### **STBBIs in MB**

Testing Recommendations
Specimen collection
POCT and Self-tests for HIV

Dr. Laurie Ireland MD CCFP



Nine Circles and The Manitoba HIV Program operates on the original lands of the Anishinaabe, Cree, Oji-Cree, Assiniboine, Dakota, and Dene peoples, and the homeland of the Métis Nation.



### Presenter Disclosure:

#### **Faculty:**

Dr. Laurie Ireland

#### **Relationships with financial sponsors:**

No Conflicts to Disclose



### Learning Objectives

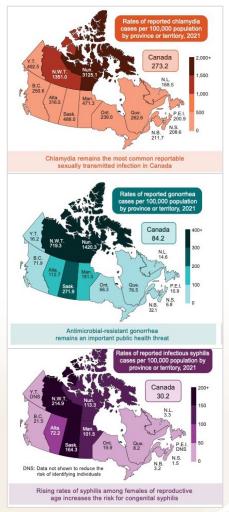
#### By the end of this presentation participants will:

- Be familiar with the rates of STBBIs in MB
- Be aware of STBBI testing recommendations
- Feel comfortable offering routine STBBI testing in their practice, including throat and rectal swabs for gonorrhea and chlamydia
- Be familiar with HIV testing modalities available in Manitoba and referral pathways for care



# Chlamydia, Gonorrhea and Syphilis in Canada; 2021 Surveillance update

- National incidence rate Chlamydia: 273.2/100,000
- Manitoba's incidence rate: 471.3/100,000
- National incidence rate
   Gonorrhea: 84.2/100,000
- Manitoba's incidence : 181.0/100,000
- National incidence rate Syphilis: 30.2/100,000
- Manitoba's incidence rate : 101.5/100,000





with securiors: Public Health Agency of Claradas, Notifiable Diseases Online, 2022 (Online) Rhybull/diseases connels calculationable . Survey on the inspect of COVIO-19 on the delivery of STBBI prevention, beliefing and healthers, including harm reduction services. In Clarada Ottawa, ON: Public Health Agency of Canada, 2002. Public 21021 (Infectious applita) includes the primary, secondary and early identifices the minery of the contraction applita includes the primary, secondary and early identifications than one year effect reflection; stages of Infection. For more information with Disput views consider calculation-individual-in

# Hepatitis in Canada: 2021 Surveillance update

#### Acute Hepatitis B

National incidence rate: 0.3/100,000

Manitoba's incidence rate: 0.57/100,000

#### Hepatitis B, chronic and unspecified

National incidence rate: 8.9/100,000

Manitoba's incidence rate: 15/100,000

#### Hepatitis C, acute, chronic and unspecified

National incidence rate: 19.7/100,000

Manitoba's incidence rate: 42.3/100,000

Data source: Public Health Agency of Canada, Notifiable Diseases Online, 2022 [Online] https://diseases.canada.ca/notifiable. i. Survey on the impact of COVID-19 on the delivery of STBBI prevention, testing and treatment, including harm reduction services, in Canada. Ottawa, ON: Public Health Agency of Canada; 2022. Pub.: 210294 ii. Indections synilis includes the primary, secondary and early islant (less than one year after infection; stages of infection. For more information with https://www.canada.ca/en/public-health/services/surveillance/sexusity-transmitted-blood-borne-infections.html

OH Managesty the King in Right of Canada, as represented by the Minister of Health, 2023. Call: HPAD-284/DCIF-EPDF [SBN: 780-066-0603-5.] Public 240-060-0603-5.] Public Publi



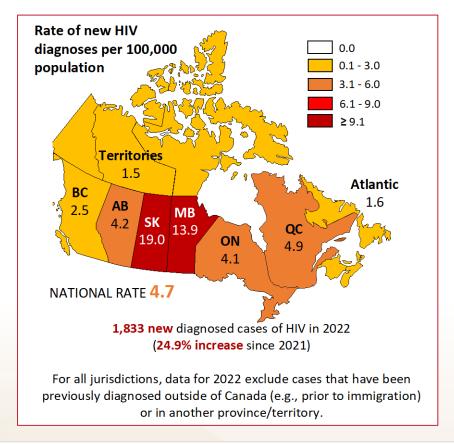
Agence de la santé publique du Canada





#### HIV in Canada: 2022 Surveillance update

- National incidence rate HIV: 4.7/100,000
- Manitoba's incidence rate: 13.9/100000



