

# Team finds PTSD nearly doubles infection risk

October 15 2019

---



Credit: CC0 Public Domain

First-of-its-kind study finds people with PTSD were 1.8 times as likely to have any infection as those without PTSD, ranging from being 1.3 times as likely to have meningitis, to 1.7 times as likely to have

influenza, to 2.7 times as likely to have viral hepatitis.

A new Boston University School of Public Health (BUSPH) study is the first to examine the relationship between post-[traumatic stress disorder](#) (PTSD) and dozens of infection types in a nationwide cohort. Published in the journal *Epidemiology*, it is also the first to find that PTSD affects infection risks for men and women differently, having, for example, more of an effect on a woman's risk of urinary tract infection and a man's risk of skin infection.

"Our study adds to the growing evidence suggesting that PTSD and chronic severe stress are damaging for [physical health](#)," says BUSPH doctoral candidate Ms. Tammy Jiang, who led the study. This underscores the public health importance of PTSD prevention and treatment interventions, she says.

Ms. Jiang and colleagues from BUSPH, Aarhus University Hospital in Denmark, the University of Vermont, and the Emory University Rollins School of Public Health used Danish national records to look at the health histories of every Danish-born Danish citizen who received a PTSD diagnosis from 1995 through 2011, and matched each person with a comparison group of Danes of the same sex and age. The researchers then compared the Danes' histories of hospital care for 28 different kinds of infections. After adjusting for other physical and mental [health](#) diagnoses and for marriage/registered partnership, the researchers found that people with PTSD were 1.8 times as likely to have any infection than those without PTSD, as well as calculating the increased risk for each of the 28 kinds of infection.

Next, the researchers compared men and women with PTSD. They found that having PTSD had more of an effect on a woman's risk for several kinds of infection—most notably urinary tract infection—than on a man's risk. Having PTSD also had more of an effect on a man's risk

of certain other kinds of infection, most notably skin [infection](#).

**More information:** Tammy Jiang et al, Posttraumatic Stress Disorder and Incident Infections, *Epidemiology* (2019). [DOI: 10.1097/EDE.0000000000001071](#)

Provided by Boston University School of Medicine

Citation: Team finds PTSD nearly doubles infection risk (2019, October 15) retrieved 3 May 2024 from <https://medicalxpress.com/news/2019-10-team-ptsd-infection.html>

<p>This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.</p>
--