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# Studies' Estimates of PTSD Prevalence Rates for Returning Service Members Vary Widely

n allocating resources to treat posttraumatic stress disorder (PTSD) among service members, policy-makers rely on estimates of how prevalent this condition is among troops. But published prevalence rates vary extensively and are often disputed. For example, the most frequently cited estimate for PTSD among Vietnam veterans—nearly 31 percent—is still highly criticized. Similar concerns have been raised about PTSD prevalence estimates among U.S. service members serving in Afghanistan as part of Operation Enduring Freedom (OEF) and in Iraq as part of Operation Iraqi Freedom (OIF).

A team of RAND researchers analyzed the literature to document the extent of the variation in PTSD prevalence rates for military personnel who had served in OEF and OIF since 2002 and to identify possible explanations for these discrepancies. The team found 29 relevant studies and documented the following findings:

- PTSD prevalence rates vary widely. The studies reported 62 different prevalence estimates, ranging overall from around 1 percent to 60 percent. Those estimates greater than 20 percent were mostly seen among samples of veterans seeking treatment, many of whom were exposed to combat and were injured while deployed. In more general samples representative of previously deployed personnel, rates were commonly 5 percent to 20 percent, based primarily on self-reported symptoms on questionnaires. However, for both personnel seeking treatment and those in the more general samples, the estimates varied widely because of the different study populations and the different diagnostic definitions used to determine PTSD, as described next.
- Some of this variation is related to the different methods used to define PTSD... The studies used 14 different methods to define PTSD. When different definitions were applied to the same studies, the resulting estimates varied significantly.
- ... and to the different study samples. The studies reported prevalence rates across a variety of study samples, from a single Army unit to groups of service members wounded in battle. Few samples were representative of all those who had deployed. Estimating PTSD from different samples can overestimate or underestimate the rate.
- Not all studies published the statistical precision of their prevalence estimates. All but two studies reported estimates as a single number rather than a more-precise range (confidence interval) to account for sampling error. Some of the highest estimates of PTSD prevalence in the studies were the least statistically precise.
- Only combat exposure was consistently associated with PTSD. This correlation held after examination of seven other factors most associated with PTSD: injury, component (active or reserve/National Guard), gender, race, deployment location (Iraq or Afghanistan), age, and rank.

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