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STRESS, BURNOUT, COPING AND STRESS MANAGEMENT IN PSYCHIATRISTS: FINDINGS FROM A SYSTEMATIC REVIEW

ANNE FOTHERGILL, DEBORAH EDWARDS & PHILIP BURNARD

ABSTRACT

Background: Research into stress among psychiatrists has attempted to identify stressors, which can lead to physical illness and psychological distress.

Aims: The aim of the study was systematically to review the current evidence for the effectiveness of stress management interventions for those working in the psychiatric profession.

Method: A systematic review of the current literature was conducted into stress and stress management within the profession of psychiatry.

Results: Twenty-three international studies were included in the psychiatry section of the review. Psychiatrists report a range of stressors in their work, including stress associated with their work and personal stresses. One personal stress, which psychiatrists find very difficult to cope with is patient suicide. Coping strategies include support from colleagues and outside interests. No studies evaluated the use of stress-management interventions for psychiatrists.

Conclusions: Psychiatry is a stressful profession. Psychiatrists identified several stressors in their professional and personal lives.

INTRODUCTION

Psychiatrists as a professional group are prone to stress, burnout and suicide (Thomsen et al., 1999). Studies in Europe, the United Kingdom (UK) and United States of America (USA) have been conducted over the last few decades to identify stressors specific to the psychiatric profession. Holloway et al. (2000) in a review of the literature cited several studies, which have identified stressors, stress outcomes and support systems used by psychiatrists who are probably the key members of the multidisciplinary team. Margison (1987, ch. 6) also gives a comprehensive review of stress in psychiatrists. He identified specific stressors, which affect psychiatrists in training including overwork, relationships with other staff, inadequate resources and organisation, threats to self-esteem and personal threats, for example dealing with violent patients. Consultant psychiatrists experience different stressors including the ‘buck stopping here’ when things go wrong, a sense of personal isolation within their professional role and obtaining resources from an ever-diminishing pool.

To evaluate the current evidence on stress management interventions and their effectiveness in reducing stress, a systematic review of the literature pertaining to all professional
groups working in the mental health field was conducted. The review also aimed to identify stressors, moderators and stress outcomes particular to each professional group. In this paper we report on findings from the professional group psychiatrists. The other professional groups included in this review were:

- clinical psychologists;
- psychiatric/mental health nurses;
- social workers;
- occupational therapists;
- mental health professionals.

**MODEL OF STRESS**

The review was based on the stress model developed by Carson and Kuipers (1998). The model proposes three levels of the stress process. The first level of the stress process suggests that there are stressors, which come from external sources. These include specific occupational stressors, everyday ‘hassles’ or ‘uplifts’, which can be cumulative and the stress associated with major life events.

The second level of the stress process are the ‘moderators’. Carson and Kuipers (1998) identified several factors, which can buffer against the negative effects of stress on individuals. These are high levels of self-esteem, good social support networks, hardiness and good coping skills, mastery and personal control, emotional stability and good physiological release mechanisms.

The final level of the stress model is the stress outcomes. Outcomes of stress can be both positive and negative. Positive outcomes include mental and physical well being and high levels of job satisfaction. Negative outcomes include ill health, burnout and low job satisfaction.

**METHOD**

The systematic review was conducted over a one-year period, and was completed June 2002. The study was based on the University of York’s guidelines for conducting systematic reviews (University of York NHS Centre for Reviews and Dissemination, 2001). This review was conducted in two parts. The first part focused on stressors, moderators and stress outcomes and included papers on stress, burnout and job satisfaction. The second part of the review retrieved papers that evaluated stress management interventions. Studies included were research articles dating from 1966 to 2000 undertaken in the UK that specifically identified participants as psychiatrists. Studies from other European countries and from the USA were examined as potential models of good practice.
SEARCH STRATEGY

The development of the search strategy involved searching various databases to gauge the extent of the literature on stress, burnout, coping and job satisfaction and stress management. Key English language and European language journals were identified through electronically searching PUBMED and Embase (Excerpta Medica Online). Further searching was undertaken to ensure a comprehensive review of the literature including SCI search (the Science Citation Index), SSCI Search (the Social Science Citation Index) and Pascal (the Science, Technology and Medicine index). Specialist databases were also searched. These were:

- CINAHL (nursing and allied health);
- ASSIA (social science);
- PsychLit (psychology, including clinical psychology);
- Clin Psych;
- Heathstar;
- Cochrane.

