Tracings of Trauma: Engaging Learners and **Challenging Veteran Stigma Through** Collaborative Research-based Theater

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Abstract

Military veterans are stereotyped in the media as either broken human beings or invincible heroes, often creating implicit bias and affecting medical providers' ability to establish trusting relationships. Interactive learning methods can challenge stigma and create empathic connections with veterans in a manner that conveys sensitivity. Communityengaged theater has been successfully used in health education to transfer knowledge on both emotional and cognitive levels. This article reports on a research-based theater intervention, Tracings of Trauma, codesigned by veterans and aimed at orienting medical/allied health students to the unique experiences of combat veterans. Early stage assessment demonstrated statistically significant improvement in students' self-perceived awareness of stigma and their ability to talk to veterans and empathize with veterans' experiences. Results suggest that interactive, performance-driven dissemination can provide deeper learning experiences regarding stigmatized groups who experience trauma. Evaluating long-term impact on practice will be critical in linking this intervention to clinical outcomes.

Keywords: veterans, research-based theater, stigma, engaged learning, performance ethnography, veteran mental health, trauma



the effects of war (Badger, 2014; centers (Connelly, 2014). Chandrasekaran, 2014; Wood, 2012. Although initially intended to ensure Societal perceptions of veterans, and vetthat veterans suffering the effects of erans' perceptions of being an "outsider" combat and other traumatic military ex- group, can lead to suboptimal health care periences received the care they deserved (Sharp et al., 2015) and health care access (Young, 1995), the PTSD diagnosis some- problems (Curry & Zatzick, 2014) as a result times devolves into shorthand for "the of assumptions made between health care crazy veteran." PTSD is used to explain a providers and the veterans they seek to range of behaviors from veteran-involved serve. One key issue is that veterans who shootings (Ortiz, 2016; Philipps, 2016) to experience stigma may perceive it to be disruptions of peaceful public activities present even when it is not, in both civilian (Fox News, 2016). Stereotypes of veter- and VA-based health care. The issues with ans in media and the ways in which these veteran stigma are similar to those experirepresentations allow the civilian world to enced by traditional minority groups (Blair compartmentalize the military experience et al., 2011). To mitigate this issue, medical (Katzenberg, 2018) leave many veterans and allied health schools need to increase feeling a lack of common ground with the their efforts to train students about the general public (Conan, 2010; Zucchino & lived experience of veterans (Hinojosa et al.,

osttraumatic stress disorder Cloud, 2015), civilian health care providers (PTSD) is the dominant narra- (Lypson & Ross, 2016), and bureaucracies of tive our society uses to describe care, such as Veterans Affairs (VA) medical

patients of color (Anderson, 2008), sexual tions, and document analysis into dramatic minorities (Potter et al., 2016), or stigma- scripts, linking historical and social protized groups such as the homeless and sex cesses to individual experiences, promoting workers (Asgary et al., 2016; Balon et al., critical self-reflection and raised conscious-2015). A few efforts have taken place in this ness that can challenge dominant worldarena, providing veterans' perspectives to views (Denzin, 2006). Through its power teach students about the physical and to create an emotional impact and invoke mental injuries of this population (Fussell, the imagination, performance ethnography 2016; Lypson et al., 2014; Lypson et al., induces audience reflection and critical 2016). However, these efforts are infrequent discussion on individuals' experiences of in medical student education, with few curricula addressing lived experience (Manen, and discrimination (Goldstein, 2013). 1990; Turner & Bruner, 1986), stories of the veteran stigma (Goffman, 1963), and veterans' personal struggles to reenter civilian life after military service (Sayer et al., 2014). Stigma is a process of stereotyping where negative labels (e.g., "dangerous") are attached to a category (e.g., posttraumatic stress disorder) distinguishing a group of people (e.g., veterans) as unacceptable. This results in a cycle of discrimination, loss of status, and social exclusion that leads to increased stigma that further removes its victims from being accepted by society (Goffman, 1963).

