Women's uptake of Medicare Benefits Schedule mental health items for general practitioners, psychologists and other allied mental health professionals

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epression is particularly prevalent among women.^{1,2} Women with depression may benefit from psychotherapeutic counselling (in addition to or instead of antidepressant medication);³ however, this form of treatment has been unaffordable for many.⁴

Mental health problems differentially affect women with greater socioeconomic stress, who may be least likely to access mental health services under a user-pays scheme.⁵ To improve access to mental health services, in November 2006, Medicare Australia introduced Medicare Benefits Schedule (MBS) items for mental health services under the Better Access Initiative. The Initiative allows patients with a mental health condition to receive up to 12 individual mental health services a year, including consultations with eligible psychologists, social workers and occupational therapists. Rebates for these services are available to patients who have been referred by a psychiatrist (Psychiatrist Assessment and Management Plan), paediatrician or general practitioner (General Practitioner Mental Health Care Plan).6

According to Medicare data, uptake of MBS mental health items has been rapid and substantial. From November 2006 to October 2007, the items accounted for 1209191 services.7 Growth was greater in metropolitan locations compared with rural and remote areas,⁶ and it was thought that initial beneficiaries were largely those already receiving counselling services.5 However, a survey of psychologists showed that 81% of clients seen under the mental health items were new to the practice, and 72% of new clients had not previously seen a psychologist.⁸ The survey also found that 36% of people seen under the Better Access Initiative were aged 25 years or younger, 57% were between 26 and 65 years, and 7% were over 65 years.8

There is otherwise little information about the characteristics of people who use mental health services. Consequently, it is not known whether providing subsidised services addresses inequities in service access.⁵ In this study, we aimed to:

• quantify uptake of mental health items by women participating in the Australian Longitudinal Study on Women's Health (ALSWH),⁹

ABSTRACT

Objective: To quantify women's uptake of Medicare Benefits Schedule mental health items, compare characteristics of women by mental health service use, and investigate the impact on Medicare costs.

Design, setting and participants: Analysis of linked survey data and Medicare records (November 2006 – December 2007) of 14 911 consenting participants of the Australian Longitudinal Study on Women's Health (ALSWH) across three birth cohorts (1921–1926 ["older cohort"], 1946–1951 ["mid-age cohort"], and 1973–1978 ["younger cohort"]). **Main outcome measures:** Uptake of mental health items; 36-Item Short Form Health Survey (SF-36) Mental Health Index scores from ALSWH surveys; and patient (out-of-

pocket) and benefit (government) costs from Medicare data. **Results:** A large proportion of women who reported mental health problems made no mental health claims (on the most recent survey, 88%, 90% and 99% of the younger, midage and older cohorts, respectively). Socioeconomically disadvantaged women were

less likely to use the services. SF-36 Mental Health Index scores among women in the younger and mid-age cohorts were lowest for women who had accessed mental health items or self-reported a recent mental health condition. Mental health items are associated with higher costs to women and government.

Conclusion: Although there has been rapid uptake of mental health items, uptake by women with mental health needs is low and there is potential socioeconomic inequity.

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particularly those who reported mental health problems on one or more surveys; and

• describe and compare characteristics of women who have and have not used the mental health items; and

• investigate the impact of the items on the costs of Medicare services.

METHODS

The study involved analysis of longitudinal data from the ALSWH, a national populationbased study of the health of Australian women born in one of three periods, 1921-1926 ("older cohort"), 1946-1951 ("mid-age cohort"), and 1973-1978 ("younger cohort"). Women were randomly selected from the Medicare database¹⁰ and all cohorts completed the baseline survey in 1996. The first followup survey was conducted for the mid-age cohort in 1998, older cohort in 1999, and younger cohort in 2000. Subsequent followup surveys were conducted on a rotational basis every 3 years. This study includes women who participated in follow-up surveys 4 (S4) in 2005 and 2006 for the older and younger cohorts and survey 5 (S5) in 2007 for

the mid-age cohort, who consented to linkage of their ALSWH survey data with their Medicare records.

