

Session #2

Public Health Update:

Hepatitis C & ECHO+

January 24, 2023

13:30 - 15:00







Outline

- 1. MOH Update: Respiratory viruses in Alberta
- Dr. Chris Sarin
- 2. Hepatitis C & Extension for Community Health Outcomes+
- Dr. Samuel Lee
- Kate Dunn
- 3. MOH Update: The Impact of Hepatitis C in Alberta First Nations
- Dr. Chris Sarin
- 4. Reporting & Treatment: Hepatitis C Practices and Resources
- Christina Smith, RN
- 5. Questions





MOH Update: Respiratory Viruses in Alberta

Dr. Chris Sarin

Senior Medical Officer of Health







MOH Update: Respiratory Viruses

- As of early January 2023, the Public Health Agency of Canada (PHAC) is reporting a decline in influenza activity, with both influenza and RSV returning to seasonal norms at the national level.
- COVID-19 Omicron subvariant XBB.1.5 is reporting to be more transmissible and contagious, however has not been associated with increased severe outcomes.
- A new, more transmissible variant could lead to more cases and higher healthcare usage. Even mild cases can impact daily activities like going to work, school, and socializing.
- Bivalent boosters, available in First Nations across Alberta, continue to provide the best protection against the most severe outcomes of COVID-19.
- Primary respiratory viruses of concern in Alberta:
 - COVID-19
 - Respiratory Syncytial Virus (RSV)
 - Seasonal influenza



Overview of Confirmed COVID-19 Cases in First Nations Communities on Reserve in Alberta

Source: FNIHB COVID-19 ER System via Synergy in Action (January 24, 2023)

184 1,117 259 21,046 9,906 **Total Deaths** ICU ever Hospitalized (47.1%) **Total COVID-19 cases** ever Males 2 (2 in ICU) 33 65 years 52 years 54 years **Currently in Average Age at** Newly Reported cases, Average Age at **Average Age** January 01-23, 2023 Hospital Death Hospitalization at ICU Admission

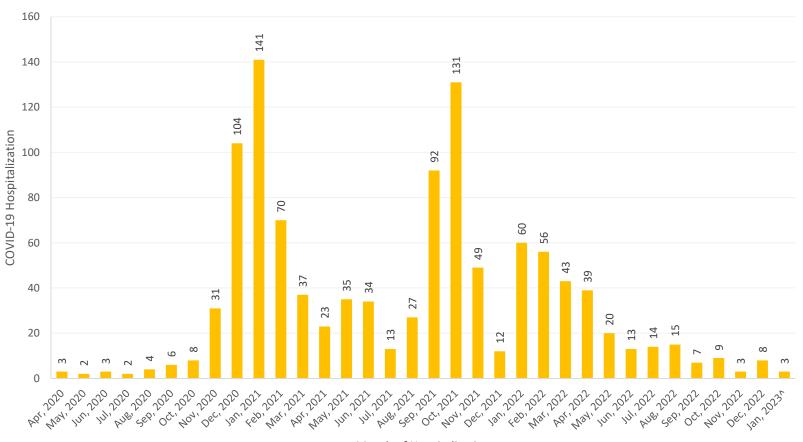
These do not include cases confirmed with only rapid antigen test in communities



COVID-19 Hospitalizations in First Nations Communities on Reserve by Hospitalization Month, January 23, 2023

Source: FNIHB COVID-19 ER System via Synergy in Action (January 24, 2023)

