

Impact of common mental disorders on sickness absence in an occupational cohort study

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ABSTRACT

Objectives Common mental disorders are associated with impaired functioning and sickness absence. We examine whether sub-clinical as well as clinical psychiatric morbidity predict long spells of sickness absence for both psychiatric and non-psychiatric illness. We also examine whether recent common mental disorders and those present on two occasions have a stronger association with sickness absence than less recent and single episodes of disorder.

Methods Common mental disorders measured by the General Health Questionnaire were linked with long spells of sickness absence in 5104 civil servants from the longitudinal Whitehall II Study. Negative binomial models were used to estimate rate ratios for long spells of sickness absence with and without a psychiatric diagnosis (mean follow-up 5.3 years).

Results Clinical but not sub-threshold common mental disorders were associated with increased risk of long spells of psychiatric sickness absence for men, but not for women, after adjusting for covariates (rate ratios (RR) 1.67, 95% CI 1.13 to 2.46). Risk of psychiatric sickness absence was associated with recent common mental disorders (RR 2.08, 95% CI 1.29 to 3.35) and disorder present on two occasions (RR 1.65, 95% CI 0.98 to 2.71) for men only. Common mental disorders were not associated with increased risk of non-psychiatric sickness absence after adjustment for covariates.

Conclusions Identification and treatment of common mental disorders may reduce the economic burden of long term psychiatric sickness absence. Our results suggest that public health and clinical services should focus on the identification of workers with elevated mental health symptoms. Studies are needed of the efficacy of early identification and management of mental health symptoms for the prevention of long spells of sickness absence.

INTRODUCTION

Common mental disorders are associated with impairment of psychological, social and occupational functioning.^{1–5} This has considerable economic impact, partly because common mental disorders also predict all-cause sickness absence,^{6–12} psychiatric sickness absence^{13–14} and disability pension costs.¹⁵ Sickness absence is a meaningful health outcome for employers and the economy because of lost productivity. Common mental disorders make a substantial contribution to the burden of disease because of the numbers of people affected, 16.4% in a UK adult population survey.¹⁶ In cross-sectional studies, dose–response relationships have been found between severity of psychiatric

What this paper adds

- ▶ Common mental disorders predict future sickness absence.
- ▶ Less is known about whether the risk is greater for clinical as opposed to sub-clinical disorder or whether this association applies to both psychiatric absence and non-psychiatric absence.
- ▶ Clinical but not sub-clinical common mental disorders predict long spells of psychiatric sickness absence in men but not in women.
- ▶ Recent common mental disorders are associated with the highest risk of long spells of psychiatric sickness absence in men but not in women.
- ▶ Common mental disorders do not predict long spells of non-psychiatric sickness absence.

disorder and level of disability,¹⁷ but there have been few prospective epidemiological studies.¹⁸ There are also differences by gender and psychiatric diagnosis. Cumulative incidence of sickness absence tends to be higher in women than in men in keeping with higher rates of common mental disorders in women than in men.^{19–20} By contrast, in some studies minor psychiatric morbidity, major depressive disorder, drug abuse/dependence, dysthymia and simple phobia are related to a greater risk of sickness absence in men than in women,^{8–21} although other studies show equal risks of sickness absence associated with common mental disorders in men and women.^{10–11} A meta-analysis showed a non-significantly decreased risk for psychosocial health and sickness absence in favour of women.²² Chronically ill men are also more likely to take longer duration of sickness absence than women.^{19–21}

This study examines the association of common mental disorders and long spells of psychiatric and non-psychiatric sickness absence in the longitudinal Whitehall II Study of British Civil Servants. We test whether sub-threshold as well as clinically significant psychiatric morbidity are associated with increased rates of long spells of sickness absence in order to examine whether less severe disorders increase the risk of sickness absence as much as severe disorders.^{6–8} We also examine whether only recent disorder or also less recent disorder increases the risk of long spells of sickness absence and whether disorder on two occasions is associated with greater risk of absence than episodes of disorder on one occasion.



