

Canada's source for HIV and hepatitis C information

La source canadienne de renseignements sur le VIH et l'hépatite C

# Reaching The Undiagnosed

HIV and HCV Point-of-Care Testing in Canada: Technologies and Community Programs





- Geneviève Boily-Larouche, NCCID
- Lesley Gallagher, Hepatitis C Nurse Clinician Vancouver Coastal Health
- Christine Hughes, Professor, Faculty of Pharmacy & Pharmaceutical Sciences, University of Alberta
- Jason Kielly, Assistant Professor, School of Pharmacy, Memorial University of Newfoundland
- Wangari Tharao, Women's Health in Women's Hands



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Toll-free access number: 1-866-500-7712

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The webinar will commence shortly.

All participants will be muted until the question period.

### Webinar Series 2017-2018

# Reaching the Undiagnosed

Innovative approaches for HIV, HCV and other Sexually Transmitted Infection (STIs) Testing

Presented by: Geneviève Boily-Larouche







# HIV, HVC and STIs: why is this a global issue?

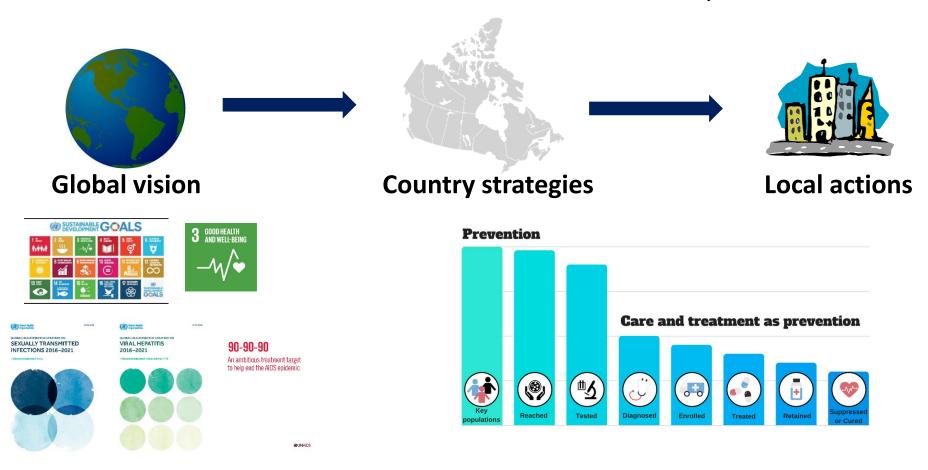
- 357.4 million new STIs (CT, NG, Syphilis, TV) in 2012.
  - Pelvic inflammatory diseases, ectopic pregnancy, infertility, chronic pelvic pain, seronegative arthropathy, neurological and cardiovascular diseases, neonatal death.
- 71 million with chronic hepatitis C infection in 2015
  - 1.7 millions new infections
  - 2.3 million HIV/HCV co-infected
  - 704,000 deaths attributed to HCV in 2013
- 1.8 million new HIV in 2016
  - 36.7 million people living with HIV in 2016.
  - 53% accessing antiretroviral therapy in 2016.
  - 1 million died from AIDS-related illnesses in 2016.
- Adverse health consequences on individuals and substantial strain on health systems and budgets – important to intervene at early stages

# HIV, HCV and STIs: why is this a national issue?

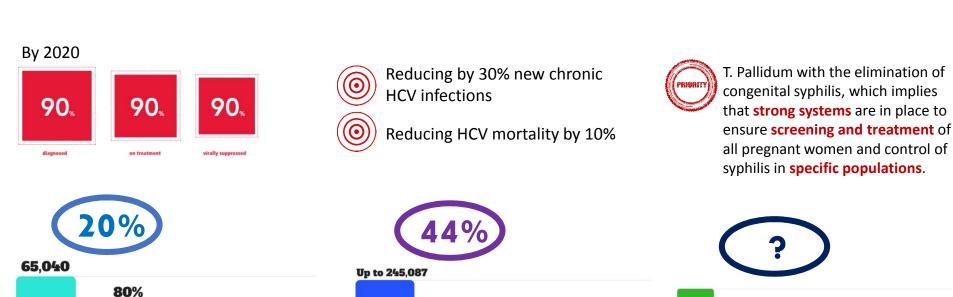
- 118,280 new STIs (87% CT, NG, Syphilis) in 2012
  - On the rise (2005-2014) ↑ **49%** CT; ↑ **61%** NG, ↑ **95%** infectious syphilis
  - 25 to 50% co-infection with HIV
- Up to 245,987 with chronic hepatitis C infection in 2011
- 2,570 new HIV infections in 2014
  - 65,040 Canadians were living with HIV in 2014.
- Important inequality in health and economic burden, for women, for First Nations and Inuit, for the chronically poor