Use of theater in knowledge translation and transfer to promote new understanding and empathy in clinical education is one powerful way to bring to life the concerns of Theater is successfully used in the fields the "other" (Eisenberg et al., 2015; Kirklin, of mental health (e.g., Twardzicki, 2008) 2001; Michalak et al., 2014; Watkins, 1998). and cancer research (Gray et al., 2000) as a Theater-focused interventions have been tool to communicate the often hidden and used with physicians, nurses, and allied health (Gillespie & Brown, 1997; Kontos & with stigmatized illness. To our knowledge, Naglie, 2007; Kontos et al., 2010). These this method has not been used to teach training modalities are thought to work in about the sensitive topic of war trauma and part by eliciting a deep emotional response veteran mental health. In practicing this from those who observe or participate in method, qualitative content can closely resuch immersive interventions (Colantonio et create social context while interactive diaal., 2008; Delonie & Graham, 2003; Shapiro logue offers multisensory experiences that & Hunt, 2003), thereby developing ethi- can promote emotional responses (Saldaña, cal responsibility (Rossiter, 2012) and in- 1999) and insight into others' lives (Carless clusiveness (Johnston, 2010). The present & Douglas, 2017). Tracings of Trauma aims study fills a gap in medical and allied health to engage learners as participant actors to training through translating veterans' lived provide a more nuanced and empathetic unexperience into a theater-based education derstanding of diverse patient experiences. tool and stigma intervention.

For this project, the research-based the- tervention's ability to change students' atater method performance ethnography was titudes and beliefs regarding military and used for its ability to disrupt stereotypes war experiences. We hypothesized that an and nurture empathy (Leavy, 2015), reveal interactive theater-based approach would the experiences of the oppressed (Moreira, challenge personal assumptions, bridge 2005), and convey rich contextual experi- cultural gaps between veterans and their ences that enable a deeper understanding civilian health care providers, and enhance of the human condition (Saldaña, 2011). empathic connections between student cli– Performance ethnography translates nicians and their patients.

2010), just as these institutions often do for qualitative data from interviews, observastigma surrounding experiences of prejudice

> Selections of veteran interviews from an ethnography on combat veterans' experience with PTSD (Hooyer, 2015) provided the raw data for the teaching tool Tracings of Trauma. It was through this original research that veterans conveyed the pressing need to educate health care providers on the unique experiences of military veterans who have lived through war and combat, particularly in a society where they feel stigmatized as either "crazy vets" (Shane, 2013) or "broken heroes" (Philipps, 2015).

Background

Purpose of Study

emotionally charged experiences of patients

The aim of the study was to assess the in-

Project Overview and Context

The intervention was designed to orient medical and allied health students to the unique experiences of military combat veterans. The choice of a theater-based methodology was grounded in the capacity of live, interactive performance to engage learners on an emotional level. Learner participation was accomplished through the reading of excerpts of veteran experiences from a script in a round-robin format. The interactive reading weaves the story of a researcher doing fieldwork with combat veterans and the verbatim scripted experiences of soldiers training for combat, going to war, and returning home. The sessions lasted 45-60 minutes, with 15-25 learners sitting in a circle. The session began with a brief introduction (3-5 minutes) that gave the backstory of the script, the source of the narratives, and directions for participation. The facilitator then passed out 51 "field notes" containing excerpts from raw interview data with veterans from Author 1's research. The ritual of passing out field notes allowed learners time to read each of their field notes and reflect momentarily on their content. Before starting, learners were asked to consider how their own field notes differed from or paralleled their peers' during the session, but also to consider any Methods section). This was followed by a personal commonalities with veterans' sentiments revealed in the interactive per- took a couple of minutes to reflect inwardly formance.

Acting as the lead character, the facilitator read through the script, calling off the numbered field notes for learners to recite. The following excerpt illustrates the methodology.

Narrator: As an anthropologist I have to be constantly aware how my thoughts, and feelings, might affect my interpretation and influence my analysis. My feelings are, in a sense, just a reflection of how others in my culture and in my community feel. I learned how to react through observing all of you. Field note #9.

Learner: (Field note # 9) Before people learn I'm gay it's "Thank you for your service." After they learn I'm gay they say I shouldn't have been there at all.

Learner: (Field note #10) My friend just straight up asked me, "Is it ok if you drink with us and stuff?" I was like "Yeah." And she said "Well, you are a big dude and you are like a veteran and I don't know if you are going to go crazy." As if I was going to lose my mind and start pounding on girls or something like that . . . I was like, "Its fine, I can have a drink."

Narrator: Field note #11.

Learner: (Field note #11) I am proud of my service but there are situations where I just don't tell people because being a vet is equal to having PTSD in most civilian eyes.

The researcher's story (i.e., reflections and surplus text from fieldwork) bridges the transitions between topics and veteran excerpts (Hooyer, 2017). The performance is accompanied by slide projections of tracings Author 1 made of photographs and military honors from veterans' deployments.

