# **Cigarette Smoking In Individuals with Concurrent Posttraumatic Stress Disorder** and Opioid Use Disorder



### **INTRODUCTION**

- Almost all individuals (85.1%) with opioid use disorder smoke cigarettes (Guydish et al., 2016).
- Trauma and posttraumatic stress disorder (PTSD) are prevalent among individuals with OUD, with approximately 90% reporting lifetime trauma exposure and 33% meeting criteria for posttraumatic stress disorder (PTSD; Lawson et al., 2013; Mills et al., 2006; Peirce et al., 2009).
- Smokers with trauma exposure smoke significantly more cigarettes per day (CPD; p < .05) than smokers who have not been exposed to trauma (Estey et al., 2021).
- Furthermore, the prevalence of cigarette smoking is high (27.1%) in individuals with posttraumatic stress disorder (PTSD; Pericot-Valverde et al., 2018).
- Recent research (Budenz et al., 2021) indicates that trauma type may be associated with smoking behaviors as trauma exposure involving violence and abuse is associated with a higher prevalence of current tobacco use.
- Individuals with concurrent PTSD and OUD may be at high risk for smoking and smoking-related health risks, particularly if their trauma involved violence and abuse.
- In this secondary analysis, we examined smoking prevalence and frequency in a sample of individuals with concurrent PTSD and OUD to determine whether the number of cigarettes smoked per day varied by the type of trauma experienced.

### **METHODS**

#### **Participants & Procedure**

- Thirty adults recently completed an intake assessment and were enrolled in a randomized trial examining the efficacy of prolonged exposure therapy for treating PTSD in individuals with concurrent PTSD and OUD.
- At intake, participants completed a comprehensive assessment that included a demographic and drug history questionnaire, the Life Events Checklist for DSM-V (LEC-5), and the Clinician Administered PTSD Scale for DSM-5 (CAPS-5).

### **Statistical Methods:**

- We calculated the percentage of participants who were current smokers.
- We calculated the number of cigarettes smoked per day (CPD) for current smokers and conducted independent t-tests to examine whether CPD differed by trauma type.