The search strategy used Medical Subject Headings (MeSH) terms combined with key words and text searches. These were:

**The MeSH search terms**
- Psychiatrists (CINAHL).
- Psychiatry (CINAHL).
- Mental health personnel (PsychLit, Clin Psych).
- Mental health service (EMBASE, CINAHL).
- Community mental health (EMBASE).

**The key words**
- Stress.
- Burnout.
- Coping.
- Job satisfaction.
- Stress management.

**The text words**
- Psychiatrist.
- Mental health professional.
- Mental health staff.

To locate unpublished articles, conference proceedings, university theses and commissioned reports a search was conducted on the electronic database SIGLE (System for Information on Grey Literature). The National Research Register was searched for current research.

After completing the electronic searches, the search was drawn to a conclusion by several stages of follow-up to identify any further relevant articles. This was undertaken by checking
reference lists of selected articles and reviews, by hand searching key journals and by writing to key authors. Hand searching of relevant journals was also conducted; these included International Journal of Social Psychiatry, Stress Medicine, Social Psychiatry and Psychiatric Epidemiology.

**RESULTS OF THE SEARCH**

A total of 65 articles deemed potentially relevant to the review were found and all of them were obtained in hard copy.

**INCLUSION CRITERIA**

The articles were further evaluated for their relevance to the review using the following inclusion criteria: English language publication; relates to the profession psychiatry; primary research papers; and measures stressors/moderators/stress outcomes. Two reviewers independently read and assessed each paper. Where there were differences the article was re-read and re-assessed. Reasons for excluding papers from the review are summarised in Table 1.

A preliminary review of the literature found that there was little qualitative research conducted in this area probably because most research uses quantitative tools to measure levels of stress and burnout. Qualitative papers and commentaries are important to include in systematic reviews but to date there are no appraisal tools available to evaluate non-experimental research. The Cochrane collaboration is currently developing a tool for this purpose. The inclusion of qualitative papers was outside the scope of the authors’ review.

**RESULTS**

Twenty-three articles were included in the psychiatry section of the final review. There are few adequate studies reporting sources of stressors, moderators and stress outcomes for psychiatrists working within the UK. The majority of studies have been carried out in the USA and Canada.

<table>
<thead>
<tr>
<th>Exclusion criteria</th>
<th>Psychiatrists</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foreign</td>
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</tr>
<tr>
<td>Other professional group</td>
<td>14</td>
</tr>
<tr>
<td>Not research</td>
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<tr>
<td>Insufficient data</td>
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</tr>
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<td>Outcome measures</td>
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<tr>
<td>Duplicate publication</td>
<td>0</td>
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<tr>
<td>Total</td>
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STRESSORS

Levels of stress found among old age psychiatrists in the UK were described as moderate and normal for a busy professional (Benbow & Jolley, 1999). Benbow and Jolley (1997) also found that the client group was not a factor in how stressed psychiatrists are. Old age psychiatrists did not mention that working with elderly clients was stressful. One reason for this might be that they had chosen to work in this area of psychiatric speciality. Old age psychiatrists who spent longer on acute wards were most likely to feel stressed (Benbow & Jolley, 1997). There were gender differences with male psychiatrists finding time spent travelling and following up clients in the community more stressful, while female psychiatrists were more stressed by longer total working hours, seeing relatives, ward consultations and commitment to hospital-based outpatient clinics (Benbow & Jolley, 1999).

Frequently cited sources of stress for American psychiatrists were negative characteristics of patients and their relatives, administrative and organisational shortcomings, resource deficiencies, staff performance and staff conflicts (Dawkins et al., 1984).

The sources of stress for psychiatric administrators in the USA included professional identity (no time for family, teaching, clinical, research isolated), job-related (restricted ability regarding hiring and firing of staff, scare resources, lack of feedback) and scrutiny stress (paperwork, rumour) (Sherwood & Greenblatt, 1987).

