

Mobile HCV Screening in At-Risk Urban Population Identifies Significant Fibrosis

Background

- Most people living with hepatitis C virus (HCV) remain undiagnosed, impacting HCV elimination efforts.
- People living with HCV experience many barriers to care.
- Community-based HCV services may mitigate disparities in the HCV care cascade.
- We designed a mobile unit to bring HCV screening and liver fibrosis staging to at-risk communities in San Francisco.

Methods

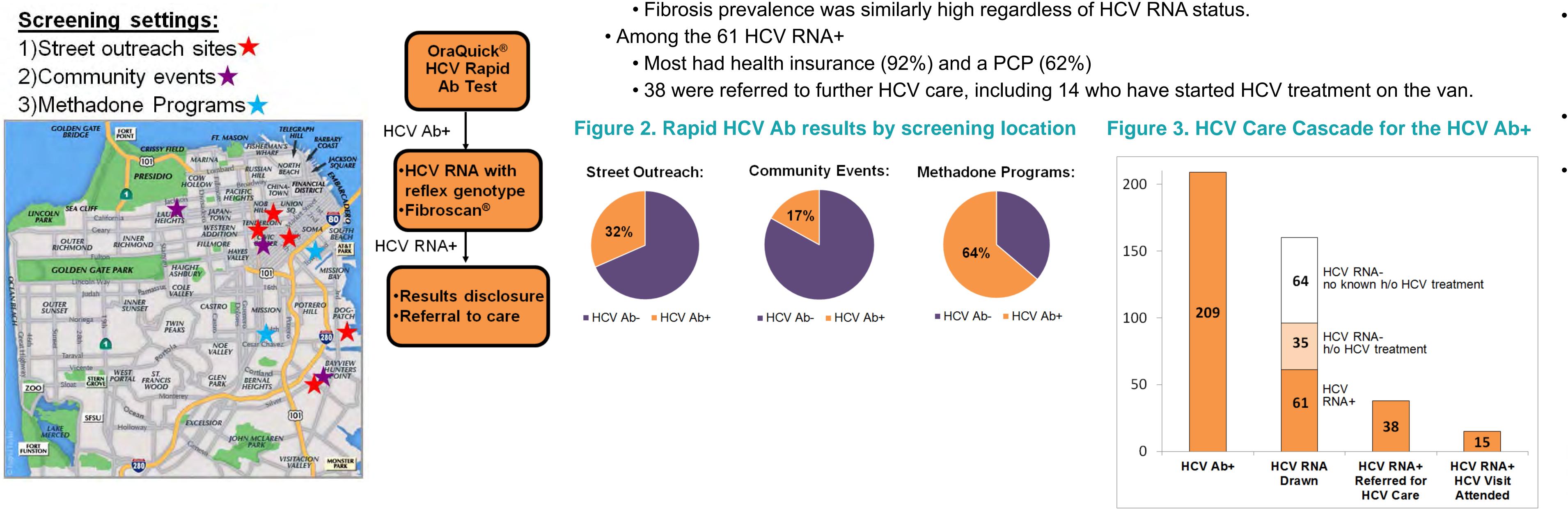
• A university shuttle bus was furnished with a phlebotomy station, Fibroscan[®]430 Mini+ and clinical exam table





- HCV antibody (Ab) screening, confirmatory HCV RNA testing, and liver stiffness measurements (LSM) were performed at several locations in San Francisco (Figure 1)
- Significant fibrosis and advanced fibrosis were defined as liver stiffness measurement of \geq 7.0 kPa and \geq 9.5 kPa, respectively.