The full performance took an average of 25 minutes. At the close students were asked to take a retrospective pre-post survey (see facilitated discussion where students first on any unfolding emotional reactions to the diversity of veteran experiences that the performance evoked. Students were asked if any of the excerpts evoked an emotional or visceral response, were challenging to read or hear, or if they could relate to any of the field notes. The discussions lasted 15–30 minutes, depending on the class time available for the activity, and were guided by input from facilitators with extensive backgrounds in veteran issues who are involved in formal community-academic partnerships in veteran health (all three authors, as well as others named in the Acknowledgments). The original research that informed the intervention was approved by the University of Wisconsin-Milwaukee Institutional Review Board, and the intervention was approved by the Medical College of Wisconsin Institutional Review Board.

Community Engagement and Collaborative Design

Narrator: Field note #10.

Community partnerships with local veteran

of this intervention. These partnerships outcomes: (1) challenging students' existties to local veterans. These partnerships empathic understanding for combat veterare still active after 8 years. These agen- ans beyond students' personal politics surindividual veterans in ways that ensured emotional connections with future providcombat veterans often experience mental are the source of stereotypes and misunhealth–related stigma and can be distrustful derstanding. of civilians. This distrust is compounded by the large gaps in cultural values, practices, and experience between military and civilian worlds (Hooyer, 2015). Although the informal researcher-to-agency connecerans who dedicated themselves to every houses one of the state's largest collaboraresearch, and some continued to assist in Foundation community engagement clasthe evaluation (see below).

To maintain the authenticity of veterans' voices, Author 1 collaborated with veterans to accurately convey the diversity of war experiences in a way that was sensitive and respectful of the conflicting horror and beauty of military service. Veterans reviewed the narratives for diversity and accurate representation. Notably, veterans wanted to remain anonymous after sharing these intimate experiences and declined authorship for the intervention and this classroom settings. article, contrasting somewhat with a traditional view of community partner inclusion Data Collection in collaborative academic artifacts.

To assess the initial impact of the *Tracings* = strongly agree to 1 = strongly disagree) and of Trauma performance in higher education, three open-ended questions regarding the Author 1 codesigned a retrospective pre-post content and form of the one-time intervensurvey with three veterans (who took part tion. The Likert-type items were offered as in the original research) and three medical a retrospective pre- and postassessment education experts. Veteran collaborators met to measure attitudes before and after the with Author 1 to discuss their most pressing performance (Klatt & Taylor-Powell, 2005). concerns regarding their experiences with The survey, measuring changes in knowlhealth care providers, and these concerns edge, attitude, beliefs, and human conwere translated into survey questions with nection, was administered electronically input from medical education experts. The through Survey Monkey and was delivered evaluation tool was approved by the veteran immediately after the performance to avoid

organizations informed the entire design collaborators and focused on their desired included a nonprofit, veteran-led service ing assumptions and stereotypes that are agency and a major federal institution with predominant in the media; (2) developing cies assisted in introducing Author 1 to rounding war; (3) creating stronger social/ appropriate trust and rapport, an integral ers to potentially enhance future clinical step to the community engagement in re- encounters; and (4) bridging cultural gaps search approach (Michener et al., 2012), as between military and civilian worlds that

Method

Study Setting

tions were important in the initial phases. The study took place at one urban public the work was carried out in conversation research university and one private medical between the researcher and individual vet- school in the Midwest. The public university phase of the project. This method contrasts tions of health sciences, nursing, and public somewhat with formalized community- health and has over 27,000 students from based participatory approaches that often 92 countries. The private medical school work through agency relationships for the is home to a national institute dedicated duration of a project (Franco et al., 2015). to transforming medical education and is Once the veteran participants were identi- focused on academic-community medicine. fied, they took part in Author 1's original Notably, both institutions hold Carnegie the design of the script and development of sifications. Professors were recruited via email to department chairs in social work, nursing, medical humanities, and occupational therapy, and flyers were placed in faculty lounges and mailboxes. However, ultimately our established relationships with academic members in a veterans' health partnership facilitated recruitment of professors who incorporated the session into their curriculum. The social work and occupational therapy sessions were performed in the university's art gallery; medical student sessions took place in traditional

A survey included four Likert-type items (5

the influence of postsession discussion. One years. class of occupational therapy students (n =16) used paper surveys, and a member of the research team entered data by hand. Students were also asked to answer demographic questions.

