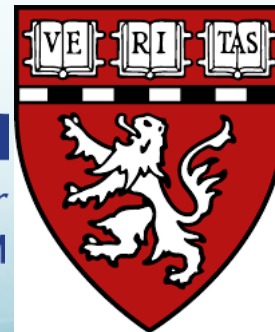


Homelessness Across the Lifespan: Clinical Approaches, Prediction, and Prevention

Katherine A. Koh, MD, MSc

Colin W. Burke, MD

May 1st, 2023

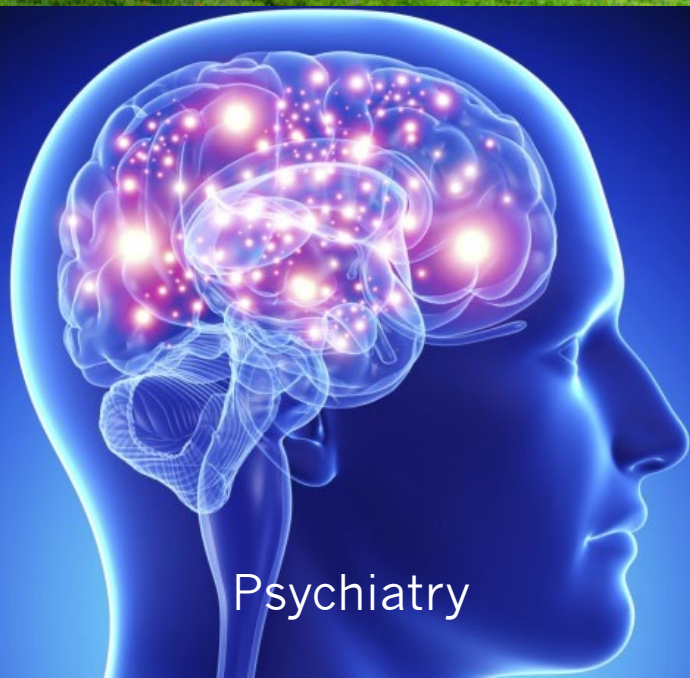




Andover, MA



Harvard Square



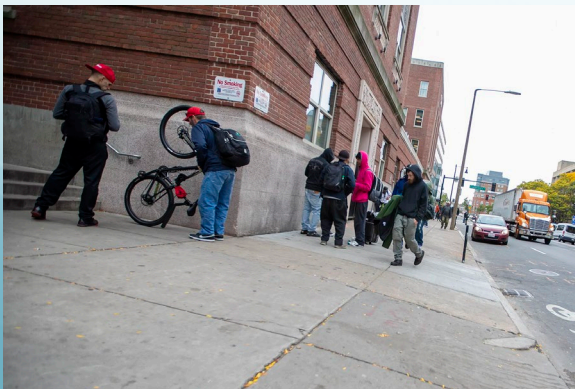
Psychiatry



Boston Health Care for the Homeless
Street Team

Boston Health Care for the Homeless Program

- Provides care to 11,000 homeless individuals in 45 clinical sites, including street and shelter-based care
- Offers mental health, medical, dental, eye, and respite services
- Integrated care model unites peer specialists, case managers, social workers, nurses, NPs, PAs & physicians





