

Hepatitis C testing and treatment among people who inject drugs in Toronto, Canada

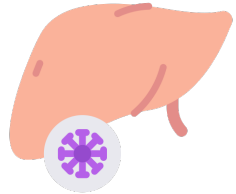
Zoë Greenwald^{1,2}, Elizabeth McLean², Zachary Bouck^{1,2}, Kate Mason³, Bernadette Lettner³, Jennifer Broad³, Tanner Nassau⁴, Ayden Scheim^{2,4}, Dan Werb^{2,5,6}

1. Division of Epidemiology, Dalla Lana School of Public Health, University of Toronto, Canada
2. Centre on Drug Policy Evaluation, Li Ka Shing Knowledge Institute, St. Michael's Hospital, Canada
3. South Riverdale Community Health Centre, Canada
4. Department of Epidemiology and Biostatistics, Dornsife School of Public Health, Drexel University, United States
5. Institute of Health Policy, Management and Evaluation, University of Toronto, Canada
6. Division of Infectious Diseases and Global Public Health, University of California San Diego School of Medicine, United States

INHSU 2021

ON DEMAND 5 Minute Oral Presentation

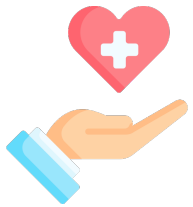
Background



66% of people who inject drugs in Canada infected by hepatitis C (HCV)

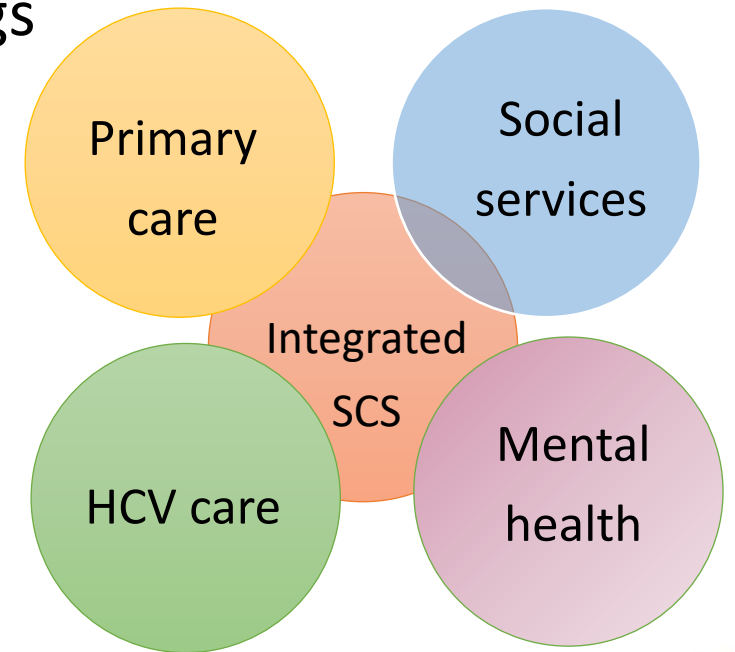


HCV treatment gaps among people who inject drugs



Integrated supervised consumption sites (SCS)

– but evidence on the effects of integrated SCS on HCV testing and treatment uptake remains scarce



Objectives

Among people who inject drugs in Toronto, Canada

- 1) To measure HCV care cascade engagement
- 2) To examine correlates of HCV testing and treatment uptake
- 3) To estimate the effect of integrated SCS on HCV testing and treatment outcomes

