

OSTROM WORKSHOP RESEARCH SERIES

Zhi Wang

School of Public Health; Ostrom Fellow

“The Effects of Resilience in Mediating Adverse Childhood Experiences to Prescription Opioid Misuse among U.S. Adults”

Wednesday, MARCH 6, 2019

12:00–1:00 PM • Ostrom Workshop, 513 N. Park



The opioid epidemic started with misusing prescription opioid. Studies found that adverse childhood experience (ACE) is a significant predictor of prescription opioid misuse. Studies also showed that resilience is a protective factor of health-risk behaviors. But few studies have investigated the effects of resilience on mediating the association between ACEs and prescription opioid misuse. To discover the possible mechanism, this study examined if resilience may mediate the aforementioned association. Based on the Connor-Davidson Resilience Scale, a latent variable was created to measure resilience. Generalized structural equation modeling was utilized to conduct the mediation analysis that estimated the effects of resilience on prescription opioid misuse associated with ACEs among respondents from a national survey. Findings suggested that resilience significantly mediated the relationship between ACEs and prescription opioid misuse. To prevent individuals with ACEs from misusing prescription pain medication, addressing the impact of ACEs should include behavioral interventions to improve resilience.



[Zhi Wang](#) is a PhD candidate in public health as well as a data science Master student. Zhi's research focuses on substance abuse and opioid epidemic. The field where he is most interested includes the non-medical use of prescription drugs, opioids overdose, prescription drug monitoring programs (PDMPs), and healthcare utilization among adolescents and HIV patients. He studies drug misuse and related methods incorporating methods from behavioral science, epidemiology, health policy, statistics, machine learning, and data mining.

Presentations are open to the public (see our website for papers). You are welcome to bring your lunch. For questions, contact Allison Sturgeon (sturgeon@iu.edu; 812/855-3151).