Review: cognitive behavioural interventions may be effective for chronic fatigue syndrome and chronic back pain


QUESTION: Are mental health interventions for people with common somatic conditions effective? Can results from secondary care be extrapolated to primary care?

Design
Systematic review with meta-analysis.

Data sources
Studies were identified using PubMed, the Cochrane Library, PsychLit and Embase (1966 – September 2001); reference lists; key texts, and citations from experts.

Study selection
Narrative systematic reviews, meta-analyses and randomised trials published in English were eligible if they assessed the effectiveness of primary or secondary care mental health interventions for chronic fatigue syndrome, irritable bowel syndrome or chronic back pain (where no physical cause was established). Eligible interventions included cognitive-behavioural, cognitive, behaviour, brief interpersonal psychodynamic and antidepressant therapies. The authors identified 20 studies in primary care, 41 studies in secondary care and 2 meta-analyses.

Data extraction
Reviewers extracted data on participant characteristics, sample size, sample source, intervention, outcomes, study dropouts and reasons for withdrawal. Main outcome measures were reported health status and disease severity. The authors calculated treatment effects using fixed and random effects models.

Main results
Chronic fatigue syndrome: There is some evidence that cognitive behavioural therapy and behavioural therapy are effective in chronic fatigue syndrome. The authors found no evidence that brief psychodynamic interpersonal therapy or antidepressants improve symptoms in chronic fatigue syndrome.

Irritable bowel syndrome: There is some evidence that antidepressants and brief interpersonal therapy are effective in irritable bowel syndrome. There is limited evidence for the effectiveness of relaxation training and mixed evidence about the benefits of cognitive-behaviour therapy.

Back pain: There is some evidence that cognitive behaviour therapy and behaviour therapy are effective for people with back pain. The authors found insufficient evidence on antidepressants or brief interpersonal therapy.

For all 3 syndromes, treatment effect sizes were largest in secondary care.

Conclusions
Mental health interventions may be effective for chronic fatigue syndrome, irritable bowel syndrome and chronic back pain. There is more evidence for the effectiveness of secondary care interventions than treatments in primary care.

COMMENTARY
Psychological disorders have a high financial burden with many indirect costs. Behavioural strategies and cognitive-behavioural interventions may be effective for a range of mental disorders, including some of the most chronic, severe and costly mental health problems. Very few medical professionals are adequately trained to deliver such treatments, however. This article is both timely and important because it emphasises the need to disseminate cognitive-behaviour therapies more widely.

Raine et al conducted a thorough review of the efficacy of psychological treatments for common somatic symptoms: chronic fatigue syndrome, irritable bowel syndrome and chronic back pain. The results were consistent with the findings by the American Psychological Association’s Task Force on Promotion and Dissemination of Psychological Procedures: cognitive-behavioural interventions and behaviour therapy are effective for treating chronic back pain and chronic fatigue syndrome. Raine et al found that treatment effects were stronger in secondary care compared with primary care settings. Furthermore, antidepressants were effective in both settings for treating irritable bowel syndrome.

The review has some limitations. First, as all secondary analyses, the review is based only on published studies (that are more likely to report positive outcomes). There may also be problems with how interventions were defined and implemented. The majority of studies did not follow a treatment manual and did not measure adherence to the therapy protocol. The distinction between “behaviour therapy” and “cognitive-behaviour therapy” therefore remains elusive. This leaves important questions unanswered about how and why these treatments work (ie the mechanisms and mediators of change).

Stefan G Hofmann, PhD
Department of Psychology
Boston University
Massachusetts, USA

1 Hofmann SG, Tompson ME. Treating chronic and severe mental disorders: A clinical handbook of empirically supported treatments. New York: Guilford Press.

Source of funding: UK Medical Research Council.

For correspondence: R Raine, Department of Public Health and Policy, London School of Hygiene and Tropical Medicine, UK. rosalind.raine@lshtm.ac.uk
Review: cognitive behavioural interventions may be effective for chronic fatigue syndrome and chronic back pain

Evid Based Mental Health 2003 6: 55
doi: 10.1136/ebmh.6.2.55

Updated information and services can be found at:
http://ebmh.bmj.com/content/6/2/55

These include:

References
This article cites 2 articles, 1 of which you can access for free at:
http://ebmh.bmj.com/content/6/2/55#BIBL

Email alerting service
Receive free email alerts when new articles cite this article. Sign up in the box at the top right corner of the online article.

Topic Collections
Articles on similar topics can be found in the following collections
- General practice / family medicine (210)
- Neurology (1070)

Notes

To request permissions go to:
http://group.bmj.com/group/rights-licensing/permissions

To order reprints go to:
http://journals.bmj.com/cgi/reprintform

To subscribe to BMJ go to:
http://group.bmj.com/subscribe/