Data source: Public Health Agency of Canada, Notifiable Diseases Online, 2022 [Online] https://diseases.canada.cahorifiable.i. Survey on the impact of COVID-19 on the delivery of STBBI prevention, testing and treatment, including harm reduction services, in Canada. Ottawa, ON: Public Health Agency of Canada; 2022. Pub.: 210294
i. Infectious sphilis includes the primary, secondary and early lident (less than one year after infection) stages of infection. For more information valid https://www.canada.cs/en/public-health/services/surveillance/sexually-transmitted-blood-borne-infections.html

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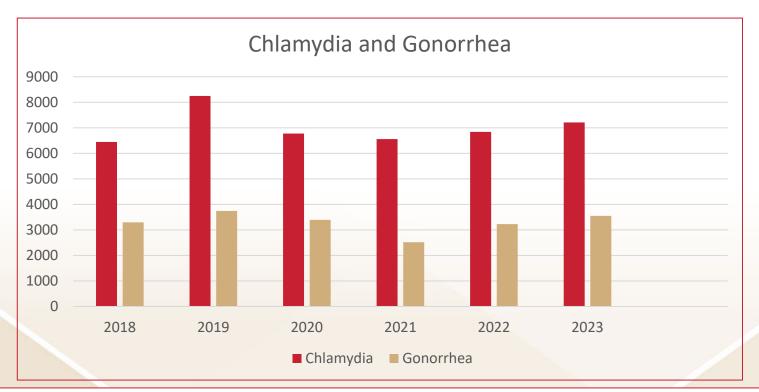


## STBBIs in MB 2023

#### Disclaimer:

## Chlamydia/Gonorrhea

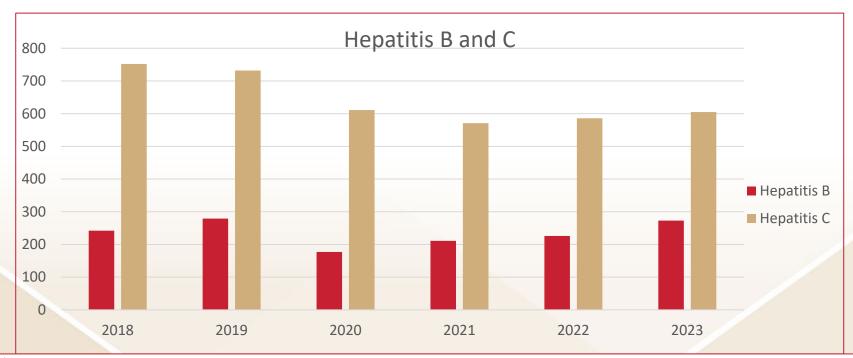
- >7200 Chlamydia cases in 2023
- >3500 Gonorrhea cases in 2023



#### Disclaimer:

## Hepatitis B/C

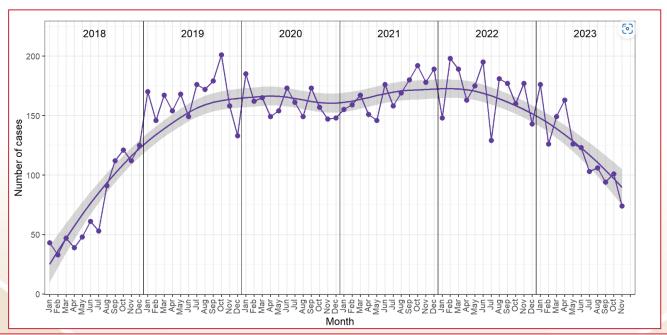
- Approx 270 Hepatitis B cases in 2023
- Approx 600 Hepatitis C cases in 2023



