A Systematic Review of **Posttraumatic Stress and Resilience Trajectories: Identifying Covariates** and Predictors for Future Treatment of Veterans and Service Members

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INTRODUCTION

- Posttraumatic Stress Disorder (PTSD) is more prevalent among veterans and service members than the general population.
- Gold-standard evidence-based treatments (i.e., Prolonged Exposure and Cognitive Processing Therapy) are less effective for veterans and service members.
- Understanding the covariates and predictors of symptomatic and resilient trajectories may help clinicians tailor conceptualizations, evidence-based treatments, and change agents to the individual, in line with process-based cognitive behavioral therapy.
- We conducted a systematic review to examine covariates and predictors of resilience and symptomatic trajectories in veterans and service members exposed to potentially traumatic events.

METHODS

- 1. 24 studies met inclusion criteria.
- 2. Included studies utilized Latent Growth Class Analysis or Latent Growth Mixture Modeling, at least three trajectory time points, at least a sample of 100, and a trauma-related outcome assessment.
- 3. Of the 396 assessed, 336 were screened, and 24 were retained. RESULTS
- 1. Across all studies, most participants followed a resilience trajectory (69%), while symptomatic trajectories accounted for the remainder of participants (31%).
- 2. Covariates and predictors of resilience trajectories were related to environmental, psychological, and demographic factors.
- Covariates and predictors of symptomatic trajectories were also 3. related to environmental, psychological, and demographic factors.

DISCUSSION

- Psychological, demographic, and environmental covariates were identified for resilience and symptomatic trajectories of posttraumatic stress.
- Some service member and veteran subgroups were characterized by multiple risk factors and few protective factors associated with the development of posttraumatic stress symptoms. Considering use of a process-focused, evidence-based CBT model may help clinicians target transdiagnostic factors in service members and veterans.

Unique factors were associated with resilience and symptomatic trajectories. Processbased CBT may provide a framework for integrating these factors into treatment.







Synthesized Predictors with Frequency for Resilient Trajectories

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Predictor	Frequency
Less Combat Exposure/No Combat Experience During Deployment	2
Males	1
Higher Education	1
White	1
Officer Rank	1
Single Deployer	1
Subclinical Depression Pre-deployment	1
Peacekeeping Hassles	1
Previous Trauma	1

Note. Trajectories were dichotomized into symptomatic and resilient across studies. Covariates shown here predict resilient trajectories and how often each covariate appeared across N = 24 studies.

Synthesized Predictors with Frequency for Symptomatic Trajectories

Covariate	Frequency
Deployment-Related Stressor/Combat Exposure	7
History of/Comorbid Depression	6
Prior Trauma	5
Current Smoking/Alcohol	5
Stressors Before, During or After Deployment	5
Younger Age	4
Enlisted Personnel/Lower Ranking	4
Neuroticism	3
Non-White/Hispanic	3
Army	3
Perceived Threat During Deployment	3
Suicidal Ideation	3
High School Education or Less/Lower Education	2
Poor Physical Health	2
Avoidant Coping/Coping Style	2
Married	2
Sexual/Physical Assault History	2
Family Cohesion	2

Note. Trajectories were dichotomized into symptomatic and resilient across studies. Covariates shown here predict symptomatic trajectories and how often each covariate appeared across N = 24 studies. If a covariate appeared multiple times in the same study (e.g., predicted two different types of symptomatic trajectories), it was coded once. These are the most frequent predictors.





