

Patterns and Correlates of Racial/Ethnic Differences in Posttraumatic Stress Disorder Screening among Recently Separated Veterans

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Introduction	Results
 Despite the high prevalence of posttraumatic stress disorder (PTSD) among military veterans, there is a lack of knowledge about differences by race/ethnicity and gender. A small body of research shows that compared with White veterans, Black/African-American and Hispanic/Latinx veterans have higher rates of PTSD, and Asian-American veterans have similar or lower rates. In post-9/11 Veterans, there is some evidence that racial/ethnic differences in PTSD persist after accounting for factors such as socioeconomic status, trauma exposure & clinical factors. 	 Between-race/ethnicity group differences in trauma exposure and PTSD screening rates Rates of positive PTSD screens lowest among AHPI Veterans (20.7%). Highest rates among Black (36.3%) and multiracial (35.7%) Veterans, followed by Hispanic/Latino (30.6%), and White (22.5%) Veterans. Among Native American or Alaska Native veterans (n=67), 43.3% had a positive PTSD screen (not included in regressions). Largest group differences in PTSD : AHPI and Black (d=.31); White and Black (d=.29) AHPI and multiracial (d=.31); White and multiracial (d=.28) Hispanic/Latinx and AHPI (d=.21). AHPI veterans reported lower trauma exposure compared with all other racial/ethnic groups to any trauma (any trauma: d's=.23 to .37; military trauma: d's=.25 to .39).
 Racial/ethnic minorities experience more life stress and lower social support than their white peers, which may contribute to 	Table 2. Weighted prevalence and effect sizes for within-race/ethnicity gender differences in positive PTSD screening and trauma exposure Group Differences in Demographics
differences in PTSD risk.	White Black Hispanic/Latino AHPI Multiracial • Greater proportion of women among Black Veterans (27.9%)
 Limited research on intersection of race/ethnicity & gender. It is unclear whether racial/ethnic differences in PTSD will 	% % % % • Fewer Veterans of Color are 6 officers.
operate similarly among men and women.	Variables W M d W M d W M d W M d W M d • Fewer AHPI Veterans deployed
 Past research limited by a focus on predominantly older veterans, infrequent consideration of gender differences, small 	Positive PTSD Screen 23.6 22.3 .03 32.0 37.9 .11 36.0 29.5 .13 25.0 19.8 .12 48.1 32.0 .30* • More White Veterans have graduate degrees & household
sample sizes for racial/ethnic subgroups, and reliance on VA	Any Trauma 65.0 66.1 .02 66.4 73.9 .14* 72.5 68.3 .08 62.1 51.8 .18 80.5 66.7 .21 • Greater proportion of Black, H/
 medical records. The current study describes patterns and correlates of PTSD 	Childhood Trauma 28.7 19.7 19* 28.5 27.2 .03 41.9 24.5 .36* 27.1 20.6 .15 46.2 25.9 .40*
screening across race/ethnicity and gender in a sample of 9,420 Veterans recently separated from the military.	Adult Pre-military Trauma 18.3 12.8 .14* 16.4 18.9 .06 16.1 15.5 .02 20.0 15.9 .10 31.9 14.8 .39* military, cf. White & AHPI.
 Elucidating PTSD screening patterns by race/ethnicity and 	Military Trauma 53.3 59.0 .10* 58.8 64.8 .11 55.8 59.7 .07 48.6 43.9 .09 71.3 63.9 .14 Multiracial Veterans report
gender can inform targeted outreach, prevention, and intervention during transition out of the military.	Post-military Trauma 7.8 10.2 .07* 12.4 17.7 .13 17.7 12.9 .13 7.4 12.4 .15 14.2 18.7 .11 AHPI.
	*p<.05 • More life stress among Veterans of Color.
Methods	PTSD = posttraumatic stress disorder; W = Women; M = Men; d = Cohen's d effect size; AHPI = Asian, Native Hawaiian or Pacific Islander • Lower social support among Veterans of Color. • Lower social support among Veterans of Color.
 Participants The Veterans Metrics Initiative (TVMI) is a longitudinal sample of 9,420 Veterans recruited within 90 days of separation from the military. Veterans included in analyses identified as White (n=6,222), Hispanic/Latinx (n=1,313), Black (n=1,027), Asian/Hawaiian/Pacific Islander (n=420) & multiracial (n=438). Eligible veterans were identified from a VA/Department of Defense repository. Outreach methodology followed a modified Dillman mail survey procedure. Measures Self-reported race and ethnicity were assessed based on National Institutes of Health clinical research reporting policies. Trauma exposure: 4 dichotomous variables (childhood, 	Multivariable models for women • Model 1 (pseudo R ² =.027, p<.001):
 adulthood before military, military, after separation). PTSD screen: 5-item <i>Primary Care PTSD Screen for DSM-5;</i> 	Conclusions Contact
 Positive screen ≥3. Life stress: 5-point scale assessed intensity of stress related to various life domains (e.g., discrimination, caregiving, finances) over the previous three months (α=.82). 8-item Medical Outcomes Study Social Support Survey assessed practical and emotional support from others (α=.95). SES: Highest education attained & Household income. <u>Analyses</u> Analyses conducted with STATA 8.0 using survey analysis methods to include probability sampling weights. Group differences: Design-corrected Pearson chi-squared test (categorical outcomes) or independent samples t-tests 	 Findings suggest that there are significant racial/ethnic differences in positive PTSD screening within this cohort of recent post-9/11 veterans. In line with past research, positive PTSD screening rates were highest among Black, Hispanic/Latino and multiracial veterans, and lowest among White and AHPI veterans. Multiracial women had the highest positive screening rates of all subgroups. Past reported rates of PTSD among Veterans (~23%) in reviews and meta-analyses reflect rates for <u>White Veterans</u>. These patterns likely reflect group differences in PTSD diagnostic rates, but research is needed to confirm this hypothesis. Sociodemographics, trauma exposure, life stress and social support explained elevated rates of positive PTSD screens among Black women, Hispanic/Latinx veterans, and multiracial men. The winne scentrate for entry M. Jackson Foundation for the Advancement of Military Medicine, Inc. (HJF); and The winne scentrate for the davancement of Military Medicine, Inc. (HJF); and the winne scentrate for the davancement of Military Medicine, Inc. (HJF); and the second of Medicine is a scentral file of the targe scentral file of the scentra mean differences in the second of the davancement of Military Medicine, Inc. (HJF); and the mean scentral file of the scentra mean differences in the second of
 (continuous outcomes) w/effect sizes (Cohen's d). Main analyses: Logistic regression for complex survey designs, fitting the odde ratio (OP) of heaving a positive PTSD coreceptor. 	 The unique constellations of contextual factors that are most effective to target may differ depending on the subgroup under consideration. Social support for Hispanic/Latinx women vs. reducing chronic stress for Hispanic/Latinx men.

fitting the odds ratio (OR) of having a positive PTSD screen as a function of variables of interest, stratified by gender. • Model 1: Race/ethnicity; Model 2: SES; Model 3: Add trauma exposure; Model 4: Add life stress; Model 5: Add social support. • Reference group = White

• Main analyses: Logistic regression for complex survey designs, • Social support for Hispanic/Latinx women vs. reducing chronic stress for Hispanic/Latinx men.

Multiracial women Veterans should be considered as a distinct, high-risk subgroup in future

research.

Some potential unassessed explanatory variables for Black men & multiracial women: Lifetime discrimination; trauma severity; post-trauma coping.

It is important to examine patterns and correlates of PTSD at the intersection of

race/ethnicity and gender.

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