Public Health Agency of Canada, CATIE, CCDR January 2017

# HIV, HCV and STIs: Towards elimination by 2030



# Global Targets: How are we doing in Canada?



66%

HCV

**M** 

**Syphilis and other STIs** 

Public Health Agency of Canada

HIV

1st 90

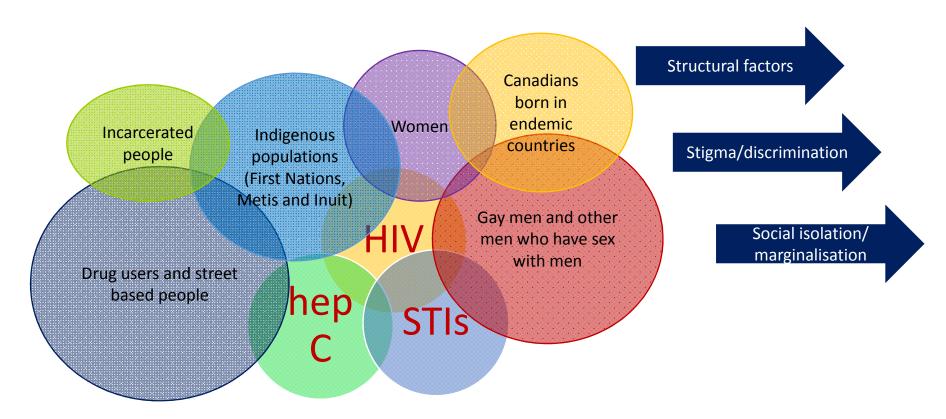
76%

2<sup>nd</sup> 90

89%

3rd 90

# Reaching to Key Populations



# No one-size-fits-all model for testing



Reaching the right people, at the right time, at the right place, with the most effective programs



POCT with lay testers integrated in community program



DBS in remote communities



POCT Duo Test in Gay men's Clinic



Self-testing at home

Policy decisions matter more than individual behaviours....



## About this series....

- To explore new ways to reach the undiagnosed.
  - Focus on what has been done in Canada, and could be scaled-up for the benefits of all Canadians.
  - Create a space to understand and discuss barriers and opportunities for the scale-up of these new approaches, recognizing specificities and difference in contexts that exist in this country.
- Webinar #1
  - POCT in non-traditional settings
  - Examples of how and where they are or could be used in programs in Canada











# HCV POINT-OF-CARE TESTING IN COMMUNITY CLINICS (POCT)

LESLEY GALLAGHER - HEPATITIS C NURSE CLINICIAN VANCOUVER COASTAL HEALTH SASKATCHEWAN INFECTIOUS DISEASE CARE NETWORK

NOVEMBER 20, 2017

# POCT

- SCREEN
- EDUCATE
- CONFIRM
- ENGAGE
- Pathway
- ADVOCATE

# Up to 3 out of 4 People with Hepatitis C Don't Know They're Infected<sup>12</sup>



### Test it. Find it. Fight it. Today!

~ 5.2 million people in the U.S. have been EXPOSED to or are INFECTED with HCV.<sup>1,2</sup>

Both the CDC and AASLD have issued new screening guidelines in an effort to identify these HCV positive people before it's too late.<sup>3</sup>

#### OraQuick® HCV Rapid Antibody Test -

The only FDA-approved, point-of-care test for hepatitis C (HCV) antibodies that meets the new guidelines.

- · Accurate. Reliable results with >98% accuracy.
- · Simple. 3-easy steps; CLIA-waived.
- Fast. Test and result delivery in 20 minutes for immediate linkage to care.