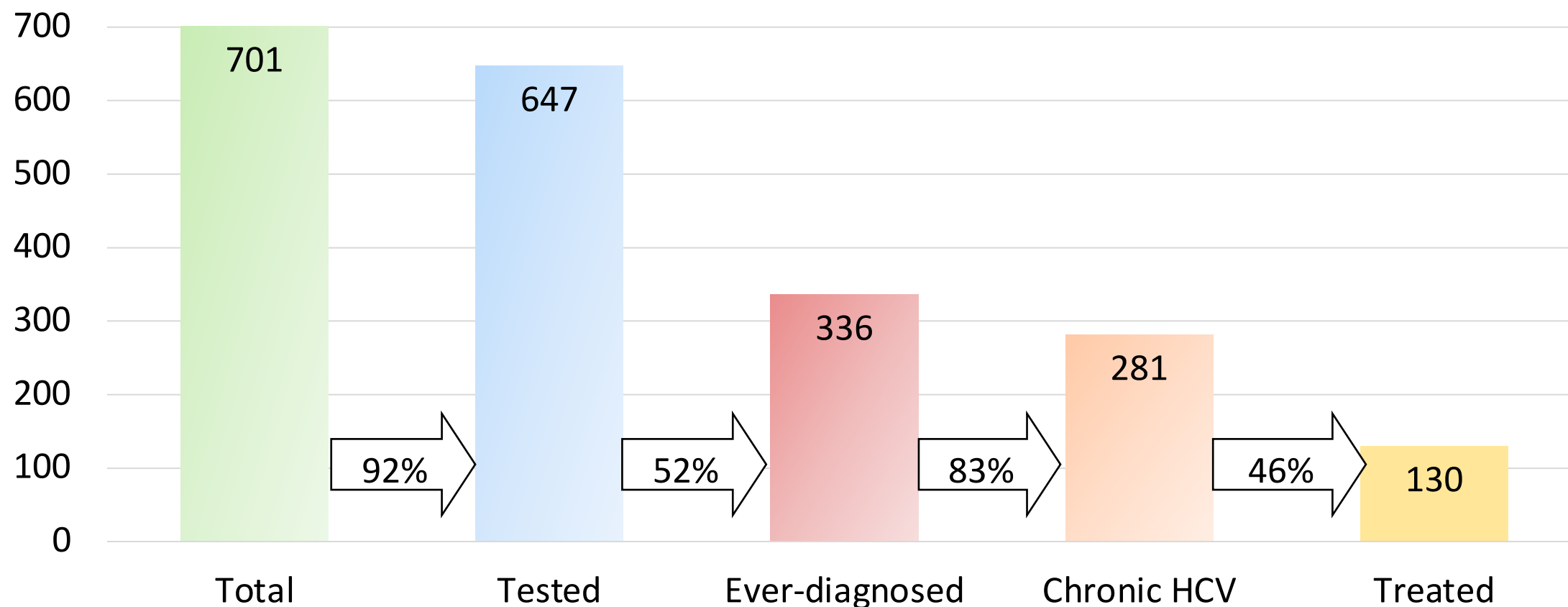
Population: OiSIS-Toronto cohort

- Ontario integrated Supervised Injection Services (**OiSIS**) Toronto cohort
- **Inclusion:** 18+ years, recent injection drug use and live in Toronto
- **Survey:** self-reported data on
 - Drug use characteristics
 - Supervised Consumption Site use
 - HCV care cascade engagement (testing, diagnosis, and treatment)

Methods

- Describe characteristics by HCV testing and treatment
- Identify correlates of HCV testing and treatment uptake
- Estimate the adjusted effect of integrated SCS

HCV Care Cascade among OiSIS participants



Self-reported measures; 54 individuals with presumed spontaneous clearance were excluded from the chronic HCV total

Correlates of HCV testing in the OiSIS-Toronto cohort

	Untested N (% row)	Ever tested for HCV N (% row)	Overall
Age, median (IQR)	35 (28-43)	40 (33-49)	40 (33-49)
Frequent injection drug use			
Frequent (Daily/near daily)	28 (9%)	275 (91%)	303
Less frequent (Weekly/monthly)	26 (7%)	372 (93%)	398
Sharing drug use equipment			
Any recent borrowing or loaning	13 (8%)	147 (92%)	160
None	41 (8%)	498 (92%)	539
SCS use			
Never attended an SCS	12 (14%)	74 (86%)	86
Ever attended an SCS	24 (7%)	323 (93%)	347
Ever attended an SCS with co-located HCV care	18 (7%)	250 (93%)	268
Total	54 (8%)	647 (92%)	701

Correlates of HCV treatment uptake in the OiSIS-Toronto cohort

	Untreated N (% row)	Current/past HCV treatment N (% row)	Overall
Age, median (IQR)	41 (34-51)	47 (39-54)	45 (36-52)
Frequent injection drug use			
Frequent (Daily/near daily)	132 (58%)	94 (42%)	226
Less frequent (Weekly/monthly)	19 (34%)	36 (66%)	55
Sharing drug use equipment			
Any recent borrowing or loaning	46 (71%)	19 (29%)	65
None	105 (49%)	111 (51%)	216
SCS use			
Never attended an SCS	14 (54%)	12 (46%)	26
Ever attended an SCS	83 (63%)	49 (37%)	132
Ever attended an SCS with co-located HCV care	54 (44%)	69 (56%)	123
Total	151 (54%)	130 (46%)	281

Effect of supervised consumption site use on the prevalence of HCV testing and treatment

	HCV testing aPR (95% CI)	HCV treatment uptake aPR (95% CI)
History of SCS use		
Never attended an SCS	Referent	Referent
Attended SCS without co-located HCV care	1.11 (1.01 - 1.22)	1.21 (0.74 - 1.99)
Attended SCS with co-located HCV care	1.12 (1.02- 1.24)	1.67 (1.04 - 2.69)

Models adjusted for age, gender, race, recent monthly income, recent unstable housing, recent incarceration, recent frequency of injection drug use, and HIV status.

aPR: adjusted prevalence ratio; CI: confidence interval; SCS: supervised consumption site

Conclusions & significance

- Over half of those with chronic HCV remain untreated
- HCV treatment gaps for younger individuals and those with frequent injection drug use and equipment sharing
- Success of integrated SCS with co-located HCV care

Acknowledgements

- We wish to thank our research participants for their invaluable contributions to the study.
- We acknowledge the land on which we conducted our research is the traditional territory of many nations including the Mississaugas of the Credit, the Anishnabeg, the Chippewa, the Haudenosaunee, and the Wendat Peoples, and home to many diverse First Nations, Inuit, and Métis Peoples.
- This research was funded by the Canadian Institutes of Health Research (PJT-153152) and the St. Michael's Hospital Foundation.
- Zoë Greenwald is supported by a Canadian Network on Hepatitis C Research Doctoral Fellowship award and a CIHR Canadian Graduate Scholarship Doctoral Award.
- Dan Werb is supported by a CIHR New Investigator Salary Award, an Ontario Ministry of Research Innovation and Science Early Research Award, and the St. Michael's Hospital Foundation.
- We thank the members of the OiSIS Research Program