women usually consuming at least 2 drinks and men at least 4 drinks on the days that they drink.
2. Directly age-standardised to the 2001 Australian population.

Source: AIHW analysis of National Survey of Mental Health and Wellbeing 2007.

Table A18: Number and proportion overweight, by population group, 2007

Population group	Males			Females			Persons		
	'000	%	CI	'000	%	CI	'000	%	CI
Comorbidity of any mental and physical condition	268	39.1	29.7, 48.4	290	25.9	21.3, 30.6	558	30.9	26.3, 35.5
Any mental disorder only	242	33.7	23.6, 43.8	150	25.7	16.0, 35.3	392	30.8	23.4, 38.1
Any physical condition only	1,343	44.8	38.5, 51.2	942	26.2	23.1, 29.4	2,285	34.8	31.5, 38.1
No mental disorder or physical condition	1,573	44.1	39.4, 48.9	645	23.0	20.0, 26.0	2,218	34.8	31.9, 37.7

Notes

1. 'Overweight' defined as having a body mass index between 25 and 30.
2. Directly age-standardised to the 2001 Australian population.

Source: AIHW analysis of National Survey of Mental Health and Wellbeing 2007.

Table A19: Number and proportion obese, by population group, 2007

Population group	Males			Females			Persons		
	'000	%	CI	'000	%	CI	'000	%	CI
Comorbidity of any mental and physical condition	180	23.7	16.2, 31.2	322	25.7	20.7, 30.6	502	24.8	20.7, 28.9
Any mental disorder only	98	13.8	8.4, 19.3	84	18.6	10.5, 26.8	182	17.3	11.8, 22.9
Any physical condition only	633	20.7	17.2, 24.1	877	25.1	21.5, 28.6	1,510	23.0	20.6, 25.5
No mental disorder or physical condition	594	16.8	14.1, 19.6	434	14.7	11.6, 17.8	1,028	15.8	13.8, 17.8

Notes

1. 'Obese' defined as having a body mass index greater than 30.
2. Directly age-standardised to the 2001 Australian population.

Source: AIHW analysis of National Survey of Mental Health and Wellbeing, 2007.

Table A20: Number and proportion sedentary, by population group, 2007

Population group	Males			Females			Persons		
	'000	%	CI	'000	%	CI	'000	%	CI
Comorbidity of any mental and physical condition	127	17.8	11.1, 24.6	233	20.4	15.8, 25.1	359	19.4	15.5, 23.4
Any mental disorder only	165	26.4	16.2, 36.6	100	18.7	9.9, 26.8	265	22.4	16.4, 28.4
Any physical condition only	612	19.7	16.2, 23.2	713	19.7	16.7, 22.7	1,326	19.7	17.4, 22.0
No mental disorder or physical condition	591	16.8	14.1, 19.6	438	15.3	12.9, 17.8	1,029	16.0	14.2, 17.8

Notes

1. 'Sedentary' defined as having no or a very low level of exercise.
2. Directly age-standardised to the 2001 Australian population.

Source: AIHW analysis of National Survey of Mental Health and Wellbeing, 2007.

Table A21: Number and proportion admitted to hospital overnight, by population group, 2007

Population group	Males			Females			Persons		
	'000	%	CI	'000	%	CI	'000	%	CI
Comorbidity of any mental and physical condition	170	24.2	16.2, 32.3	169	16.2	12.4, 19.9	339	19.1	15.3, 22.8
Any mental disorder only	101	10.7	5.4, 16.0	43	10.2	3.0, 17.3	145	11.5	6.2, 16.8
Any physical condition only	446	13.3	10.7, 15.9	378	9.9	8.1, 11.7	824	11.5	9.9, 13.0
No mental disorder or physical condition	187	5.8	4.1, 7.4	168	6.1	4.4, 7.9	355	5.9	4.7, 7.1

Notes

1. Admitted to hospital overnight or longer for physical or mental health condition in past 12 months.
2. Directly age-standardised to the 2001 Australian population.
3. Excludes routing childbirth.

Source: AIHW analysis of National Survey of Mental Health and Wellbeing, 2007.