# >98% EFFICACY

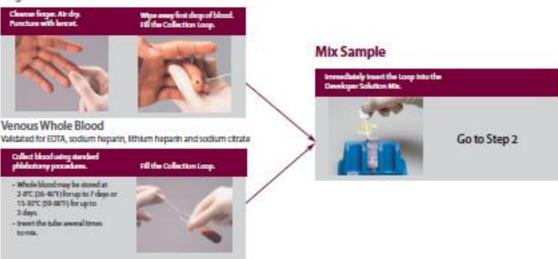


# **Quick Reference Guide**

OraQuick® HCV Rapid Antibody Test

### Step 1. Collect Sample

Fingerstick Whole Blood



### Step 2. Perform the Test



# ORAL OR FINGER STICK POCT









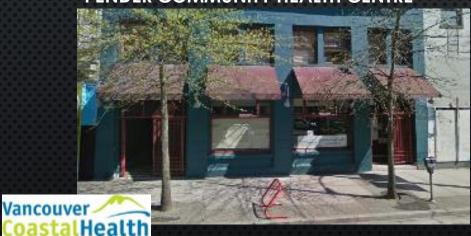
# **Simple Fingerstick Testing Procedure**

STEP 1 Collect sample	
STEP 1B Mix sample in buffer	
STEP 2 Insert the device into the buffer	
STEP 3 read between 20 and 40 minutes	20 MINUTES HO MINUTES
NON-REACTIVE Line in the C Zone	F
REACTIVE Line in the C and T Zones	F

# ACCESS



### PENDER COMMUNITY HEALTH CENTRE



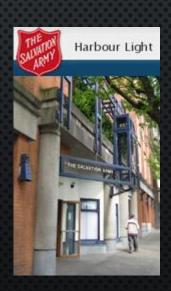














# HIV Point of Care Testing in Community Pharmacies: the APPROACH study

Webinar 1: HIV and HCV Point-of-Care in Community Settings November 20, 2017

Jason Kielly, BScPharm, PharmD
Assistant Professor, School of Pharmacy, Memorial University of Newfoundland
Co-Principle Investigator

Christine Hughes, BScPharm, PharmD, FCSHP
Professor, Faculty of Pharmacy & Pharmaceutical Sciences, University of Alberta
Co-Investigator (Lead for Alberta)





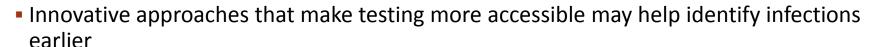


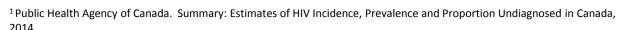
## Outline

- Rationale for Study
- Point-of-care-HIV testing
- Study Purpose and Objectives
- Overview of Study Design
- Methodology and Data Collection
- Linkage to Care Examples
- Results and next steps

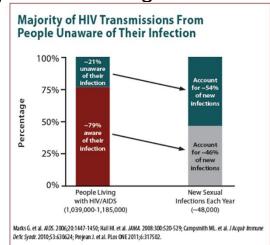
### Rationale

- Rates of new HIV infections in Canada have decreased slightly but are still significant<sup>1</sup>
- About 1 in 5 people do not know they are infected with HIV¹
- Barriers to testing:<sup>2,3</sup>
  - Concerns about privacy
  - Low perceived risk
  - Delays for appointment times
  - Waiting for tests
  - Lack of testing outside of business hours
  - Inability/reluctance to access traditional clinic settings





<sup>&</sup>lt;sup>2</sup>Spielberg F, et al. J Acquir Immune Defic Syndr 2003;32:318-27.





<sup>&</sup>lt;sup>3</sup>Thornton AC, et al. HIV Med 2012;13:416-26.

# Why Community Pharmacies?

 Offering HIV POCT through community pharmacies may improve access to testing and provide linkages to care

HIV POCT is ideal for community pharmacies

Pharmacists work closely with other healthcare professionals in the community

Evidence



May be the only healthcare provider in rural areas

Scope of pharmacy practice has expanded

Pharmacists offer client focused services in private consultation rooms



# Point-of-care HIV testing (POCT)

- Only Health Canada approved test: INSTI® HIV-1/HIV-2 antibody test
  - Results available in 1 minute (must be read within 5 minutes)
  - Uses fingerstick blood sample very easy to use
  - Equivalent to 3<sup>rd</sup> generation standard tests used by PHL (>99% sensitivity & specificity)
- Considered an HIV "screening test"
  - \*A reactive test result requires a standard test to confirm HIV diagnosis\*
  - False positive results are uncommon, but are more likely in a setting with a low prevalence of HIV (ie. low risk people/areas)
  - A negative result can be considered a true negative, unless the person is in the window period of infectivity