Data Analysis

obtained were based on Likert-type items ing the performance's ability to bridge the that are technically ordinal in nature, we shared and common human experiences first performed a chi-square test for each of loss, hope, love, and social suffering. item in order to assess change between the Students also self-reported an increased posttest rating and the retrospective pretest confidence in their ability to comfortably rating (i.e., how the participant reflectively talk with veterans about their military serrated their attitudes prior to the interven- vice. Preassessment data indicated a high tion). Next, because Likert-type data can level of empathy with the sacrifices that also be viewed as forced options super- veterans made in their service (M = 3.99), imposed on a continuum of attitudes, and and students were able to better empathize because it is often easier to interpret change with these sacrifices after the intervention using mean difference scores, we also performed paired t tests on these items. Results increases, but the item addressing assumpof both tests are presented, but we focus our tions showed a reduction in assumptions discussion on the *t* tests.

Qualitative Data Analysis. The qualitative method of conventional content analysis Analysis of variance (ANOVA) was performed (Hsieh & Shannon, 2005) was used to code to explore for potential differences in mean the text from open-ended questions. This type of coding allows categories to emerge medicine, occupational therapy), gender, from the data in order to make sense of a and age category at retrospective pretest, phenomenon that is not well understood; posttest, and for mean difference for each in this instance, emotional and cognitive outcome variable. No significant differreactions to reciting narratives of military ences between learners from the different veterans. Survey data from these questions programs or by gender were found. Age were reviewed three times to establish categories and then organize these categories into dominant themes. To establish reliability of themes, a second coder conducted an informal cross-check and inquiries by reviewing the text and emerging themes to confirm findings (Barbour, 2001). No concerns were raised regarding observer drift.

Results

Quantitative Analysis

A total of 143 students participated in the but not surprisingly, a number of differlearning intervention over five sessions (see ences were found between learners with Table 1). A majority of the students were different levels of exposure to veterans. female (69%), and most students were in An ANOVA performed on the item "I have their 20s (88%). Medical students repre- many assumptions about veterans" at retsented the majority of learners (60%). Many rospective pre shows no variation by the students indicated that they had previously level of learner's interaction with veterparticipated in other educational offerings ans. However, postintervention scores for on veteran issues (70%). Across all offer- assumptions varied significantly by level ings, only three students were veterans of learner to veteran interaction, F(3,135) (2%). The mean age for learners was 26.18 = 3.87, p = 0.0108. A post hoc Tukey test

Paired-sample *t* tests revealed statistically significant differences in attitudes and beliefs on all four Likert-scale items (see Table 2), demonstrating improvement in students' self-perceptions about their ability to connect emotionally and socially with military veterans. The largest effect Quantitative Data Analysis. Because the data was in the variable of connection, illustrat-(M = 4.37). Results for most items showed made toward veterans after the intervention.

> scores by educational program (social work, was collected as years, but categorized for analysis into early 20s (24 years or less), late 20s (25–29 years), or 30+ (30–59 years) to reflect the distribution of the data obtained and facilitate analysis. Those in their early 20s reported being significantly less comfortable talking to a veteran than the learners from the older 20s group, F(2,139)= 4.06, p = .0194, difference between means = 0.40. Small sample size for the 30+ category makes pairwise comparisons between the youngest and oldest groups unreliable.

> Level of Veteran Interaction. Importantly,

Table 1. Student Demographics				
Characteristic	n = 143	%		
Gender*				
Female	99	69.72		
Male	43	30.28		
Age				
Early 20s	65	45.45		
Late 20s	61	42.66		
30+	17	11.89		
Program				
Social work	25	17.48		
Medicine	86	60.14		
Occupational therapy	32	22.38		
Veteran status*				
Veteran	3	2.11		
Nonveteran	139	97.89		
Veteran interactions per month				
0 days	50	34.97		
1–5 days	67	46.85		
6-20 days	9	6.29		
21–30 days	17	11.89		
Education in veterans' issues				
Yes	100	69.93		
No	43	30.07		

*n = 142 due to a participant declining to respond

showed that the no interaction level (zero An ANOVA performed on feelings of condays per month) was significantly lower on nectedness to veterans at retrospective prethe assumption score than the intensive test found that learners varied significantly interaction level (21-30 days per month), by level of veteran interaction, F(3,138) =p < .05. Notably, visual inspection of the 2.92, p = 0.0363. A post hoc Tukey test box plots showed that although those in showed that the no interaction group was the two lower interaction levels (zero days significantly lower on feelings of connectand 1–5 days per month) reported fewer edness compared to those with intensive assumptions after the intervention, those interaction, p < .05. However, there were with higher level interaction (6–20 days and no significant differences by level of learner 21-30 days per month) reported that they to veteran interaction for feelings of conhad *more* assumptions. This may reflect the nectedness at posttest, p < .05. ability of the retrospective pre-post design to reduce assumptions about veterans in the uninitiated while simultaneously allowing those with greater exposure to develop a deeper appreciation of the assumptions they held about veterans prior to the intervention.