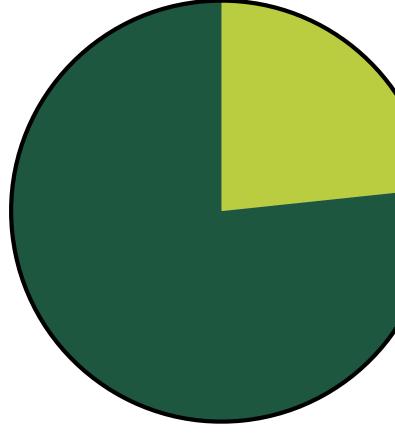
### **GRANT SUPPORT**

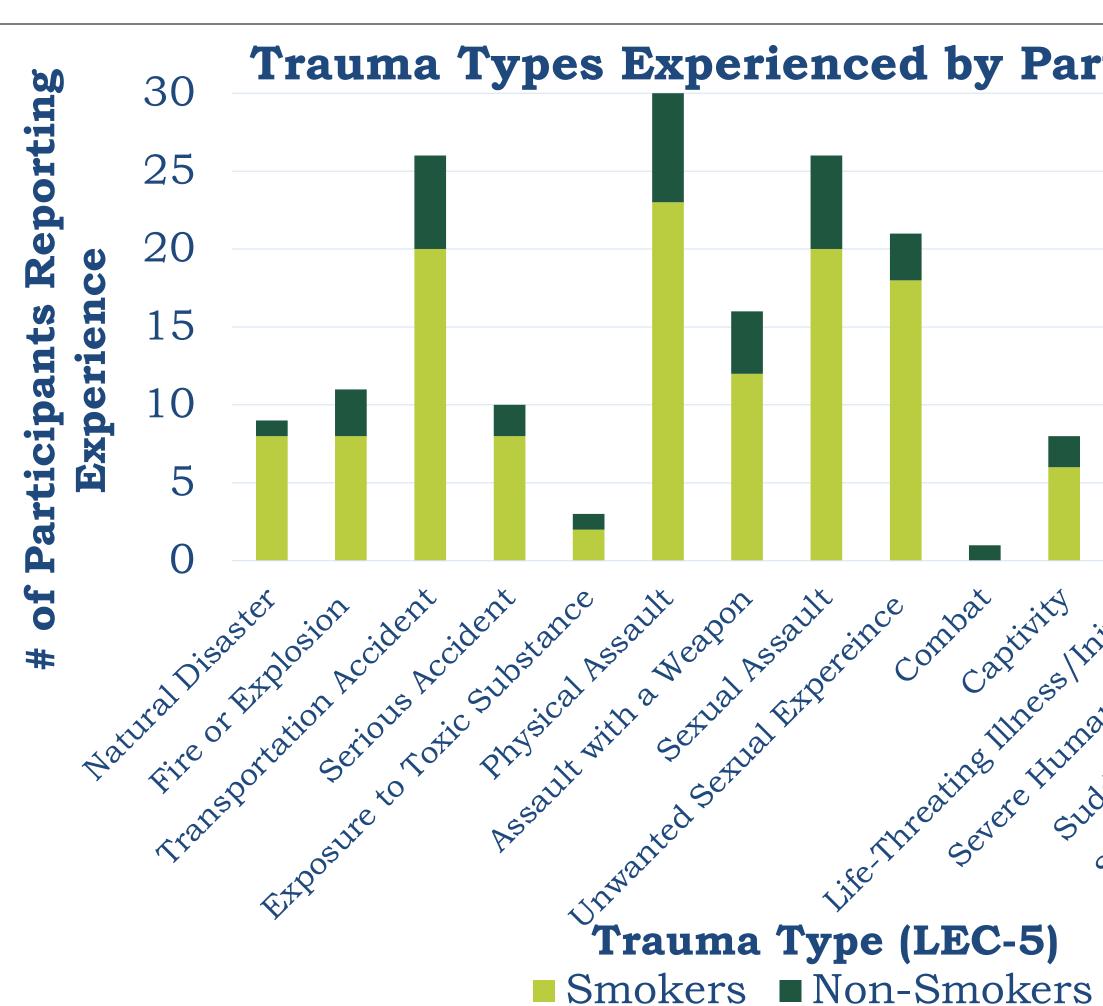
This work was supported by the National Institute of General Medical Sciences (P20GM103644).

Rebecca Cole, B.A. & Kelly Peck, Ph.D. Vermont Center on Behavior and Health University of Vermont, Burlington, VT

_	(OUD)
	<b>\</b> /

RESULTS	5	20 Ciga
Table 1		<b>A</b> 18 <b>A</b> 16
<b>Demographics</b> $(n = 30)$		<b>ä</b> 14
Age, years	38.1 (7.9)	
Female, N (%)	19 (63.3)	
White, N (%)	29 (96.7)	
Education, years	13.3 (1.5)	<b>S B B B B B B B B B B</b>
Employed full-time, N (%)	6 (20.0)	<b>5</b> 6
Duration of illicit opioid use,	7.4 (7.3)	4 4
years		2
Ever overdosed, N (%)	10 (33.3%)	0
OAT medication		Natural Disaster of the cident dent of the orthogonal product of the providence of t
Buprenorphine, N (%)	17 (56.7%)	Disas plost accide accide to
Daily dose, mg	15.6 (5.6) 13 (43.3%)	rat the internation of the states
Methadone, N (%)	Natural or Europeinous con gotte	
Daily dose, mg	92.2 (42.3)	Transport Stretor Assai
Duration of OAT, years	4.5 (4.1)	Tra. Osult As
History of PTSD treatment, N (%)	18 (60.0%)	EXP
<b>CAPS-5</b> <i>Note.</i> Values represent mean (SD) unless otherwise indica	41.5 (8.1)	Exp
		<ul> <li>11.4 (SD = 3.7)</li> <li>There was no stat trauma type and s</li> </ul>
Total=30		• In the current study
Trauma Types Experienced I 30 25 20 15 10 5 0 Natural Disaster Natural Disa		<ul> <li>trauma type and CP.</li> <li>The prevalence of of concurrent PTSD an studies of individual 2018) and similar to individuals with OUI</li> <li>Research is needed if those with concurrent characteristics may behaviors than traum</li> <li>Future studies in the avoidance or negative differ between current PTSD (Cook et al., 2000)</li> </ul>
W <sup>+</sup> <b>Trauma Type (Li</b> Smokers ■ Non-St		Email for full list of ref