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METHODS

Participants

The Whitehall II study was established between 1985 and 1988 with a target population of all male and female civil servants, aged between 35 and 55 years, in 20 London based civil service departments.²³ With a response rate of 73%, 10 308 civil servants were examined in phase 1 of the study (6895 men and 3413 women). We analysed data on common mental disorders from phase 1 and phase 2 (1989, postal questionnaire, response rate 79%) and phase 3 (1991–1993, questionnaire and screening, response rate 83%) of the study together. Sickness absence data including diagnoses were abstracted from civil service records for 1991–1998.

Common mental disorders

Common mental disorders were measured at phases 1 and 2 using the 30-item General Health Questionnaire (GHQ), a well established screening questionnaire for psychiatric disorder.²⁴ This was validated against the Clinical Interview Schedule in a sub-sample.²⁵ A threshold of 4/5 on the GHQ was chosen on the basis of receiver operating characteristic analysis and those scoring 5+ were deemed 'cases'. At this threshold the sensitivity of the GHQ was 72.7% and the specificity was 78.0% against the Clinical Interview Schedule. In order to investigate the impact of sub-threshold scores, we also analysed a three category grouping: no or low scorers, sub-threshold scorers and suprathreshold scorers (caseness) (0–2, 3–4 and 5+). We also studied recurrence and recency of psychiatric morbidity by classifying common mental disorders in terms of caseness at phase 1 or phase 2 only, or caseness at both phase 1 and phase 2.

Sickness absence

Ninety-three per cent (9564) of participants gave consent to monitor their sickness absence and of these 96% (9179) were linked with their civil service record. Computerised sickness absence records to the end of December 1998 were obtained annually. Sickness absence diagnoses were recorded in all departments from 1991 onwards. A medical certificate was required for absences longer than 7 days ('long spells'). Sickness absence diagnoses were coded by the civil service using a coding system based on the C list of the eighth revision of the International Classification of Diseases (ICD-8). We converted the civil service reason codes to disease categories from the morbidity coding system of the Royal College of General Practitioners (RCGP) which are comparable with ICD-8 chapter headings. We modified the RCGP classification by adding four extra disease categories (gastrointestinal, headache and migraine, neurosis, neurosis ill-defined) that accounted for a high proportion of sickness absence spells. In this paper, we analyse sickness absence during 1 January 1991 to 31 December 1998 for all diagnoses, for psychiatric diagnoses (neurosis and neurosis ill-defined categories combined) and for non-psychiatric diagnoses (all other disease categories combined). Thus, we excluded sickness absence spells in the year immediately after the second measure of common mental disorders in 1989 to ensure that any associations observed were not due to sickness absence taken close to our exposure measure. The validity of civil service reason codes was assessed by obtaining information from participants' general practitioners in 1985–1990.²⁶

Covariates

Socio-economic position was measured by civil service employment grade. Psychosocial work characteristics were measured by the Karasek Job Content Instrument²⁷ and questions on

effort–reward imbalance.²⁸ Three types of perceived social support were measured by the Close Persons Questionnaire.²⁹ Social networks were measured by the frequency and number of contacts with relatives, friends and social groups,³⁰ and material problems by questions on financial, housing and neighbourhood difficulties.³¹ Other baseline measurements included marital status, units of alcohol consumption per week, self-rated health status over the previous 12 months, recurring health problems in the previous year, and presence of longstanding illness, disability or infirmity. A composite physical illness indicator was created (diabetes, diagnosed heart disease, abnormalities on electrocardiogram, hypertension, respiratory illness and/or angina).

