

BRIEF REPORT

Improving Resilience and Combating Burnout in US Army Health Care Teams

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Introduction: In 2015, the Army Office of the Surgeon General adapted a Veterans Health Administration course for health care teams to implement holistic health practices to improve the resiliency of health care teams and patient care. The Army course Move to Health was piloted in health care teams at 8 military clinics. During the 20-hour course, health care teams learned techniques to improve their resiliency and created action plans to incorporate holistic health into the workplace, a known factor in decreasing burnout.

Methods: A process and outcome evaluation of this course was conducted using a within-group design. Surveys were administered to health care teams at precourse and 2-month follow-up, and 186 participants completed both surveys.

Results: Burnout among team members did not significantly change from precourse (52%, $n = 96$) to follow-up (48%, $n = 90$). At follow-up, team members described using resiliency building strategies for self-care, significantly improved their self-efficacy to treat patients holistically in the patient-centered care home model, and reported increased satisfaction with patient centered care home (all are $p < 0.01$). However, 70% ($n = 131$) of team members reported that they had not completed action plan implementation and did not report improved job satisfaction.

Discussion: Informed by the literature, Move to Health combines an individual resiliency intervention with organizational change, facilitating action plans to mitigate burnout. This manuscript explores potential reasons for why burnout did not significantly change within the 2-month period following the intervention. Reducing burnout among health care teams is vital to ensure that optimal health care is provided to the military and its beneficiaries. (J Am Board Fam Med 2020;33:440–445.)

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Introduction

Burnout

High rates of military and civilian health care professionals suffer from burnout^{1–5} due to both

personal and environmental factors, including work-life imbalance, having too many competing priorities, administrative demands, inadequate

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staffing, and lack of professional efficacy.^{1-4,6-9} Burnout is generally defined as the emotional exhaustion and depersonalization that result as an innate stress response to the workplace; some definitions include reduced or perceived lack of personal accomplishment.¹⁻⁹ The literature shows the negative effect burnout has on health care professionals' well-being, quality of patient care, and staff turnover.^{1-4,7,10} Resiliency building training is used to reduce burnout in the workplace; however, recent literature indicates the importance of addressing organizational factors for burnout and implementing organizational changes in combination with resiliency training.^{1,3,5,8}

Burnout and the Military Patient-Centered Medical Home (PCMH)

Military health care professionals experience unique stressors that can exacerbate the risk of burnout, including high demand of services due to ongoing military conflicts and frequent staff turnover due to change in duty station.² Similar to the civilian sector, military primary care has shifted from acute care toward chronic disease management, which led to adoption of the PCMH model in 2009.¹¹ The PCMH model is associated with improved patient satisfaction and decreased burnout in both civilian and military health care team members.¹² The Army Office of the Surgeon General develops programs to promote holistic health and implemented the Move to Health (M2H) course, which combines self-resiliency training and organizational changes to support military PCMH teams.

In 2013, the Veteran's Health Administration implemented holistic health practices among clinical staff by implementing the "Whole Health: Change the Conversation" course. This course showed improvements from precourse to follow-up in holistic health outcomes, such as intention to engage in holistic health behavior.¹³ In 2015, the Army adapted the course for an Army audience and patient population and focused on addressing burnout. The Army course M2H supports the integration of holistic health behaviors into the Army PCMH. Given that the annual cost associated with burnout related to staff turnover and reduced clinical hours is approximately \$7600 per employed physician each year, there is economic benefit to reducing burnout.¹⁴

Figure 1. The elements of self-care.



Move to Health

The M2H is a 3-day, 20-hour course that focuses on small group work. Day 1 focuses on "experience," which guides health care teams through self-care elements, such as mindfulness and mindful movements, self-assessment, and communication skills (Figure 1). Day 2 focuses on "practice," where teams learn about the evidence base for holistic approaches to common primary care conditions, such as cardiometabolic disease, gastrointestinal disease, and chronic back pain. Role-play scenarios allow providers to practice motivational interviewing and health coaching skills. Day 3 focuses on "implementation," where teams create short- and long-term action plans to implement M2H concepts as part of larger organizational change. Thereafter, course facilitators serve as a resource to teams that need additional support to implement the organizational changes outlined in their long-term action plans; there was no predetermined time frame to implement action plans.

The M2H course goals include improving team members' resiliency and self-efficacy in treating patients holistically, with the ultimate goals of reducing burnout and improving patient care. However, the purpose of this article is to present the evaluation of M2H and burnout.