At each survey, women were asked whether a doctor had told them they had any of a list of chronic health conditions including depression and anxiety (and postnatal depression among younger women). Health status was measured by the 36-Item Short Form Health Survey (SF-36),¹¹ which includes a Mental Health Index^{11,12} that correlates highly with other measures of depression and anxiety.¹³⁻¹⁵

Survey questions included number of visits to a GP, specialist doctor, optician, dentist, counsellor, or other allied health care provider, admission to hospital in the previous 12 months, and number and type of prescribed medications.¹⁶ Additionally, women were asked about health insurance, smoking, alcohol consumption, weight and height (used to calculate body mass index [BMI]),¹⁷ and physical activity.¹⁰ Sociodemographic data on age, marital status, education and country of birth were collected. Urban, inner regional, outer regional or remote area of residence was classified using the Accessibility/Remoteness Index of Australia.¹⁸



For consenting women, survey and MBS data were linked (January 1996 – December 2007), including claims under the Better Access Initiative (items 80000–80170 [psy-chologists and other allied health professionals] and 2710 [GP Mental Health Care Plan]).

The study was approved by the Human Research Ethics Committee of the University of Newcastle.

Statistical analysis

MBS data were examined to identify claims for rebates for mental health items from November 2006 to December 2007. Within each cohort. MBS data were used to define users and non-users of mental health items and women's self-report of diagnosed mental health problems were used to classify women according to self-report of a mental health condition (depression, anxiety or other mental health condition) on the most recent or any previous survey. Women with mental health item claims were treated as one group in which all were assumed to have a mental health condition (as a condition of referral), regardless of their survey responses. The group of women with no mental health claims was further subdivided into three groups: women with no reported mental health condition; women who reported a mental health condition on their most recent survey; and women who

reported a mental health condition on any but the most recent survey.

We used χ^2 and *t* tests to examine the association between factors measured on the surveys across the four groups, and cell contribution to χ^2 was used to examine effects within different categories.

Generalised mixture models were used to compare changes in SF-36 Mental Health Index scores for women in these different groups over time (and in relation to the introduction of mental health items), after adjusting for sociodemographic factors, including education, smoking, marital status, urban or non-urban area of residence, difficulty managing on income and BMI. Linked data allowed analysis of health service use and costs for each group of women by adding up all costs to government (benefit costs) and all out-of-pocket costs for each year and dividing by the number of women. Costs were adjusted for inflation against the 2007 Australian dollar.

RESULTS

Data were available for 14911 women who consented to linkage of their MBS and survey data — 3869 women in the younger cohort who completed the most recent survey (S4; 43% of the cohort), 6690 women in the midage cohort (S5; 64% of the cohort), and 4352 women in the older cohort (S4; 66% of the cohort). During the study period, 5% of women in the younger cohort, 2% of women in the mid-age cohort, and less than 1% of women in the older cohort had made claims for mental health items. Box 1 shows that the most common items were for a GP Mental Health Care Plan, clinical psychologists and other psychologist services.

Among women who reported depression, anxiety or other mental health condition on the most recent survey, 12% of those in the younger cohort, 10% of the mid-age cohort, and 1% of the older cohort had used mental health items (Box 2).

As few women in the older cohort used the mental health items, their data were not analysed further. Of women in the younger and mid-age cohorts:

• 5% of younger women and 2% of mid-age women had mental health item claims (Group 1);

• 16% of younger women and 15% of midage women had a self-reported recent mental health condition, but no mental health item claims (Group 2);

• 12% of younger women and 17% of midage women had a self-reported past mental health condition, but no mental health item claims (Group 3); and

• 67% of younger women and 65% of midage women had no mental health item claims or self-reported mental health condition (Group 4).