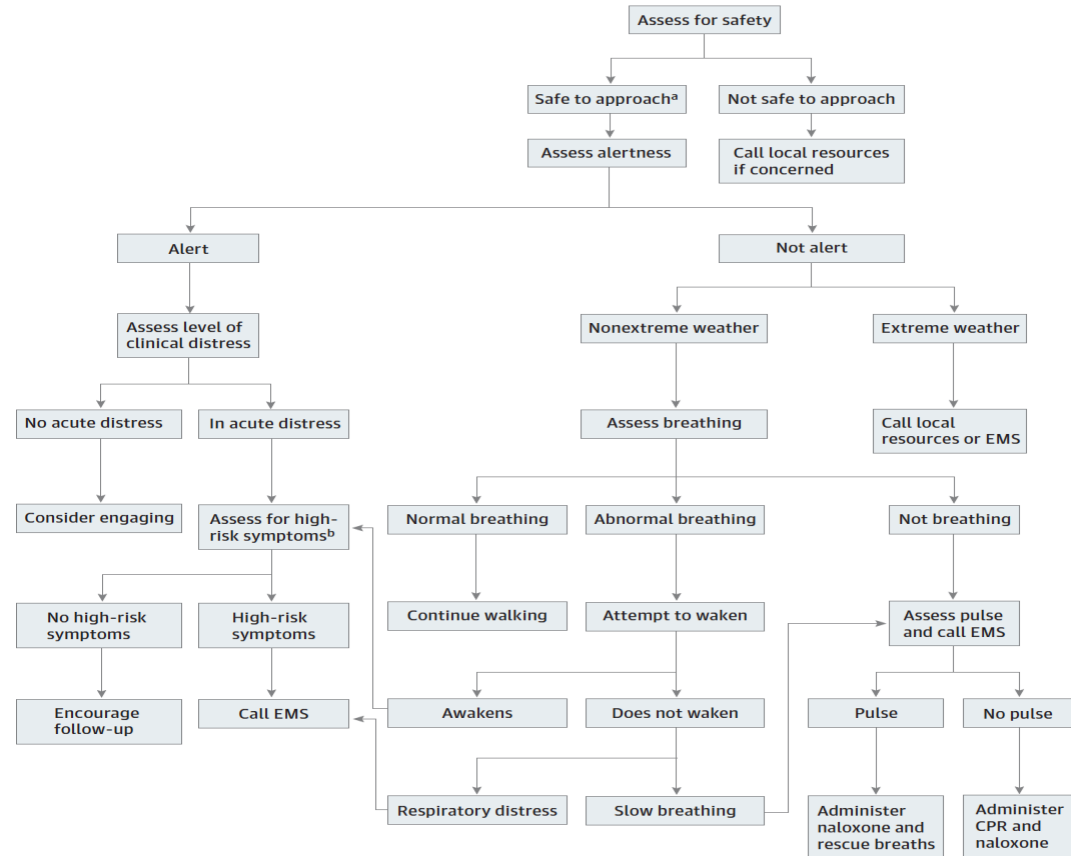
A Framework to Prevent Suffering on the Street



VIEWPOINT

A Clinical Approach to Preventing Death on the Streets

Figure. Clinical Approach to Assessing a Person Experiencing Homelessness on the Street