An ANOVA performed on feelings of empathy toward veterans at retrospective pretest found that learners varied significantly by level of veteran interaction, F(3,138) = 2.69, p = 0.0490. A post hoc Tukey test showed that the no interaction group scored significantly lower on feelings of empathy com-

Table 2. Assessment of Attitudes Before and After the Tracings of Trauma Performance							
Variable	Retrospective pretest mean (median)	Posttest mean (median)	Mean differenceª	Mean of paired differences (SD)	Paired t (df)	p value⁵	
I can see <i>connections</i> between experiences of vets and issues in my own life.	2.96 (3)	3.54 (4)	+0.57	0.60 (1.09)	6.43 (138)	<.0001	
I would feel comfortable <i>talking</i> to a veteran about their service.	3.52 (4)	3.93 (4)	+0.40	0.37 (0.73)	5.90 (138)	<.0001	
I can <i>empathize</i> with the sacrifices that veterans have made in their service.	3.99 (4)	4.37 (5)	+0.38	0.44 (0.77)	6.70 (138)	<.0001	
I have many assumptions about veterans' experiences.	3.30 (3)	2.91 (3)	-0.37	-0.28 (1.10)	3.02 (138)	<.0031	
^a Mean differences presented to illustrate dearee of change based on the assumption that Likert categories							

Mean differences presented to illustrate degree of change based on the assumption that Likert categories offered are superimposed on a continuum of attitudes. Medians are also provided, given that these data can also be viewed as ordinal.

 b p values for Wilcoxon signed rank (nonparametric equivalent of paired t test) and paired t tests were <.01 for all items; paired t statistics are reported here for ease of interpretation. For clarity, positive/negative signs reflect direction of actual change in mean difference from retrospective pre to post, not signs from t tests.

pared to those with intensive interaction, p original mean of the high veteran interac-< .05. However, there were no significant tion group at pretest; all groups noted more differences by level of learner-to-veteran comfort in talking to a veteran at posttest. interaction for feelings of empathy at posttest, *p* < .05.

An ANOVA performed on willingness to talk gests that exposure to this intervention to veterans at retrospective pretest found that learners varied significantly by level levels of veteran interaction more comfortof veteran interaction, F(3,138) = 2.89, p =0.0377. A post hoc Tukey test showed that the no interaction and the little interaction groups scored significantly lower on willingness to talk to veterans compared to those with intensive interaction, p < .05. In contrast to other tests, variability in comfort in talking with veterans persisted postintervention, *F*(3,135) = 3.28, *p* = 0.0231. A post hoc Tukey test showed that the no interaction group was still significantly less willing to talk to a veteran compared to those with intensive interaction, p < .05. However, the mean scores for all groups increased significantly, and visual analysis of the results showed that those with low interaction levels at posttest scored very close to the

Overall, this pattern of results across the learner-to-veteran interaction levels sugmakes even those learners with low prior able in engaging with veterans.

The sample size was based on what was obtainable using reasonable methods and connections with instructors who were willing to engage their classes in this intervention. Because of the lack of estimates of mean differences and standard deviations at the beginning of the process, an a priori power calculation was not conducted. In order to provide some guidance on appropriate sample size for future replication, we also provide the retrospective pre-post mean difference and standard deviations of the difference for each outcome variable in Table 2. These values suggest that minimum samples required to obtain 80% power for a two-side, paired t test with a p value

< 0.05 would range from 27 pairs (for the in that a high percentage (70%) of students empathize with veterans item) to 123 pairs indicated they had previous education on (for the assumptions about veterans item). veteran-related issues; even so, our results

Qualitative Analysis

The survey included three open-ended items related to session delivery and content. For the purposes of this analysis, we focus on one question related to self-reflection (see Table 3): "What was the most profound thing you learned?" Response to the item was voluntary, but evoked responses from 124 students (87%). Qualitative analysis revealed three dominant themes and one subtheme: (1) a new awareness of veterans' experiences of service, trauma, and returning home after deployment (33%); (2) the broad range of veteran experiences (27%); and (3) the impact of health-related stigma (24%). One significant subtheme related to patient care emerged separately from the main themes in this data set: the realization that the students' own perceptions influence their actions and in turn can have an impact on veterans' health (9%).