Statistical analysis

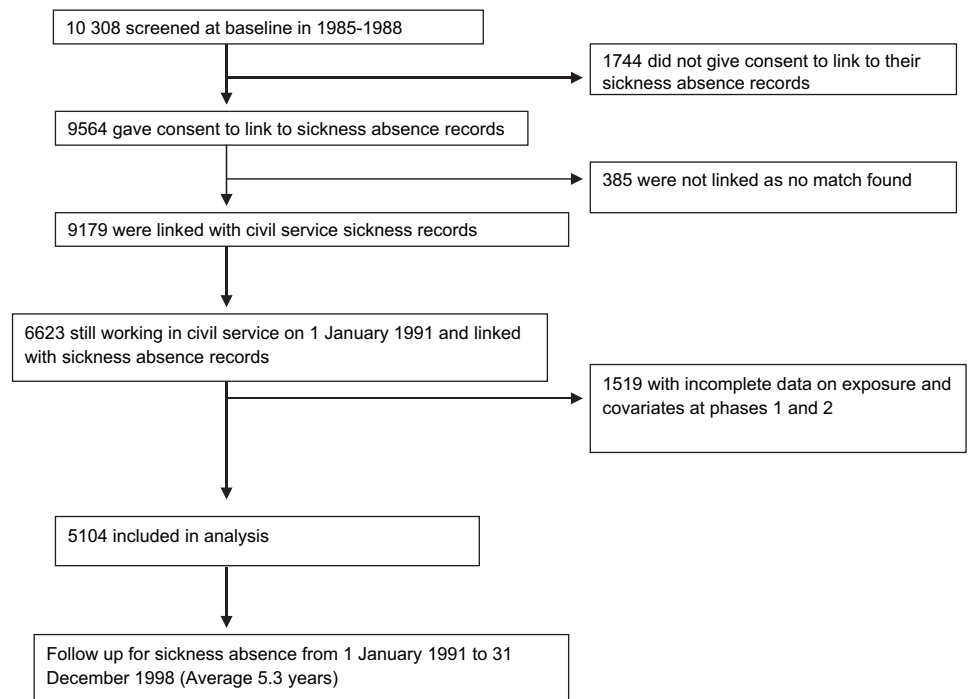
For each participant, we computed the number of long spells of sickness absence and person-years at risk from 1 January 1991 to either 31 December 1998 or date they left the civil service if the participant left during 1991–1998. We fitted negative binomial models to study the association of psychiatric morbidity at phases 1 and 2 with incidence of long spells of sickness absence during 1991–1998. Results are presented as rate ratios. The negative binomial model was used as there was residual variation in excess of the Poisson distribution. Initial models were adjusted for age and employment grade (model 1). Next, models were additionally adjusted for work characteristics, marital status, social support and material problems (model 2). Then, a third model with further adjustment for alcohol consumption and baseline health status was fitted (model 3). We used Stata 9.2 for all analyses.

RESULTS

Participants were eligible for inclusion based on civil service sickness absence data availability from 1 January 1991 onwards: 6623 participants were eligible (figure 1). There was no difference in prevalence of common mental disorders at baseline in eligible and non-eligible participants (27% in both). Participants were excluded from our analysis if they had missing data on the GHQ at either phase 1 or 2 or any of the covariates: 1519 of the 6623 eligible participants were excluded due to missing data on the GHQ or covariates. The analyses were conducted on 5104 of the original 10308 participants (figure 1).

A quarter of the men and a third of the women were classified as GHQ cases (score of 5 or above) at phase 1 (table 1). In order to increase the discrimination between differing levels of severity of common mental disorders, we distinguished between those scoring 0–2, those scoring 3–4 and those scoring 5 or above on the GHQ at phase 1. We also classified common mental disorders in terms of caseness at phase 1 or phase 2 only, or caseness at both phases. The distribution of these scores is set out in table 1. Notably, 13.4% of men and 17.7% of women had common mental disorders at both phases. Over the 8-year sickness absence follow-up (mean follow-up 5.26 years), there were 4046 long spells of sickness absence (2245 in men and 1801 in women). Rates of long spells of absence for psychiatric and non-psychiatric diagnoses are given in table 1.

GHQ caseness at phase 2 is a risk factor for long spells of psychiatric sickness absence and all-diagnoses sickness absence (1991–1998), adjusting for age and employment grade (table 2). The rate ratios were smaller for non-psychiatric diagnoses sickness absence than for psychiatric sickness absence and were no longer significant after full adjustment. Associations were generally stronger in men than in women. In men, these associations remained significant after additional adjustment for work characteristics, social support, marital status and material

Figure 1 Description of the sample.

problems (model 2) and for alcohol consumption and physical illness at phase 2 (model 3), although they diminished in magnitude. In women, the associations were no longer significant in model 2. The associations were not significant for sub-threshold common mental disorders in either men or women.