COVID-19 Hospitalizations in First Nations Communities



^Data may be incomplete

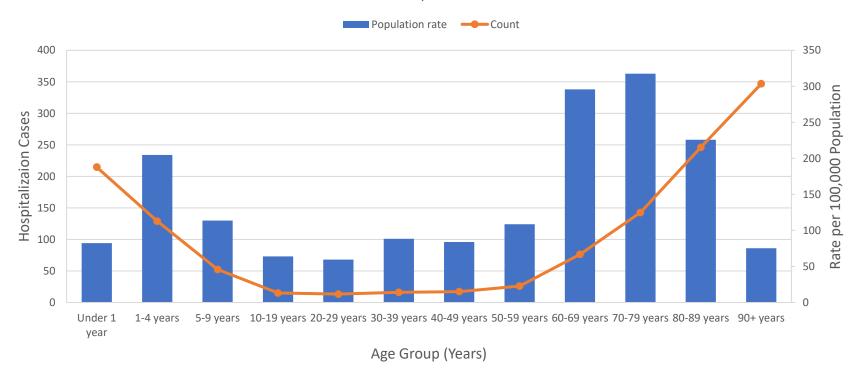




Influenza in Alberta

 As of January 24, 2023, 45 hospitalizations and 8 death due to influenza have been reported among First Nations people living on-reserve in Alberta

Number and Rate of Hospitalizations among Lab-Confirmed Influenza Cases by Age Group, Alberta, 2022-23





Hepatitis C & Extension for Community Health Outcomes+ (ECHO+)

Dr. Sam Lee

Professor and Hepatologist, University of Calgary, Director Project ECHO+ HCV

Kate Dunn

Community Engagement ECHO+ Alberta







Indigenous Services Canada ECHO Advisory Circle 24/1/23

Hepatitis C Review 2023



Dr. Sam Lee
Calgary Liver Unit
Director, Project ECHO HCV



Acknowledgment

• I acknowledge being an uninvited settler on land that is the traditional, unceded territory of the Blackfoot and the people of the Treaty 7 region which includes the Siksika, Piikani, Kainai, Tsuu T'ina and Stoney Nakoda First Nations. This region is also home to the Métis Nation of Alberta, Region III.

Speaker disclosures

- Research support: Abbvie, Gilead, Novartis
- Consultant: Abbvie, Gilead, Intercept,
 Oncoustics, Pendopharm, Justice Canada (HCV file)
- Speakers Bureau: Abbvie, Gilead, Intercept, London Drugs

TYPES OF VIRAL HEPATITIS

A: fecal-oral, acute only

B: parenteral, acute/chronic

C: parenteral, acute/chronic

D: parenteral, acute/chronic, only with B (uncommon in Canada)

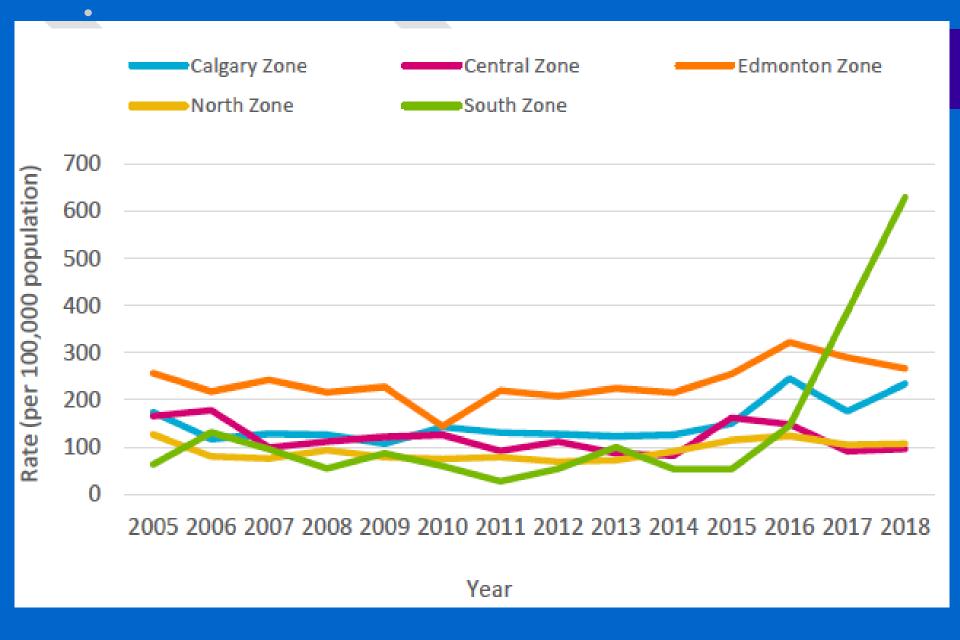
E: fecal-oral, acute only (not in Canada)

Non-ABCDE: acute only, uncommon, transmissions unknown

Hepatitis C in Canada

- 2019 PHAC est. 387,000 anti-HCV pos (1.0%)
- 7x more common in Indigenous (est. 7.3%)
- Perhaps 1/4 of gen population unaware of infection, 1/3 in 'boomers', much higher in Indigenous, but no estimate.