Discussion

This project aimed to orient medical and allied health students to the unique experiences, perspectives, and postservice integration challenges of military combat veterans. This was accomplished through a collaborative research-based theater performance in which learners participated in reading excerpts of veteran interviews from a script in a round-robin format. After each session learners were asked to participate in a retrospective pre-post survey with Likerttype and open-ended questions administered through Survey Monkey or on paper.

In our quantitative analysis, we found that students experienced improvements in their ability to relate with military veterans in all four of the variables we studied: (1) connecting experiences, (2) comfort in talking with veterans, (3) empathizing with veterans' sacrifices, and (4) reducing assumptions about veterans' experiences. These results aligned on multiple levels with the project goals set out by our veteran community partners to (1) bridge cultural gaps in understanding, (2) challenge student assumptions, (3) empathize despite political views, and (4) create stronger emotional connections.

These preliminary findings are interesting interactions.

showed a significant change in students' attitudes regarding military culture and veterans' experiences. Additionally, a majority of students had monthly interactions with veterans (65%). Notably, those students with the two lower interaction levels (0 days and 1–5 days per month) reported fewer assumptions postintervention, and those with higher level interaction (6–20 days and 21–30 days per month) reported that they had more assumptions. This may point to the capacity of the intervention to reduce assumptions about veterans in the students with low contact, while concurrently allowing those with greater exposure to develop a deeper appreciation of the assumptions they held about veterans prior to the intervention.

Given that our intervention was still able to evoke change within a group of students previously exposed to veteran-related issues and who also had personal interactions with veterans, these results suggest that performance-based strategies can change stereotyping perspectives through teaching lived experience and emotionally laden content. This is consistent with prior studies that identified performing arts as an effective learning tool to reduce stigma around mental illness, further extending such findings to the veteran population.

tive variables. Students described ways in which their assumptions about veterans were challenged during the learning session, contributing to a new awareness of the broad range of veteran perspectives and military experiences. This expanded awareness contributed to confronting existing stigmas as reported by the quantitative findings. Students' comments also underscored changes in their ability to put themselves in the shoes of veterans they might provide services to in the future. This was noted through reflexive remarks made by the students about their own attitudes and knowledge gaps, and how these might adversely impact their ability to provide high quality care to veterans in future clinical

Table 3. Themes and Subthemes Emerging From the Question "What Was the Most Profound Thing You Learned Today?"				
Theme	Representative quote			
Diversity of veteran experience	"That there is no one stereotypical veteran experience. Everyone seems to take something different away from their military service" <i>Male</i> , 27, <i>medical student</i> , <i>o days veteran interaction</i> <i>per month</i>			
Veteran experience of stigma	"The most profound thing I learned today would have to be how others treat veterans just by making assumptions about a person when they hear that 'that person is a veteran.' It's almost like they forget they're a person and stereotype a veteran into how the public portrays them as people who suffer from PTSD, anger, social instability, and other psychological problems." <i>Female, 24, medical student, 1–5 days veteran</i> <i>interaction per month</i>			
New awareness of veteran perspectives	"I learned about the thought processes veterans may have that I never thought about before, such as keeping one's memories as their own, words not being enough, feeling wronged by the government." <i>Female, 24, occupational therapy, o days veteran</i> <i>interaction per month</i>			
Evoking reflexivity	"The most profound thing I learned was that I tend to group the veteran experience together, instead of thinking of the individuality of each experience. Additionally, I learned about how hesitant some veterans can be to share certain issues or feelings with healthcare providers because of the individual biases of health care practitioners. I really need to consider this more, as I am going into the health care field and I strive to serve my clients in the best way possible." <i>Female, 23, occupational therapy, 1–5 days veteran</i> <i>interaction per month</i>			

Limitations

These findings may or may not translate to practice or demonstrate long-term effect on behaviors. In fact, research on stigma shows that changes in attitudes and beliefs do not translate to changes in practice, but that personal interactions do (Corrigan et al., 2000). One of the programmatic limitations of this project is that no veterans participated directly in the intervention.