Group comparisons in Box 3 indicate sociodemographic and health differences between these groups of women in the younger cohort. Similar results were seen in the mid-age cohort (data not shown). Women in Group 2 were more likely to visit a GP, specialist or hospital doctor and more likely to report taking medications for "nerves", depression, or to help

2 Use of Medicare Benefits Schedule mental health items by women with recent and past reports of a mental health condition*[†]

	No.	Mental health item	No mental health item
Younger cohort (1973–1978)			
Report of mental health condition on most recent survey	702	81 (12.0%)	621 (88.0%)
Report of mental health condition in a previous survey	504	28 (6.0%)	476 (94.0%)
No report of mental health condition	2663	59 (2.0%)	2604 (98.0%)
Mid-age cohort (1946–1951)			
Report of mental health condition on most recent survey	1130	94 (10.0%)	1036 (90.0%)
Report of mental health condition in a previous survey	1171	18 (2.0%)	1153 (98.0%)
No report of mental health condition	4389	17 (0.5%)	4372 (99.5%)
Older cohort (1921–1926)			
Report of mental health condition on most recent survey	431	4 (1.0%)	427 (99.0%)
Report of mental health condition in a previous survey	271	4 (1.0%)	267 (99.0%)
No report of mental health condition	3650	8 (0.2%)	3642 (99.8%)

* Some women who did not self-report a mental health condition but had mental health claims may have developed a mental health condition after survey 4. † Weighted percentages used.

3 Characteristics of women from the younger cohort (1973–1978) according to use of Medicare Benefits Schedule mental health (MH) items and recent or past MH condition*

		Group 2:	Group 3:	Group 4:
	Group 1: any MH item	but recent MH condition	but past MH condition	item or MH condition
Total, no.	168	621	476	2604
No post-school educational qualifications	13.0%	23.0%	21.0%	16.0%
Marital status				
Married/de facto	57.0%	65.0%	73.0%	76.0%
Single	38.0%	28.0%	21.0%	22.0%
Separated/divorced	6.0%	7.0%	6.0%	2.0%
Difficult to manage on income	17.0%	19.0%	15.0%	8.0%
Overweight (BMI > 30 kg/m²)	29.0%	45.0%	39.0%	37.0%
Current smoker	20.0%	23.0%	20.0%	13.0%
General practitioner visits in past year				
≤4	52.0%	50.0%	63.0%	75.0%
5–8	36.0%	32.0%	25.0%	19.0%
≥9	12.0%	18.0%	12.0%	6.0%
Any visits to specialist doctors in past year	60.0%	58.0%	52.0%	46.0%
Any visits to hospital doctors in past year	24.0%	32.0%	25.0%	21.0%
Private health insurance for hospital cover	63.0%	51.0%	58.0%	60.0%
Visits to counsellor, psychologist or social worker (before introduction of MH items)	7.0%	42.0%	45.0%	13.0%
Self-reported medication use in past 4 weeks				
For "nerves"	6.0%	13.0%	3.0%	0.4%
To help sleep	11.0%	46.0%	18.0%	26.0%
For depression	20.0%	37.0%	0.9%	0.1%
Provide care to any person with long-term illness, disability or frailty	6.0%	10.0%	5.0%	3.0%

BMI = body mass index. *Bolding indicates significant contribution to χ^2 . P<0.001 for all comparisons except BMI, where P=0.002.

them sleep. There were no differences in area of residence, alcohol intake or country of birth. All variables in Box 3 are significant with P < 0.001 except BMI, where P = 0.002.

Box 4 shows SF-36 Mental Health Index scores for the younger and mid-age cohorts. Mental Health Index scores among women in both cohorts were lowest for women in Groups 1 and 2. Over time, there was an improvement in scores for women in Group 3 (S4 for younger cohort, S5 for mid-age cohort). For women in the mid-age cohort who had used mental health items (Group 1), the Mental Health Index score dropped significantly from survey 4 in 2004 to survey 5 in 2007, indicating a decline in mental healthrelated quality of life.

Box 5 and Box 6 show the increase in patient (out-of-pocket) and benefit (government) costs following introduction of the mental health items. Uptake of mental health items was associated with a steep increase in both cost types during 2007, with average yearly increases of \$100–\$150 for women, and \$600–\$800 for government.