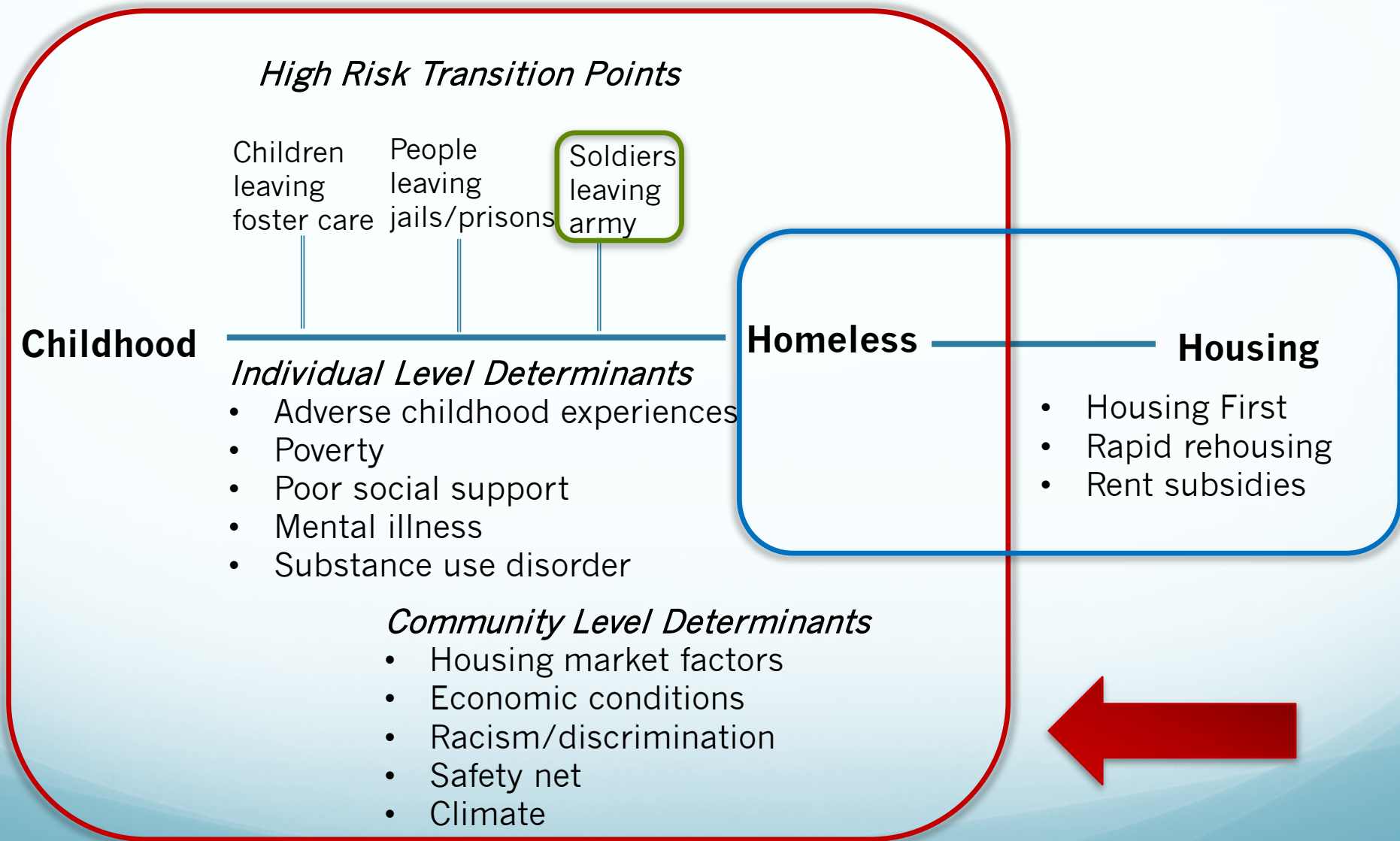


Homeless → **Housing** → **Improved Outcomes**



X

Homelessness Prevention: A Framework



Prediction Modeling for Homelessness

American Journal of
Preventive Medicine

RESEARCH ARTICLE

Predicting Homelessness Among U.S. Army Soldiers No Longer on Active Duty



Katherine A. Koh, MD, MSc,^{1,2} Ann Elizabeth Montgomery, PhD,^{3,4} Robert W. O'Brien, PhD,⁵
Chris J. Kennedy, PhD,⁶ Alex Luedtke, PhD,^{7,8} Nancy A. Sampson, BA,⁹ Sarah M. Gildea, BS,⁹
Irving Hwang, MPH,⁹ Andrew J. King, MS,⁹ Aldis H. Petriceks, BA,¹⁰ Maria V. Petukhova, PhD,⁹
Murray B. Stein, MD, MPH,^{11,12} Robert J. Ursano, MD,¹³ Ronald C. Kessler, PhD⁹

Key question: Can
homelessness among U.S.
army veterans be predicted
with accuracy based on data
collected during their time
of military service?

Results and Next Steps

- A prediction model for homelessness can **accurately target soldiers for preventive intervention** before transition to civilian life.
- Indicators of **mental health** emerged as most important predictors, as well as **certain lifetime traumas** and **adverse life experiences**.
- Next steps: **designing, implementing, and evaluating a preventive intervention** for high-risk soldiers transitioning to civilian life.

High Risk Transition Points







Transitional Age Youth Experiencing Homelessness

Colin W. Burke, MD



Background



- Clinical and Research pathway
- MGH, Harvard Medical School, and K12 Research
- Academic-Community Partnership

Background

- Team:
 - Timothy Wilens, MD
 - Peter Ducharme, MSW
 - Sylvia Lanni, BA
 - Shaye Firmin, BA
 - Maura DiSalvo, MPH

Research – First Steps

Received: 23 March 2022 | Revised: 10 August 2022 | Accepted: 11 August 2022

DOI: 10.1111/ajad.13340

REVIEW ARTICLE



Systematic review: Rates of psychopathology, substance misuse, and neuropsychological dysfunction among transitional age youth experiencing homelessness