#### Disclaimer:

## **Syphilis**

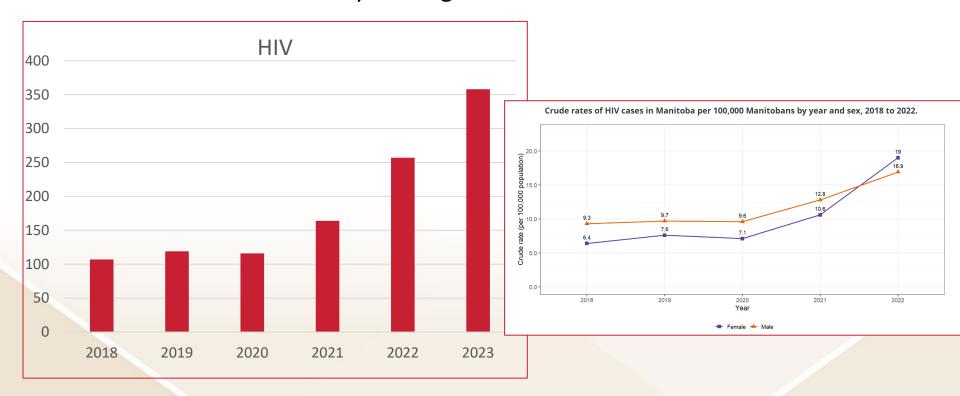
- >1300 new syphilis cases in 2023. Lower than last 5 years (approx. 1900 cases/year) \*note syphilis investigations can take weeks to months to finalize. End of year case count may increase.
- Preliminary congenital syphilis count in the WRHA is also lower in 2023 (data not finalized)
- May be some room for cautious optimism. However case counts remain far above pre-2018 levels



#### Disclaimer:

### HIV

 >350 new HIV cases in MB in 2023. Approx 50% increase from 2022, and 150% increase from the 5yr average



#### Disclaimer:

#### HIV in Manitoba



Between 2018 (N=111) and 2021 (N=169) there was a 52% increase in the total number of HIV cases



The rate of HIV is increasing in the Winnipeg Regional Health Authority, Northern Health Region, Interlake-Eastern Health Region and Southern Health – Santé Sud Region

#### For all people who entered the Manitoba HIV Program between 2018 and 2021:



Around 50% were female



Nearly 50% of females and 25% of males experienced houselessness



Around 65% of females and 35% of males self-reported injection drug use



Heterosexual sex and injection drug use were the most common modes of self-reported HIV acquisition



6 in 10 self-identified as heterosexual and 2 in 10 self-identified as gay, bisexual or men who have sex with men (qbMSM)



Around 70% of people who reported drug use, reported using methamphetamine



8 in 10 people had at least one STBBI prior to diagnosis with HIV



Around 80% of people had at least one other comorbid condition at entry into care



7 in 10 self-identified as Indigenous



### HIV in Manitoba

#### HIV Projections in MB: Status quo, 2024-2028

YEAR	Maximum number of people referred to the MBHIVP
2024	486
2025	593
2026	724
2027	884
2028	1,080

Zulma Rueda, Roberto Hincapie, Diego Munoz, Lucelly Lopez, Yoav Keynan. Projections of the new HIV diagnoses based on historical data. September, 2023.



#### A Pan-Canadian STBBI framework for action

- Reducing the health impact of sexually transmitted and blood-borne infections in Canada by 2030
- Core Pillars
  - Prevention
  - Testing
  - Initiation of Care and Treatment
  - Ongoing Care and Support

https://www.canada.ca/en/public-health/services/infectious-diseases/sexual-health-sexually-transmitted-infections/reports-publications/sexually-transmitted-blood-borne-infections-action-framework.html



#### The Social Determinants of Health

- STBBI do not affect all people equally
- Rates of STBBI are both directly and indirectly influenced by the social determinants of health, including: education, income, employment, gender, culture, unstable housing or homelessness, access to health services, and social environments
- Individuals who have experienced systemic stigma, exclusion, marginalization, mental health issues and discrimination based on race, immigration status, sexual orientation, gender identity, drug use, or involvement in sex work may be more vulnerable to STBBI
- Canada's colonial history and continued health and social inequities experienced by Indigenous Peoples also contribute to STBBI vulnerability.
- The Pan-Canadian STBBI Framework for Action can only be successful and build resilience to prevent the transmission of STBBI if it considers and addresses these contextual factors

https://www.canada.ca/en/public-health/services/infectious-diseases/sexual-health-sexually-transmitted-infections/reports-publications/sexually-transmitted-blood-borne-infections-action-framework.html

### Routine STBBI Testing

- Normalizes and decreases stigma
- Provides opportunity review risks and preventative strategies:
  - Condom use
  - Access to safe drug-use supplies
  - Post exposure prophylaxis (PEP) to prevent blood borne infections
  - Pre-exposure prophylaxis (PrEP) to prevent HIV
  - Immunizations (HPV, Hep A, Hep B)
- Offer care and supportive services for mental health and substance use disorders that may contribute to risk
- Allows for earlier linkage to care and treatment
- Treatment prevents onward transmission