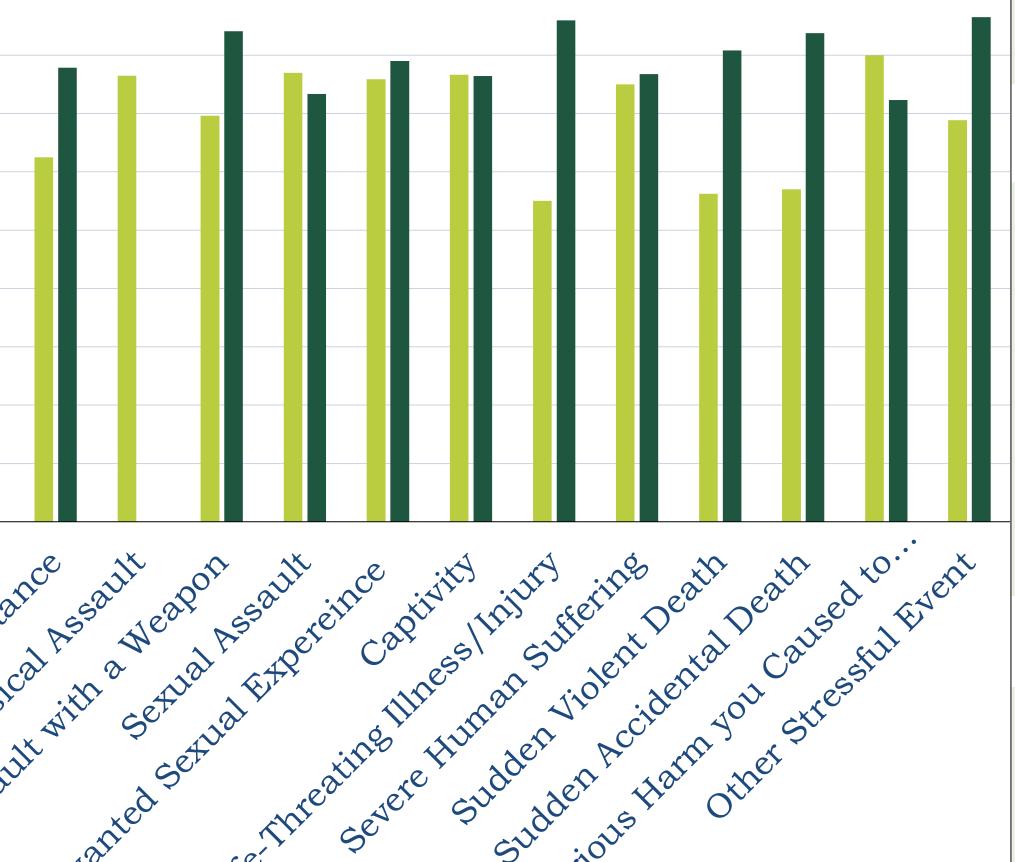




The University of Vermont

arettes Per Day by Trauma Type

LARNER COLLEGE OF MEDICINE



Traumá Type (LEC-5) perienced ■ Not Experienced

participants (73.3%) were current smokers d an average of 15.3 cigarettes daily nber of trauma types directly experienced was

atistically significant association found between number of cigarettes smoked daily

## **CONCLUSIONS**

y, there was no significant association between

of smoking in this sample of individuals with nd OUD was notably higher than in previous als with PTSD alone (Pericot-Valverde et al., to prevalence rates reported in studies of JD alone (Guydish et al., 2016).

in a larger, more representative sample of ent OUD and PTSD to determine if other PTSD be more closely associated with smoking ama type.

his population may examine the severity of ve affect. Both of which have been shown to ent smokers and non-smokers diagnosed with 2016; Greenberg et al., 2012).

### REFERENCES

eferences: Rebecca.cole@uvm.edu