# Strategic co-localization of HCV testing with COVID-19 vaccination to enhance engagement among priority populations

<u>Vanderhoff A<sup>1,2</sup></u>, Biondi M<sup>1,2</sup>, Logan R<sup>3</sup>, LeDrew E<sup>3</sup>, Enman S<sup>4</sup>, Van Uum R<sup>1,2</sup>, You L<sup>1,2</sup>, Smookler D<sup>1,2</sup>, Wolfson-Stofko B<sup>1,2</sup>, Domm B<sup>5</sup>, Johnston K<sup>5</sup>, Shah H, Janssen HLA<sup>1,2</sup>, Capraru C<sup>1,2</sup>, Venier E<sup>4</sup>, Feld JJ<sup>1,2</sup>

<sup>1</sup>Toronto Centre for Liver Disease, University Health Network, Toronto, ON; <sup>2</sup>Viral Hepatitis Care Network (VIRCAN), Toronto, ON; <sup>3</sup>Centre for Addiction and Mental Health, Toronto, ON; <sup>4</sup>Addiction Medical Services, Toronto, ON; <sup>5</sup>Ontario Addiction Treatment Centre, North Bay, ON







# Land acknowledgement

We would like to acknowledge the traditional custodians of the land where we live and work including the Mississaugas of the Credit, the Anishnabeg, the Chippewa, the Haudenosaunee and the Wendat peoples and this land is now home to many diverse First Nations, Inuit and Métis peoples and express our gratitude to the community and Elders past and present.







## **Disclosure of interest**

Personal disclosures - none

#### Grants

- AbbVie
- Gilead









# Viral Hepatitis Care Network (VIRCAN)

![](_page_4_Picture_1.jpeg)

![](_page_4_Picture_2.jpeg)

![](_page_4_Picture_3.jpeg)

![](_page_4_Picture_4.jpeg)

# **COVID-19 interrupted HCV testing**

![](_page_5_Figure_1.jpeg)

- Significant reduction in testing volumes (▼~33%)
- Volumes <u>do not</u> return to pre-pandemic levels by the end of August 2020

Mandel et al. (2020) poster presented at Canadian Liver Meeting and the International Liver Conference

![](_page_5_Picture_5.jpeg)

![](_page_5_Picture_6.jpeg)

![](_page_5_Picture_7.jpeg)

# Pandemic → syndemic

- 50%+ 
   overdoses
- Dislocation from services
- Toxic drug supply

![](_page_6_Picture_4.jpeg)

Human wall around encampment to protest displacement

![](_page_6_Picture_6.jpeg)

![](_page_6_Picture_7.jpeg)

![](_page_6_Picture_8.jpeg)

#### Aims

 Evaluate the feasibility of hepatitis C testing combined with COVID-19 vaccination

![](_page_7_Picture_2.jpeg)

Toronto, Ontario

![](_page_7_Picture_4.jpeg)

household members

North Bay, Ontario

![](_page_7_Picture_7.jpeg)

![](_page_7_Picture_8.jpeg)

![](_page_7_Picture_9.jpeg)

#### **Testing flow at vaccine clinics**

![](_page_8_Figure_1.jpeg)

![](_page_8_Picture_2.jpeg)

![](_page_8_Picture_3.jpeg)

![](_page_8_Picture_4.jpeg)

# **HCV Ab POC testing workflow**

![](_page_9_Picture_1.jpeg)

Results in **5 minutes** (VIRCAN 5-Minute Rule)

Results in 1-2 weeks

Smookler et al. (2020) Clin Gastro Hep

![](_page_9_Picture_5.jpeg)

![](_page_9_Picture_6.jpeg)

![](_page_9_Picture_7.jpeg)

#### **Demographics**

	Hospital	OAT	(
Vaccine Doses	11923	150	
Approached	4618 (39%)	150 (100%)	
HCV Ab POCT	2317 (50%)	<del>27 (</del> 18%)	
Avg. Age (yrs)	42	37	
Male (%)	46.2	66.6	

- **79%** members of the public
- 12% staff
- 9% outpatients

**89%** had no knowledge of receiving a prior HCV test

![](_page_10_Picture_7.jpeg)

![](_page_10_Picture_8.jpeg)

### **OAT clinic: Diagnosis and linkage to care**

![](_page_11_Figure_1.jpeg)

![](_page_11_Picture_2.jpeg)

![](_page_11_Picture_4.jpeg)

#### **Recruitment at CAMH vaccine clinic**

![](_page_12_Figure_1.jpeg)

TORONTO CENTRE FOR LIVER DISEASE

#### **CAMH: Diagnosis and linkage to care**

![](_page_13_Figure_1.jpeg)

![](_page_13_Picture_2.jpeg)

![](_page_13_Picture_3.jpeg)

![](_page_13_Picture_4.jpeg)

### **CAMH: Antibody prevalence among groups**

Gender	Tested n (%)	A	<b>b+</b> n (%)
Men	1073 (46.3)		20 (1.9)
Women	1220 (52.7)		11 (0.8)
Trans/Intersex/ Genderfluid	24 (1.0)		0 (0.0)

Age years	Tested n (%)	<b>Ab+</b> <i>n (%)</i>
< 35	959 (41.4)	9 (0.9)
35-45	448 (19.3)	6 (1.3)
46-76	859 (37.1)	16 (1.8)
77+	51 (2.2)	0 (0.0)

Group	Tested n (%)	<b>Ab+</b> <i>n</i> (%)
Public & Staff	1696 (73.2)	17 (1.0)
Patient	192 (8.3)	5 (2.6)
Unknown	429 (18.5)	9 (18.4)

![](_page_14_Picture_4.jpeg)

![](_page_14_Picture_5.jpeg)

![](_page_14_Picture_6.jpeg)

- Outpatient recruitment was lower than expected
- Linkage to care still a challenge
- Safety in context of COVID
- Mixed response to incorporating it in other vaccine clinics

![](_page_15_Picture_5.jpeg)

![](_page_15_Picture_6.jpeg)

![](_page_15_Picture_7.jpeg)

#### Conclusions

- Leverages resources put into the fight against COVID to address other public health challenges
- May allow us to overcome some of the dropoff of testing and linkage to care that has occurred due to the pandemic
- Can be done with a small footprint
- Enables reaching and re-engaging populations with a tenuous link to the healthcare system
- POCT with the 5-Minute Rule followed by DBS sample collection allows high throughput and ensures complete diagnosis

![](_page_16_Picture_6.jpeg)

![](_page_16_Picture_7.jpeg)

![](_page_16_Picture_8.jpeg)