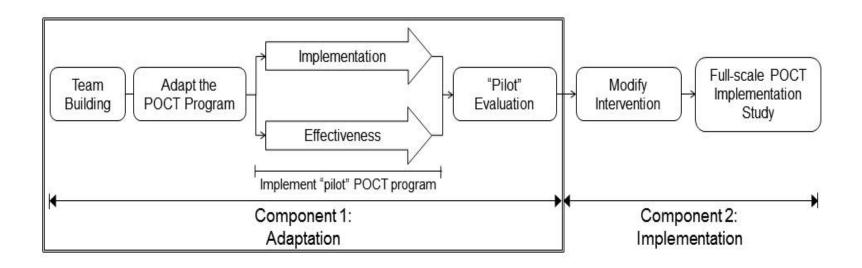
# Limited Availability of HIV POCT

- Not available in Newfoundland
- Currently available in Alberta at emergency departments of select hospitals (rural and urban settings)
- Rapid testing available twice weekly at a community site (Men having Sex with Men outreach office) in Edmonton

# APPROACH study: Objectives

- To develop and implement an effective community-pharmacy based HIV POCT program.
- To gauge the acceptability, feasibility, and effectiveness of the program in reaching target populations.
- To assess the implementation and effectiveness of the pharmacy model of HIV POCT in urban and rural communities within Newfoundland and Alberta.

# **APPROACH Study Design**



### Newfoundland sites:

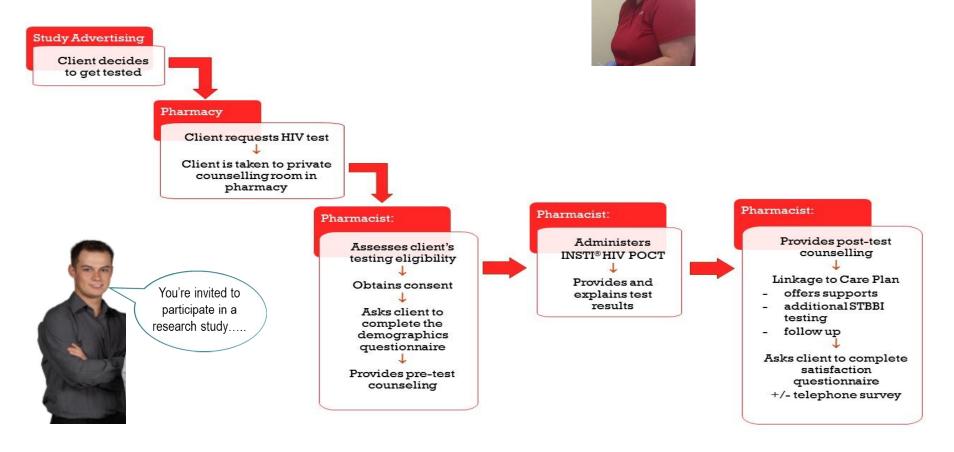
Shoppers Drug Mart, Lemarchant Road, St. John's Shoppers Drug Mart, West Street, Corner brook McMurray

### Alberta sites:

Mint Health & Drugs (CMP), Edmonton Shoppers Drug Mart, Franklin Avenue, Fort



# **Testing Process**



My Convenient & private counselling room is right this way

# <u>Example of Linkage To Care Plan – Alberta</u> (Reactive or Indeterminate Results)

Pharmacist provides client with requisition for confirmatory HIV test



Notifies Medical Director (STI), Public Health nurse, and Provincial Lab virologist on call





PNN notifies client of confirmatory HIV test results and arranges referral to Northern Alberta Program

# <u>Example of Linkage To Care Plan – NL</u> (Reactive or Indeterminate Results)

Pharmacist provides client with requisition for confirmatory HIV test



Notifies Provincial HIV Program Nurse Practitioner





NP arranges appointment to provide patient with confirmatory results and arranges follow-up care and appointments.

