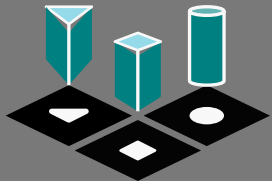


Falling in Line with the HIV Cascade of Care Model: A Comparison of HIV and Substance Abuse Outcomes for Treatment Seeking and Non-Treatment Seeking Individuals Living with HIV and Opioid Use Disorders in Washington, D.C.

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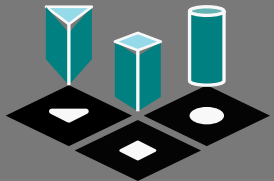


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Disclosures

- I have no actual or potential conflict of interest in relation to this program/presentation
- Financial- This research has been funded by a grant from the National Institute on Drug Abuse (NIDA) (R01DA030768)
- Nonfinancial- No relevant relationships to disclose





Examining the Research

Washington, D.C not only has one of the **highest rates** in the nation of people living with **HIV/AIDS** (3.2%)¹, but also has high rates of **illicit drug use** and **substance use disorders**.

- **20.9%** reported using illicit drugs
- **12.9%** reported having a substance use disorder
- **3.8%** reported using non-prescribed opioid pain medication²

Heroin use is part of a larger substance abuse problem.

Nearly all people who used heroin also used at least 1 other drug.

Most used at least **3** other drugs.

Heroin is a highly addictive opioid drug with a high risk of overdose and **death** for users.

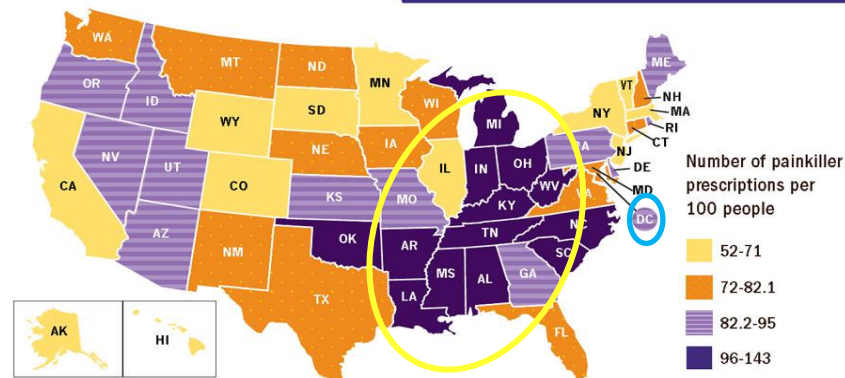
People who are addicted to...



...more likely to be addicted to heroin.

SOURCE: National Survey on Drug Use and Health (NSDUH), 2011-2013.

Some states have more painkiller prescriptions per person than others.



SOURCE: IMS, National Prescription Audit (NPA™), 2012.

Opioid Epidemic

- **1.9 million** Americans live with prescription opioid abuse or dependence³
- **517,000** Americans live with heroin addiction³
- **8,200** Americans die annually from heroin overdoses⁴
- **In 2012, 259 million** opioid pain medication prescriptions were written, enough for every adult in America to have a bottle of pills⁵
- **Every day 44 people** in the U.S. die from overdose of prescription painkillers⁶
- **45%** of people who used heroin were also addicted to prescription opioid painkillers⁷