In table 3 we also examined the effects of one and two episodes of common mental disorders on psychiatric, non-psychiatric and all-diagnoses sickness absence by including common mental disorders at phase 1 and phase 2 as a predictor of future spells of sickness absence between 1991 and 1998. In men, common mental disorders at phase 2 showed increased risk

for long spells of psychiatric and non-psychiatric sickness absence adjusting for age and employment grade (model 1). The rate ratios were greater in magnitude for psychiatric than for non-psychiatric sickness absence. The magnitude of the risk diminished slightly after further adjustment for work characteristics, social support, marital status and material problems (model 2) and remained significant for psychiatric sickness absence in model 3 but became non-significant for non-psychiatric sickness absence. Associations tended to be weaker or non-significant in women and the pattern was not consistent. In women, common mental disorders at phase 1, but not at phase 2, were related to long spells of psychiatric sickness absence and these results became non-significant in model 3.

In general, having common mental disorders at two phases did not increase the risk of psychiatric sickness absence compared to having common mental disorders on one occasion. For men, having common mental disorders at phase 2 only was associated with higher rate ratios for sickness absence than having common mental disorders at both phase 1 and phase 2. For women, having common mental disorders at two phases was only associated with increased risk of absence in model 1.

Table 1 Psychiatric morbidity (GHQ) at phases 1 (1985–1988) and 2 (1989–1990), and subsequent long spells of sickness absence (1991–1998) in men and women

	Men (n=3638) n (%)	Women (n=1466) n (%)
GHQ score at phase 1		
0–2	2350 (64.6)	867 (59.1)
3–4	371 (10.2)	152 (10.4)
5+	917 (25.2)	447 (30.5)
GHQ score at phase 2		
0–2	2222 (61.1)	817 (55.7)
3–4	398 (10.9)	148 (10.1)
5+	1018 (28.0)	501 (34.2)
GHQ caseness at phases 1 and 2		
Neither	2190 (60.2)	778 (53.1)
Phase 1 only	430 (11.8)	187 (12.8)
Phase 2 only	531 (14.6)	241 (16.4)
Phase 1 and phase 2	487 (13.4)	260 (17.7)
	Number of spells (rate per 100 person-years)	Number of spells (rate per 100 person-years)
Psychiatric long spells, 1991–1998	279 (1.4)	201 (2.7)
Non-psychiatric long spells, 1991–1998	1630 (8.3)	1343 (18.3)
Spells with missing diagnosis, 1991–1998	336 (1.7)	257 (3.5)
All long spells, 1991–1998	2245 (11.5)	1801 (24.6)

GHQ, General Health Questionnaire.

DISCUSSION

Clinical, but not sub-threshold, levels of common mental disorders were associated with increased risk of long spells of psychiatric sickness absence in men; this was also found for all-cause sickness absence in men but not for non-psychiatric sickness absence. Recent common mental disorders were associated with greater risks of long spells of psychiatric sickness absence for men but not for women. Disorder present on two occasions was also associated with increased risk of psychiatric sickness absence in men, but this association was no longer significant after adjustment for alcohol consumption and physical illness. In fully adjusted models, common mental disorders were not associated with increased risk of non-psychiatric sickness absence. Associations of mental disorder with sickness absence effects were stronger and more consistent for men than for women.