# Linkage to other services

- Participants counselled to receive testing for other STIs and referred to additional support services
  - cards developed for each site/region with input from stakeholders
  - contact information for STI testing and other support services

### Testing and Support Services

#### Further testing for STIs available at:

- Your family doctor's office
- Fort McMurray Community Health Services (113 Thickwood Boulevard): 780-791-6182

#### Support services available at:

- Mental Health Help Line (24/7): 1-877-303-2642
- STI/HIV Information Line (24/7 STI and Health Advice): 811

### Further testing for STIs available at:

#### St. John's

- · Your family doctor's office
- Eastern Health Sexual Health Clinic: 752-4882
- Planned Parenthood Newfoundland and Labrador Sexual Health Centre: 579-1009

#### Corner Brook

- · Your family doctor's office
- Western Memorial Regional Hospital
   Fast Track Clinic
- Ellisa Sinnicks-House, Nurse Practitioner: 388-0487

#### Support services available at:

#### St. John's & Corner Brook

- NL Mental Health Crisis Line: 1-888-737-4668
- AIDS Committee of NL provincial counselling line for HIV/HCV: 1-800-563-1575
- Kimberley Burt, Provincial HIV Nurse Practitioner: 1-709-777-5556



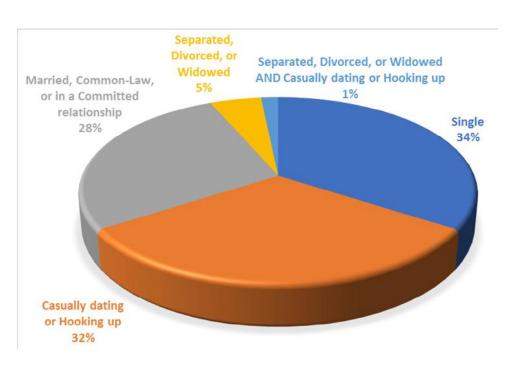




# Demographic & Behavioural Information

### pre-testing questionnaire responses

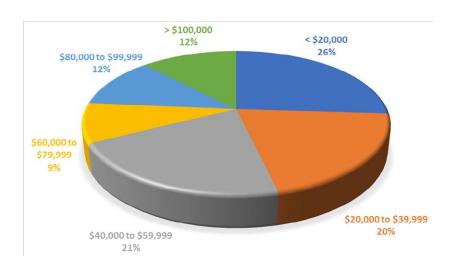
- 123 tests completed
- 93 Males; 28 Females; 2 Other
- Age range: 18-97 years old (M = 34.8)
- Majority Caucasian (79.7%)
- Most clients casually dating/single

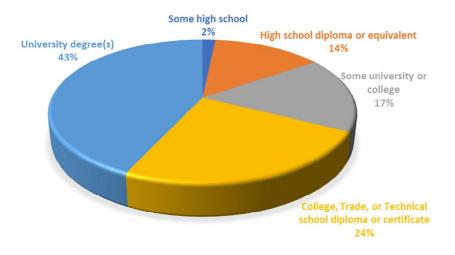




# Demographic information

- Majority of clients are well-educated, employed full-time, and earning good income
- Most clients have private insurance (59.5%) for prescriptions
- 86 (71%) of clients have been previously tested for HIV







# Demographic information

- The large majority of male & female clients having sex with males report having engaged in condomless sex
  - 86% of MSM clients and 90% of SFSM\*
  - Rates of other high-risk activities are low
- 17 female clients and 70 male clients (75%) have Denver HIV Risk Scores ≥ 30 (moderate risk or higher)

### Denver HIV Risk Score



\*Straight Females who have sex with men

## **Testing Experience**

### post-testing questionnaire responses

High praise for our pharmacists!!!

7. Do you think that HIV testing should be offered through pharmacies?

□ Yes □ No 121 (99.2%) 1 (0.8%)

Please tell us what you <u>liked</u> about your HIV testing experience at the pharmacy today.

Atmosphere. Confidence in the technician. Competent, friendly pharmacist, fast results. confidential Counselling on STI's other than & in addition to HIV. Results in minutes. easy breezy Everything. Susan is very personable and knowledgable. Very private and fast. 10/10 experience. Excellent counselling services provided. Felt very respected. Free & Quick Friendly service. Quick. Easy. Painless. Friendly, quick, private Great pharmacist. Michael was the man! I liked that it was quick and easy, with no appointment needed Immediate results & quick. Private room. Knowledgeable staff. Confidentiality. Immediate results, reduced anxiety.

Quick, easy, less stress. Definitly will be recomending to friends. Quick, private, hassle free, pharmacist was comforting and easy to talk to. Quick. Free. Confidential. Accurate. Rapid results and great counselling. Simple & Fast Speed and immediacy That it is comfortable. Pharmacist very reassuring. Very easy to have HIV done, very convenient & reassures society. That it was quick and free. The pharmacist was very helpful.:) The ability to know straight away The pharmacist was very nice. It was quick & simple. The pharmacist was very professional. The extra help/assistance that is available for dealing with test results, no appointment necessary was good for me individually. The rapid testing procedure & ease of getting an appointment to do it. Very fast, private area. Pharmacists were very caring and thorough. Very quick. Accurate. Very well done and delivered Was very good and came to know lot of new things.



