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14. ABSTRACT Our goal is to design and validate an inventory to assess multiple dimensions of PTSD-related functional impairment experienced by active duty service members and veterans. A series of focus groups and individual assessments using interviews and self-report questionnaires were used to understand the multiple domains of functional impairment. Utilizing this information, the 80-item Inventory of Psychosocial Functioning was developed, as well as a brief 14-item version. The psychometric properties of these inventories are being tested in Phases 2 and 3. Data collection for Phase 2 was completed in October 2010 (n = 286). Data collection for Phase 3 began in December 2010 and is ongoing (Time 1, n = 118; Time 2, n = 54). By creating and validating an inventory to assess PTSD-related functional impairment we hope to offer a useful tool for clinicians, researchers and military leaders. This measure will have enormous value in identifying individuals with significant levels of impairments across multiple domains and for promoting more efficient allocation of resources.					
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INTRODUCTION

The goal of this project is to design and validate a psychometrically sound inventory of PTSD-related functional impairment for active duty service members and veterans. The inventory will assess multiple dimensions of functioning. This goal subsumes three specific objectives: (1) define and systematically operationalize each of the variables representing functional impairment; (2) collect data from an initial test development sample of veterans and conduct first-stage psychometric analyses; (3) cross validate results from the initial test development using an independent sample and to establish criterion-related validity.

BODY

The statement of work (SOW) stated that in months 1 through 3 of Year 3, we would finish recruitment and data collection for Phase 2. This goal was accomplished. In the original SOW we stated we expected to collect data from the remaining 40 participants during this period. However, following a reassessment by the PI and communication with Dr. Kimberly DelCarmen it was determined that it may not be necessary to collect data from all 40 remaining participants; instead data was collected from 33 participants during this reporting period, which was a sufficient sample size to conduct the statistical analyses necessary to fulfill the goals of Phase 2. The total sample size for Phase 2 was 286 participants. Data entry occurred simultaneously with data collection.

Data for Phase 2 collected during Months 1-3 of Year 3 (n = 33)

Participants in Phase 2 recruited during Year 3 were 28 (84.8%) men and 5 (15.2%) women ($n = 33$). The mean age was 55.15 years ($SD = 14.34$). The branch of service distribution was as follows: Army 14 (42.2%), Air Force 4 (12.1%), Navy 11 (33.3%), Marine Corps 2 (6.1%), and Other (e.g., Coastguard) 2 (6.1%). The military theatre to which participants reported being deployed was as follows: WWII 2 (6%), Vietnam 14 (42.4%), Persian Gulf 2 (6.1%), OEF/OIF 8 (24.2%), Bosnia 1 (3.0%), Other 1 (3.0%) and Missing 5 (15%). All individuals who participated in Phase 2 completed our assessment battery which included a semi structured diagnostic interview for PTSD and Major Depressive Disorder as well as numerous self-report instruments, including our newly developed functional impairment scale, the Inventory of Psychosocial Functioning (IPF; see Appendix A). All data were entered onto a secure VA network computer by a trained research staff member.

Of the 33 participants, using a very conservative definition of PTSD caseness, 3 (9.1%) met diagnostic criteria for PTSD. In total, approximately 20% of all participants in Phase 2 meet diagnostic criteria for PTSD. Among the 33 participants collected in this portion of Phase 3, there was a wide range of PTSD symptom severity. Further, among these participants PTSD symptom severity is significantly correlated with the total IPF impairment score, $r = .51$ ($p < .01$).

Consistent with the goals stated in our SOW, we began to examine the psychometric properties of the IPF, during month 1-7 of Year 3. Analyses included item-total and inter-item correlations, examination of individual items' frequency distributions, and exploratory factor analyses. In month 5 of year 3, Dawne Vogt Ph.D. joined the study staff and provided consultation on the confirmatory factor analysis of the IPF. Additional analyses conducted during Year 3, months 1-7, included initial examination of the IPF's convergent validity by examining the relationship of the IPF with other reliable and valid measures of functioning. Results from these analyses show that the IPF is a reliable and valid measure of PTSD-related psychosocial functioning.