Examining the Research

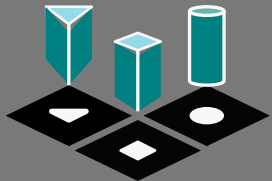
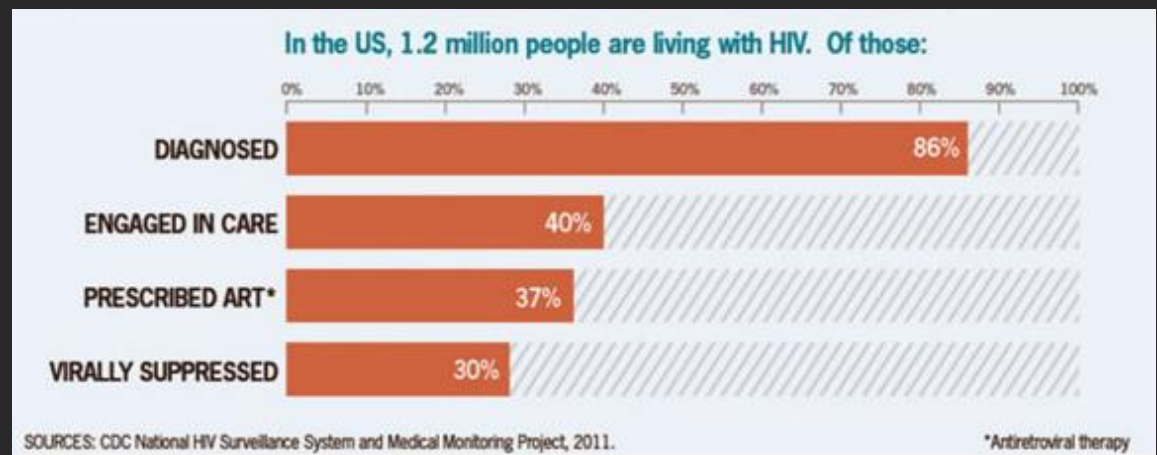
Drug use plays a role in the **spread of HIV** due to individuals engaging in high-risk sexual behaviors while using drugs or in order to procure drugs ^{8,9,10,11}



HIV Cascade of Care Model

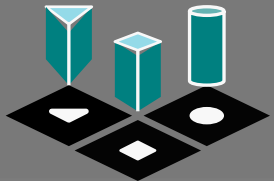
Newly diagnosed HIV infections¹²

- **63%:** MSM
- **25%:** Heterosexual contact
- **8%:** Injection drug use
- **3%:** MSM and IV use



Research Question

- Do **differences** exist within the HIV Continuum of Care model for for opioid substitution therapy (OST) treatment seeking and non-OST treatment seeking individuals living in Washington D.C.?



Project STRIDE



Funder: National Institute on Drug Abuse (R01DA030768)

Sample Size: 159

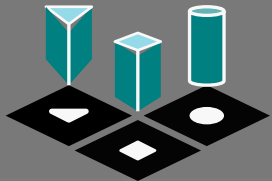
- 50 participants enrolled in STRIDE1
- 109 participants enrolled in STRIDE2

Data Collection Time Frame: 12 month follow-up

- STRIDE1: February 2012 - June 2015
- STRIDE2: June 2014 - October 2015

Data Collection Methods:

- In-person quarterly and monthly interviews using Audio-Computer-Assisted Self-Interview (ACASI)
- Timeline Follow-Back
- Urine drug testing
- Quarterly blood draws



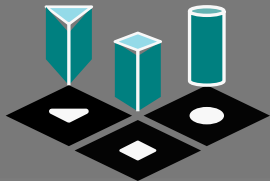
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Demographics

- 98.0% African American, 1.3% Caucasian, 0.7% Asian/Pacific Islander
- 52.8% Male, 41.5% Female, 5.7% Transgender (male to female)
- Mean age = 51.6
- 32.1% 49 years of age or younger, 67.9% 50 or older
- 63.3% have a high school diploma/GED or equivalent
- 13.3% employed
- 11.4% married
- 23.6% consider themselves to be homeless
- 30.8% on community supervision
- 62.3% Seeking OST Treatment vs. 37.7% not seeking OST



Substance Use History

Lifetime Substance Use



Heroin (87.3%)	Alcohol (80.9%)	Cocaine (80.8%)
Marijuana (66.0%)	Injected Drugs (60.4%)	
Other Opiates (59.9%)	Methadone (35.9%)	