Why is HCV so common in Indigenous people?



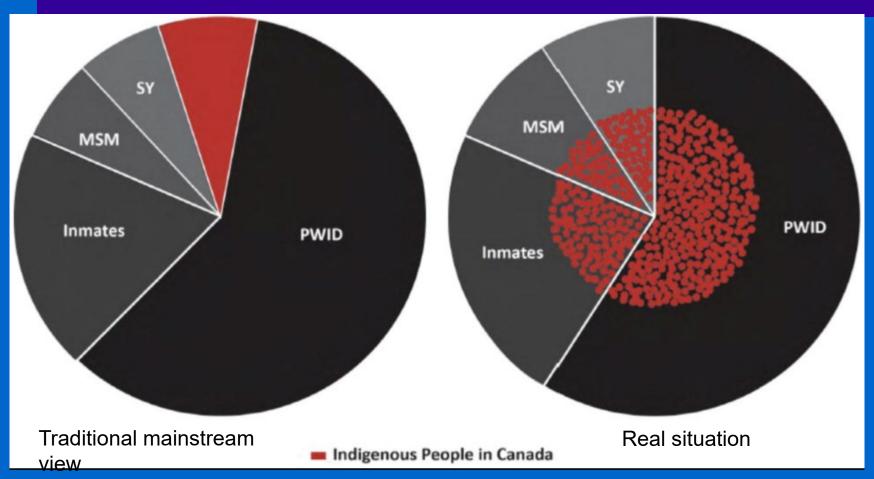
Can Liver J 2018; 3:1

In the eyes of Indigenous people in Canada: exposing the underlying colonial etiology of hepatitis C and the imperative for trauma-informed care

Sadeem T Fayed MPH(c)¹, Alexandra King MD, FRCPC², Malcolm King PhD, FCAHS², Chris Macklin MPH(c)¹, Jessica Demeria³, Norma Rabbitskin BN, RN⁴, Bonnie Healy RN⁵, Stewart Gonzales (Sempulyan) BSW⁶

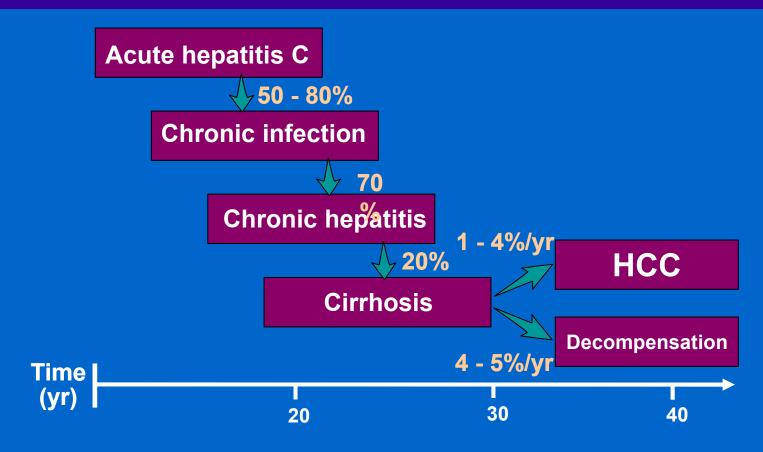
Correspondence: Dr Alexandra King, member Nipissing FN, Cameco Chair in Indigenous Health, Dept of Medicine, University of Saskatchewan. Alexandra.king@usask.ca

'Mainstream' vs real view



Indigenous people are over-represented in all risk groups except MSM. Fayed et al. Can Liv J 2018