Data for Phase 3 collected during Months 7-12 of Year 3 (Time 1 n = 118; Time 2 n = 59)

Data collection for Phase 3 began in Month 7 of Year 3 and is ongoing. The full 80-item version of the IPF and the 14-item Brief- Inventory of Psychosocial Functioning (B-IPF) are being used in Phase 3. In this phase, participants complete a series of self-report measures which assess suicidal ideation, functioning, quality of life, PTSD, depression and anxiety symptoms, substance abuse, malingering, social desirable responding, personality traits, and psychosis. During Months 7 – 12 of Year 3 we have collected data from

118 veterans, 54 of whom have returned to complete the same set of measures approximately four-weeks later to assess the test-retest reliability of the IPF and B-IPF. Data entry has occurred simultaneously with data collection. Demographic information for participants who completed Time 1 ($n = 118$) is as follows: 108 (91.5%) were men and 10 (8.4%) women. The mean age was 52.61 ($SD = 10.93$). The branch of service distribution of was as follows: Army 69 (58.5%), Air Force 12 (10.2%), Navy 28 (23.7%), Marine Corps 14 (11.9%), and Other (e.g., Coastguard) 7 (5.9%) (The total number of service distribution is greater than 100% because some participants endorsed more than one response option). The military theatre to which participants reported being deployed was as follows: WWII 1 (0.9%), Korea 6 (5.2%), Vietnam 28 (24.1%), Persian Gulf 18 (15.5%), OEF/OIF 15 (13%), Other 23 (20%), and None 32 (27.6%) (The total number of military theatre responses is greater than 100% because some participants endorsed more than one response option).

Among the 118 participants who completed the Time 1 assessment, severity of posttraumatic stress symptoms was significantly correlated with the IPF total Impairment Score, $r = .71$ (all $p < .05$).

During Months 8 -12 we have collaborated with James Spira Ph.D. from the Pacific Islands VA Healthcare System to establish the Pacific Islands VA as an additional site for recruitment and data collection. We have obtained IRB approval from the Pacific Islands VA and we are currently awaiting approval from the IRB at the Boston VA Healthcare System.

In Year 3, we had anticipated collecting data from active duty military personnel ($n = 1,800$). However, no data have been collected yet due to logistic difficulties. Recently, Dr. Charles Hoge at WRAIR informed us that they are about to begin data collection, perhaps even within the next month.

KEY RESEARCH ACCOMPLISHMENTS

- Phase 2 data collection is completed.
- Phase 3 data collection is under way.
- Continue data collection for examination of the psychometric properties of the IPF and B-IPF.
- Conduct first-stage analyses of the psychometric properties of the IPF and B-IPF.

REPORTABLE OUTCOMES

Publications:

McQuaid, J. R., Marx, B. P., Rosen, M. I., Bufka, L. F., Tenhula, W., Cook, H., & Keane, T. M. (in press). Mental Health Assessment in Rehabilitation Research. *Journal of Rehabilitation Research and Development*.

Ulloa, E. W., Marx, B. P., Vasterling, J. J., & Vanderploeg, R. (in press). Assessment of Comorbid PTSD and mTBI. In J. Vasterling, R. Bryant and T. Keane (Eds.), *PTSD and Mild Traumatic Brain Injury*. New York: Guilford Press.

Charney, M. E. & Marx, B. P. (in press). Promoting a Positive Quality of Life Post Trauma. In R. McMackin, T. M., Keane, E. Newman & J. Fogler (Eds.), *Toward an Integrated Approach to Trauma Focused Therapy: Placing Evidence-Based Interventions in an Expanded Psychological Context*. Washington, DC: American Psychological Association.

Presentations:

- Chen, M. S., Glossner, K. J., Holowka, D. W., Rodriguez, P., Marx, B. P., Schnurr, P., Lunney, C., Weathers, F., Sloan, D. M., Keane, T.M. (2011, March). Guilt, Posttraumatic Stress and Suicidal Ideation Among Trauma-Exposed Veterans. Poster presented at the 31st annual meeting of the Anxiety Disorders Association of America, New Orleans, LA.
- Glossner, K., Chen, M.S., Holowka, D.W., Rodriguez, P., Marx, B.P., Schnurr, P., Lunney, C., Weathers, F., Sloan, D.M., Keane, T.M. (2011, March). *Exploring the role of PTSD symptoms in predicting concentration difficulties among veterans*. Poster presented at the 31st annual meeting of the Anxiety Disorders Association of America, New Orleans, LA.
- Holowka, D.W., Marx, B.P., Rodriguez, P., Gates, M, Rosen, R.C. & Keane, T.M. (2011, March). Medical Chart PTSD Diagnostic Accuracy among OEF/OIF Veterans: Preliminary Results. Poster presented at the 31st annual meeting of the Anxiety Disorders Association of America, New Orleans, LA.
- Rodriguez, P., Marx, B.P., Han, S., Holowka, D., Schnurr, P. P., Lunney, C., Weathers, F., Sloan, D. M., & Keane, T. M. (2011, March). *PTSD symptoms and psychological impairment among veterans*. Poster session presented at the annual meeting of the Anxiety Disorders Association of America, New Orleans, LA.
- Ratchford, E., Holowka, D. W., Marx, B. P., Rodriguez, P., Schnurr, P., Lunney, C., et al. (2010, November). *Psychopathy as a moderator of social impairment in PTSD*. Poster presented at the International Society for Traumatic Stress Studies 25th Annual Meeting, Montreal, Quebec, Canada.
- Ratchford, E., Shirai, A., Holowka, D. W., Rodriguez, P., Marx, B. P., Schnurr, P., et al. (2010, June). *Guilt, PTSD symptom severity, and functional impairment among trauma-exposed Veterans*. Poster presented at the 6th World Congress of Behavioral and Cognitive Therapies, Boston, MA.
- Rodriguez, P., Marx, B. P., Holowka, D. W., Schnurr, P., Lunney, C., Weathers, F., Sloan, D. M., Shirai, A. C., Keane, T. M. (2010, June). *Predictors of functional impairment among Veterans with a history of trauma*. Poster presented at the World Congress of Behavioral and Cognitive Therapies, Boston, MA.