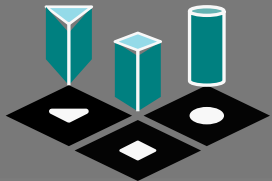
Recent Substance Use



Heroin (68.6%)	Alcohol (58.8%)	Cocaine (39.4%)
Marijuana (35.5%)	Injected Drugs (27.0%)	
Other Opiates (19.6%)	Methadone (15.6%)	

Mean Years of Lifetime Use

- Heroin: 17.58
- Alcohol: 15.95
- Marijuana: 12.47
- Cocaine: 11.69
- Other Opiates: 8.20
- Methadone: 4.06

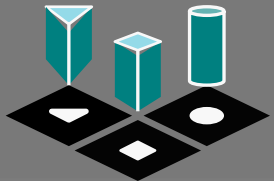


Substance Use History

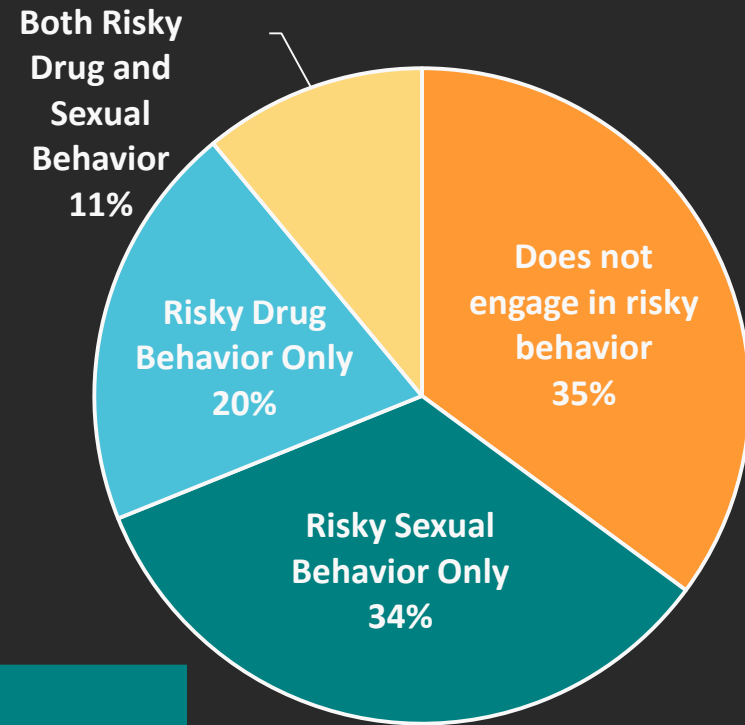
Substance Use History (n=157)

	MAT Seeking n (%)	Non-MAT Seeking n (%)	p-value
Lifetime Substance Use History			
Injected Drugs in lifetime ^a	75 (75.8)	21 (35.0)	0.000
Heroin Use	98 (100.0)	39 (66.1)	0.000
Methadone Use ^b	45 (47.4)	10 (17.2)	0.000
Other Opiates Use	46 (46.9)	48 (81.4)	0.000
Recent Substance Use (past 30 days)			
Injected Drugs ^c	36 (36.4)	7 (11.7)	0.001
Believe dependent on drugs ^b	58 (60.4)	46 (80.7)	0.009
Heroin Use	81 (81.8)	27 (46.6)	0.000
Methadone Use	21 (21.9)	3 (5.2)	0.006
Other Opiates Use	27 (27.3)	28 (48.3)	0.008
Marijuana Use ^b	13 (13.7)	17 (29.3)	0.018