### **STBBI Testing Recommendations**

- Offer STBBI testing to all as part of routine care, regardless of risk
- If you test for one, test for all STBBIs
- In pregnancy, recommend STBBI screen at least three times:
  - First trimester, 28 to 32 weeks and at delivery
  - More frequent testing if ongoing risks/exposures
  - Monthly testing for syphilis if new infection/treatment
- Re-screen annually if sexually active
- Re-screen more frequently if high risk, q 3-6 months
  - gbMSM inclusive of transgender individuals
  - People who inject drugs or share drug use supplies
  - New or multiple partners
  - Recent STBBI



https://www.gov.mb.ca/health/publichealth/cdc/protocol/index.html
http://www.cpsm.mb.ca/news/addressing-the-stbbi-outbreak
https://mbhiv.ca/healthcare-providers/quidelines/

### Routine STBBI testing

Does not require an extensive review of risk factors or exam Suggested Approach:

"Did you know that MB has one of the highest rates of sexually transmitted infections in Canada?"

"Most STBBIs come with no symptoms"

"I recommend regular testing for everyone"

"Would you like testing today?"



### Review of Risk, Exposure and Symptoms

STBBI testing does not require an extensive review of risk factors or exam, can ask permission to explore further

Suggested Approach:

"I'd like to ask you a few more questions centered on sexual activity and drug use. This will help guide us on how often you may want to be tested, and guide any additional exam, swabs, or treatment you may benefit from, is that ok?"



### Review of Risk, Exposure and Symptoms

#### Risk:

"Are you sexually active with new or multiple partners in the last year or since you were last tested?"

"Do you use needles or share drug-use supplies?"

#### Exposures:

"Do you have sex with a partner with a penis, and if so, do you ever receive anal, or give oral sex?"

#### Contacts:

"Have you had sex with a partner with a known sexually transmitted infection?"

#### Symptoms:

"Do you have any genital, rectal or oral sores, pain or discharge?"



### STBBI Treatment at time of Testing

Offer treatment at the time of testing if

- Symptoms consistent with an STI
- High risk and unlikely to return for results
- Are a confirmed contact to an STI

MB Health Protocols provide information on treatment for STBBIs

https://www.gov.mb.ca/health/publichealth/cdc/protocol/index.html



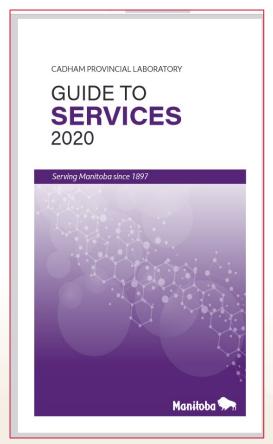
### Test for One, Test for All

#### A complete STBBI screen should include:

- Gonorrhea and Chlamydia testing
- Syphilis serology
- Hepatitis A and B serology if non-immune
- Hepatitis C serology if no previous testing, repeated if ongoing risks
- HIV testing
- Swab of any ulcerative lesions for HSV or Treponema
- Vaginal swab for Trichomoniasis



## Specimen Collection



https://healthproviders.sharedhealthmb.ca/files/guide-to-services.pdf



### Gonorrhea and Chlamydia Testing

- Genital Testing
  - Urine NAAT testing
  - Cervical NAAT testing
- Extra-genital testing if penile exposures
  - Throat
  - Rectal
- Sample the cervix, rectum or pharynx with the Aptima unisex swab specimen collection kit:







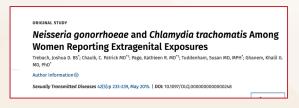
### Extra-genital site GC/CT testing

- High rates of rectal and pharyngeal in gbMSM, inclusive of transgender and gender diverse individuals, and should be routinely offered
- Throat and rectal swab may also be offered to cis-gendered women who
  report anal or oral penile or sex toy exposures as infections may be
  missed with urogenital testing alone
- Samples may be collected by a provider or self-collected based on individual preference, given appropriate collection instructions are provided

Research | Open access | Published: 15 November 2021

Rectal specimen self-collection for chlamydia and gonorrhea screening: a cross-sectional feasibility study at a community health center

Marwan S. Haddad , Lauren Bifulco, Jeannie McIntosh & Meghan Mc Clain Garcia



ORIGINAL STUDIES

Extragenital Gonorrhea and Chlamydia Among Men and Women According to Type of Sexual Exposure

Bamberger, David M. MD<sup>-1</sup>; Graham, Georgia MD<sup>-1</sup>; Dennis, Lesha BA<sup>1</sup>; Gerkovich, Mary M. PhD<sup>1</sup>

