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QUESTION

Question: Is post-traumatic stress disorder (PTSD) associated with risk of new drug problems?

People: 988 young adults (aged 19–24 years) who had enrolled in a large cohort study while in first grade and followed through primary and middle school and on into adulthood. Of the original 2311 participants, only those at risk of a new drug use disorder (those without lifetime DSM-IV drug dependence, and who did not have clinical features of DSM-IV drug abuse or dependence in the previous 12 months) were included in this study. Due to funding problems, not all of these 1436 people were followed up and 988 were included in the final analysis.

Setting: Participants recruited in 19 primary public schools in 5 urban areas in a large city in the USA; enrolment 1985–6, follow-up to 2002.

Risk factors: The main risk factors of interest were lifetime exposure to at least one DSM-IV-qualifying traumatic event in the absence of post-traumatic stress disorder (PTSD), and PTSD following exposure to a traumatic event (diagnosed using WHO Composite International Diagnostic Interview). Family socioeconomic status, conduct problems, cognitive ability and academic achievement and risk-taking at the time of school entry were included in regression models as potential confounders, as were gender, age, ethnicity and the number of years of education completed.

Outcomes: Incident cases of drug abuse or dependence (according to DSM-IV). The outcome was defined in one of four ways: drug abuse or dependence—1 or more DSM-IV clinical features of drug abuse or 2 or more DSM-IV clinical features with respect to any of 12 illegal or prescription drugs; drug abuse—1 or more DSM-IV clinical features of drug abuse (without the presence of DSM-IV drug dependence); drug dependence—3 or more DSM-IV clinical features of drug dependence with respect to any of 12 illegal or prescription drugs (with or without DSM-IV drug abuse); or emerging drug dependence problems—1 or 2 newly incident clinical features of drug dependence without the presence of clinical features of drug abuse.

METHODS

Design: Prospective cohort study.

Follow-up period: One year.

MAIN RESULTS

Overall, drug abuse or dependence was more than 4 times more likely in young adults with PTSD than in those with no trauma exposure (RR 4.9, 95% CI 1.6 to 15.2). Exposure to a traumatic event in the absence of PTSD was not associated with an increase in risk of drug abuse or dependence (RR 2.4, 95% CI 0.9 to 6.3). PTSD also increased the risk of emerging drug problems (that is, no formal DSM-IV diagnosis) compared to no trauma exposure (RR 4.9, 95% CI 1.2 to 20.1).

CONCLUSIONS

PTSD, but not trauma only, is associated with subsequent drug use disorders even after adjusting for early life experiences.

ABSTRACTED FROM


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ince its inception, post-traumatic stress disorder (PTSD) has been a nosological anomaly. Like the euphemistic characterisa-
tion of a camel as “a horse designed by committee”, its conceptual anatomy was cobbled from elements that didn’t readily fit. Although it functions well in most situations, it is an ungainly creature overall.

Increasingly sophisticated and longitudinal empiri-
cal programmes have pursued its central constructs and are helping build a more coherent and grounded picture of traumatic reactivity. Galea and colleagues greatly refined our understanding of reactivity and refraction, demonstrating that fewer civilians showed “caseness” after the 9/11 attacks in the USA than was widely expected and that >90% resolved to subclinical levels between the current duration criterion (4 weeks) and the original DSM-III criterion (6 months). Breslau and colleagues traced key constructs such as the “clinically significant distress/impairment” criterion, application of which reduced overall incidence by 30% but yielded greater severity and chronicity among those retained. They also reported, in contrast to widely accepted notions, that prior exposure to trauma increased vulnerability only where prior reactivity reached clinical proportions, suggesting that vulnerability may be a feature of individual patterns of reactivity than of exposure per se. In this paper, they report that prior PTSD, rather than simply prior trauma exposure, predicted increased vulnerability to drug abuse and dependence. This suggests that drug abuse is likely consequential to the distress of trauma rather than purely a situational or lifestyle correlate.

The initial construction of PTSD proclaimed aetiolo-
gical genesis as situational rather than dispositional—
an example of the attribution error long known to social psychologists. Clearly, both factors matter and clinging solely to one while cleaving the other does little to provide a valid or balanced view of behaviour and its origins. Kessler’s finding that 79–88% of those presenting with PTSD also presented comorbid conditions questions whether clinically significant PTSD is so cleanly a situational reaction as has typically been argued; Breslau’s work helps us better understand which interactions apply. Screening and interventions that more appropriately target those whose post-event disequilibria interacts with pre-existing or consequential comorbid conditions are increasingly indicated and should become a focus. Such research will ultimately lead to detection and prevention strategies.

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