Outcome Following Hepatitis C Infection

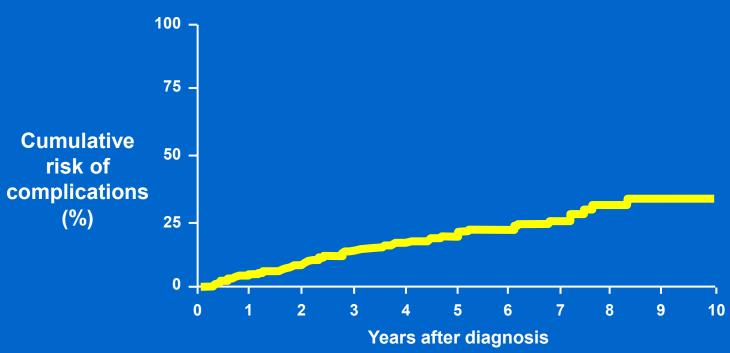


Course of chronic hepatitis C

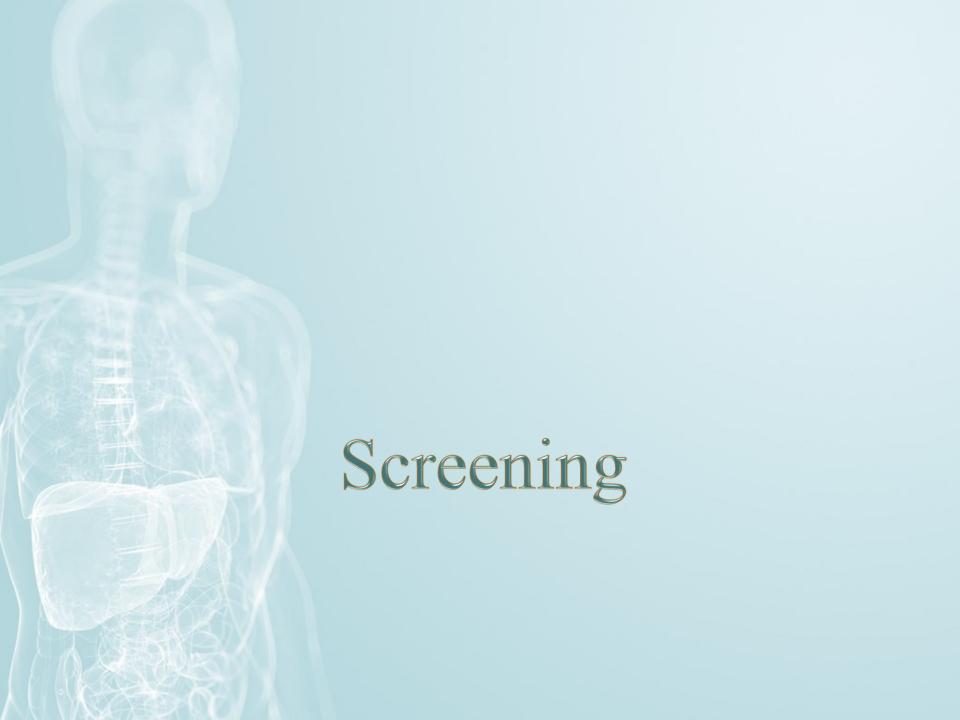
- 3 words: slow, slow, slow
- Approximately 5-30% develop cirrhosis in 30 years
- in young female nondrinkers, perhaps < 10% develop cirrhosis
- moderate and heavy alcohol use increase risk of cirrhosis
- PATIENTS MUST LIMIT ALCOHOL INTAKE!

Natural History of HCV

Cirrhosis



Adapted from Fattovich G et al. Gastroenterology. 1997;112:466-467.





Which patients should be screened for HCV?

Symptomatic patients



Patients with risk factors

Universal age-based (>40 years old

All Indigenous persons >16?