A second limitation, related to the research design, involved the survey delivery. Retrospective pre-post surveys were delivered just before the postperformance discussion specifically to assess the impact

of the performance. Possibly, these postperformance conversations influenced students further through diving deeper into issues that the performance raised. Structured discussions on how practice might be enhanced through what was learned in the session might further ground future application in the real world, but this was not evaluated in the current study.

Third, methodological limitations related to social desirability bias and self-report might have skewed the findings since a number of the questions were value-based. Students may have responded with how they aspired to view their inner world rather than honestly evaluating their beliefs and attitudes.

Lessons Learned and Next Steps

We suspect that some of the ways the procedures were handled increased the impact of the intervention, but these components need to be isolated for future research. Students expressed that they were able to authentically relate and connect to veterans through the verbatim reading of veteranproduced quotes. These quotes were specifically chosen as a conduit to the common and shared human emotions of love, loss, grief, loneliness, and hope. Comments by students on session delivery on the retrospective pre-post surveys and facilitator observations allowed us to glean important insights regarding the overall quality of the intervention and inform next steps.

We made five key observations: (1) Students need to feel that they can confidently interact with combat veterans, and the postsession discussion must address practical tools and best practices that guide the learner. (2) Some students felt uncomfortable when reciting the narratives, reducing the dramatic impact of the intervention; consequently, the emotional maturity level of the learner should be considered in this type of activity. (3) Physical space and acoustics are critical in providing an effective learning environment (e.g., use of microphones, smaller groups, and smaller private rooms). (4) Having veterans available for postperformance discussion could improve the learning experience. (5) Students may be left in a state of emotional astonishment, especially those who have experienced trauma or war conditions personally.

As next steps, we are developing a leavebehind clinic pocket card dealing with military-specific trauma-informed care to provide students with concrete actions they can implement in clinical encounters, and we are also involving veterans in postperformance discussion. We will also implement a presession introduction email to explain the performance and its content for those who served in the military or experienced war. The challenge continually is focus on the specific aspects of these types to provide enough time, at least 30 minutes, of interventions that produce change, and for a facilitator who has expertise in veteran issues, military culture, and/or trauma to debrief and for participants to engage in script and learner participation in reciting reflective discussion after the intervention. the words of veterans informs our main We observed that smaller groups of students finding that the intervention established an (15) sitting in a circle, with the ability to emotional connection to a group of people make eye contact, contributed to more in- whose life experiences differ from those of depth postintervention discussion.

The project will be sustained through packaging and publishing Tracings of Trauma as a learning tool, so others can utilize it and evaluate its impact with other types of learners. To assess whether the intervention can influence future behavior in clinical encounters, we are speaking with academic leaders to develop a strategy for tracking impact over time. Evaluating the long-term impact on practice will be critical in linking this intervention to clinical outcomes.

Conclusion

Medical and allied health schools train students about the lived experience of various minorities, including patients of color, sexual minorities, and stigmatized groups, but few efforts have focused on the unique experiences of military veterans. Theater has successfully been used to translate the experiences of stigmatized populations and promote new understanding and empathy in education. This early stage assessment suggests that performance ethnography may fill a gap in medical and allied health training through translating veterans' lived experience into a theater-based education tool and stigma intervention. To our knowledge, this is the first collaboratively designed, research-based theater intervention on veterans' mental health that (1) uses raw interview excerpts and (2) involves audience participation. Our findings demonstrate that this approach has the potential to challenge existing assumptions about veterans and, in the short term, to positively impact practice.

This intervention resulted in reported change in the four key outcome variables of interest regardless of program type, age, gender, and level of personal contact with veterans. Our experience with this intervention suggests that this style of intervention could be generalized to a range of other complex topics for professional audiences and that some of the unique elements of research-based theater or performance may differentially impact some types of learners. Of course, future research will be needed to how those impacts may vary across learner types. Our sense is that the content of the the students. It is this emotional connec137 Engaging Learners and Challenging Veteran Stigma Through Collaborative Research-based Theater

tion and understanding that veterans often transition back to civilian life and in reesdescribe as missing, yet so crucial, in their tablishing their role in society.



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Conflicts of Interest

We have no conflicts of interest to report that would bias the outcomes of this research.

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- 141 Engaging Learners and Challenging Veteran Stigma Through Collaborative Research-based Theater
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