Methods

Subjects

The Army Public Health Center's Public Health Review Board approved this evaluation as ethical public health practice. Between May and September 2015, 8 military clinics chose to have the M2H course and 347 team members participated in it (Table 1). All participating clinics intended to make organizational changes to improve the wellbeing of employees. Course facilitators distributed course information to clinic leads for recruitment, asked health care team members to complete article surveys at precourse and postcourse, and emailed invitations to complete the online follow-up survey 2 months later. This article presents results from only those who completed both pre-course and follow-up surveys ($n = 186$), as outcomes of interest were collected at those time points.

Table 1. Demographic Variables*

Variable (Valid N)	n (%) of Health Care Team Members
Sex (N = 334)	
Male	105 (31)
Female	229 (69)
Age in years (N = 335)	
22–34	95 (28)
35–44	109 (33)
45–54	85 (25)
>55	43 (13)
Ethnicity (N = 334)	
Asian/Pacific Islander	31 (9)
African American	37 (11)
Hispanic/Latino	45 (13)
White (non-Hispanic or Latino)	200 (60)
Other	14 (4)
Prefer not to answer	7 (2)
Years worked in current location (N = 333)	
Less than 1 year	95 (29)
1–3 years	136 (41)
4–7 years	69 (21)
8–11 years	19 (6)
12 years or more	14 (4)
Occupation categorized (N = 318)	
Provider	119 (37)
Nurse	157 (49)
Other occupation	42 (13)

* $n = 374$ at pre-course. Some health care team members declined to answer demographic questions; therefore, valid N varies for each variable.

Design and Measures

This evaluation used a pre- and postintervention group survey design. Burnout was assessed with single items for emotional exhaustion and depersonalization adapted from the Maslach Burnout Inventory for the military.^{15,16} Indicators of burnout are reported in 2 categories. Individual resiliency was assessed with single items for job satisfaction and satisfaction with PCMH, 5 items for perceived self-efficacy to treat patients holistically, and open-ended questions about how strategies are used in patient care and personal life. Perceived self-efficacy ($\alpha_{\text{pre}} = 0.86$; $\alpha_{\text{follow-up}} = 0.93$) was measured as a mean score of 5 items, with possible scores ranging from 0 to 4 and higher scores indicating higher self-efficacy. Implementation was measured with 3 close-ended questions and 2 open-ended questions.

Statistical Analysis

Quantitative survey data were analyzed with Statistical Package for the Social Sciences (SPSS) version 21 (IBM Corporation, Armonk, New York). Nonparametric testing examined differences in single item outcomes. The paired-sample t test was used to compare differences in self-efficacy scores. Open-ended survey items were analyzed using a priori-directed content analysis in NVivo 10 (QSR International, Melbourne, Australia), and key findings are summarized herein.

Results

Burnout

At precourse, 52% of the team members ($n = 96$) enrolled in M2H reported at least 1 symptom of burnout (emotional exhaustion or depersonalization) compared with 48% ($n = 90$) of team members at follow-up; however, these percentages did not statistically differ, with McNemar χ^2 (173) = 1.11 and $P > .05$ (Table 2).

Resiliency

Job satisfaction at precourse was high, with 47% ($n = 86$) of team members indicating they were “usually” satisfied with their job and 15% ($n = 28$) indicating they were “always” satisfied with their job (Table 2). Although Wilcoxon matched pairs test found no significant difference in job satisfaction from precourse to follow-up ($Z = -0.6$, $P > .05$), satisfaction with the PCMH statistically increased from precourse to follow-up (Wilcoxon

Table 2. Outcome Changes over Time (n = 186)

Parameter	Pre-Course	Two-Month Follow-up	P value
Burnout			
Emotional exhaustion			
n (% high)	71 (38%)	80 (43%)	
Depersonalization			
n (% high)	57 (31%)	56 (30%)	
At least 1 burnout symptom	96 (52%)	90 (48%)	>0.05
Job satisfaction			>0.05
Never	0 (0%)	1 (1%)	
Rarely	2 (1%)	3 (2%)	
Occasionally	5 (3%)	8 (4%)	
Sometimes	28 (15%)	25 (13%)	
Frequently	36 (19%)	37 (20%)	
Usually	86 (46%)	83 (45%)	
Always	28 (15%)	27 (15%)	
Satisfaction with PCMH			<0.01
Never	6 (3%)	4 (2%)	
Rarely	10 (5%)	11 (6%)	
Occasionally	11 (6%)	12 (7%)	
Sometimes	66 (36%)	38 (20%)	
Frequently	24 (13%)	32 (17%)	
Usually	43 (23%)	51 (27%)	
Always	24 (13%)	37 (20%)	
Self-efficacy			
Mean (SD)	2.8 (0.7)	3.2 (0.6)	<0.01

PCMH, patient-centered medical home; SD, standard deviation.

matched pairs, $Z = -3.2$, $P < .01$). In addition, self-efficacy scores were statistically higher at the follow-up ($M = 3.2$, $SD = 0.6$) relative to the precourse ($M = 2.8$, $SD = 0.7$) ($t(142) = -7.1$, $P < .01$).