CONCLUSION

By creating and validating an inventory to assess PTSD-related functional impairment--as they are perceived and reported by active military personnel and veterans--we hope to offer a useful tool for clinicians, researchers and military leaders. A measure of PTSD-related functional impairment will have enormous value from a health care perspective in terms of identifying individuals with significant levels of impairments across multiple domains and for promoting more efficient allocation of resources and efforts towards those who are in most need. Such a measure will also assist with mental health-related compensation and pension procedures and decisions by providing a means to more accurately assess mental health-related functional impairment.

APPENDIX A

Inventory of Psychosocial Functioning (IPF)

INSTRUCTIONS: Answer the questions at the beginning of each section to determine which sections apply to you. Then, within the sections that apply to you, read each statement and rate how often you have acted like that over the past 30 days. Circle only one number for each statement.

Romantic Relationship with Spouse or Partner

Have you been in a romantic relationship with a spouse or partner in the past 30 days? Yes No

If you have not been in a romantic relationship with a spouse or partner during the past 30 days skip this section and continue with the next section. Otherwise, please answer the following questions.

Over the past 30 days...

	Never		Sometimes			Always	
1. When necessary, I cooperated on tasks with my spouse or partner.	1	2	3	4	5	6	7
2. I shared household chores or duties with my spouse or partner.	1	2	3	4	5	6	7
3. I had trouble sharing thoughts or feelings with my spouse or partner.	1	2	3	4	5	6	7
4. I showed interest in my spouse or partner's activities.	1	2	3	4	5	6	7
5. I had trouble settling arguments or disagreements with my spouse or partner.	1	2	3	4	5	6	7
6. I was patient with my spouse or partner.	1	2	3	4	5	6	7
7. I had trouble giving emotional support to my spouse or partner.	1	2	3	4	5	6	7
8. I was affectionate with my spouse or partner.	1	2	3	4	5	6	7
9. My partner or spouse and I did activities that brought us closer together.	1	2	3	4	5	6	7
10. I was interested in sexual activity with my spouse or partner.	1	2	3	4	5	6	7
11. I had trouble becoming sexually aroused with my spouse or partner.	1	2	3	4	5	6	7

Family

In this section, family refers to all relatives other than your spouse/partner or children (for example, parents, brothers, sisters, grandparents, etc). Do not answer these questions in reference to your spouse/partner or children.

Have you been in contact with family members (parents, brothers, sisters, grandparents, etc.) in the past 30 days? Yes No

If you have not been in contact with family during the past 30 days skip this section and continue with the next section. Otherwise, please answer the following questions.

Over the past 30 days...

	Never		Sometimes			Always	
12. I stayed in touch with family members (e.g. phone calls, e-mails, texts).	1	2	3	4	5	6	7
13. My family and I did activities that brought us closer together.	1	2	3	4	5	6	7
14. I was affectionate with my family members.	1	2	3	4	5	6	7
15. I had trouble being patient with family members.	1	2	3	4	5	6	7
16. I had trouble communicating thoughts or feelings to family members.	1	2	3	4	5	6	7

17. I had trouble giving emotional support to family members.	1	2	3	4	5	6	7
18. I had trouble settling arguments or disagreements with family members.	1	2	3	4	5	6	7

Work (including home-based work)

Have you worked (either for pay or as a volunteer) in the past 30 days?

Yes No

If you have not worked either for pay or as a volunteer during the past 30 days skip this section and continue with the next section. Otherwise, please answer the following questions.

Over the past 30 days...

