



Introduction

- Despite advances in HCV testing and care, non-risk based HCV screening of baby boomers has not yet been fully explored.
- HIV surveillance data have been used to identify potential targeted areas for HIV screening and linkage to care.
- However, viral hepatitis surveillance data are often incomplete and lack critical information about the characteristics of HCV infection in the community.
- Given shared risk factors between HIV and HCV, we examined the feasibility and utility of using a novel method of identifying high HIV risk census tracts (CTs) using **HIV surveillance data** to target non-risk based community HCV testing.

Methods

- **Selecting targeted testing areas**
 - A statistical algorithm was developed using routinely reported DC Department of Health HIV surveillance data using the following indicators at the census tract-level: monitored HIV viral load, proportion of persons out of HIV care, and proportion of persons never in HIV care.
 - Among census tracts (CTs) with a HIV prevalence of $\geq 1\%$, we identified 12 census tracts that had the highest levels of these indicators for community-based HCV screening of baby boomers.
- **Recruitment and community-based HCV screening**
 - We partnered with a local community-based organization (Community Education Group) to conduct street-based community HCV screening equally across the 12 CTs between Aug-Sept 2014.
 - Eligibility included: 1) born between 1945-65 (“baby boomer”); and 2) not currently receiving care for HCV.
 - Individuals consented to HCV screening (OraQuick Rapid HCV Antibody Test, Bethlehem, PA), a blood draw (if positive) for HCV RNA testing, and a behavioral interviewer-administered survey.

Methods (cont’d)

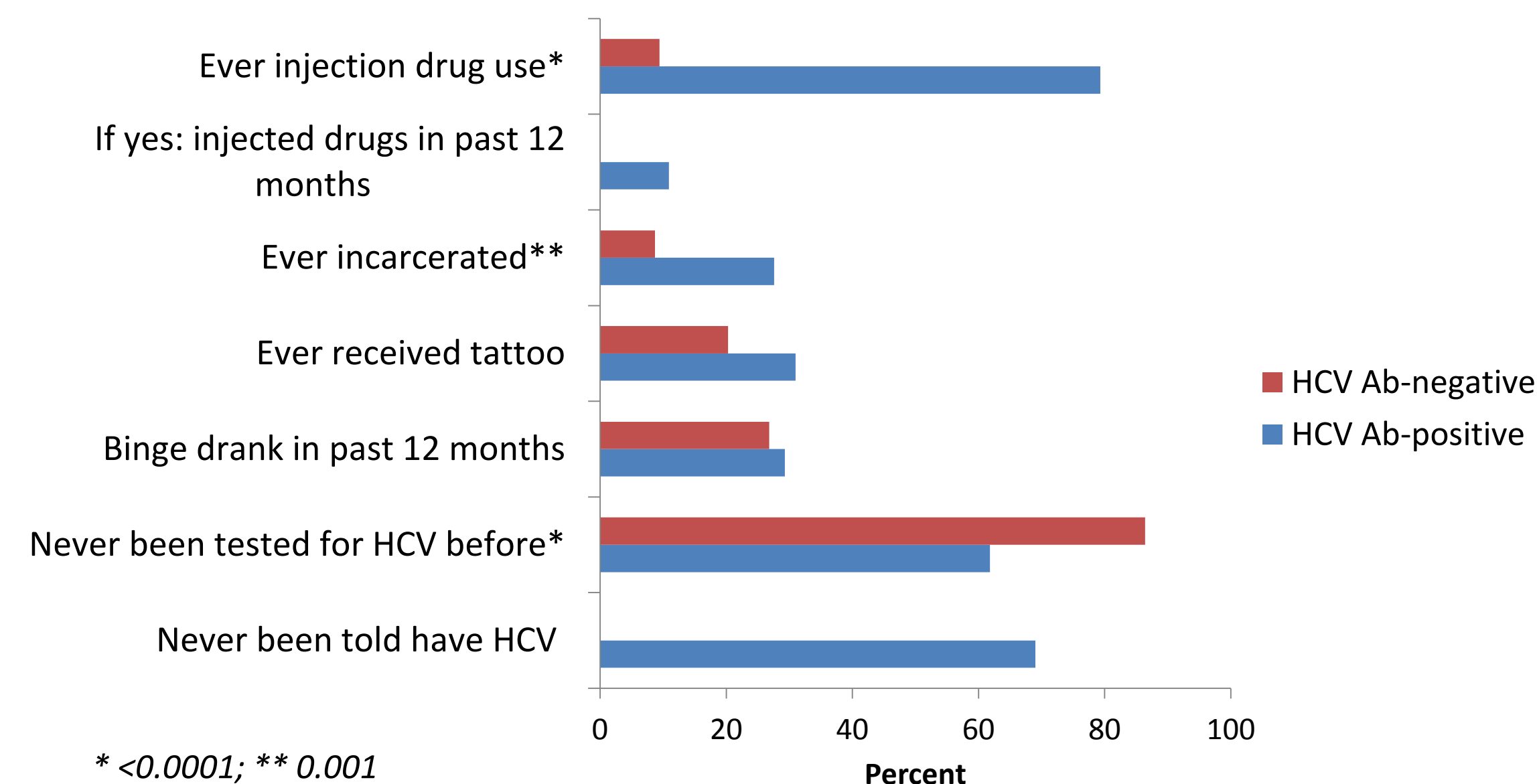
- **HCV seroprevalence and correlates**
 - HCV seroprevalence was calculated as the number HCV Ab-positive divided by the number of people screened.
 - HCV RNA testing is ongoing and seropositive participants will be followed prospectively for 3 months to assess linkage to HCV evaluation and care.
 - Demographic and behavioral characteristics were examined by serostatus to identify potential correlates of HCV exposure using chi-square, Fisher’s exact and t-tests.