Table A22: Number and proportion consulting a health professional for mental health, by population group, 2007

Population group	Males			Females			Persons		
	'000	%	CI	'000	%	CI	'000	%	CI
Comorbidity of any mental and physical condition	208	28.4	20.9, 35.8	486	40.0	34.0, 46.0	694	35.6	31.0, 40.3
Any mental disorder only	175	29.3	16.7, 41.9	237	38.0	28.8, 47.3	412	33.8	25.6, 41.9
Any physical condition only	171	6.3	3.1, 9.4	291	10.1	7.8, 12.5	462	8.2	6.4, 10.1
No mental disorder or physical condition	143	3.9	2.7, 5.1	175	5.5	4.2, 6.7	318	4.6	3.8, 5.5

Notes

1. Consultation with any professional for mental health in past 12 months.
2. Directly age-standardised to the 2001 Australian population.

Source: AIHW analysis of National Survey of Mental Health and Wellbeing, 2007.

Table A23: Number and proportion with high psychological distress, by population group, 2007

Population group	Males			Females			Persons		
	'000	%	CI	'000	%	CI	'000	%	CI
Comorbidity of any mental and physical condition	82	11.7	5.3, 18.0	149	13.2	8.2, 18.1	231	12.4	8.3, 16.5
Any mental disorder only	37	5.1	0.2, 9.9	58	12.3	4.3, 20.4	95	8.9	3.1, 14.7
Any physical condition only	31	1.0	0.0, 2.2	33	1.2	0.1, 2.2	64	1.1	0.3, 1.9
No mental disorder or physical condition	9	0.3	0.0, 0.7	10	0.4	0.0, 1.0	19	0.3	0.0, 0.7

Notes

1. Kessler 10 score of 30 or higher (see CRUfAD in Glossary).
2. Directly age-standardised to the 2001 Australian population.

Source: AIHW analysis of National Survey of Mental Health and Wellbeing, 2007.

Table A24: Number and proportion delighted or pleased, by population group, 2007

Population group	Males			Females			Persons		
	'000	%	CI	'000	%	CI	'000	%	CI
Comorbidity of any mental and physical condition	221	31.4	23.4, 39.5	350	30.2	24.9, 35.6	570	30.8	26.1, 35.6
Any mental disorder only	254	29.8	20.1, 39.4	256	33.3	25.2, 41.3	510	32.5	25.6, 39.5
Any physical condition only	1,524	57.3	50.4, 64.2	1,533	52.0	47.0, 57.0	3,057	54.6	50.6, 58.7
No mental disorder or physical condition	2,215	59.3	54.5, 64.0	1,853	60.4	55.3, 65.6	4,068	59.9	56.4, 63.4

Notes

1. Quality of life measured on the delighted-terrible scale.
2. Directly age-standardised to the 2001 Australian population.

Source: AIHW analysis of National Survey of Mental Health and Wellbeing, 2007.

Table A25: Number and proportion with more than 7 days out of role, by population group, 2007

Population group	Males			Females			Persons		
	'000	%	CI	'000	%	CI	'000	%	CI
Comorbidity of any mental and physical condition	173	24.1	16.0, 32.3	263	22.6	16.3, 28.8	436	23.2	18.0, 28.4
Any mental disorder only	56	6.7	1.5, 11.9	67	11.9	5.7, 18.1	123	9.2	4.8, 13.6
Any physical condition only	279	8.7	5.4, 12.0	341	9.3	6.7, 11.9	621	9.1	7.1, 11.1
No mental disorder or physical condition	87	2.4	1.2, 3.6	66	2.2	0.9, 3.6	153	2.3	1.4, 3.3

Notes

1. More than 7 days out of past 30 days.
2. Directly age-standardised to the 2001 Australian population.

Source: AIHW analysis of National Survey of Mental Health and Wellbeing, 2007.

Appendix B Data sources and methods

National Survey of Mental Health and Wellbeing 2007

Scope

The survey was conducted throughout Australia from August to December 2007. The scope of the survey was people aged 16–85, who were usual residents of private dwellings in Australia, excluding very remote areas.

Mental disorders

The survey collected information on selected mental disorders, which were considered to have the highest rates of prevalence in the community and which were able to be identified in an interviewer-based household survey. These mental disorders were:

- *anxiety disorders* (for example obsessive-compulsive disorder)
- *affective (mood) disorders* (for example depression)
- *substance use disorders* (for example alcohol dependence).

