Multipronged intervention for reducing burnout and increasing resiliency in an interdisciplinary care team

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INTRODUCTION

The WHO classifies burnout as a syndrome ‘resulting from chronic workplace stress that has not been successfully managed’ and characterised by ‘feelings of energy depletion or exhaustion; increased mental distance from one’s job, or feelings of negativism or cynicism related to one’s job; and reduced professional efficacy’. 1 Burnout is a significant factor in healthcare; it is estimated over half of the physicians experience burnout and the US health system loses US$4.6 billion a year in burnout-related turnover and loss of clinical hours. 2, 3 Resilience, ‘the ability to achieve an adequate and positive adjustment to adversity’, (p111) 4, 5 has been shown to be a protective factor against burnout and assist employees in continuing to work. 4, 6 Therefore, effective approaches to reducing burnout and increasing resilience can be of value to healthcare professionals and ultimately healthcare systems. Interventions found to be effective include meditation, 7, 8 mindfulness training, 7, 10-12 gratitude 13, 14 and increasing workflow efficiency. 15

This programme evaluated the implementation of three interventions designed to reduce burnout and increase resilience among members of an interdisciplinary healthcare team. This team experienced substantial turnover over a year’s time, losing 5 of 10 members. There was a need for resiliency strategies for team members in an effort to reduce turnover and enhance professional fulfillment. This report summarises the results of these interventions.

METHODS

Interventions

Three distinct interventions were administered to an eight-member interdisciplinary adult cystic fibrosis care team at an academic medical centre during weekly team meetings for 3 months. The first intervention was Three Good Things, an exercise to promote resilience and well-being through the identification of positive aspects of one’s day. 16 Participants were shown a video 17 explaining the Three Good Things practice and asked to record three good things daily for 2 weeks in journals created by a psychologist and dietitian. For 4 weeks, the team also spent 5 min at the beginning of each meeting to share a good thing. The second intervention was a presentation by a productivity expert from the institution’s human resources department on strategies and tools to work more efficiently with less stress, as decreased productivity is a common symptom of burnout. 18 The third intervention was a meditation practice led by a psychologist and dietitian. Team members were shown a video on the benefits of meditation, led in a guided meditation and encouraged to use a free 10-day meditation programme on the Headspace app. 19 In addition, the team implemented a 1-min mindfulness exercise during the meeting for the final 4 weeks of the programme. Patients or members of the public were not involved in the project.

Measures

Team members were administered the Perceived Stress Scale-10 (PSS-10) 20, 21 and Professional Fulfillment Index (PFI) 22 surveys prior to and at the end of the 3-month intervention period. The 10-item PSS-10 measures perception of stressful situations by having the respondent rate the occurrence of psychological stress on a 5-point scale ranging from 0 (‘never’) to 4 (‘very often’). Responses are summed; higher scores indicate greater psychological stress. PSS-10 population norms are based on probability samples of the US population in 2006 and 2009. 23 The 16-item PFI comprises professional fulfillment and burnout scores, the latter of which includes work exhaustion and interpersonal disengagement subscores. Two-tailed paired t-tests were used to evaluate whether score differences were statistically significant (p<0.05). Team members were administered an anonymous five-question survey at the end of the intervention period on the usefulness of the interventions for reducing stress and increasing resiliency and fulfillment at work (‘not helpful’, ‘somewhat helpful’ or ‘very helpful’).
Interventions were found to be ‘very helpful’ by at least one team member. Therefore, it may be prudent to consider multiparted approaches to decrease burnout and increase resiliency, as individuals may respond differently to interventions.

Limitations include small sample size and survey administration timing. Independent effects of each intervention may be better understood if survey administration occurred throughout the programme rather than preintervention and postintervention. Future research should include larger sample sizes and increased measurement between interventions.

CONCLUSION

Burnout is a critical issue in healthcare. A multiparted approach may be useful to decrease burnout and increase resiliency in team members. These interventions may provide teams with inexpensive, easy to implement and sustainable options for promoting resilience.

RESULTS

At the end of the intervention period, there was a significant decrease in PSS-10 scores. The mean score decreased from the 54th to 36th percentile compared with population normative values (p=0.017). Of eight team members, seven had a decrease in PSS-10 score. The PFI work exhaustion mean subscore decreased from 5.75 to 4.14 (p=0.030) and there was a non-significant decrease in the mean burnout subscore from 9.00 to 6.57 (p=0.106). There was no difference in professional fulfillment and interpersonal disengagement subscores. All team members completed the post intervention survey. At least one person rated each intervention as ‘very helpful’ for reducing stress, increasing resiliency and/or increasing fulfillment at work (figure 1). Three Good Things received the most ‘very helpful’ ratings (figure 1). Overall, three team members selected Three Good Things as the most helpful intervention, two selected the productivity skills presentation and one selected meditation. For each intervention, four of eight team members indicated they planned to use the intervention again.

Team member retention increased from 5 of 10 (50%) in 2017 to 9 of 10 (90%) in 2018, the year of programme implementation. The subsequent annual retention rate in 2019 was 8 of 10 (80%).

DISCUSSION

Previous studies have identified effective interventions to reduce burnout and improve resiliency, including meditation,7−9 mindfulness training,7 10−12 gratitude,13 14 and increasing workflow efficiency.15 Consistent with these findings, this multiparted approach to reduce burnout and increase resiliency contributed to a significant decrease in team member stress and work exhaustion scores over a 3-month period. Of the three interventions, more team members reported Three Good Things as most helpful. All interventions were found to be ‘very helpful’ by at least one team member. Therefore, it may be prudent to consider multiparted approaches to decrease burnout and increase resiliency, as individuals may respond differently to interventions.

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Acknowledgements The authors would like to thank the University of Virginia interdisciplinary adult cystic fibrosis team for their participation in this program, Dr Dana Albon for her support of this program and her mentorship, Marine Power of the University of Virginia Human Resources Department for her presentation on productivity, and the Cystic Fibrosis Learning Network for introducing the concept of Joy at Work to the authors.

Contributors Both HB and LSG planned the program, performed data collection, conducted data analysis, drafted the manuscript, critically reviewed the manuscript and approved the final version.

Funding The authors have not declared a specific grant for this research from any funding agency in the public, commercial or not-for-profit sectors.

Competing interests None declared.

Patient and public involvement Patients and/or the public were not involved in the design, conduct, or reporting, or dissemination plans of this research.

Patient consent for publication Not required.

Provenance and peer review Not commissioned; externally peer reviewed.

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