On the follow-up survey, team members were asked, “Can you describe how you are applying Holistic Health Concepts to your own life since taking the course?” Team members commonly described an “increased focus on stress management, rest, and life balance” (Figure 2). Team members noted using wellness applications presented in the course to help improve sleep, physical activity, and nutrition. Destressors included practicing yoga, mindfulness meditation, and physical activity. One member noted, “I have decided to incorporate yoga for both the mobility and stress relief benefits. I destress at the gym and by running but it is always good to have another tool to use.”

Organizational Changes at Follow-up

Approximately two-thirds of team members reported being in either the beginning

implementation (1% to 10% complete; $n = 65$, 35%) or some implementation (11 to 30% complete; $n = 66$, 35%) stages (Table 3). A larger proportion of team members reported they received support from course facilitators ($n = 119$, 64%, $n = 187$) than from their local facility ($n = 92$, 46%, $n = 189$) (ns vary based on number of team members who volunteered to respond to each question).

At follow-up, team members were asked to describe their M2H implementation strategies. The 3 most commonly reported strategies were (1) educating other staff members, (2) using M2H skills in patient care, and (3) team focus on self-care. At follow-up, team members commonly described receiving general encouragement to implement M2H, allowing time for staff education, and using M2H materials in patient care.

Team members were asked at follow-up to select the top 3 barriers to implementing the M2H action plan in their clinic from a list. The most common barriers selected were resisting change, needing

Figure 2. Application of holistic health concepts in personal life word cloud.



more training for the rest of the health care team, and lacking leadership support.

Discussion

Although team members began using destressing and resiliency-improving techniques, M2H was not significantly associated with reduced burnout within a 2-month period following the course. The 2-month time frame may not have been appropriate for measuring changes in perceived burnout—other

interventions have measured burnout 1 year after implementation.⁸ Moreover, research indicates resiliency trainings alone are insufficient for reducing burnout. Organizational changes that address causes of burnout, such as lack of fulfillment in the workplace, administrative hassles, and lack of time for patient encounters, are also needed to effectively mitigate burnout.^{1,2,4,7} The clinics reportedly did not fully implement M2H action plans, which included organizational changes, in the short follow-up period due to resistance to change, need for more training, and lack of leadership support.

The literature suggests that leadership is vital to organizational change to reduce burnout.^{2,5,6,8,9,17} Although clinic leads requested the M2H course for their health care teams, not all leads attended. In fact, team members commonly suggested leadership attendance could improve the effectiveness of the course. By involving leadership in learning and action planning, the literature suggests teams should receive sufficient leadership support to implement action plans.^{2,5,6,8,9,17} Leadership support and additional staff training could combat the resistance to change.

Limitations of this evaluation include the limitations associated with repeated measures designs, the single item-measurement of some constructs, following up before full action plan implementation, not evaluating the effectiveness of strategies identified in action plans, and survey participant attrition (pre, $n = 335$; follow-up, $n = 194$). Future work may be able to provide a stronger test of burnout mitigation strategies by addressing the limitations noted here.

Table 3. Local Implementation of Move to Health Action Plan*

Variable	n (%) of Health Care Team Members	Total Valid N
Stage of action plan implementation		187
Not started (0% complete)	16 (9%)	
Beginning implementation (1%–10% complete)	65 (35%)	
Some implementation (11%–30% complete)	66 (35%)	
About half implemented (31%–50% complete)	16 (9%)	
Mostly implemented (51%–70% complete)	15 (8%)	
Almost fully implemented (71%–99% complete)	7 (4%)	
Fully implemented (100% complete)	2 (1%)	
Changed patient interactions, n (% yes)	141 (87%)	163
Received support from:		
The facility	92 (47%)	189
Course facilitators	97 (51%)	187

*n = 187 at follow-up. Some health care team members declined to answer questions; therefore, valid N varies for each variable.

Although participants in this particular course did not show reductions in burnout, there may be value in similar future efforts. By providing resiliency training in combination with organizational change, organizations can positively impact clinic team members' holistic well-being, turnover potential, and the quality of patient care they provide.

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