

Sociodemographic, Health-Related Factors and Behavioral Practices Among People Who Inject Drugs: Data From The PR NHBS-PWID 3 (2012) and NHBS-PWID 4 (2015)

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BACKGROUND

•People who injected drugs (PWID) are at higher risk of acquiring various infections through blood such as Human Immunodeficiency Virus (HIV)¹

•PWID (who accounted for nearly 13 million worldwide), continue to impact the epidemic of HIV/AIDS, representing 1.7 million of persons living with HIV²

•In Puerto Rico, injection-related risk behaviors such as: sharing



Table 3. Risk Behavioral practices among PWID

Characteristics	NHBS-	NHBS-PWID 3		NHBS-PWID 4	
	No.	%	No.	%	
Male ^a					
No	166	58.25	90	32.03	<0.001*
Yes	119	41.75	191	67.97	<0.001
Female ^a					
No	35	58.33	15	24.59	<0.001*
Yes	25	41.67	46	75.41	~0.001

* *p*<0.05 statistically significant

^a Had vaginal or anal sex without a condom with an opposite sex partner



needles³ other drug equipment (such as rinse water, cookers and cotton)⁴ practice back loading injection⁵ and early initiation of this practice have been associated with HIV⁶

•Although new HIV diagnoses among PWID have decreased, disparities has still been reported in the island in which PWIDs continue to represent the group with the highest mortality⁷.

STUDY OBJECTIVE

Explain the differences among results obtained from two different cycles (2012 vs. 2015) regarding:

• Socio-demographic variables

• Drug use

• Sexual behaviors

METHODS

• Data for this cross-sectional study were part of the Puerto Rico National HIV Behavioral Surveillance (NHBS) study (2012 and 2015 PWID cycles)

Data Collection



Eligible individuals completed anonymous

standardized face-to-face interviews using

a handheld computer device with the

RESULTS

Table 1. Socio-demographic characteristics among PWID (n = 1,001)

Characteristics	NHBS-PWID 3		NHBS-PWID 4		p-value
	No.	%	No.	%	
Sociodemographic characteristics					
Sex					
Male	378	83.73	471	85.79	0.24
Female	74	16.37	78	14.21	0.34
Sexual orientation					
Heterosexual	371	82.08	456	83.21	
Homosexual or Bisexual	81	17.92	92	16.79	0.64
Age					
18-29 years	39	8.63	35	6.38	0.10
30-39 years	177	39.16	193	35.15	0.10
40 years or more	236	52.21	321	58.47	
Education					
High school or less	365	80.75	437	79.60	0.65
Some college or more	87	19.25	112	20.40	0.00

Employment status Employed full time/nart whose HIV status is unknown.

Table 4. Health- related characteristics among PWID

Characteristics	NHBS-PWID 3		NHBS	p-value	
Characteristics	No.	%	No.	%	
Health-related					
HIV status ^{**}					
Negative	380	85.01	485	88.34	012
Positive	67	14.99	64	11.66	0.12
Have seen a health care					
provider in the last year					
No	205	45.86	235	42.81	0 224
Yes	242	54.14	314	57.19	0.334
When last visited a health					
care provider					
Within the past 5 years	150	73.17	190	81.20	0.045*
More than 5 years ago	55	26.83	44	18.80	

*p<0.05 statistically significant

** Based on rapid test: Clearview COMPLETE HIV 1/2 and confirmatory

test: Dried Blood Spot

CONCLUSIONS

• Our study found that injectors had a median of 20 years since the

Employed full time/part	26	5 82	41	7 52		
me	20	5.02	11	1.52	0.29	
Unemployed	421	94.18	504	92.48		
Iealth Insurance						
Yes	235	52.11	327	59.56	0 010*	
No	216	47.89	222	40.44	0.018	
Iousehold income						
\$0-\$4,999	436	96.67	509	92.71		
\$5,000-\$14,999	7	1.55	28	5.10	0.007^{*}	
\$15,000 or more	8	1.77	12	2.19		

* p<0.05 statistically significant

Table 2. Changes in injection practices among PWID 3- 2012 vs PWID 4-2015

Chavaataristias	NHBS	-PWID 3	NHBS		
Characteristics	Mean	Std. Dev.	Mean	Std. Dev.	p-value
Injection practices					
Age at first injection	20.6	6.7	21.4	7.3	0.08
Years of injection	20.1	10.3	21.1	10.6	0.11
Number of people who the					
participant shared any	7.7	24.9	8.9	23.0	0.40
injection equipment					

NHBS-PWID 3

onset of this behavior, and it was observed the aging of the PWID population in the most recent cycle, as PWID are significant older.

• During 2012-2015, HIV diagnoses among PWID declined. • In relation to the frequency of sharing needles, a decrease in this behavior was recently observed, but a significant higher proportion of participants reported sharing a reused cooker, cotton or water.

•Regarding sexual practices among male PWID, it was observed an increase vaginal or anal sex without a condom with a woman with unknown HIV status, similar to women PWID

• These findings supports prior reports which indicates that the substantial progress in reducing HIV infections among PWID, could be challenged due to recent changes in drug use and sexual practices

• The strategies that continue reducing HIV, HCV and HBV infections and paraphernalia sharing among Puerto Rican PWID should be used to meet emerging challenges in changing PWID populations.

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WHO. Retrieved from

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NHBS-PWID 4