^a n=156, ^b n=153, ^c n=159

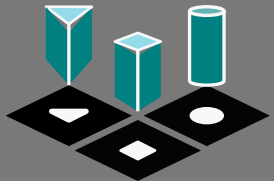


Engagement in Risky Drug Use and Risky Sexual Behaviors



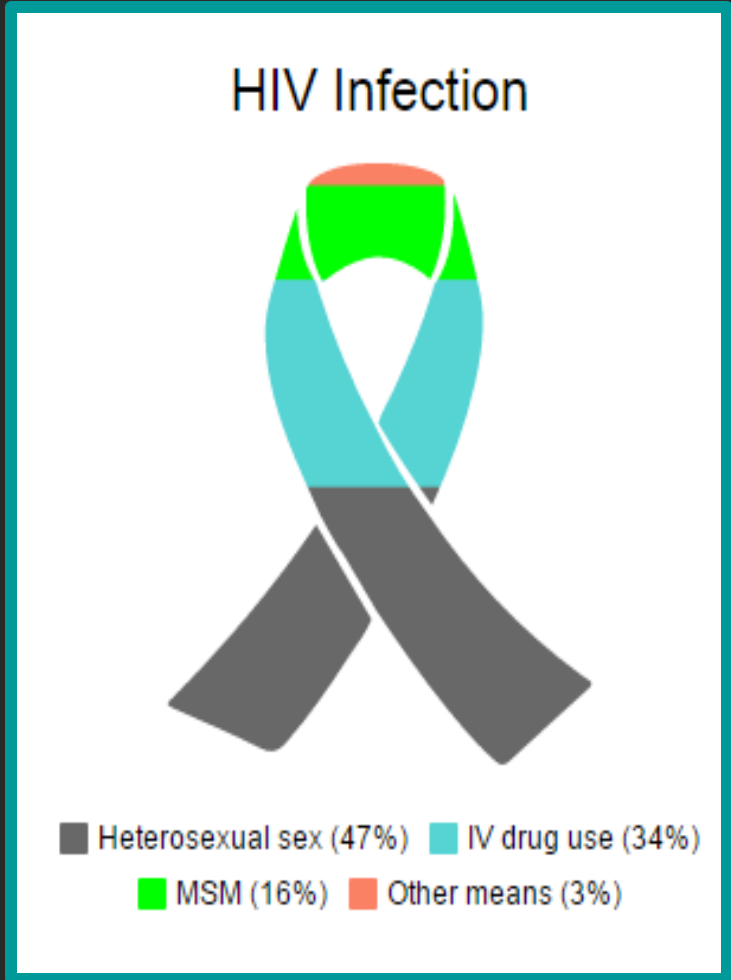
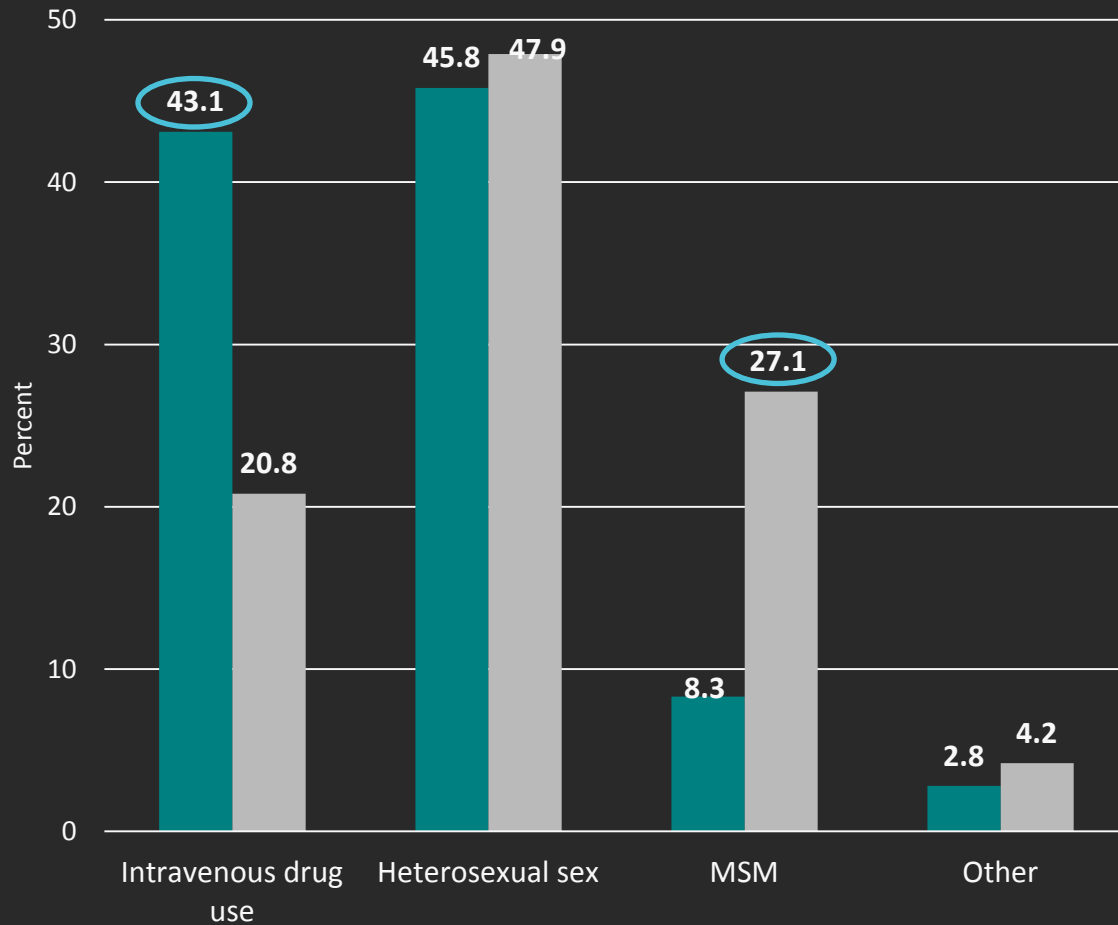
Engagement in Risky Behaviors (n=154)