Author Information 

Sexually Transmitted Diseases 46(5):p. 329-334, May 2019. | DOI: 10.1097/OLQ.000000000000967



## Extra-genital site GC/CT testing

Provider collected specimens, Cadham Lab instructions:

- Extragenital testing may be appropriate for individuals who have engaged in oral sex, anal sex or have ophthalmia.
- Throat, rectal and eye samples for Chlamydia testing should be collected using the Aptima Unisex Swab Collection kit using the blue swwab
- To ensure adequate sampling, gently rotate the swab at the source for 10 to 15 seconds. Place the blue swab into the unisex transport tube.
- Carefully break the shaft of the swab at the scored line, and then recap the transport tube





## nine circles COMMUNITY HEALTH CENTRE

#### Self-collected Throat Swab Instructions

- 1. Wash your hands with soap and water.
- 2. Remove the transport tube and collection swab from

packaging.

- Check that the transport tube is labelled with your information and indicates "throat swab".
- Open the package containing the collection swab. The collection swab is <u>blue</u>.







- Hold the collection swab far enough from the tip.
- 6. Reach the collection swab into your mouth to the back of your throat.
- Rub the swab tip firmly and quickly from side to side (between area circled in image) 2-3 times.
- 8. Unscrew the cap from the transport tube.

Important! Do not pour out the liquid in the tube. Do not puncture the foil on the cap top.

- 9. Place the collection swab into the transport tube, snapping it at scored line.
- 10. Put the cap back on the transport tube and twist it closed to prevent leaks.
- 11. Put the transport tube into the transparent bag and place in the window in the washroom.
- 12. Wash your hands with soap and water.



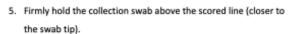


#### Self-collected Rectal Swab Instructions

- 1. Wash your hands with soap and water.
- Remove the transport tube and collection swab from packaging.
- Check that the transport tube is labelled with your information and indicates <u>"rectal swab".</u>
- Open the package containing the collection swab. The collection swab is blue.









- 7. Gently insert the swab 1 inch into the rectum and twirl the swab in a circle 2-3 times.
- 8. Unscrew the cap from the transport tube.

Important! Do not pour out the liquid in the tube. Do not puncture the foil on the cap top.



- Place the collection swab into the transport tube, snapping it at scored line.
- Put the cap back on the transport tube and twist it closed tightly to prevent leaks.
- Put the transport tube into the transparent bag and place in the window in the washroom.
- 12. Wash your hands with soap and water.



#### **Gonorrhea culture**

- To support provincial surveillance for resistance, consider a swab for GC culture
  - If symptomatic, or
  - If treatment failure
- Use the amies charcoal transport medium to collect specimen from the anus, throat, eye, vagina, or cervix
- For urethra use a rayon swab or a plastic loop in charcoal media
- Send to lab within 24 hours







#### **Ulcerative Lesions**

### Syphilis PCR

- Gently remove necrotic material or crusts from lesion with sterile gauze. May wet gauze with sterile preservative-free saline if desired
- Gently express clear exudates from lesion and touch swab to exudates to absorb it



#### **HSV Swab**

- Expose and clean base of lesion with sterile gauze and saline.
- Scrape epithelial cells from base vigorously with a sterile swab.
- If dry, moisten swab in sterile saline, swab lesion

- Use Dacron, Rayon or flocked nylon swab
- Place swab in vial containing sterile VTM



### **Trichomoniasis**

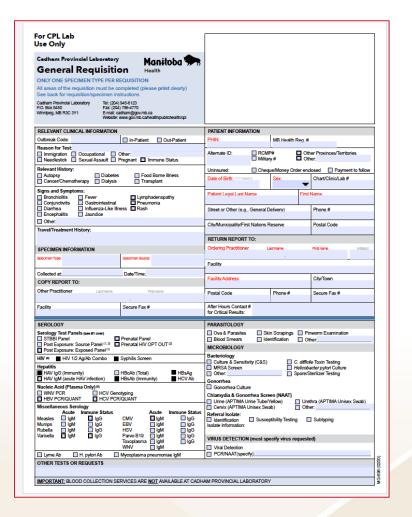
• Vaginal swabs for trichomoniasis (provider or self collected)

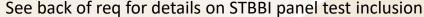




## STBBI serology

- HIV 1/2 Ag/Ab combo
- Syphilis screen
- Hepatitis B sAg and sAb if nonimmune
- Hepatitis A Ab testing if nonimmune
- Hepatitis C Ab
- Hepatitis C PCR if previously cleared infection and ongoing risk (provide information on req)







#### **HIV Testing**

- Standard HIV test (Cadham lab)
  - 4<sup>th</sup> generation P24 Ag HIV-1/2 Ab test
  - Window period 15 45 days months
- Point of care rapid HIV test
  - 3<sup>rd</sup> generation HIV Ab test
  - Window period 30 days 3 months
  - Requires confirmatory standard HIV test
- INSTI HIV self test
  - 3rd generation HIV Ab test
  - Window period 30 days 3 months
  - Requires confirmatory standard HIV test

## HIV TESTING GUIDELINES

Know the HIV status of all patients in your care.