	Never		Sometimes			Always	
19. I had trouble showing up on time for work.	1	2	3	4	5	6	7
20. I reported for work when I was supposed to.	1	2	3	4	5	6	7
21. I got along well with others at work.	1	2	3	4	5	6	7
22. I stayed interested in my work.	1	2	3	4	5	6	7
23. I had trouble being patient with others at work.	1	2	3	4	5	6	7
24. I performed my job to the best of my ability.	1	2	3	4	5	6	7
25. I completed my work on time.	1	2	3	4	5	6	7
26. I had trouble settling arguments or disagreements with others at work.	1	2	3	4	5	6	7
27. I solved problems or challenges at work without much difficulty.	1	2	3	4	5	6	7
28. I maintained a reasonable balance between work and home.	1	2	3	4	5	6	7
29. I was able to perform my work duties without needing any extra help.	1	2	3	4	5	6	7
30. When necessary, I cooperated on work-related tasks with others.	1	2	3	4	5	6	7
31. I showed my skills and knowledge of the job.	1	2	3	4	5	6	7
32. I showed others at work that they could depend on me.	1	2	3	4	5	6	7
33. I came up with ideas and put them into action at work.	1	2	3	4	5	6	7
34. I took responsibility for my work.	1	2	3	4	5	6	7
35. I prioritized work-related tasks appropriately.	1	2	3	4	5	6	7
36. I worked hard every day.	1	2	3	4	5	6	7
37. I made sure that the work environment was pleasant for others.	1	2	3	4	5	6	7
38. I had trouble expressing my ideas, thoughts or feelings to others at work.	1	2	3	4	5	6	7
39. I had trouble being supportive of others at work.	1	2	3	4	5	6	7

Friendships and Socializing

Have you been in contact with friends in the past 30 days? Yes No

If you have not been in contact with friends during the past 30 days skip this section and continue with the next section. Otherwise, please answer the following questions.

Over the past 30 days...

	Never		Sometimes			Always	
40. I was willing to meet new people.	1	2	3	4	5	6	7
41. I stayed in touch with friends (returning phone calls, emails, visiting).	1	2	3	4	5	6	7
42. My friends and I did activities that brought us closer together.	1	2	3	4	5	6	7
43. I had trouble being patient with my friends.	1	2	3	4	5	6	7
44. I had trouble settling arguments or disagreements with my friends.	1	2	3	4	5	6	7
45. I had trouble sharing my thoughts or feelings with my friends.	1	2	3	4	5	6	7
46. I had trouble giving emotional support to my friends.	1	2	3	4	5	6	7
47. I showed affection for my friends.	1	2	3	4	5	6	7

Parenting

In this section, children refers to anyone for whom you had parenting responsibilities.

Do you have children with whom you lived or had regular contact during the past 30 days?

Yes No

If you do not have children with whom you lived or had regular contact during the past 30 days skip this section and continue with the next section.

Otherwise, please answer the following questions.

Over the past 30 days...

	Never		Sometimes			Always	
48. My children were able to depend on me for whatever they needed.	1	2	3	4	5	6	7
49. I was interested in my children's activities.	1	2	3	4	5	6	7
50. I had trouble communicating with my children.	1	2	3	4	5	6	7
51. I was affectionate with my children.	1	2	3	4	5	6	7
52. I appropriately shared thoughts or feelings with my children.	1	2	3	4	5	6	7
53. My children and I did activities that brought us closer together.	1	2	3	4	5	6	7
54. I talked with, or taught, my children about important life issues.	1	2	3	4	5	6	7
55. I was a good role model for my children.	1	2	3	4	5	6	7
56. I had trouble giving emotional support to my children.	1	2	3	4	5	6	7
57. I had trouble settling conflicts or disagreements with my children.	1	2	3	4	5	6	7

Education (including distance learning)

Have you been involved in a formal educational experience, either in or outside of the school setting, during the past 30 days?

Yes No

If you have not been involved in an educational experience during the past 30 days skip this section and continue with the next section. Otherwise, please answer the following questions.

Over the past 30 days...

