

Associations between gender, race, and HIV risk among injection drug users A secondary analysis of HPTN 037

Mandy J. Hill, DrPH, MPH University of Texas Health Science Center at Houston, McGovern Medical School Houston, TX, USA June 14, 2016



CURRENT TRENDS IN HIV RISK

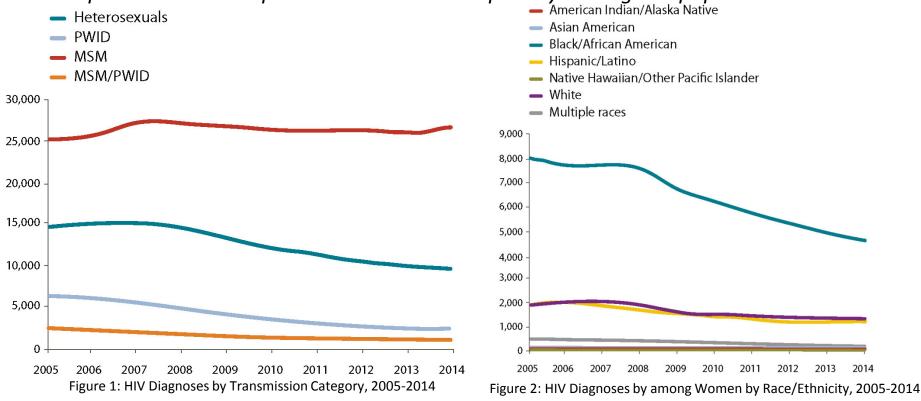
- HIV transmission rates have gone down among people who inject drugs (PWID)
- Research suggests HIV transmission among female injection drug users, as compared to men, is more influenced by high risk sex behaviors and less influenced by high risk drug using behaviors (Strathdee, etal., 2001)
- Hepatitis C (HCV) rates have increased among young PWID (suggesting we still should be vigilant about HIV transmission among injectors)



CURRENT TRENDS IN HIV RISK

CDC Data on HIV transmission among:

- Heterosexuals
- Black/African American women
- This emphasizes that HIV prevention should be a priority among this population



Ref: Center for Disease Control and Prevention. Fact Sheet: Trends in U.S. HIV Diagnoses, 2005-2014. February 2016.



GENDER AND RACE

Gender

- Women are more likely than men to willingly engage in condomless sexual activity with sexual partners who they perceive as 'high-risk' (Wingood and DiClemente, 1998).
- Few researchers have evaluated the impact of gender roles on 'high-risk' sexual acts.
- Women have historically adopted sexual scripts that minimize their power and decision making abilities regarding safer sex.

Race

- Study findings show different relationships with risk, relative to race.
 - High risk injection drug use was higher among White Males.
 - High risk sex was higher among African American women.



HPTN 037 study

- Phase III, multi-site, two-arm, randomized controlled study
 - Study purpose: To determine the efficacy of a peer educator intervention for HIV prevention among HIV risk networks of injection drug users (IDU).
 - Targeted outcome: Reduction of HIV risk behaviors
 - Randomization: Each IDU network was assigned as a group to intervention or control.
 - Study period: December 2002 and November 2006
 - Study duration: 48 months, follow-up 18-30 months
 - Samples of IDU index and network members were recruited from community settings
 - Thailand (n = 427)
 - Philadelphia (n=696)



Objectives & Methods

- Objective: To identify associations between gender, race, and HIV risk behaviors among people who inject drugs (PWID)
- Analysis limited to Philadelphia site only
- Definition of 'high risk sex' behaviors

 Had vaginal or anal sex in last 30 days AND (any condomless sex with non-primary partner OR Accepted money/drugs for sex OR multiple male partners OR multiple female partners)
- Definition of 'high risk drug use' behaviors
 - Reported needle sharing OR Injected front/backloaded syringe OR Used a needle/syringe after a known HIV positive person OR Injected drugs with others in public