Patient Characteristics	Recommendations
Under 12 years of age	Routine HIV testing is not recommended. HIV testing may be clinically indicated for:  Infants less than 18 months of age, consult Pediatric Infection Diseases  Children 18 months to 11 years of age if a risk for HIV acquisition is identified
12 to 70 years of age	Routine HIV test every 5 years. HIV testing should be offered more frequently if clinically indicated.*
12 to 70 years of age and additional risks for HIV acquisition are identified, including:  — Gay, bisexual and other men who have sex with men (gbMSM) — People who inject drugs (PWID) or share drug use equipment — People having unprotected sex with multiple partners	Routine HIV test every year. HIV testing should be offered more frequently if clinically indicated.*
12 to 70 years of age who belong to populations currently experiencing a higher burden of HIV infection, including:  - People from countries where HIV is endemic**  - Indigenous Peoples***	Offer HIV test every year if HIV status is unknown or additional risks for HIV acquisition are identified.  HIV testing should be offered more frequently if clinically indicated.*
Over 70 years of age and HIV status is not known	One HIV test if no previous testing

\*\*This includes Sub-Saharan Africa, the Caribbean, Central/South Central America and Asia. In 2018, 22% of new clients to care in Manitoba self-identified as African/Caribbean/Black (ACB). Eighteen percent of clients were from Southeast Asia and Latin America, and 6% were from East and Southeast Asia.

\*\*\*In 2018, over 50% of new clients to care self-identified as Indigenous (First Nations, Inuit and Metis). The higher burden of HIV in Indigenous Peoples is related to historic and ongoing colonial impacts and structural racism. Providers should increase their understanding of the historic and current context of HIV in Indigenous Peoples, and increase their knowledge of culturally safe care in order to safely inquire about STBBI risk factors and offer HIV testing.

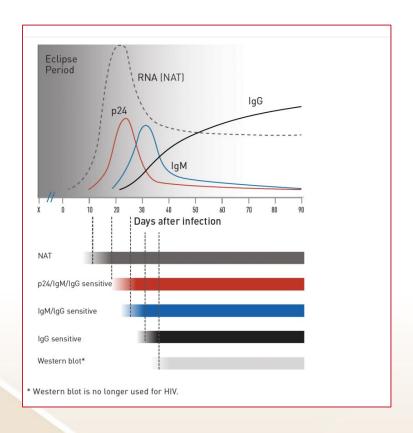
#### \*An HIV test should also be offered to all patients when:

- The patient is new to your care and their HIV status is
- Testing for or diagnosing a sexually transmitted blood born infection (STBBI) including gonorrhea, chlamydia, syphilis, hepatitis B or hepatitis C.
- Testing for or diagnosing tuberculosis.
- Diagnostic blood work is ordered for a new or worsening medical condition that may be indicative of HIV.<sup>9</sup>
- The patient presents with symptoms of acute HIV infection (for example, fever, sore throat, rash, fatigue, muscle aches and headache).
- A risk for HIV acquisition is identified.
- The patient is a survivor of sexual assault
- The patient is pregnant. Offer HIV testing at the first prenatal visit, in the third trimester, and at delivery if HIV status is unknown.
- The patient requests an HIV test.