Other sources of stress experienced by American psychiatrists resulted from lack of positive feedback, frequent supervisory duties, long hours of work, too much work and a poor working environment (Dallender et al., 1999). Clark and Vaccaro (1987) identified lack of administrative support and low pay as important factors contributing to stress levels in psychiatrists in the UK.

Patient suicide is a major stressor for many psychiatrists. Chemtob et al. (1998) studied the frequency and impact of patients’ suicide on American psychiatrists’ personal and professional lives. Stress levels as measured on the Impact of Event Scale were high and equivalent to levels found in people suffering the loss of a parent. The majority of the psychiatrists (57%) reported experiencing post-traumatic stress symptoms. Younger psychiatrists were more affected by a patient suicide than their older more experienced colleagues (Chemtob et al., 1998). Using the same scale Cryan et al. (1995) found that there were no differences in the impact of a patient suicide among medical students and qualified psychiatrists in the UK. The majority of participants did not report patient suicide had brought a definite or major impact on their professional practice.

Another study conducted in the UK found that junior psychiatrists had more psychological distress, work-related stress and symptoms of burnout than the consultants did. The causes were not identified in this study although non-work-related stress such as bereavement was a contributing factor to increased stress in psychiatrists, which might affect their work performance (Guthrie et al., 1999). The transitional period from leaving training to career is a stressful time; the stressors during this period are difficulty with patients, examination worries, marital stress and physical illness (Looney et al., 1980).
MODERATORS

Coping mechanisms effectively adopted to deal with the stress include support from partner, recreational activities, relationships with colleagues/peers and holidays (Looney et al., 1980). The most important coping mechanisms for psychiatrists in the UK were the support of a loved one and from colleagues (Dallender et al., 1999). This strategy was used by psychiatrists to help them deal with a patient’s suicide (Chemtob et al., 1998). Support with work-related problems was a key factor in experiencing lower work-related exhaustion and higher mental energy for psychiatrists in Sweden and the UK (Thomsen et al., 1998).

When compared to mental health nurses, psychiatrists were more likely to adopt a ‘passive’ coping strategy of ‘keeping the problem to themselves’ (Dallender et al., 1999). However, another study reported no differences in use of active coping strategies between the two groups (Thomsen et al., 1999).

Predictors of a healthy workplace for both Swedish and English psychiatrists included high self-esteem, manageable workload, positive views about organisational leaders, low emotional exhaustion and active participation in the organisation (Thomsen et al., 1998).

STRESS OUTCOMES – BURNOUT

A number of studies conducted in the UK, USA and Europe have reported on levels of burnout among psychiatrists. Factors which contribute to feelings of dissatisfaction and burnout are lack of administrative support and validation, low pay, responsibility without corresponding authority, too much paperwork, too much bureaucracy (Clark & Vaccaro, 1987), decreasing involvement in providing psychotherapy (Kalman & Goldstein, 1998) and personality (Naisberg-Fennig et al., 1991).

Personality was an important factor when predicting how prone a psychiatrist was to burnout (Naisberg-Fennig et al., 1991; Deary et al., 1996a). A study conducted by Naisberg-Fennig et al. (1991) raised the controversial question should screening be implemented to screen out doctors with ‘vulnerable’ personalities (i.e. neurotic personality types) before they enter the psychiatric specialty.

Thomsen et al. (1998) found that psychiatrists with low self-esteem were prone to burnout. A study by Snibbe et al. (1989) found that psychiatrists were more likely to suffer from depersonalisation than psychologists.

When compared with mental health nurses, psychiatrists experienced greater workload, better possibilities for personal development and experienced more work-related exhaustion (Thomsen et al., 1999). Organisational characteristics were found to be more important than individual characteristics in predicting exhaustion and professional fulfilment for psychiatrists and mental health nurses (Thomsen et al., 1999).