Physical conditions

The survey collected information on asthma, cancer, stroke (or the effects of stroke), gout, rheumatism or arthritis, diabetes or high blood sugar levels, and any other heart or circulatory condition. Information was also collected about the presence of the following physical conditions only if they had lasted for six months or more: hay fever, sinusitis or sinus allergy, emphysema, bronchitis, anaemia, epilepsy, fluid problems/fluid retention/oedema (excluding those due to heart or circulatory problems), hernias, kidney problems, migraine, psoriasis, stomach ulcer or other gastrointestinal ulcer, thyroid trouble/goitre, tuberculosis, back or neck pain or back or neck problems. The presence of any other physical conditions was not determined.

Limitations of survey

People living in institutions, nursing homes, prisons and other specialist settings were not included in the survey. These populations may have different patterns of morbidity and comorbidity than those in scope for the survey, but as they make up only a relatively small proportion of the total population aged 16–85, their non-inclusion does not greatly affect the overall prevalence.

The survey did not include modules to determine the prevalence of schizophrenia and other psychotic disorders, somatoform disorders, eating disorders, impulse-control disorders and personality disorders. These disorders have a low prevalence and a likely overlap with other disorders covered in the survey and will not greatly affect overall prevalence.

The response rate of the survey was relatively low (60%) and it is possible that the people who did not participate may have had a higher likelihood of meeting diagnostic criteria for mental disorders. The ABS examined the impact of non-response and determined its impact was minimal at the aggregate level and that the results of the survey are considered representative of the Australian population in terms of standard demographic factors.

Methods

Age standardisation

Statistics are sometimes presented as crude rates; that is, the number of events in a year divided by the size of the corresponding population, indexed to 100 or 100,000. However, the risk of getting various diseases varies greatly with age. This may make comparisons across populations misleading if they have different age structures, and even small age differences may lead to false conclusions. Age-specific comparisons can be made – that is, comparing rates at specific ages – but this can be cumbersome because it requires numerous comparisons.

Variations in age structure, between populations or over time, can be adjusted for by a statistical procedure called age-standardisation. This procedure converts the age structure of the different populations to the same 'standard' structure. Using age-specific rates from the different populations, the overall rates that would then occur with the standard age structure can be calculated and compared. In other words, this allows the different populations to be compared on an equal age basis.

Rates in this report have been directly age-standardised to the Australian population as at 30 June 2001. Both the AIHW and the ABS have agreed to adopt 2001 as the national standard population.

Prevalence ratios

A prevalence ratio is defined as 'prevalence A' divided by 'prevalence B', with the latter termed the 'reference rate'.

For example, in calculating the ratio for reporting on the comorbidity group by socioeconomic status for 'quintile 1':

- 'prevalence A' was the direct age-standardised rate of the comorbidity group with a socioeconomic rating which puts them in quintile 1 (most disadvantaged), while
- 'prevalence B' was the direct age-standardised rate of the comorbidity group with a socioeconomic rating which puts them in quintile 5 (least disadvantaged).

The ratio for the reference group (in the above example quintile 5) is by definition 1.0.

Glossary

Affective (mood) disorders Disorders that involve mood disturbance. Examples include bipolar affective disorder, depressive episode and dysthymia.

Anxiety disorders Disorders that involve feelings of tension, distress or nervousness.

Body mass index (BMI) A measure of body mass, typically used to define overweight and obese. Calculated from reported height and weight information, using the formula weight (kg) divided by the square of height (m). BMI values are grouped according to the World Health Organization and the National Health and Medical Research Council guidelines. Underweight – less than 18.5; normal weight – 18.5 to less than 25.0; overweight – 25.0 to less than 30.0; obese – 30.0 and greater.

Chronic condition A physical condition or disorder that has lasted, or is expected to last for six months or more. May also be referred to as a long-term health condition or chronic disease.

Comorbidity The occurrence of more than one condition/disorder at the same time. In this publication the comorbidity group refers to people with the co-occurrence of a mental disorder and a physical condition.

CRUFAD cut-offs A set of cut-off scores for the K10 developed by the Clinical Research Unit for Anxiety and Depression (CRUFAD), School of Psychiatry, University of New South Wales to determine the prevalence of anxiety or depressive disorders. CRUFAD has found that 78% of the population have a low level of psychological distress and are unlikely to need professional assistance. A further 20% have a medium level and are encouraged to use self-help information and techniques provided through CRUFAD. The 2% of the population with a high level are strongly encouraged to see a doctor. 'Medium' is defined as having a K10 score of 16–29; 'high' is 30–50.

