## Objective:

To examine the relationship between exposure to violence and HIV/HCV high risk-behaviors in a cohort of voung African-American IDUs. Of particular interest is now different types of violence exposure impact participants' high risk health behaviors.

### hods:

part of a National Institute on Drug Abuse (NIDA) - fund reduction intervention study, 221 young incarcerate can American IDUs were tested for HCV (Abb oratories) and interviewed using ACASI. Data collect uded *direct/vicarious violence exposure* within six mon<sup>.</sup> ore their most recent incarceration and *direct/vicario* ence exposure in the family in which they grew up. R aviors examined included direct/indirect sharing (syring kers, cotton and/or rinse water) practices, frequency cting and number of years injecting, high risk sex avior practices including condom use, prior history ually transmitted infections (STIs) and engagement in s drugs.

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ble 1 – Participant Exposure to Violence (N =	221)		
pe of Exposure/Crime	Sample	%	N
rticipant Witnessing Violence			
tnessed another threatened w/gun or knife		72.4%	160
tnessed another beaten up		76.0%	168
tnessed another beaten severely		70.1%	155
tnessed another killed		61.1%	135
tnessed another yelled at/threatened verbally		56%	124
tnessed another called names/humiliated		50%	111
rticipant Victimized			
rticipant threatened w/gun or knife		38%	84
rticipant beaten		17%	38
rticipant shot/stabbed/or otherwise wounded		18%	39
plence in Participants' Homes			
tnessed physical fighting among adult family mei	mbers	45%	98
ught Physically w/Parents		17%	37
ught Physically w/Siblings		46%	101

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mean age of the participants was 24.8 years, 97.7 3) were male, 68.8% (152) were HCV infected and 4.1 were co-infected with HBV. le 1 presents the participants' exposure to violence e types of experiences: 1) exposure to violence through nessing violence perpetrated on others; 2) exposure ence through *direct victimization of the participar* nselves; and 3) exposure to violence as a result

ne 6 months prior to latest arrest, 73% witnessed anoth attened with a gun/knife, 70% saw another beate erely, and 61% witnessed a murder, while 38% we atened with a gun/knife, 17% had been beaten, and 18

ence within the participants' own homes.

been shot, stabbed; or otherwise wounded.

e z – Non-Family violence Exposure and High-Kisk injecting behavior					
221)	%>3 on	Odds			
racteristics	rsk scale	Ratio	95% CI		
essed someone beaten up					
No	15.1				
Yes	38.1	3.46	1.534-7.812***		
essed someone beaten severe	ely				
No	21.2				
Yes	37.4	2.221	1.132-4.357*		
essed someone killed					
No	24.4				
Yes	37.8	1.879	1.029-3.433*		
essed someone threatened w	/ gun or knife				
No	23.0				
Yes	36.3	1.909	.969-3.761		
cipant threatened with gun or	knife				
No	27.7				
Yes	40.5	1.772	.998-3.146*		
cipant beaten					
No	30.6				
Yes	42.1	1.649	.806-3.377		
cipant shot/stabbed or wound	ded				
No	32.4				
Yes	33.3	1.042	.500-2.173		
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ble 2 presents the participants' Non-Family violence posure through witnessing violence perpetrated againers and through personal victimization in relationshipeir high risk injection practices through the use of a madditive scale of high risk direct and indirect inject havior (sharing syringes, cookers, cotton and/or righter, backloading).

Young IDUs who, in the 6 months prior to late

carceration, witnessed someone being beaten up (OR 3. %CI, 1.534-7.812), witnessed someone being beat verely (OR 2.221; 95%CI, 1.132-4.357), witnessed being killed (OR 1.879; 95%CI, 1.029-3.433), are threatened themselves (OR 1.772; 95%CI, .998-3.1 are more likely to report participating in more than 3 hards.

k direct or indirect injection practices.

# e 3 – Violence in Home and High-Risk Injecting Behaviors (N = 221) %>3 on Odds rsk scale Ratio 95% Cl

racteristics	isk scale	Ratio 95% CI		
nessed physical fighting among adult family members				
No	32.5			
Yes	32.7	1.006 .571-1.772		
sically fought with pa	arents			
No	33.2			
Yes	29.7	.853 .395-1.840		
sically fought with si	blings			
No	29.2			
Yes	36.6	1.404 .798-2.469		

ractoristics

ble 3 presents the participants' violence exposure, throusence in the home, in relationship to their high risk injectactices using the injection risk scale. Exposure to violed participants' homes through witnessing adults fighting the rticipants fighting the siblings was not significantly associated with high ecting behaviors.

ble 4 – Non-Family Violence Exposure (7 item non-Family Violence sca d High-Risk Sexual Behaviors = 221)

•	%>3 on	Odds	
aracteristics	violence scale	Ratio	95% CI
changed Sex for Drugs			
No	3.7		
Yes	23.0	7.75	1.785-33.644**
changed Drugs for Sex			
No	24.5		
Yes	34.1	1.590	.774-3.267
vays used condoms			
No	87.3		
Yes	92.4	1.770	.687-4.561
d Sex with HIV positive	partner		
No	5.6		
Yes	7.4	1.360	.359-5.146
d Sex with HVC positiv	e partner		
No	3.7		
Yes	1.5	.391	.054-2.849
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**Table 4** presents the participants' violence exposure in relationship to high risk sexual practices using a seven item non-family violence exposure scale (witnessing someone threatened with a gun or knife, witnessing someone beaten up, severely beaten, or killed, or the participant's having been personally threatened, beaten or shot/stabbed, or otherwise wounded).

Participants scoring three or more on the seven iter scale were more likely to report exchanging sex for drugs (OR 7.75; 95%CI, 1.785-33.644). Exposure to violence was not significantly associated with participants exchanging drugs for sex, failure to use condoms, or having sex with HIV or HCV positive partners.

lence Scale

### em Direct and Indirect Sharing Risk Behavior Scale

Shared Needle/Syringe 6 Months prior to Incarceration
Shared Cooker 6 Months prior to Incarceration
Shared Cotton 6 Months prior to Incarceration
Shared Rinse Water 6 Months prior to Incarceration
Backloaded 6 Months prior to Incarceration
Range (0—5) Mean = 3.258

Range (0-7) Mean -35249

#### em Non-Family Violence Scale

Witnessed someone threatened with gun/knife 6 Months prior to Incarcerat Witnessed someone beaten up 6 Months prior to Incarceration Witnessed someone beaten severely 6 Months prior to Incarceration Witnessed someone killed 6 Months prior to Incarceration Been threatened 6 Months prior to Incarceration Been beaten 6 Months prior to incarceration

Been shot/stabbed/otherwise wounded 6 Months prior to incarceration

le 5 presents the 5 item injection risk scale and ociation with the 7 item non-family violence exposure scale icipants with a score of 3 or more on the non-farence scale were more likely to have a score of more that he high risk injecting behavior scale (OR 2.292; 95% 60-4.570) than participants scoring less than 3 on the national ly violence scale.

### clusions:

study demonstrates that IDUs are differentially impac heir exposure to violence committed by others, and t of the primary effects of this violence is an increase in h health behaviors. An effective intervention for reduc -risk health behaviors, therefore, should not only inclu mation relative to direct and indirect sharing risks, but a ıld address the negative impact of exposure to violer mitted by others on the health risk behaviors of ulation.