Tests Used in Chronic HCV

- Hepatitis C antibody tests
- HCV RNA tests
- Genotyping
- Liver biopsy
- Fibroscan

Algorithm for management

Anti-HCV positive



Reflexive HCV RNA and genotype

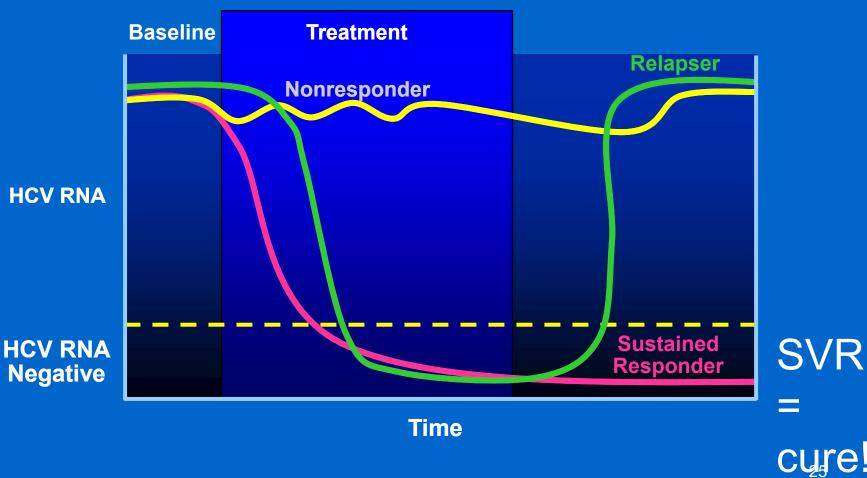


Negative - reassurance



Positive – treat with DAA

Patterns of Response to HCV Treatment



cure!

Goals of HCV Treatment

Primary

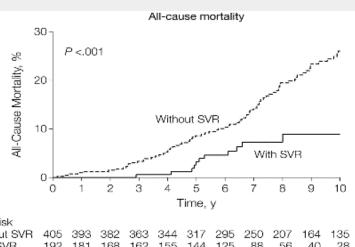
Eradicate the virus (patients are cured)

Secondary

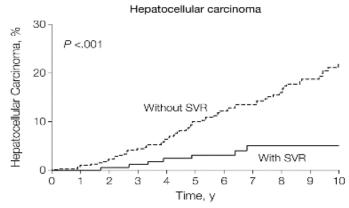
- Prevent progression to cirrhosis
- Reduce incidence of liver cancer
- Reduce need for transplantation
- Enhance survival

Association Between Sustained Virological Response and All-Cause Mortality Among Patients With Chronic Hepatitis C and Advanced Hepatic Fibrosis. Van der Meer et al. JAMA Dec 2012

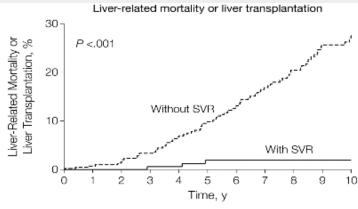
With SVR



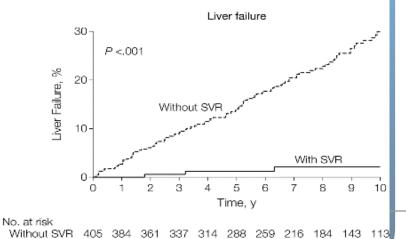
No. at risk Without SVR With SVR 181 168 162 155 144 125



No. at risk Without SVR 390 375 349 326 294 269 229 192 181 167 161 152 142 124 86 39 27