	MAT Seeking n (%)	Non-MAT Seeking n (%)	p-value
Risky Drug Behavior Only	27 (27.8)	4 (7.0)	0.000
Risky Sexual Behavior Only	22 (22.7)	30 (52.6)	
Both Risky Drug and Sexual Behavior	12 (12.4)	5 (8.8)	
Does not engage in risky behaviors	36 (37.1)	18 (31.6)	



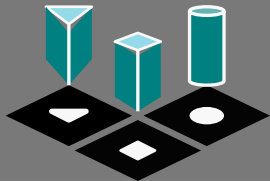
HIV Infection

Mode of HIV Transmission (n=120)*



■ MAT Seeking (%)
■ Non-MAT Seeking (%)

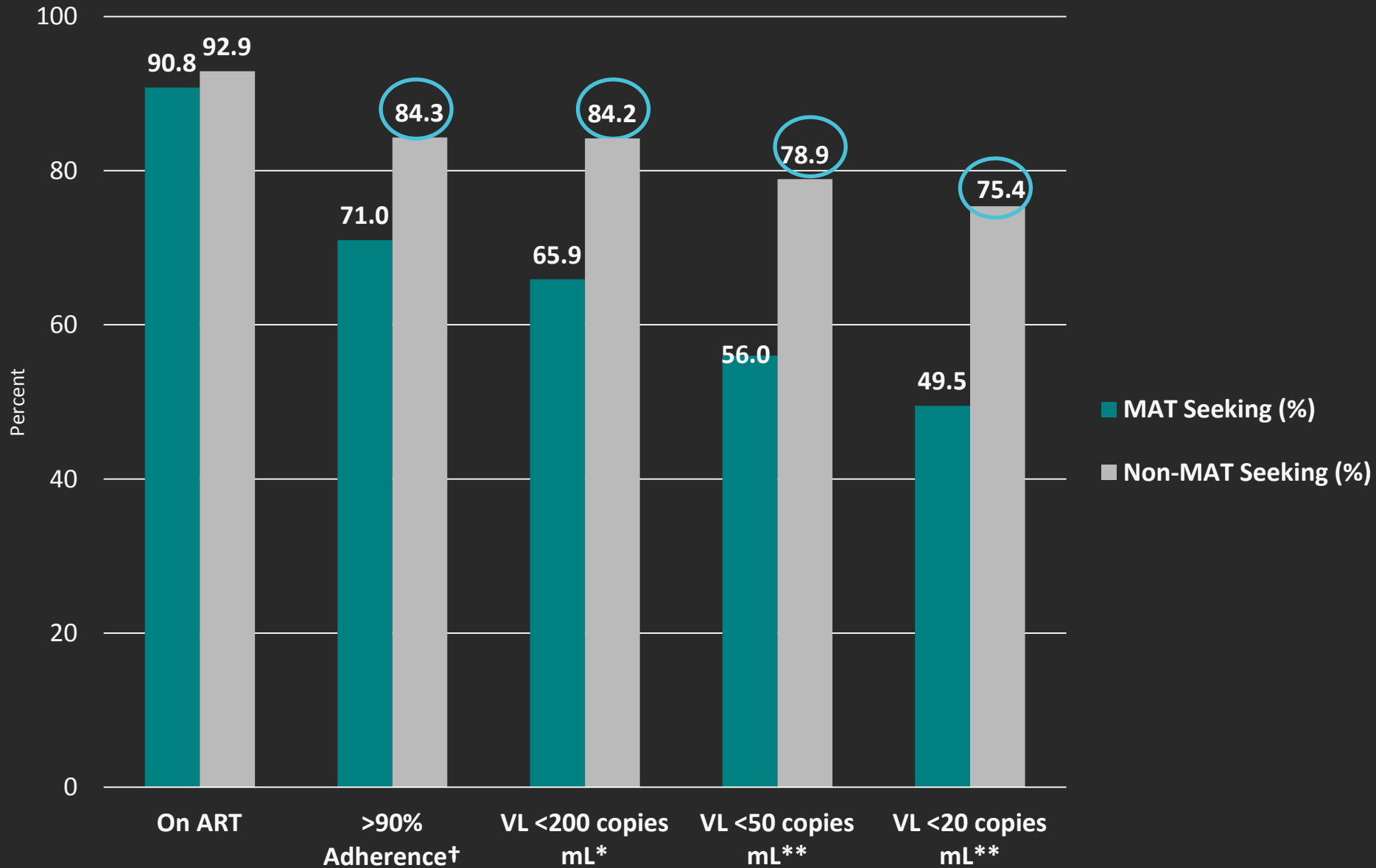
***p<0.001; **p<0.01; *p<0.05; †p<0.10



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Cascade of Care Model for MAT Seeking vs. Non-MAT Seeking HIV+ Opioid Dependent Participants (n=148)



***p<0.001; **p<0.01; *p<0.05; †p<0.10

Conclusions and Discussion

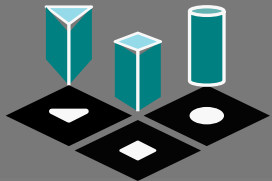
With a rise in opioid use, abuse, and overdose over the last few years, there is a great need to **develop an integrated HIV and addiction health care plan** in order to reduce opiate use and increase the odds of achieving ART adherence

Integrate substance abuse care and treatment (e.g. use of OST) in HIV treatment

Increase efforts to address HIV and SUD among injection drug users and individuals who engage in risky sexual behaviors

Recognize the unique needs of individuals with severe SUD within the cascade of care model

Ensure HIV treatment and prevention programs, and treatment services are easily accessible

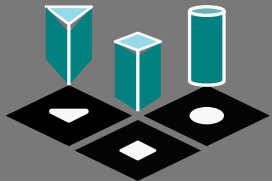


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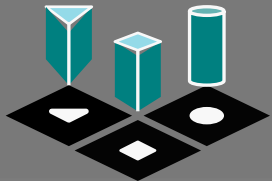
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Questions?

Thank You!

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