Income inequality and mental illness-related morbidity and resilience: a systematic review and meta-analysis

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Summary

Background Studies of the association between income inequality and mental health have shown mixed results, probably due to methodological heterogeneity. By dealing with such heterogeneity through a systematic review and meta-analysis, we examine the association between income inequality, mental health problems, use of mental health services, and resilience (defined as the ability to cope with adversity).

Methods We searched the Global Health, PsychARTICLES, PsycINFO, Social Policy and Practice, Embase and MEDLINE databases up to July 6, 2016, for quantitative studies of the association of income inequality with prevalence or incidence of mental disorders or mental health problems, use of mental health services, and resilience. Eligible studies used standardised instruments at the individual level, and income inequality at the aggregated, contextual, and ecological level. We extracted study characteristics, sampling, exposure, outcomes, statistical modelling, and parameters from articles. Because several studies did not provide enough statistical information to be included in a meta-analysis, we did a narrative synthesis to summarise results with studies categorised as showing either a positive association, mixed results, or no association. The primary outcome in the random-effects meta-analysis was mental health-related morbidity, defined as the prevalence or incidence of any mental health problem. This study is registered with PROSPERO, number CRD42016036377.

Findings Our search identified 15 615 non-duplicate references, of which 113 were deemed potentially relevant and were assessed for eligibility, leading to the inclusion of 27 studies in the qualitative synthesis. Nine articles found a positive association between income inequality and the prevalence or incidence of mental health problems; ten articles found mixed results, with positive association in some subgroups and non-significant or negative association in other subgroups; and eight articles found no association between income inequality and mental health problems. Of the nine articles included in our meta-analysis, one reported a positive association between income inequality and mental health problems, six reported mixed results, and two reported no association. Pooled Cohen’s d effect sizes for the association between income inequality and any mental disorder or mental health problems were 0·06 (95% CI 0·01–0·11) for any mental disorder, and 0·12 (0·05–0·20) for depressive disorders. Our meta-regression analysis showed that none of the parameters from articles. Because several studies did not provide enough statistical information to be included in a meta-analysis, we did a narrative synthesis to summarise results with studies categorised as showing either a positive association, mixed results, or no association. The primary outcome in the random-effects meta-analysis was mental health-related morbidity, defined as the prevalence or incidence of any mental health problem. This study is registered with PROSPERO, number CRD42016036377.

Interpretation Income inequality negatively affects mental health but the effect sizes are small and there is marked heterogeneity among studies. If this association is causal and growing income inequality does lead to an increase in the prevalence of mental health problems, then its reduction could result in a significant improvement in population wellbeing.

Funding None.

Introduction Mental disorders are highly prevalent and are associated with a substantial proportion of the global burden of disease. Pooled 1-year prevalence of mental disorders is estimated to be 17·6% among adults1 and 13·4% among children and adolescents.2 It has been estimated that mental disorders account for 22·9% of all years lived with disability (YLD) worldwide,3 and for 32·4% of YLD when mental health problems that are not clinically diagnosable4 are considered. Studies have established that, along with genetic and biological factors, social determinants affect individual and population mental health,4,5 and that contextual factors, such as deprivation, poverty, and violence negatively affect mental health. Analysing data from a study of twins, Caspi and colleagues6 concluded that 20% of variance in children’s behaviour problems were attributed to contextual factors, and that neighbourhood deprivation accounted for 5% of the contextual effect. It has been proposed that income inequality affects health through a material pathway and a psychosocial pathway. In the material pathway, income inequality...
For the Centre for Review and Dissemination’s guidance see http://www.york.ac.uk/media/crd/Systematic_Reviews.pdf

For the protocol see http://www.crd.york.ac.uk/PROSPERO/display_record.asp?ID=CRD42016036377

See Online for appendix

A recent meta-analysis has shown that income inequality increases the odds ratio for poor health and the relative risk of mortality. However, empirical studies of the association between income inequality and mental health problems have shown mixed results, with some studies finding that greater income inequality is associated with higher prevalence of mental health problems, whereas other studies have reported no association. Methodological heterogeneity between studies might be responsible for such mixed results. We identified research by searching six electronic databases for studies investigating the association between income inequality and mental health problems.

Evidence before this study
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Implication of all the available evidence
Reducing income inequality could improve population mental health and wellbeing, which supports its inclusion in the public health agenda.

Methods
Search strategy and selection criteria
This systematic review followed the Centre for Review and Dissemination’s guidance for reviews in health care. The protocol is available online. We searched six electronic databases (Global Health, PsychARTICLES, PsycINFO, Social Policy and Practice, Embase, and MEDLINE) with no initial time or language restriction for articles published up to July 6, 2016. The following subject heading and keywords were used: (income inequality-related terms) AND (mental health-related terms OR resilience; the full search term list is available in appendix p 1). Studies not identified through the search were sought by consulting experts, and by checking reference lists of included articles and relevant review articles.

We included quantitative studies of the association of income inequality with prevalence or incidence of mental disorders or mental health problems, resilience, and use of mental health services. Inclusion criteria were: assessment of mental health problems at the individual level, and incidence of mental disorders would be lower, in people living in regions with greater income inequality.

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We aimed to investigate the association between income inequality and mental health-related morbidity, defined as the prevalence or incidence of any mental health problem. Specifically, we wanted to assess the association between income inequality and prevalence and incidence of mental disorders. Social capital and social cohesion, which are affected by income inequality, are thought to facilitate access to health care and to increase resilience, defined as the ability to cope with adversity. Therefore, we also investigated the association between income inequality and the use of mental health services and resilience. We hypothesised that the prevalence and incidence of mental disorders would be higher, and that resilience and use of mental health services would be lower, in people living in regions with greater income inequality.

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دریافت فوری
متن کامل مقاله

امکان دانلود نسخه تمام متن مقالات انگلیسی
امکان دانلود نسخه ترجمه شده مقالات
پذیرش سفارش ترجمه تخصصی
امکان جستجو در آرشیو جامعی از صدها موضوع و هزاران مقاله
امکان دانلود رایگان ۲ صفحه اول هر مقاله
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دانلود فوری مقاله پس از پرداخت آنلاین
پشتیبانی کامل خرید با بهره مندی از سیستم هوشمند رهگیری سفارشات