Doctors practising in anaesthesia are constantly working in a high-fidelity, high-stakes environment. Causes for this are numerous, with long working hours, sustained vigilance, the unpredictability of stressful situations, fear of litigation, team work and production pressure. Chronic exposure to these stressors can lead to burnout syndrome.

The Maslach Multidimensional Theory of Burnout is the most widely accepted model that defines the syndrome of burnout. The theory is based on three dimensions of burnout: exhaustion, distancing or depersonalisation, and reduced personal accomplishment. Thus, burnout is not a single entity, but a combination of concepts, with exhaustion leading to depersonalisation and a simultaneous progression to a diminished sense of personal accomplishment.

Burnout has been identified as an occupational hazard in the medical field. Embriaco et al assessed the level of burnout in physicians working in intensive care units and found that a high level of burnout was identified in 46.5%. Fields et al determined the prevalence of burnout among paediatric intensivists and concluded that 36% of physicians were at risk of burnout, while 14% had burnt out.

Burnout has been well documented in anaesthesiology. Morais et al assessed stress and burnout in Portuguese anaesthesiologists and found that 57.9% experienced emotional exhaustion, 44.8% a lack of personal accomplishment and 90.9% depersonalisation. Kluger et al measured burnout in Australian anaesthesiologists and found 20% experienced high levels of emotional exhaustion, 20% high levels of depersonalisation and 36% low levels of personal accomplishment.

The majority of studies have found that younger employees are more prone to high levels of burnout. Nyssen et al studied 151 doctors working in anaesthesia and found the highest rate of burnout was in young trainees under 30 years of age. Gender has not been shown to be a strong predictor of burnout.

The interaction between the individual and his or her set of surroundings has been found to play an important role in burnout. Burnout has been associated with work overload, in other words, increased job demand in the available time in which to produce results. This specific stressor strongly relates to emotional exhaustion.

Conflicts between supervisors and colleagues have also been seen as a cause of burnout. Kluger et al found that improving interpersonal relationships decreased burnout levels in Australian anaesthetists.

Lack of job resources, most notably social support, has been noted in several studies as being linked to increased levels of burnout. A lack of feedback and autonomy relates to lack of resources. It has been found that when employees have little participation in decision-making, burnout levels are higher.

Burnout and stress have physical, psychological and behavioural effects. The fight-or-flight response is activated each time a person is stressed. The effects of long term increases in cortisol and disturbances in other hormonal pathways (hypothalamic-pituitary-adrenal axis and renin-angiotensin-aldosterone system) have been linked to most of the clinical symptoms seen in burnout.

Increased risk of cardiovascular disease (hypertension and atherosclerosis), sleep disorders, immune compromise, gastrointestinal tract disturbances, fatigue and accelerated ageing all correlate with increases levels of stress and burnout.

Consequences of burnout are legion, including, but not restricted to, reduced productivity, absenteeism, poor turnover and reduced patient safety. This leads to a knock-on effect within the institution to cut costs in order to counterbalance reduced productivity. The end result is a perpetual cycle, with the institution adding constraints, which, in turn, causes increased levels of stress and burnout in the medical professional.

The increased rate of suicide, twice as high as that of the general public, and the elevated incidence of chemical dependence in doctors working in anaesthesia, is a major cause of concern.

The Professional Wellbeing Work Party (PWBP) of the World Federation of Societies of Anaesthesiologists (WFSA) found that 90% of its members considered burnout to be a significant problem, but only 14% had developed any kind of coping strategy with which to manage it. In their literature review, Hyman et al concluded that given the prevalence of burnout, more can be achieved in terms of research on finding mitigating strategies to address the problem.

Maslach et al noted that stress results from a misfit between an individual and the job. Six areas were identified, namely...
workload, control, reward, community, fairness and values. Some of these areas are not under the physician’s direct control, e.g., workload. This makes an important argument for the involvement of management in alleviating stress and burnout in the workplace, as a reduction in case loads and after-hour calls can positively affect the situation. Studies have shown that changing working conditions, managing interpersonal conflict, improving work organisation (e.g. the presence of skilled assistance in theatre) have all reduced burnout scores in anaesthetists.

Most studies have focused on educational interventions to enhance individuals’ capacity to cope and thus improve burnout. Isaksson et al carried out a cohort study on 185 doctors, followed by a self-reported assessment one year later, and found that short-term counselling could contribute to a reduction in emotional exhaustion. Similarly, Peterson et al conducted a randomised controlled trial, with peer-support groups on 151 healthcare workers using a problem-based method, and found peer-support groups to be a useful and inexpensive way of decreasing stress and burnout in the workplace.

Time away from work has also been identified as a contributor to burnout reduction, as it was shown that part-time general practitioners had significantly less signs of burnout compared to their full-time counterparts.

A review article by Jackson discussed the benefits of “self-care” which comprises physical activity, nutrition and meditation, which enhance well-being and resilience as a way of promoting longevity and stress relief. A population-based survey on 474 physicians working in paediatric critical care, showed that routine exercise was associated with lower burnout scores.

As mentioned above, the job environment or organisation must be seen as a modifiable factor. It has been found that organisational factors play a greater role than individual factors in causing burnout. More research has been carried out on individual intervention than changing the organisation as it was thought to be cheaper and easier. On its own, individual strategies fall short of their goal because in the workplace, a person has much less control over stressors, compared to other aspects of his or her life. Effective change occurs when both individual and organisational factors are addressed.

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References