# **Client Comments**

"Quick, easy, less stress. Definitely will be recommending to friends."

"I have been putting off getting this <code>[HIV]</code> test for a long time because the idea of a specialized clinic made me nervous, and I also didn't want to do it at a regular blood collection clinic because I wanted to talk about my fears. This was perfect. Thank you!"

"I think that you guys have done a bang-up job just getting this on the go here. I think it's long overdue and I'm so happy to see it."

> "Excellent counselling services provided. The pretalk was positive in nature and delivery. I felt very respected."

## Next Steps...

- Complete data collection pharmacist and manager feedback
- Data analysis
- Knowledge Translation

... APPROACH 2.0

## Acknowledgements





#### Research Team Members:

- Dr. Debbie Kelly (Co-Principal Investigator)
- Dr. David Allison
- Dr. Shabnam Asghari
- Keith Bailey
- Kim Burt
- Dr. Jacqueline Gahagan
- Dr. Stephanie Hancock
- Hyungu Kang
- Philip Lundrigan
- Dr. Carlo Marra
- Dr. Sam Ratnam
- Peggy Spies
- Gerard Yetman



## ACB Women Know Your Status HIV Prevention Project

Wangari Tharao
Director of Research and Programs
Women's Health in Women's Hands CHC

NCCID-CATIE-REACH Testing Webinar Series: Reaching the Undiagnosed Date: November 20th, 2017

### Introduction (1):

- According to the 2016 Canadian census, African, Caribbean and Black (ACB) people made up 2.9% of the Canadian population 1.2 million people (Statistics Canada, 2017)
- It is estimated that approximately 13.9% of people living with HIV in Canada are from HIV-endemic countries primarily ACB with an incidence rate 6.3 times higher than the general Canadian population (PHAC, 2014).
- □ In Ontario, 54% of new diagnoses among all women between 2014-2015 were among ACB women (OHTN, 2016)
- While the number of HIV tests in Ontario in 2011 increased by 33.6% among MSM and 7.0% for low-risk heterosexuals, there was a decrease of 25.3% for IDU, 25.4% for high-risk heterosexuals and 11.3% for the HIV-endemic category that includes ACB persons (Remis, 2013)

## Introduction (2):

- A host of factors are implicated in the reduced/lower rates of HIV testing in ACB communities in Canada including:
  - low risk perception
  - limited knowledge and awareness of community based interventions/programs
  - lower understanding of one's risk of acquiring and transmitting HIV

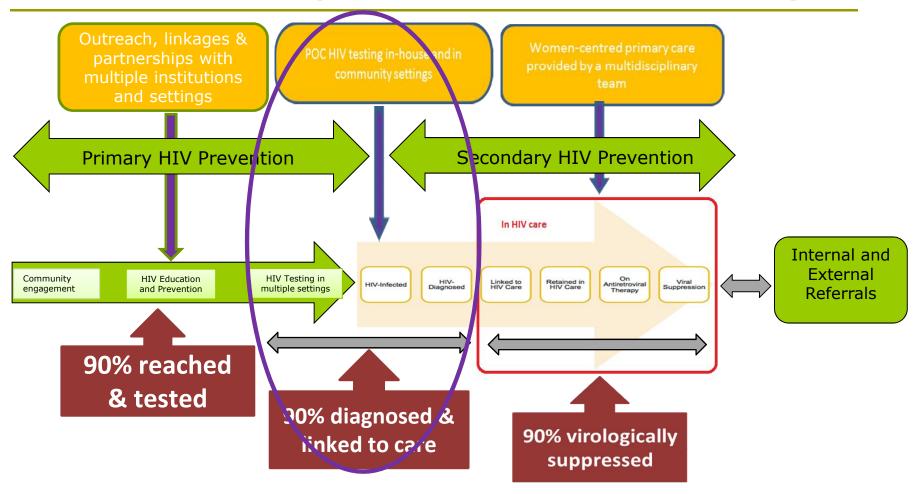
(Husbands et al., 2013; Baidoboonso, 2013)

 Experiences of intersectional stigma and discrimination based HIV status, race, gender and other dimensions of stigma act as barriers to access

(Braun and Clark, 2006; Daly et al., 1997; Peter et al., 2008; Logie et al., 2011)

Aim of the ACB Women Know Your status project is meant to alleviate some of these issues and optimize HIV testing

#### Location of HIV Testing within Framework of WHIWH HIV Program



## Project Objectives:

- To increase uptake of HIV testing among African, Caribbean, and Black (ACB) women in Toronto through development of a community-based situated HIV testing intervention/program
- To increase capacity of community-based organizations working with ACB people to support/offer HIV testing within their locales.

