Evidence Review of Firefighters, Mental Health, and Suicide Risk

The Centers for Disease Control and Prevention (CDC) has the most comprehensive data on suicide rate comparisons by occupation. Using 2015 CDC data, suicide deaths were analyzed by Standard Occupational Classification (SOC) major groups for decedents aged 16-64 years from the 17 states participating in the 2015 National Violent Death Reporting System (NVDRS). The occupational group with the highest male suicide rate in 2015 was Construction and Extraction (53.2 per 100K) and the group with the highest female suicide rate was Arts, Design, Entertainment, Sports, and Media (15.6 per 100K). Protective Services, which includes firefighters, ranked as the #2 occupational group with the highest suicide rate for women (12.2 per 100K) and #6 occupational group for men (28.2 per 100K).

Firefighters commonly encounter traumatic events during duty hours. In a study of seventeen traumatic experiences, firefighters with more traumatic experiences had more severe post-traumatic stress disorder (PTSD) symptoms. Depression and post-traumatic stress disorder symptom severity are most strongly associated with lifetime suicidal ideation and attempts among firefighters, suggesting that interventions targeting depression and PTSD management can reduce suicide rates among firefighters. Mindfulness interventions for PTSD have been identified as potentially helpful for suicide prevention among firefighters, but no rigorous suicide prevention intervention studies have been conducted. Firefighters have high rates of exposure to physical (~33%) and sexual abuse (~25%) outside of the workplace, which increases their risk for suicidal thoughts and behaviors. Factors outside the workplace contribute to increased suicide risk and should be considered in suicide prevention interventions for firefighters.
Data on health services utilization among firefighters is scant, but evidence indicates that young male firefighters (aged 30-39) are at higher risk of hospitalization compared to other employed men of similar age. The majority of firefighters with a history of elevated suicide risk received mental health services in the past, but more research is needed to understand the opportunities for delivering interventions to prevent suicide among firefighters.

References