Table 2 Rate ratios for spells of sickness absence (1991–1998) by psychiatric morbidity (GHQ categories) at phase 2

Sickness absence	Phase 2 GHQ score	Rate ratio (95% CI)					
		Men (n = 3638)			Women (n = 1466)		
		Model 1*	Model 2 †	Model 3 ‡	Model 1*	Model 2 †	Model 3 ‡
Psychiatric long spells	0–2	1.0	1.0	1.0	1.0	1.0	1.0
	3–4	1.08 (0.58 to 2.03)	1.02 (0.54 to 1.93)	0.99 (0.53 to 1.87)	1.02 (0.53 to 1.95)	0.94 (0.48 to 1.81)	0.86 (0.45 to 1.66)
	5+	2.26 (1.57 to 3.25)	1.95 (1.32 to 2.86)	1.67 (1.13 to 2.46)	1.39 (0.93 to 2.09)	1.15 (0.75 to 1.75)	1.02 (0.66 to 1.56)
Non-psychiatric long spells	0–2	1.0	1.0	1.0	1.0	1.0	1.0
	3–4	1.10 (0.88 to 1.37)	1.08 (0.86 to 1.34)	1.02 (0.82 to 1.27)	1.16 (0.89 to 1.50)	1.15 (0.88 to 1.48)	1.11 (0.87 to 1.43)
	5+	1.31 (1.13 to 1.52)	1.25 (1.07 to 1.46)	1.07 (0.92 to 1.25)	1.09 (0.92 to 1.29)	1.09 (0.92 to 1.30)	0.96 (0.81 to 1.14)
All diagnoses long spells	0–2	1.0	1.0	1.0	1.0	1.0	1.0
	3–4	1.16 (0.94 to 1.42)	1.13 (0.92 to 1.38)	1.07 (0.88 to 1.31)	1.16 (0.92 to 1.46)	1.13 (0.90 to 1.43)	1.09 (0.87 to 1.36)
	5+	1.48 (1.29 to 1.69)	1.39 (1.20 to 1.60)	1.19 (1.03 to 1.37)	1.15 (0.99 to 1.33)	1.13 (0.96 to 1.31)	1.00 (0.86 to 1.17)

*Model 1 adjusts for age and employment grade.

†Model 2 adjusts for age, employment grade, work characteristics (decision latitude, job demands, work support, effort–reward imbalance), marital status, social support (confiding/emotional, practical, negative aspects, network outside household) and material problems.

‡Model 3 additionally adjusts for alcohol consumption, self-reported health, health problems in last year, presence of longstanding illness and presence of physical illness.

GHQ, General Health Questionnaire.

The strength of this study is the longitudinal data using validated instruments and externally assessed sickness absence in an occupational cohort with a high overall response rate. The results should be generalisable to other white collar public sector organisations, but the findings may apply less to blue collar occupations or the private sector. One weakness is the amount of missing data when all covariates and sickness absence data are used in analyses—possibly a source of bias although prevalence of GHQ caseness at phase 1 was similar in the analysed sample and the full sample with GHQ measured at phase 1 (27% prevalence in both). A further weakness is that diagnosis was missing for just under 15% of long spells. This is unlikely to have resulted in any major bias. Measurement of common mental disorders relied on a screening questionnaire, the GHQ; never-

theless, the threshold for GHQ caseness was established in a clinical validation study and concurs well with clinical diagnoses.

Population-based studies also find associations between symptomatic measures of psychiatric disorder and long term sickness absence^{8 10–12} with one exception that may relate to the sample used in this study.³² Few previous studies specifically examine psychiatric sickness absence. Increased risk of sickness absence also tends to be associated with more severe disorder^{6 12} and co-morbid physical disorder.^{7 14} Sub-syndromal psychiatric symptoms have been associated with increased sickness absence risk,^{6 9} but not in our study. Korten and Henderson³³ found that the symptoms on the GHQ contributed to increased risk of absence even in those without a CIDI diagnosis, suggesting that

Table 3 Rate ratios for spells of sickness absence (1991–1998) by psychiatric morbidity at phases 1 and 2 and both phases