Results

Table 1: Demographics by Gender and Race

Variables	Gender		Race			
	Female	Male	White	African Americans	Other	Total
	(n= 217)	(n=479)	(n=318)	(n=331)	(n=47)	(n=696)
Mean Age (SD)	38.97 (8.68)	41.25 (10.3)	36.51 (10.02)	45.1 (7.85)	35.68 (7.27)	40.54 (9.87)
Married and living together	27 (12.4%)	43 (9%)	28 (8.8%)	39 (11.8%)	3 (6.4%)	70 (8.6%)
Employed full time	12 (5.5%)	48 (10%)	28 (8.8%)	30 (9.1%)	2 (4.3%)	60 (10.1%)
Graduated High School or greater	131 (60.3%)	330 (68.9%)	209 (65.7%)	225 (68%)	27 (57.4%)	461 (66.2%)



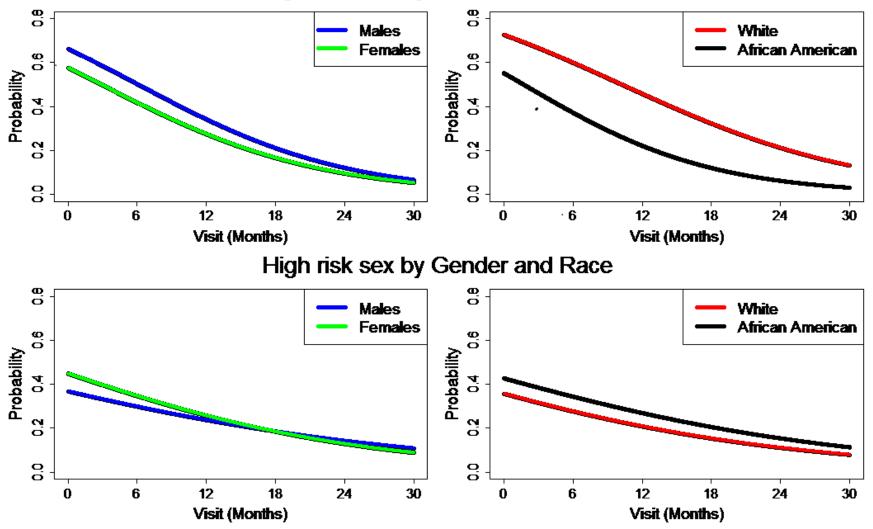
Results

Table 2: HIV Risk Behaviors by Gender and Race							
Risk Groups	Females	Males	P-Value				
	n = 202	n = 447					
High IDU Risk	127 (62.9%)	349 (78.1%)	<.001				
High Sex Risk	102 (50.5%)	179 (40%)	0.01				
	Whites	African Americans	P-Value				
	n = 318	n = 331					
High IDU Risk	263 (82.7%)	213 (64.4%)	<.001				
High Sex Risk	126 (39.6%)	155 (46.8%)	0.07				
	White-Females	African American Females	P-Value				
	n = 111	n = 91					
High IDU Risk	80 (72.1%)	47 (51.6%)	0.003				
High Sex Risk	50 (45%)	52 (57.1%)	0.09				

HPTN HIV Prevention Trials Network

Results

High risk IDU by Gender and Race





Conclusions and Future Research

Conclusions

- Female participants reported high rates of high risk sex behaviors.
- Findings support the dual focus of future HIV interventions on reducing HIV risk driven by sex behaviors and injection drug use behaviors.

Future Research

- Future HIV prevention research efforts should target the population at greatest risk for HIV via high risk sex behaviors, African American women.
- More specifically, future interventions could benefit from addressing gender power differentials through theoretically relevant frameworks utilizing the Theory of Gender and Power and the Sexual Script Theory.



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Protocol Co-chairs: David D. Celentano, ScD. Johns Hopkins University Johns Hopkins Bloomberg School of Public Health Baltimore, MD USA David Metzger, PhD University of Pennsylvania Center for Studies of Addiction Philadelphia, PA USA

SCHARP Statisticians: Dr. Brett Hanscom and Michael Holt