



### Background

Trading sex has been associated with women's increased risk for sexually transmitted infections (STIs) including HIV, however, there has been little study into whether there are differential influences between types of sex trade (for drugs versus money) and women's risk for STIs.

Female injection drug users are at even greater risk for sexually transmitted infections including HIV. However, there has been little examination into sexual behaviors and the sexual health of these women. Nevertheless, such information is needed to inform infectious disease prevention and intervention efforts.

**Study Aim 1:** Test the relationships between sex trade for drugs and sex trade for money with 169 injection drug using women's self-reported lifetime STIs

Study Aim 2: Describe the prevalence of self-reported STIs and rates of the types of sex trade and their relationship to STIs among female IDUs

# Methods

**Design:** Baseline data from the NIDA-funded (R01DA014498), NEURO HIV Epidemiologic Study, which used targeted sampling to recruit drug users.

**Sample:** 169, female injection drug users (IDUs) in Baltimore, MD. Eligibility criteria included: (1) English speaking, (2) 15-50 years of age, and (3) illicit drug use during the previous 6 months

**Measures:** HIV Risk Behavior Interview obtained information regarding participants' lifetime drug use, sexual behaviors, and history of STIs

### Analysis:

- Chi Square tests were used to compare patterns of sex trade for either drugs or money with participant demographics, substance use behaviors, and self-report of infectious diseases (Not shown)
- Logistic regressions were used to test independent demographic and sexual trade correlates of lifetime STIs, after which one simultaneous logistic regression was then performed to test significant univariable correlates of lifetime STIs

**Sex Trade for Money is Associated with Lifetime** Self Reported Sexually Transmitted Infections among Injection Drug Using Women in Baltimore Typhanye V. Penniman, Ph.D., MPH, Courtenay E. Cavanaugh, Ph.D., Leah J. Floyd, Ph.D., & William Latimer, Ph.D., MPH. Johns Hopkins University Bloomberg School of Public Health

### Results

	Mean (SD)	Participar
Age	32.77 (7.5)	to be Bla
Race/Ethnicity	N (%)	Participar
Black	89 (52.7)	to report e
White	80 (47.3)	
Education 114 <high equivalent<="" or="" school="" td=""><td>114 (67.5)</td><td></td></high>	114 (67.5)	
		Sex trade
Homeless in Past 6 Months	29(17.8)	correlates
Lifetime STI Prevalence	66 (39.9)	Female ID five times lifetime hi
Sex Trade for Money	32 (18.3)	
	8 (4.7)	
Sex Trade for Drugs		race/ethn
Sex Trade for Both	38 (22.5)	trade for o

iable	Lifetime STI (%) (N=169)	UOR (95% CI)	AOR (95% CI)
ge		1.05 (1.01-1.10)	1.03 (0.96-1.08)
ace White Black	29.5 48.8	1.00 2.27 (1.21-4.26)**	1.00 2.20 (1.00-4.58)*
ducation			
< High School High School of More	37.9 41.1	1.00 0.87 (0.46-1.68)	1.00 1.83 (0.83-4.04)
lomelessness			
Homeless in past 6 months Not Homeless in past 6 months ex Trade for Drugs	39.4 46.7	1.00 1.13 (0.50-2.54)	1.00 0.79 (0.23-2.09)
Never Trade for Drugs	31.9	1.00	1.00
Trade for Drugs	60.9	3.44 (1.70-6.96)***	1.55 (0.64-3.78)
ex Trade for Money			
Never Trade for Money Trade for Money	25.3 58.6	1.00 4.19 (2.16-8.07)***	1.00 4.91 (2.12-11.40)***

Age is a continuous variable; therefore odds ratios are interpreted for 1 year increments

UOR = Unadjusted Odds Ratios; AOR = Adjusted Odds Ratios; CI = Confidence Intervals

High prevalence of sex trade among female IDUs in this study underscores the need for STI prevention interventions targeting female IDUs

Raises questions for future epidemiological and prevention studies about the nature of sex trade in Baltimore, specifically the extent to which female IDUs drug networks differ from their sex networks

Furthermore, future studies should examine whether women who trade sex for drugs differ with respect to their number of partners or frequency of sex trade, as well as condom use during sex trade

Special consideration should be given to Black female IDUs engaging in sex trade for money and their clients who may substance using males or not but may possible serve as bridges to less risky populations

# **Results (cont.)**

ts who reported ever having an STI were significantly more likely

ts reporting trading sex for money were significantly more likely ever having an STI.

for money and race/ethnicity emerged as the only significant of lifetime STIs among female IDUs.

OUs with a lifetime history of trading sex for money had almost the odds of a lifetime STI compared to female IDUs with no story of trading sex for money, after controlling for education, city, and homelessness during the previous six months and sex rugs

## **Summary and Conclusions**