An investigation of factors supporting the psychological health of staff in a UK emergency department

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ABSTRACT

Study objective Research indicates emergency department doctors experience high levels of stress. Poor psychological health affects staff well-being and patient care, with considerable organisational and financial cost. This study compares levels of psychological health in medical, nursing and administrative staff from a UK emergency department with an orthopaedic comparison department. The study investigates the influence of coping strategies and the support people receive from their colleagues (ie, social support).

Methods Comparative design, using self-report questionnaires comparing emergency (n=73) and orthopaedic (n=63) staff. Measures included: General Health Questionnaire-12, Hospital Anxiety and Depression Scale, Brief COPE, and questions relating to social identity and social support.

Results The proportion of staff experiencing clinically significant levels of distress was higher than would be expected in the general population. The increased risk of psychological distress previously shown for emergency department doctors is not present here for other emergency staff members. Better psychological health was associated with greater use of problem-focused coping and less use of maladaptive coping. Social support was associated with better psychological health and greater use of problem-focused coping.

Conclusions Priority should be given to developing and evaluating interventions to improve psychological health for this group. Findings suggest that coping strategies and social support are important factors to incorporate into such interventions.

INTRODUCTION

Previous research indicates emergency department (ED) clinicians experience high levels of stress. Significant clinical distress has been found to be between 26.8% and 51% in ED doctors1–3 and 25% in nurses.4 This compares with 17.8% within the general population5 and 19–29% for doctors in other specialties.6–10 However, previous studies have tended to focus on single professional groups. This study extends previous findings by investigating levels of psychological health in medical, nursing and administrative staff from an ED, compared with those in an orthopaedic department in the same UK hospital. It also examines the influence of different types of coping strategies and social support on well-being.

Coping is one psychological factor that has been examined by studies with ED doctors. McPherson et al7 found that active coping (eg, taking action to try to make the situation better; trying to come up with a strategy about what to do) was associated with lower levels of anxiety and somatic complaints, whereas venting (eg, expressing negative feelings) was related to higher levels of anxiety and depression. Taylor et al11 found that active coping, action planning, humour and positive reinterpretation correlated significantly with better psychological well-being (lower perceived stress, depression and anxiety and higher life satisfaction). They found that use of drugs, alcohol, behavioural disengagement, and denial correlated significantly with poorer psychological well-being. Findings of these studies support the theory that problem-focused and adaptive emotion-focused styles are associated with better psychological well-being, while use of maladaptive coping strategies (denial, avoidance or behavioural disengagement, venting, alcohol/drugs, self-blame) is associated with lower levels of psychological well-being. We could expect this association between coping styles and psychological well-being to be present in other samples of ED doctors and could hypothesise that this would also be the case for other staff within the department. In addition researchers have found that different types of social support both at home and work are strongly associated with (a) well-being, both in general and by acting as a buffer to protect people at times of stress,12 and (b) the selection of particular coping styles.6 7 13

We would expect therefore in this study of hospital staff that social support would be related to better psychological health and would also be related to use of more effective coping strategies.

METHOD

A comparative mixed-groups design (ED vs orthopaedic department (OD) control group: administrative staff, nursing staff and doctors) was used. An OD was used as a control group for reasons of relative size and difference of work focus. Data were collected using demographics (age, gender, marital status, ethnicity, children, educational level, working pattern, hours worked per week, job title, grade, length in current post and length working for the NHS) and the following psychometrically validated self-report measures.

(a) The General Health Questionnaire-12 (GHQ12)14 15 is a self-report screening tool for identifying minor psychiatric disorder in the general population. It focuses on both the inability to carry out normal functions as well as the appearance of new and distressing psychological phenomena,
including feelings of strain, depression, inability to cope and lack of confidence.

(b) The Hospital Anxiety and Depression Scale (HADS)\(^{16}\) contains two scales, anxiety (HADS-A) and depression (HADS-D), both comprising seven questions rated on a scale from 0 to 3 to indicate severity. The anxiety and depression scores can be categorised clinically as normal (0–7), mild (8–10), moderate (11–14) and severe (15–21). A threshold score of 8 or above is suggested as most appropriate to indicate clinical significance.\(^{17,18}\)

(c) The Brief COPE\(^{18}\) consists of 14 scales, each of two measures, was above the level expected in the general population (GHQ) scores above cut-off indicating clinical significance (11.4% HADS depression scores above normal cut-off found in the general population\(^{16}\)).

LIMITATIONS

There are several limitations to this study which need to be considered before firm conclusions can be drawn. Incorporating different staff groups was both a strength and weakness to the design. This allowed the investigation of potential relationships between coping, social support and psychological health across the whole department, but meant that the overall sample was heterogeneous and the sub-samples were relatively small and thus did not allow an analysis of potential differences between staff groups within each department. The response rates were relatively high (50% for ED, and 39% for OD), but the possibility of non-response bias still exists because of uncertainty whether those respondents choosing to complete the questionnaires were representative of the departments as a whole. The reliance on self-report questionnaires is criticised by some researchers,\(^{19,20}\) although they were used in this study to allow the collection of a range of data from a relatively large sample and minimise participant burden as far as possible. However, this may have compromised the richness of data. Future research should consider replicating these findings across several ED departments, extending the measurement of key variables such as social support and well-being, and examining causal relationships between coping styles and well-being.

CONCLUSIONS

Emergency physicians, but not other ED staff, reported an increased risk of psychological distress. Clinically significant...
levels of general psychological distress were above general population levels in all staff groups. Increased psychological health was associated with the use of problem-focused coping strategies and higher levels of social support at work. Those reporting lower levels of psychological health were more likely to use maladaptive coping strategies. In order to improve psychological health in ED staff, use of problem-focused coping strategies and social support may be important factors to incorporate into interventions. We would recommend that further research is carried out to substantiate these findings.

Competing interests None.

Ethics approval This study was conducted with the approval of the Royal Devon and Exeter Local Research Ethics Committee.

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REFERENCES
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