Factors associated with increased emotional exhaustion were being male and working 12-hour shifts (Hiscott & Connop, 1989, 1990) and clinical supervision and leadership style (Webster & Hackett, 1999). Spending over 50% of time in direct client contact is associated with increased depersonalisation (Savicki & Cooley, 1987). Factors associated with a lower sense of personal accomplishment were working in wards/departments with difficult patients,
being male with a heavy workload (Hiscott & Connop, 1989, 1990) and having a high percentage of people suffering with schizophrenia in the population (Pines & Maslach, 1978).

**STRESS OUTCOMES: JOB SATISFACTION**

Psychiatrists working in the private practice in the USA reported lower levels of job satisfaction than expected (Kalman & Goldstein, 1998). The majority of psychiatrists across all settings report being satisfied or very satisfied with their work (Leehey & Misiaszek, 1985; Kazarian *et al.*, 1995).

Psychiatrists in Germany perceived more autonomy in their work and were more satisfied when they actively participated in decisions, received and gave feedback on work performance (peer review) and worked in organisations where management used supportive communication practices (Schulz & Schulz, 1988).

Psychiatrists working within community mental health centres were most satisfied about their opportunity to do things for others. They were also generally satisfied with being able to keep busy, the amount of job security they have, the chance to work alone and the degree to which they used their abilities and felt a sense of accomplishment (Baker *et al.*, 1997).

Factors which contributed to job satisfaction are having a variety of tasks and challenges, being valued, having support in their role, being in charge of the entire centre’s operations, being affiliated with an academic centre or the medical community (Clark & Vaccaro, 1987). Other factors were being female with children (Goldstein *et al.*, 1981) and research-driven policies (Kazarian *et al.*, 1995).

**STRESS OUTCOMES: PSYCHOLOGICAL DISTURBANCE**

High levels of psychological distress have been reported with about 25% of psychiatrists in the UK scoring above the threshold for vulnerability to psychiatric morbidity (Guthrie *et al.*, 1999). Psychiatric caseness was also found to be high in psychiatrists in England and Sweden (Thomsen *et al.*, 1998). The highest suicidal tendencies among male physicians occur in psychiatrists (Olkinuora *et al.*, 1992).

**STRESS MANAGEMENT INTERVENTIONS**

No studies on stress management interventions that had been specifically conducted with psychiatrists were located in the review. Three intervention studies were identified whose samples were referred to as mental health professionals. These established that levels of burnout did not change for mental health workers who attended staff development workshops. However staff that attended the workshop accompanied by a period of sustained consultation experienced significantly lower levels of emotional exhaustion (Hunnicutt & MacMillan, 1983). Female mental health workers at risk of burnout experienced significantly lower emotional exhaustion and depersonalisation after they participated in an intensive stress reduction.
programme in the form of weekend conferences and follow-up support groups (Mehr et al., 1995). Following a period of interdisciplinary education mental health workers experienced increasing satisfaction with continuing education opportunities and with the number of peers available for professional interaction (Bhatara et al., 1996).

**DISCUSSION**

Most of the literature on stress and stress management has been conducted outside of the UK. Evidence from the papers reviewed suggests that psychiatrists experience significant levels of stress. Specific stressors include overwork, management and resource issues, personal stresses, lack of time, organisational changes, lack of administrative support and low pay.

Significant factors leading to psychiatrists becoming prone to burnout were gender (Benbow & Jolley, 1997), age (Guthrie et al., 1999) and personality type (Naisberg-Fennig et al., 1991). A number of studies have noted that female psychiatrists experience more stressors than male psychiatrists. The causes of stress are also different. Women are less satisfied with pay, rewards, training, current employment and autonomy (Goldstein et al., 1981). Job satisfaction is reduced for women psychiatrists when they are simultaneously combining the demands of work with having children. Role conflict is one explanation given for this (Goldstein et al., 1981). Junior psychiatrists have been found to experience significantly more work-related stress than their more experienced counterparts (Guthrie et al., 1999).

The majority of psychiatrists will experience a patient suicide at some time in their career. Patient suicide is an occupational hazard for psychiatrists. The personal stress brought on by this event is significant. Psychiatrists’ experience feelings of anger and guilt, loss of self-esteem and have intrusive thoughts of suicide (Chemtob et al., 1998) and reduced performance. Cryan et al. (1995) reported that the personal stress of a patient suicide among Irish psychiatrists was significant but lower than that reported in Chemtob et al.’s study of American psychiatrists. Training to deal with suicide is seen as a stress management strategy and is recommended by Cryan et al. (1995) and Chemtob et al. (1998).