Sickness absence	GHQ caseness	Rate ratio (95% CI)					
		Men (n = 3638)			Women (n = 1466)		
		Model 1*	Model 2 †	Model 3 ‡	Model 1*	Model 2 †	Model 3 ‡
Psychiatric long spells	Phase 1 caseness	1.68 (1.16 to 2.43)	1.41 (0.95 to 2.10)	1.22 (0.82 to 1.83)	1.84 (1.24 to 2.73)	1.66 (1.10 to 2.51)	1.43 (0.93 to 2.18)
	Phase 2 caseness	2.24 (1.57 to 3.18)	1.94 (1.34 to 2.81)	1.67 (1.14 to 2.43)	1.39 (0.93 to 2.06)	1.16 (0.77 to 1.75)	1.05 (0.69 to 1.58)
	Neither	1.0	1.0	1.0	1.0	1.0	1.0
	Phase 1 only	2.03 (1.19 to 3.45)	1.75 (1.01 to 3.01)	1.48 (0.86 to 2.57)	2.49 (1.46 to 4.25)	2.30 (1.34 to 3.94)	1.97 (1.14 to 3.40)
	Phase 2 only	2.79 (1.76 to 4.42)	2.45 (1.52 to 3.93)	2.08 (1.29 to 3.35)	1.67 (0.97 to 2.87)	1.44 (0.84 to 2.49)	1.34 (0.78 to 2.31)
	Both phases	2.40 (1.53 to 3.81)	1.99 (1.20 to 3.30)	1.65 (0.98 to 2.71)	1.81 (1.09 to 3.01)	1.49 (0.87 to 2.55)	1.23 (0.70 to 2.14)
Non-psychiatric long spells	Phase 1 caseness	1.16 (0.99 to 1.34)	1.12 (0.96 to 1.31)	0.92 (0.78 to 1.07)	1.07 (0.91 to 1.27)	1.06 (0.89 to 1.26)	0.91 (0.76 to 1.07)
	Phase 2 caseness	1.29 (1.12 to 1.49)	1.23 (1.06 to 1.43)	1.07 (0.92 to 1.24)	1.06 (0.90 to 1.25)	1.06 (0.90 to 1.26)	0.94 (0.80 to 1.11)
	Neither	1.0	1.0	1.0	1.0	1.0	1.0
	Phase 1 only	1.12 (0.91 to 1.39)	1.10 (0.89 to 1.37)	0.94 (0.76 to 1.17)	1.10 (0.86 to 1.39)	1.10 (0.87 to 1.40)	0.96 (0.76 to 1.21)
	Phase 2 only	1.32 (1.09 to 1.60)	1.26 (1.04 to 1.53)	1.15 (0.95 to 1.39)	1.08 (0.87 to 1.35)	1.10 (0.88 to 1.37)	1.01 (0.82 to 1.25)
	Both phases	1.31 (1.08 to 1.58)	1.25 (1.03 to 1.53)	0.96 (0.78 to 1.17)	1.09 (0.88 to 1.34)	1.07 (0.86 to 1.34)	0.86 (0.69 to 1.08)
All diagnoses long spells	Phase 1 caseness	1.27 (1.11 to 1.45)	1.20 (1.04 to 1.38)	1.00 (0.87 to 1.15)	1.18 (1.01 to 1.37)	1.16 (0.99 to 1.35)	0.99 (0.86 to 1.16)
	Phase 2 caseness	1.44 (1.26 to 1.65)	1.36 (1.18 to 1.56)	1.17 (1.02 to 1.34)	1.12 (0.97 to 1.30)	1.10 (0.95 to 1.28)	0.99 (0.85 to 1.14)
	Neither	1.0	1.0	1.0	1.0	1.0	1.0
	Phase 1 only	1.29 (1.06 to 1.57)	1.25 (1.02 to 1.52)	1.07 (0.89 to 1.30)	1.23 (1.00 to 1.52)	1.24 (1.01 to 1.54)	1.08 (0.88 to 1.32)
	Phase 2 only	1.54 (1.29 to 1.84)	1.46 (1.22 to 1.75)	1.31 (1.10 to 1.56)	1.14 (0.93 to 1.39)	1.15 (0.94 to 1.40)	1.05 (0.87 to 1.27)
	Both phases	1.48 (1.24 to 1.76)	1.38 (1.15 to 1.66)	1.07 (0.89 to 1.29)	1.20 (0.99 to 1.45)	1.17 (0.96 to 1.42)	0.96 (0.79 to 1.17)

*Model 1 adjusts for age and employment grade.