Colin W. Burke MD  | Elizabeth S. Firmin BA | Timothy E. Wilens MD

TABLE 2 Comparison of TAY-EH psychopathology/SUD rates with population means^a

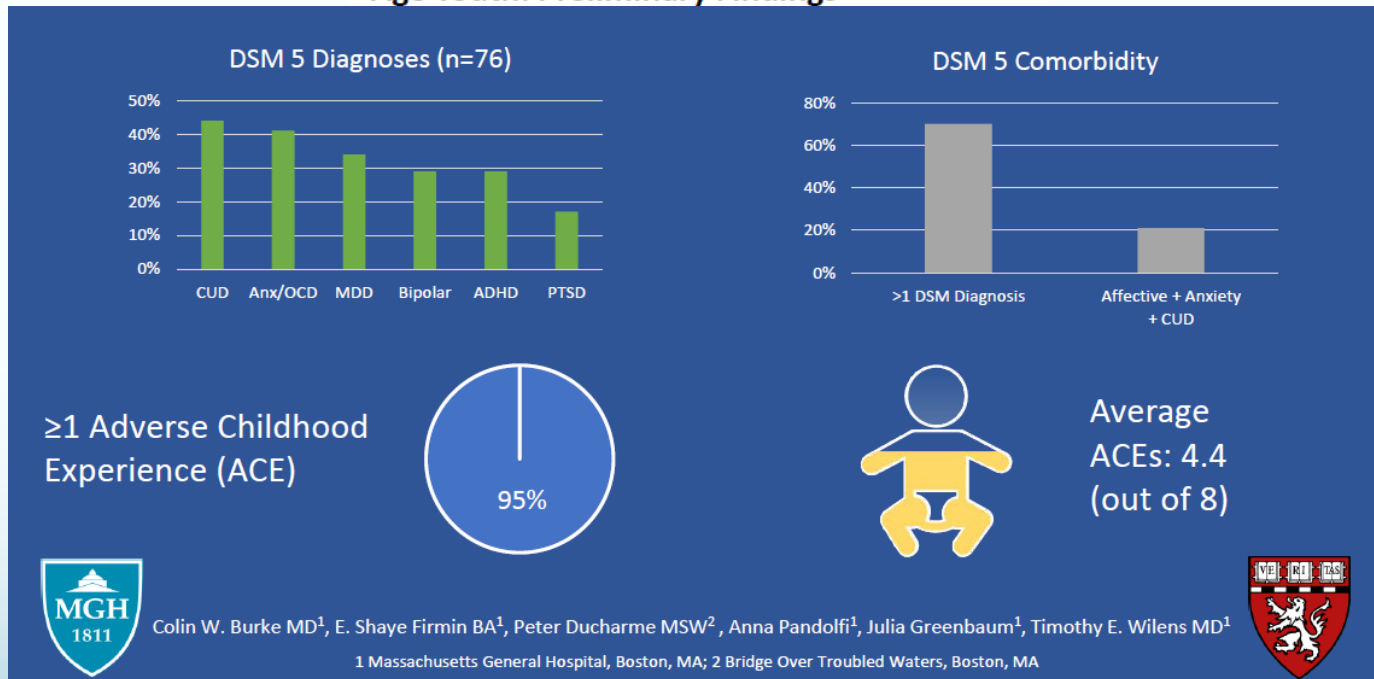
Disorder	TAY-EH	Population mean
Major Depressive Disorder	31%–95%	15% ^{4B}
Bipolar Disorder	22%–50%	5.9% ^{4B}
Anxiety Disorders	23%–51%	30% ^{4B}
PTSD	21%–80%	6.3% ^{4B}
ADHD	30%–56%	7.8% ^{4B}
Alcohol Use Disorder	13%–50%	9.3% ^{4P}

Abbreviations: SUD, substance use disorders; TAY-EH, Transitional age youth experiencing homelessness.

^aTAY-EH data included only for disorders with >1 study reporting prevalence.

Research – First Steps



Prevalence, Comorbidity, and Psychosocial Correlates of Psychopathology and Substance Use Disorders Among Homeless Transitional Age Youth: Preliminary Findings



Research – First Steps

NEW RESEARCH | [ARTICLES IN PRESS](#)

Substance Use Disorders and Psychiatric Illness Among Transitional Age Youth Experiencing Homelessness

Colin W. Burke, MD   • [Elizabeth S. Firmin, BA](#) • [Sylvia Lanni, BA](#) • [Peter Ducharme, MSW](#) • [Maura DiSalvo, MPH](#) • [Timothy E. Wilens, MD](#)

[Open Access](#) • Published: January 17, 2023 • DOI: <https://doi.org/10.1016/j.jaacop.2023.01.001>

Research – First Steps

TABLE 2 Psychiatric and Substance Use Disorders Based on Mini International Neuropsychiatric Interview

	Value	n (%)
Psychiatric disorders		
Major depressive disorder, past	39	(28)
Bipolar I disorder, past	30	(21)
ADHD ^a	33	(24)
Panic disorder, lifetime	11	(8)
Antisocial personality disorder, lifetime	20	(14)
Suicidality, lifetime attempt	51	(36)
Generalized anxiety disorder, past 6 months	16	(11)
Social anxiety disorder, past month	12	(9)
PTSD, past month	20	(14)
Obsessive-compulsive disorder, past month	23	(16)
Substance use disorders, past 12 months		
CUD	62	(44)
AUD	29	(21)
Hallucinogens	4	(3)
Stimulants	3	(2)
Cocaine	3	(2)
Sedatives, hypnotics, or anxiolytics	2	(1)
Miscellaneous	2	(1)
Opiates	1	(<1)
Inhalants	1	(<1)
Dissociative drugs	0	(0)