Even with the high levels of distress reported psychiatrists have high levels of job satisfaction. Being valued, variety of tasks and having support in their role were some factors, which contributed to job satisfaction (Clark & Vaccaro, 1987). Job satisfaction is not seen as enough to reduce the level of strain felt by psychiatrists (Dallender et al., 1999). One reason for this might be that psychiatrists when faced with ‘too much work’ implemented a ‘passive’ coping strategy, that is ‘they keep the problem to themselves’ (Dallender et al., 1999).

When compared with physicians from other specialities psychiatrists report significantly more stress as a result of organisational constraints, fewer clinical demands and experienced more emotional exhaustion as a result of work and more severe depression (Deary et al., 1996b).

The studies included in this review of psychiatrists reported on stressors and coping strategies to deal with working in a challenging and demanding profession. None of the studies evaluated the effectiveness of specific stress management techniques. There are, however, a number of techniques reported in the literature, which mental health workers have found helpful. These include relaxation training (Watson, 1986; Peacock, 1991), organisational problem solving (Peacock, 1991), staff support groups (Peacock, 1991), confidential counselling...
(Peacock, 1991) and staff sensitivity sessions (Peacock, 1991). Other stress management activities include in-service training in behavioural therapy (Milne et al., 1986); creative accommodation (Gordon & Goble, 1986), and stress management workshops (Watson, 1986; Kunkler & Whittick, 1991); staff development workshops (Hunnicutt & MacMillan, 1983); staff consultations (Hunnicutt & MacMillan, 1983); ward reorganisation (Milne et al., 1986); stress reduction programmes (Mehr et al., 1995); change in nursing care delivery (Melchior et al., 1996); interdisciplinary education (Bhatara et al., 1996) and a training course in ‘Type A’ therapeutic skills (Lemma, 2000).

Stress management/development workshops have covered a range of topics. These include increasing awareness of causes and symptoms of burnout (Hunnicutt & MacMillan, 1983; Kunkler & Whittick, 1991), development of effective coping strategies (Hunnicutt & MacMillan, 1983; Kunkler & Whittick, 1991), relaxation (Watson, 1986; Kunkler & Whittick, 1991), biofeedback, autogenics (Watson, 1986) and self-hypnosis (Watson, 1986). Individual coping strategies are used to deal with the potential negative effects of stress; these are not always effective in reducing levels of stress and burnout. From the literature, more effective coping strategies need to be implemented at both individual and organisational levels to reduce the impact the many identified stressors have on psychiatrists’ work and home lives. The effectiveness of specific stress management techniques needs to be formally evaluated. Training/education should be given in these techniques; psychiatrists may then be able to implement them usefully to enhance their own mental and physical well being.

**CLINICAL IMPLICATIONS**

There are a number of clinical implications resulting from high stress levels among psychiatrists. These include:

1. High levels of stress and burnout among psychiatrists may have an impact on their effectiveness working with clients.
2. Education and training is needed to help psychiatrists deal with the many identified stressors generated from the challenging and emotionally demanding work they engage in.
3. The personal stresses associated with patient suicide needs to be addressed to avoid the real psychological problems experienced by psychiatrists trying to cope with this difficult situation.

**LIMITATIONS OF THE STUDY**

There were a number of methodological weaknesses identified:

1. Findings were often not supported by statistical data, and few of the studies reported statistically significant findings.
2. In some of the papers located, data was gathered from staff in just one workplace (e.g. one community mental health centre), while in others data was gathered from staff across many sites. A wide range of research tools were used in the studies to measure stressors,
Moderators and stress outcomes for psychiatrists. This makes it difficult to compare findings between different studies.

3. Finally, findings from the USA, Canada and European countries give some data, which might be usefully applied to the UK, but different countries operate very different health care systems, which means that generalising the various studies’ findings is problematic and caution should be exercised.

ACKNOWLEDGEMENT

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