†Model 2 adjusts for age, employment grade, work characteristics (decision latitude, job demands, work support, effort–reward imbalance), marital status, social support (confiding/emotional, practical, negative aspects, network outside household) and material problems.

‡Model 3 additionally adjusts for alcohol consumption, self-reported health, health problems in last year, presence of longstanding illness and presence of physical illness.

GHQ, General Health Questionnaire.

psychological distress in the absence of clinical diagnosis may be associated with increased absence risk.

We find no increased risk in men with psychiatric disorder for non-psychiatric sickness absence, suggesting that psychiatric disorder does not increase the risk of taking sickness absence for physical illness. However, the increased risk associated with common mental disorders and all-diagnoses sickness absence may indicate increased risk of sickness absence associated with co-morbid psychiatric and physical diagnoses. The latter may reflect the increased risk of developing poorer functioning associated with co-morbidity.¹⁴ Some studies find stronger associations between psychiatric disorder and sickness absence in men than in women^{8 34} as we did, but others do not.^{10 12 33} The reasons for these gender differences are uncertain. They have been attributed to more effective help seeking in women^{8 34 35} leading to earlier treatment and thus less risk of absence from work, but there may be other reasons. One possibility may be that the gender differences are due to a differing propensity to report psychiatric symptoms by gender; that is to say that men scoring above the threshold on the GHQ have a more severe psychiatric disorder than women, subsequently associated with higher risk of absence. However, the gender difference in risk of absence has also been found in other studies using interview measures of psychiatric disorder across a range of disorders, some of which had stronger associations with sickness absence in men than in women.⁹ The greater magnitude of the effect in men than women needs to be explained. In women, non-work supports (model 2) and other non-work factors, especially for those working part time, and work support may be more influential in relation to taking absence when psychologically distressed than in men. Furthermore, there may be greater physical comorbidity in women that explains why the rate ratios are much reduced in model 3. Differential health selection out of the cohort, by gender, leaving healthy female workers in the cohort should be considered, but this seems an unlikely explanation because overall rates of absence and psychiatric sickness absence are still higher in women than in men and greater risk of absence associated with psychiatric morbidity is not confined to this cohort alone.^{8 34} Two thirds of the cohort are male and there is no obvious health selection into the cohort by gender; it seems unlikely that men with common mental disorders are more likely to be maintained in employment than women and given the increased rates of all types of sickness absence in women compared to men and given the analyses are based on spells of absence and not duration, increased retention of psychiatrically sicker men seems unlikely.

It is not clear why phase 1 common mental disorders should be more strongly linked to sickness absence in women, while phase 2 morbidity is more strongly linked to sickness absence in men. We find that more severe, recent, and to an extent recurrent, common mental disorders are associated with greatest risk of longer term sickness absence.

Depression has been identified as among the four conditions with the highest overall economic burden in the United States,³⁶ and the decline in functioning associated with major depression is equivalent to major physical illnesses.³⁷ This has been replicated in major European studies where disability from anxiety disorders and mood disorders was similar to that from heart disease and arthritis.^{3 5} Depression and anxiety have already been identified as prognostic factors for delayed return to work from sickness absence.³⁸ Thus identification and treatment of clinically recognisable common mental disorders should be a priority in employed populations in order to try to prevent long term sickness absence and reduce costs. This study suggests

that in order to reduce sickness absence the focus should be on conditions of clinical severity rather than milder conditions.

Arising from this study it might be proposed that future research should concentrate more on distinguishing the predictors of psychiatric and non-psychiatric sickness absence and exploring the reasons for the gender differences in risk. For prevention there should be more studies examining the effects of modifying working conditions in order to reduce the risk of common mental disorders and hence sickness absence. In terms of reducing the financial burden on organisations, there should be more studies of the efficacy of early identification and management of mental health symptoms to see if this might prevent the development of long spells of sickness absence.

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Competing interests None.

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