 $Obtaining\ informed\ consent\ for\ HIV\ testing\ is\ the\ same\ as\ it\ is\ for\ any\ other\ diagnostic\ test\ or\ treatment\ in\ Manitoba.$ 



#### **POCT HIV**





- An 3<sup>rd</sup> generation antibody screen which requires confirmatory testing
- Window period for reactive test 30 day to 3 months
- Provider performs test



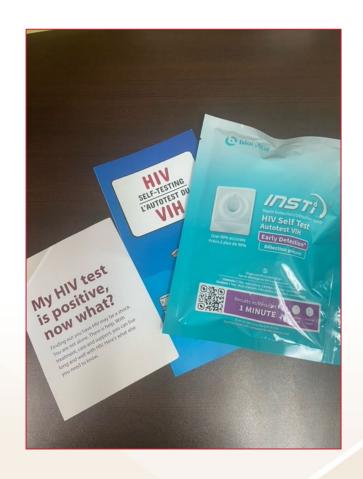
### **HIV Point of Care Testing (POCT)**

- HIV Point of Care Testing
  - Nine Circles Community Health Centre
  - Healthy Sexuality Harm Reduction
  - Main Street Project
  - Our Own Health Centre
  - Women's Hospital HSC
  - Thompson General Hospital L&D
  - St. Boniface General Hospital L&D
  - For HIV POCT inquiries, contact 204-945-1306

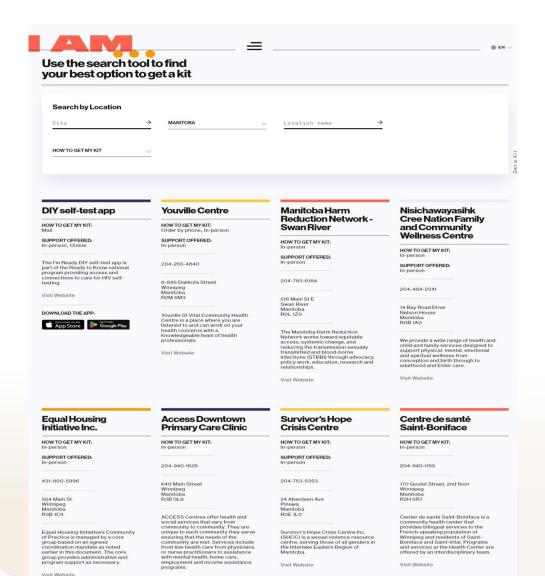


#### **HIV Self Tests**

- Get a Free HIV Self Test | I AM website
  - www.i-am.health
  - Offers options to increase accessibility, in person or delivery
  - Can search by location within Manitoba
  - > 50 locations in MB to pick up in person
  - Requires confirmation serology for diagnosis







Visit Website



## Reactive POCT

#### For people who have a reactive result using a point of care HIV test (POCT):

- Inform individual of the need for confirmatory HIV test using a 4th generation Ag/Ab test
- A confirmatory HIV test can be done by the individuals primary care provider

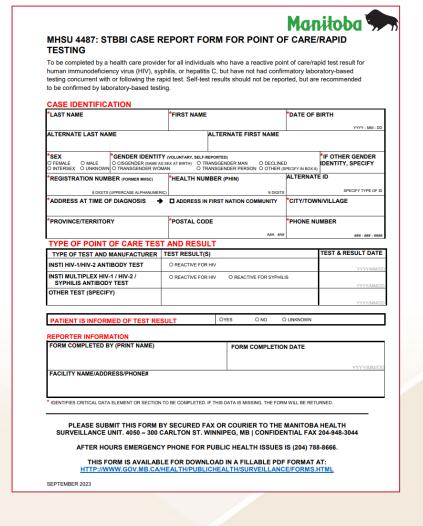
- If individual does not have a primary care provider or would prefer to obtain the test from an alternate provider, support the individual to self-refer to the MBHIVP by calling 1-866-449-0165
- Provide client education



## Reactive POCT

- If unable to draw confirmatory serology, complete the Public Health Form
- MHSU 4487: STBBI Case Report Form For POCT/Rapid Testing
- Provides Public Health ability to support efforts to connecting client to confirmatory testing and care

www.gov.mb.ca/health/publichealth/ surveillance/docs/mhsu 4487.pdf





### Positive HIV Serology

- Inform of diagnosis as soon as possible after positive test
- Reassure
- Counsel on prevention transmission and review for any partners at risk
- Refer to the MBHIVP





https://mbhiv.ca/wp-content/uploads/2023/07/46636-NC-HIV-positive-now-what-web.pdf

#### **HIV Care Referral**

- MBHIVP Three sites for care for adults:
  - Nine Circles Community
     Health Centre (Winnipeg)
  - <u>Health Sciences Centre</u> <u>outpatient clinic</u> (Winnipeg)
  - 7th Street Access
     Centre Prairie Mountain
     Health Region (Brandon)
- Pediatric Infectious Disease Specialist
- Working with partners to expand care sites (Thompson and AHWC)





#### MANITOBA HIV PROGRAM REFERRAL FORM

The testing practitioner is responsible for communicating HIV test results to the patient.