Days out of role A proxy for how well a person is functioning, that is the extent to which health problems interfere with their life and activities during the 30 days prior to the survey. People were asked to nominate how many days they were totally unable to work or carry out their normal activities because of their health, and the number of days they had to cut down on what was done or did not get as much done as usual because of their health. The number of days out of role was derived as the number of days totally unable to function plus half the number of days of reduced functioning.

Delighted-terrible scale This scale is used in assessing quality of life and uses the following categories: delighted, pleased, mostly satisfied, mixed, mostly dissatisfied, unhappy, terrible.

Employed People aged 15 and over who had a job or business, or who undertook work without pay in a family business for a minimum of one hour per week. Includes persons who were absent from a job or business.

Kessler Psychological Distress Scale (K10) This is a 10-item questionnaire intended to yield a global measure of psychological distress based on questions about anxiety and depressive symptoms that a person has experienced in the most recent 4 week period. See also CRUFAD cut-offs.

Labour force status People aged 15 and over who were 'employed', 'unemployed' or 'not in the labour force' as defined.

Level of exercise Based on frequency, intensity (that is walking, moderate exercise or vigorous exercise) and duration of exercise (for recreation, sport or fitness) in the week prior to interview. From these components, an exercise category was determined using factors to represent the intensity of the exercise. Categories were grouped according to the following levels of exercise: 'very low' – less than 100 minutes (including no exercise); 'low' – 100 minutes to less than 1,600 minutes; 'moderate' – 1,600–3,200 minutes, or more than 3,200 minutes but including less than 2 hours of vigorous exercise; 'high' – more than 3,200 minutes including 2 hours or more of vigorous exercise.

Major urban See 'Section of state'.

Mental disorder According to the ICD-10 Classification of Mental and Behavioural Disorders, a disorder implies 'the existence of a clinically recognisable set of symptoms or behaviour associated in most cases with distress and with interference with personal functions' (WHO 1992, p5). Most diagnoses require criteria relating to severity and duration to be met.

Non urban See 'Section of state'.

Not in the labour force People who were not in the categories 'employed' or 'unemployed' as defined.

Other urban See 'Section of state'.

Physical activity Any bodily movement produced by the muscles that results in energy expenditure. Often the health risk factor is expressed as physical *inactivity*, and a common proxy for this is the amount of sedentary time in a day (time spent sitting, etc.).

Physical condition A medical condition, illness, injury or disability including: asthma; cancer; stroke (or the effects of a stroke); gout, rheumatism or arthritis; diabetes or high blood sugar levels; and any other heart or circulatory condition. Information was also collected about the presence of the following physical conditions only if they had lasted for six months or more: hay fever; sinusitis or sinus allergy; emphysema; bronchitis; anaemia; epilepsy; fluid problems/fluid retention/oedema (excluding those due to heart or circulatory problems); hernias; thyroid trouble/goitre; tuberculosis; back or neck pain or back or neck problems. The presence of any other physical conditions was not determined.

Section of state This geographical classification uses population counts to define Census collection districts (CDs) as urban or rural. Major urban has a population of more than 100,000, other urban a population of 1,000–99,999, and bounded locality 200–999. Bounded locality, rural balance (remainder of the state/territory) and migratory areas have been combined and termed non urban in this report.

Smoker status The extent to which a person was smoking at the time of the interview, and refers to the regular smoking of tobacco, including manufacture (packet) cigarettes, roll-your-own cigarettes, cigars and pipes, but excludes chewing tobacco and smoking of non-tobacco products. In this report, current smokers, those who smoke daily or at least weekly, are defined as smokers.

Socioeconomic status The Index of Relative Socio-Economic Disadvantage (IRSD) is one of four Socio-Economic Indexes for Areas (SEIFAs) compiled by the ABS after each Census of Population and Housing, and the index used in this publication. The SEIFAs aim at representing the socioeconomic status of Australian communities and identifying areas of advantage and disadvantage. The IRSD scores each area by summarising attributes of the

population such as low income, low educational attainment, high unemployment, and jobs in relatively unskilled occupations.

Unemployed People aged 15 and over who were not employed during the reference week, and had actively looked for full-time or part-time work at any time in the four weeks up to the end of the reference week and were available for work in the reference week; or were waiting to start a new job within four weeks from the end of the reference week and could have started in the reference week if the job had been available then.

Later
edition
available

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