DISCUSSION

Although earlier reports provided evidence of rapid uptake of mental health items, these findings indicate that the per-capita impact of the items is small. A large proportion of women reporting a history of mental health problems had no mental health item claims, suggesting that issues of access were not being addressed as intended.¹⁹

An analysis of the 1997 National Survey of Mental Health and Wellbeing showed that for every nine people with a mental health disorder, only one had consulted a mental health professional in the previous year.²⁰ This study also showed that women were almost twice as likely to consult a mental health professional as men,²⁰ so the impact of the mental health items among men may be lower than observed for women in our study.

Our data show that women who are more socioeconomically disadvantaged are less likely to access these services, despite mental health needs. The data also show a particularly low uptake of the items by the oldest group of women, consistent with other research suggesting undertreatment of mental health problems among older people.²¹ On the other hand, among women who did use the services, very few had previously reported seeing a counsellor, psychologist or social worker, indicating that new items reached women who were not previously accessing mental health care.

Although it is premature to fully explain the impact of the items on women's mental health, women in the mid-age cohort who used services covered by mental health items had a steep decline in their mental health scores between survey 4 and survey 5. Women who had worsening mental health were more likely to be referred for services covered by mental health items, although there are insufficient data points to determine the directionality of this effect. Data for women in the younger cohort did not cover the period following the introduction of the mental health items, which may partly explain the different patterns observed for these women. Further exploration of these changes will be possible when data on subsequent use of mental health items and further mental health outcomes become available.

The mental health items are associated with increases in costs for women and for governments. It is therefore critical that the impact and equity of impact of these items are assessed further. This imperative exists not only because of costs to government, which have been described as considerable^{7,19} but also in view of the added economic stress on individual women and the potential for the scheme to increase health inequalities. If women who have difficulty managing on their available income and who have lower educational levels are less able to make use of mental health services despite their mental health needs, the scheme does not necessarily address gaps in service provision as intended.

Although our data provide information on characteristics of women using services covered by mental health items, our study has some limitations. One limitation is that not all women in the ALSWH consented to linkage with MBS data. Comparison between consenters and non-consenters at the time of completing survey 4 indicates



s1 = survey 1. s2 = survey 2. s3 = survey 3. s4 = survey 4. MBS = Medicare Benefits Schedule. SF-36 = 36-item Short Form Health Survey. "Lower scores indicate poorer mental health-related quality of life. Least-squares means adjusted for education, smoking, marital status, urban/non-urban area of residence, difficulty managing on income and body mass index. Grey vertical line indicates the introduction of the Better Access Initiative.

small but statistically significant differences according to area of residence (consenters in the mid-age and older cohorts were more likely to live in urban or inner regional areas and less likely to live in outer regional or remote areas). In all three cohorts, women who gave consent to data linkage tended to be better educated and were more likely to be able to manage on their available income, which suggests a socioeconomic bias among consenters.²² However, if more disadvantaged women are less likely to use mental health items in spite of mental health needs, uptake of the items is likely to be even lower than shown here.

Other limitations include that some women may be accessing focused psychological services under the Better Outcomes in Mental Health Care program, which complements the Better Access Initiative and which is outside of the Medicare Benefits Schedule.²³ By 2008, it was estimated that 153 000 Australians had used these services. Although some of this use would be picked up by the women's self-reported visits to counsellors, there may be some underreporting of these services.

A further limitation is the use of selfreported diagnoses to identify mental health needs among women who have not used the mental health items. This may result in some misclassification of the three groups of nonusers, and it is likely that differences between the groups will be underestimated.

Strengths of our study include that the results are based on a national random sample of women rather than a clinical sample, and can therefore be more readily generalised to the wider population; linkage of MBS and ALSWH records means that personal characteristics of women using and not using the mental health items can be assessed, and the use of longitudinal data allows for inclusion of mental health histories in the analyses.



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The potential of the Better Access Initiative to meet the mental health needs of large numbers of people should not be underestimated. However, although there has been rapid uptake of the mental health items, their use by women with mental health needs is proportionally low and there is potential for socioeconomic inequity. In view of the costs both to governments and individuals, there is an urgent need to evaluate outcomes of the Initiative in terms of equity and cost-effectiveness.

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COMPETING INTERESTS

None identified.

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