	Never		Sometimes			Always	
58. I attended classes regularly.	1	2	3	4	5	6	7
59. I stayed interested in my classes and schoolwork.	1	2	3	4	5	6	7
60. I arrived on time for my classes.	1	2	3	4	5	6	7
61. I had trouble being supportive of my classmates' achievements.	1	2	3	4	5	6	7
62. I turned in assignments late.	1	2	3	4	5	6	7
63. I solved problems and challenges in class without much difficulty.	1	2	3	4	5	6	7
64. I took responsibility for my schoolwork.	1	2	3	4	5	6	7
65. I was patient with my classmates and/or instructors.	1	2	3	4	5	6	7
66. I had trouble settling disagreements or arguments with instructors and/or classmates.	1	2	3	4	5	6	7
67. I had trouble remembering what the instructor said.	1	2	3	4	5	6	7
68. I could easily remember what I read.	1	2	3	4	5	6	7
69. I understood course material.	1	2	3	4	5	6	7
70. When necessary, I cooperated with classmates.	1	2	3	4	5	6	7
71. I got along with classmates and/or instructors.	1	2	3	4	5	6	7
72. I completed my schoolwork to the best of my ability.	1	2	3	4	5	6	7

Self Care**Over the past 30 days...**

	Never		Sometimes			Always	
73. I had trouble keeping up with household chores (for example, cleaning, cooking, yard work, etc).	1	2	3	4	5	6	7
74. I maintained good personal hygiene and grooming (for example, showering, brushing teeth, etc).	1	2	3	4	5	6	7
75. I had trouble managing my medical care (for example, medications, doctors' appointments, physical therapy, etc).	1	2	3	4	5	6	7
76. I ate healthy and nutritious meals.	1	2	3	4	5	6	7
77. I had trouble keeping up with chores outside the house (shopping, appointments, other errands).	1	2	3	4	5	6	7
78. I had trouble managing my finances.	1	2	3	4	5	6	7
79. I was physically active (for example, walking, exercising, playing sports, gardening, etc).	1	2	3	4	5	6	7
80. I spent time doing activities or hobbies that were fun or relaxing.	1	2	3	4	5	6	7

B-IPF

INSTRUCTIONS: For sections that apply to you, read each statement and rate how often you have felt that way over the **PAST 30 DAYS**. Circle only one number for each statement.

Self-Care: In this section, Self-Care refers to activities such as keeping up with household chores, managing your medical care, being physically active, doing activities or hobbies that were fun or relaxing.

<i>Overall, over the past 30 days:</i>	Not at all		Somewhat			Very much	
1. I had trouble taking care of myself.	1	2	3	4	5	6	7
2. I was distressed or emotionally upset because of the difficulties I had taking care of myself.	1	2	3	4	5	6	7

Romantic Relationship with Spouse or Partner: *If you have not been in a romantic relationship during the past 30 days skip this section and go on to the next section.*

<i>Overall, over the past 30 days:</i>	Not at all		Somewhat			Very much	
3. I had trouble in my romantic relationship with my spouse or partner.	1	2	3	4	5	6	7
4. I was distressed or emotionally upset because of the difficulties I had in my romantic relationship.	1	2	3	4	5	6	7

Family: In this section, family refers to all relatives other than your spouse/partner or children (example: parents, brothers, sisters, grandparents, etc). Do not answer these questions in reference to your spouse/partner or children. *If you have not been in contact with family during the past 30 days skip this section and go on to the next section.*

<i>Overall, over the past 30 days:</i>	Not at all		Somewhat			Very much	
5. I had trouble with my family relationships.	1	2	3	4	5	6	7
6. I was distressed or emotionally upset because of the difficulties I had in my family relationships.	1	2	3	4	5	6	7

Work: *If you have not worked either for pay or as a volunteer during the past 30 days skip this section and go on to the next section.*

<i>Overall, over the past 30 days:</i>	Not at all		Somewhat			Very much	
7. I had trouble at work.	1	2	3	4	5	6	7
8. I was distressed or emotionally upset because of my difficulties at work.	1	2	3	4	5	6	7

Friendships and Socializing: *If you have not been in contact with friends during the past 30 days skip this section and go on to the next section.*

<i>Overall, over the past 30 days:</i>	Not at all		Somewhat			Very much	
9. I had trouble with my friendships and socializing.	1	2	3	4	5	6	7
10. I was distressed or emotionally upset because of the difficulties I had with my friendships and socializing.	1	2	3	4	5	6	7

Parenting: In this section, children refers to anyone for whom you had parenting responsibilities. *If you do not have children with whom you lived or had regular contact during the past 30 days skip this section and go on to the next section.*

<i>Overall, over the past 30 days:</i>	Not at all		Somewhat			Very much	
11. I had trouble in my relationship with my children.	1	2	3	4	5	6	7
12. I was distressed or emotionally upset because of the difficulties I had in my relationship with my children.	1	2	3	4	5	6	7

Education: <i>If you have not been involved in an educational experience during the past 30 days skip this section and go on to the next section.</i>							
<i>Overall, over the past 30 days:</i>	Not at all		Somewhat		Very much		
13. I had trouble at school	1	2	3	4	5	6	7
14. I was distressed or emotionally upset because of my difficulties at school.	1	2	3	4	5	6	7