## Intervention development Process:

- Explored existing literature to identify evidence-based interventions, programs, and strategies that:
  - locate HIV testing in community-based settings
  - Efficacious/promising in increasing uptake of HIV testing primarily for ACB women.
- Consulted with:
  - ACB women who have tested and those who have never been tested for HIV
  - community leaders
  - service providers where women access testing services
  - ACB women living with HIV.
- Adapted identified intervention to fit testing needs of ACB women
- Currently piloting intervention

## Piloted Intervention Strategies

#### Strategy #1: "The Girlfriends Project" (Hawk, 2012)

- Recruit women to host home party and invite their social network
- Provide informal 2-hour educational session + Pre-test Counseling + Offer Testing + POC Testing + Post-test Counseling

## Strategy #2: "The Girlfriends Project" with Community Partnerships

- Work with community organizations and faith groups that serve the ACB population to host gathering for ACB women.
- Provide formal educational sessions with pre-existing women's groups + Pre-test Counseling + Offer Testing + POC Testing + Posttest Counseling

#### Strategy #3: Outreach Events

 Provide Pre-test Counseling + POC Testing + Post-test Counseling at community/cultural events (i.e. Pride, Afrofest, etc.)

## Testing Venues:

- Data collection started in June 2017
- We offered Point-of-Care (POC) HIV testing in events such as:
  - PRIDE's Dyke March & Blockorama
  - AfroFest
  - Rastafest
  - BrAIDS for AIDS Braid-a-thon
  - Scarborough Afro-Carib Fest
- We have facilitated HIV prevention workshops and onsite POC testing for:
  - Black Physicians of Tomorrow (UOIT Student Organization)
  - Toronto Community Housing Corporation (TCHC)
  - Girlfriend Home Session (Home Party)

## Preliminary Results (1):

- □ 157 participated in pilot so far:
  - 26% had never been tested before
  - Over 98% got tested
  - 96% of those who tested strongly agreed and agreed that they would get tested again
  - 94% of those who tested strongly agreed and agreed that they were satisfied with their experience
  - 96% of those who tested strongly agreed and agreed that they felt that their confidentiality was protected

#### Qualitative Feedback:

- "There was great participation from everyone, it was engaging and they got the crowd involved. I like the fact that we got to participate! I learned that HIV is not a death sentence, people with the virus are having children and living healthy lives."
- "It was fun! Fun! I learned a lot and was happy to get tested after. I learned so much!"
- "It was humorous, the facilitators were very knowledgeable. I learned that people who have AIDS could go back to having HIV. I was happy to get tested, I felt relieved after."
- "Overall it was very interactive, very engaging and there was great participation. I was also extremely happy that out of the eleven people that attended, nine decided to 'Know there Status!' I am looking forward to doing another workshop with you again and would strongly recommend other communities to participate in the 'ACB Women Know Your Status HIV Prevention Project' as well."

## Challenges:

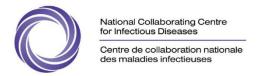
- More requests from community organizations than we can meet (strategy #2):
  - We have turned down 7-8 requests due to lack of testers
- Long testing line-ups at outreach events (strategy #3:
  - Potential participants getting frustrated and leaving
- Space in private residences (strategy #1):
  - Limited space to have two testers at the same time
  - Potential issue if test is reactive how to keep others knowing due to emotional reaction, shock, etc.
- Not enough testers:
  - Testers linked to time limited projects leaving
  - Clinical staff usually not free when needed.

#### Conclusion:

- Pilot is showing feasibility for optimizing HIV testing amongst ACB women if challenges can be resolved
- □ Piloting will continue until March 2018
- We've brought a national team together to develop a national HIV testing intervention using pilot as the basis:
  - Submitted to CIHR intervention call in the summer
  - Exploring other sources of funding









## **Questions?**

# Please evaluate this webinar. Thank you!