Results

Table 1: Characteristics of baby boomer individuals (born 1945-1965) who were screened for HCV in high HIV risk census tracts in Washington, DC

Characteristic	Total N=196 (%)	HCV Ab-negative n=138 (%)	HCV Ab-positive n=58 (%)	P-value
Race – black	184 (93.9)	129 (93.5)	55 (94.8)	0.70
Mean age (\pm SD)	56 (\pm 4.9)	55.5 (\pm 4.8)	57.0 (\pm 4.9)	0.05
Male gender	145 (73.6)	101 (73.2)	44 (75.9)	0.07
Public insurance	143 (73.0)	98 (71.0)	45 (77.6)	0.62

Figure 1: Comparison of HCV Risk Characteristics and Testing History Between HCV Ab-Positive and HCV Ab-Negative Individuals



Results (cont’d)

- Of 196 persons screened, 58 (30%) were HCV Ab-positive.
 - Of those 58 persons, 62% had never been tested for HCV before and 69% were newly identified as being HCV seropositive, of whom 51% had never tested for HCV before (data not shown).
 - 31% already knew their HCV-positive status but were not receiving care.
- Initial non-adjusted correlates of being HCV Ab-positive included:
 - Older age, ever injecting drugs, having ever been incarcerated
 - Of note, only 5 of 46 individuals who ever injected drugs were currently injecting (within the past 12 months)
- Of 58 HCV Ab-positive individuals, confirmatory testing has been conducted on 31 (53%). Of those, 29 (94%) were confirmed HCV RNA-positive.

Conclusions

- Targeted, non-risk-based community HCV testing using HIV surveillance data was feasible and yielded a high HCV seroprevalence and large number of newly identified/out of care baby boomers.
- A high proportion had never been HCV tested, suggesting this testing paradigm may be effective in reaching individuals potentially at high risk for HCV in a community-based setting.
- Of those confirmed, nearly all were actively infected, underscoring the need for an effective referral mechanism to HCV evaluation and care

Acknowledgments

We would like to acknowledge the National Institutes of Health/National Institute on Allergy and Infectious Diseases District of Columbia Developmental Center for AIDS Research (DC D-FAR) P30AI087714. We also thank the staff at Community Education Group for their assistance and all study participants for their participation in the study.