All patients who test positive for HIV should be referred to the Manitoba HIV program with client consent.

PATIENT INFORMATION		
Last name:	Street address:	
First name:	City/town:	
MB Health #:	Postal code:	
PHIN:	Primary phone number:	
Date of birth (dd/mmm/yyyy): / /	Can we leave a confidential voice message?   Yes	
	Secondary phone number:	
Sex at birth: □ Male □ Female	Can we leave a confidential v	oice message?   Yes   I
Gender identity:	Email:	
□ Male □ Female □ Non-binary □ Two spirit	Social media handle:	
□ Other	Client preferred language:	
□ Prefer not to specify	Interpreter required:   Yes	
Specimen date of positive HIV test	Notes related to contacting cl	lient (alternate contact,
(dd/mmm/yyyy): / /	community services, etc):	
Site of HIV test:		
New HIV diagnosis:	ort and other relevant investiga	tions):
Site of HIV test:  New HIV diagnosis:	ort and other relevant investiga	tions):
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New HIV diagnosis:	Phone number: , 705 Broadway, Winnipeg	
New HIV diagnosis:	Phone number:  , 705 Broadway, Winnipeg  e provider): nic, Winnipeg	Fax number:

REFER CLIENTS BY FAX TO: 204-318-3181

1-866-449-0165 www.mbHIV.ca

### STBBI Positive results

STBBI protocols

https://www.gov.mb.ca/health/publichealth/cdc/protocol/index.html

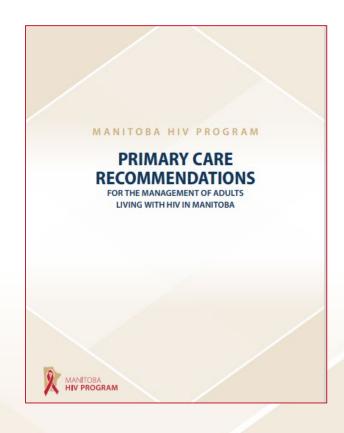
Medication stock ordering

https://www.gov.mb.ca/health/publichealth/cdc/protocol/form11.pdf



## Coming soon

- Primary Care Recommendations for PLWH in MB to increase capacity for ongoing care and monitoring within primary care
  - Monitoring labs
  - Immunizations
  - Preventative screening
- Primary care quality indicators to support best practice for STBBI screening, treatment and follow-up





### Hepatitis Treatment Referral

- Viral Hepatitis Investigative Unit, HSC, Ph: 204-787-3630, Fax 204-787-7086
- Mount Carmel Clinic, Ph: 204-589-9428, Fax: 204-582-6006
- Pediatric Infectious Diseases or Pediatric Gastroenterology for clients 17 years and younger).



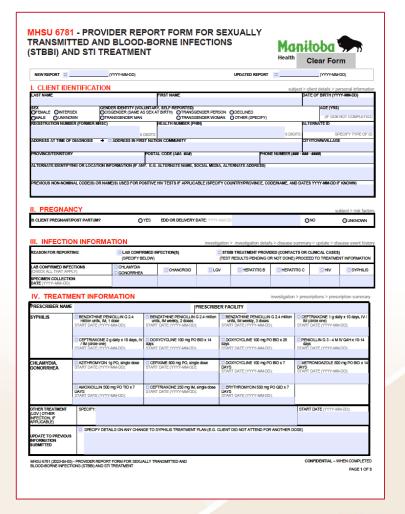


www.mbHIV.ca

## STBBI Report Form

Tariff	Description	Rate
78010	Completion of Pages 1 and 2: Treatment, risk factors, staging	\$20
78011	Completion of page 3: Contacts to the case	\$30

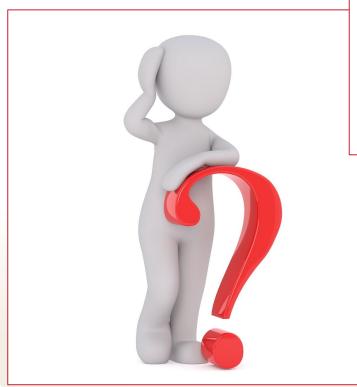
https://www.gov.mb.ca/health/publichealth/surveillance/forms.html





### **Questions**

<u>lireland@ninecircles.ca</u>



#### eConsult:

- ID
- HIV
- Hepatitis C
- STBBI
- STBBIs in pregnancy
- Email to register: <u>servicedesk@sharedhealthmb.ca</u>