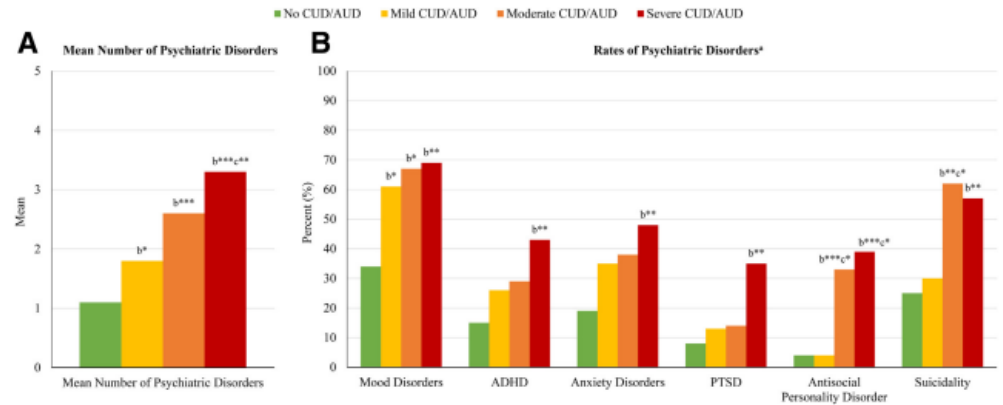
NEW RESEARCH | ARTICLES IN PRESS

Substance Use Disorders and Psychiatric Illness Among Transitional Age Youth Experiencing Homelessness

Colin W. Burke, MD, ^a Elizabeth S. Firmin, BA ^a Sylvia Lanni, BA ^a Peter Ducharme, MSW ^a Maura DiSalvo, MPH ^a Timothy E. Wilens, MD

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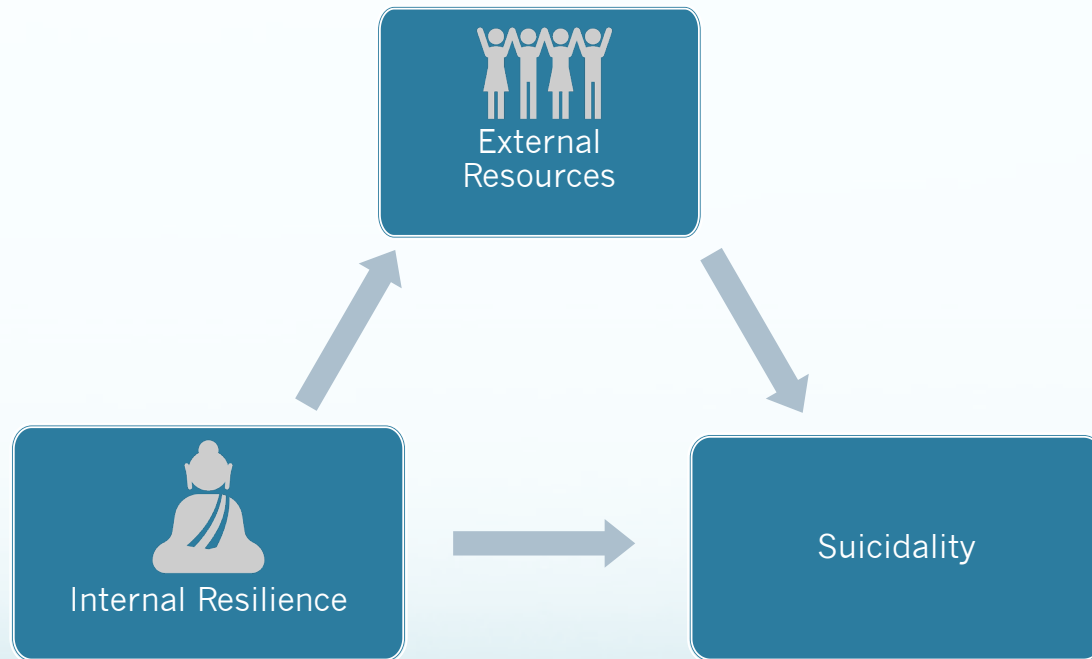
FIGURE 1 Mean Number and Rate of Psychiatric Disorders by Highest Cannabis Use Disorder and/or Alcohol Use Disorder Severity



Research – Stress and Cannabis

- Why is cannabis use so common among TAY-EH?
- Hypothesis: High burden of stress and dysregulated stress reactivity drives high rates of cannabis use
 - Early life adversity
 - Discrimination/stigma
 - Resilience
 - Psychiatric and substance use disorders
- Psychophysiological assessments measuring stress response and connection to cannabis use disorder

Research – Resilience



Research – Next Steps

- Collaborations with Center of Excellence
- Integrating clinical care, teaching, and outcome research at Bridge Over Troubled Waters
- Participant-centered, responsible, and responsive study designs