Figure 1. Screening locations and procedures

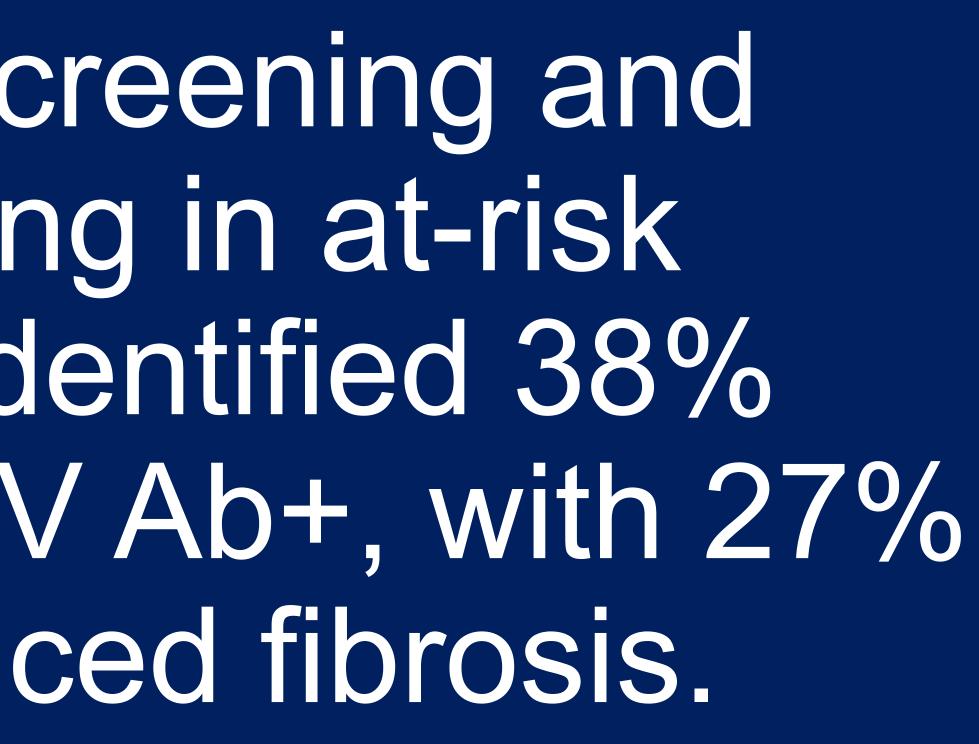


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Mobile HCV screening and fibrosis staging in at-risk communities identified 38% prevalence of HCV Ab+, with 27% having advanced fibrosis.

Results

- From 1/17/2019-2/4/2020, 557 clients completed HCV Ab screening on the van at:
 - Street outreach sites (n=377, 68%)
 - Community events (n=53, 10%)
 - Outside methadone programs (n=127, 23%)
- year, and 6% were living with HIV (Table)
- 209 were HCV Ab+ (38%), although HCV Ab+ prevalence varied by screening location (Figure 2)
- 70 of the HCV Ab+ underwent LSM, including 35 HCV RNA+
 - 36 (51%) had significant fibrosis (\geq F2)
 - 19 (27%) advanced fibrosis (\geq F3).



• Median age was 53 (IQR 42-61), 67% were male, 51% reported living outdoors or in a vehicle in the past

160 (77%) had HCV RNA testing performed (Figure 3) and 61 (38%) of those tested were HCV RNA+

Table. Population Characteristics

	HCV Ab- (N=348)	HCV Ab+ (N=209)	p-value
e, year (Median, IQR)	52 (39, 61)	54 (45, 61)	0.17
ale gender	67%	67%	0.44
xual Orientation	700/	0.4.9/	0.50
leterosexual	78%	81%	0.53
Bisexual, Gay, Lesbian, Queer			
Other	5%	3%	
ce African American	35%	27%	0.01
White	33%	47%	0.01
lispanic	15%	9%	
Dther	17%	16%	
	1,10	10/0	
sk factor for HCV transmission	210/	0.00/	-0.001
Ever injection drug use		88%	<0.001
Ever smoked crack or speed	66%	89%	<0.001
Current injection drug use	19%	57%	<0.001
Current non-injection drug use	49%	68%	<0.001
ncarcerated >24 hours	40%	76%	< 0.001
ASM	9%	9%	1.00
HV-positive	6%	7%	0.60
Born during 1945-1965	38%	45%	0.09
Receipt of blood products pre-1992	5%	4%	0.65
ot employed	79%	89%	0.003
alth insurance coverage			
Vedi-Cal	65%	82%	<0.001
Vedicare	13%	5%	
lone	11%	6%	
Private	4%	1%	
lealthy San Francisco	4%	1	
Other	4%	4%	
ousing status, most severe in past 12 months			
Rent or own	18%	19%	0.03
RO or hotel	12%	20%	
reatment or transitional housing	2%	1%	
Staying with a friend	4%	1%	
Shelter	13%	8%	
Outdoors or in a vehicle	51%	51%	

Conclusions

• HCV screening on a mobile van throughout San Francisco demonstrated a high prevalence of HCV Ab+ (38%) among high-risk groups, with one-fourth having advanced fibrosis.

 Despite the majority having insurance and a PCP, 38% of the HCV Ab+ had active HCV viremia.

 This underscores the need for heightened efforts to improve HCV treatment access to high-risk groups and has motivated a program offering HCV treatment on the mobile unit.

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