No. at risk Without SVR 358 392 305 277 With SVR 181 168 162 155 144



123

88

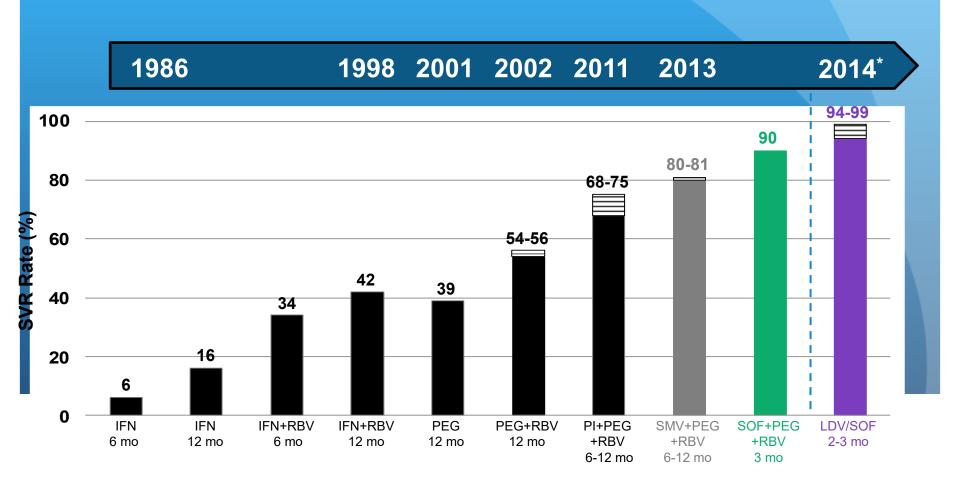
56

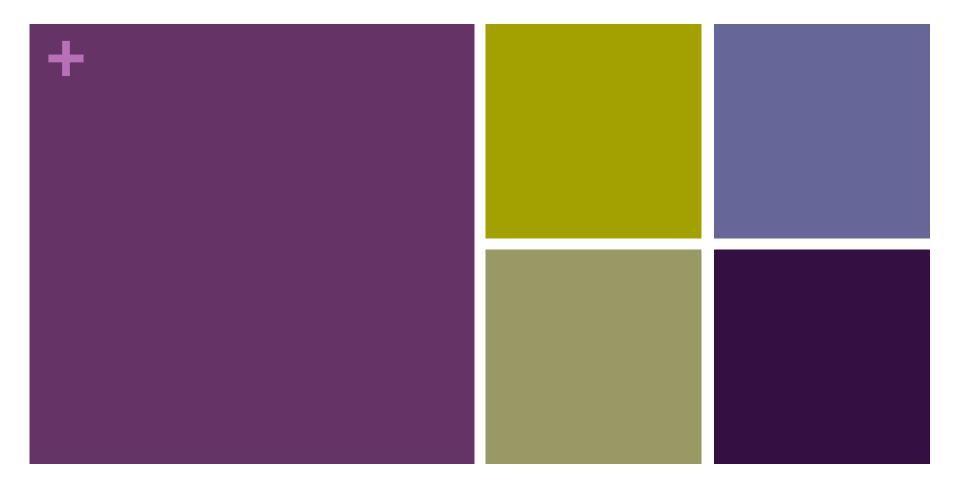
180 166 160 152 141

DAA therapies have similar efficacy

- Epclusa, Maviret pangenotypic, similar efficacy
- Simplified test-and-treat strategy for remote communities (pangenotypics)?

Major advances in HCV drug development have made disease eradication a possibility





Project ECHO

Extension for Community Health Outcomes Alberta Report 2015-19

Dr. Samuel Lee

Goals of Project ECHO

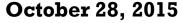
- ■Develop capacity to safely and effectively treat HCV in all areas of Alberta
- ■Build a community of expertise in HCV care using hub and spoke model of tele-medicine



Timelines



Replication Training in New Mexico



First Project-ECHO HCV Sessions







August – October 2015

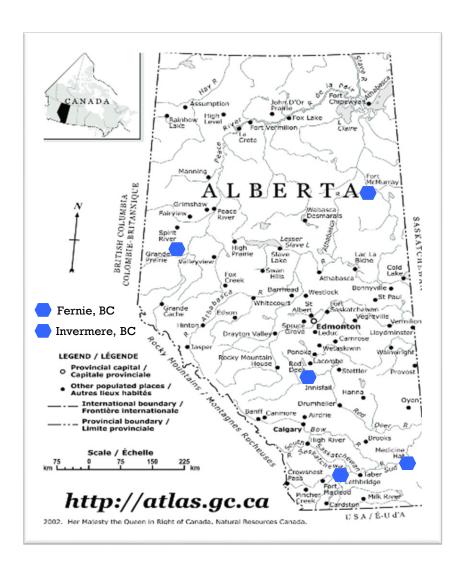
Initial Spoke Identification Site Ready

October 2015 - Present

Ongoing sessopms1 hour q2weeks via videoconferencing



Project ECHO HCV Alberta 2019



Active Spoke Locations:

Yellowknife, NT

Grand Prairie, AB

Ft. McMurray, AB

Lethbridge, AB

Medicine Hat

Fernie, BC

Innisfail, AB

Blood reserve

Sunchild, Ochise reserves

Maskwacis reserve

Siksika reserve

Piikani reserve

Stoney Nakoda

Saddle Lake

Structure of Bi-weekly Sessions

- Hub site connects with spokes through ZOOM videoconferencing for 1h sessions q-2wks
 - Current participation: 5-9 sites per session; 4-9 cases presented per session
- Hub site personnel: hepatologist; nurse; pharmacist; administrative; tech support
- Prior to sessions, de-identified patient case information submitted to hub site
- During sessions, cases discussed in multidisciplinary format. Management plan developed.

HCV Rx is tailor-made for telehealth

- Distant specialist appointment hard for many patients
- ■HCV Rx is simple, no side effects, very high cure rates
- ■Scripts written by NPs, fam docs, pharmacists
- **■**Patients never have to leave local community

HCV: conclusions

- Common chronic viral infection
- More cases in Indigenous people
- Curable by antiviral Rx; no side effects
- New drugs have increased cure rate to >95%
- Screening needs to increase
- ECHO allows access to care for underserved Indigenous populations

What is Hepatitis C?

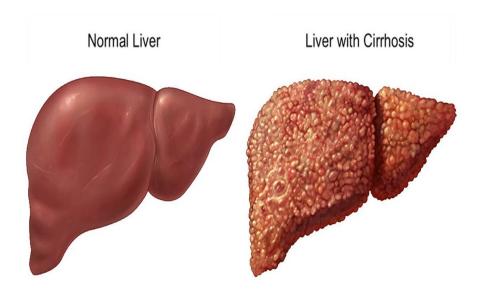
Why does it matter to my Community?



How can we make a difference?

- Filters blood coming from digestive system
- Makes proteins that help digest food and stop bleeding
- Stores vitamins and minerals
- Boosts the immune system
- Changes medications into usable form
- Filters toxins, alcohol, drugs and other chemicals

What Does My Liver Do?



What is Hepatitis C (HCV)?

- Hepatitis A, B, C
- Blood to Blood Transmission
- Risk Groups;

Born 1945-1975

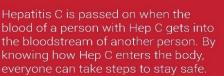
Received blood transfusion

Tattoo/piercing by unlicensed

Dental work - nonsterile

Sharing Needles, Pipes, Straws

Hep C is passed blood to blood. Know the risks.







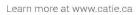












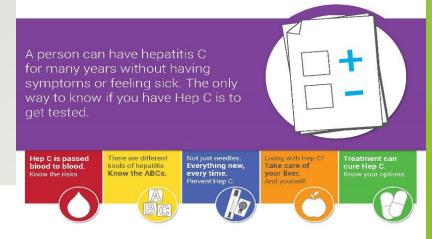


What Does It Feel Like?

You may not have any symptoms, or you may start to feel;

- Tiredness
- Headaches
- Joint/Muscle Pain
- Nausea
- Forgetfulness
- Belly Pain
- Depression
- Anxiety
- Itchy skin

Hepatitis C.
You can have it and not know it.
Get tested.









What Can We Do About Hepatitis?

- Get Screened
- Get Treated1-3 pills/day8-12 weeks
- Get Cured
- Get Talking

TREATMENT CURES OVER 95% OF PEOPLE WITH HEPATITIS C

Talk to your nurse or doctor about your treatment options







What is elimination according to the WHO?

Global Health Sector Strategy – HCV targets at a glance





Incidence targets

30% reduction in new HCV infections by 2020

90% reduction in new HCV infections by 2030



Mortality targets

10% reduction in mortality by 2020

65% reduction in mortality by 2030



Harm reduction

Increase in sterile needle and syringes provided per PWID/year from 20 in 2015 to:

- 200 by 2020
- 300 by 2030



Testing targets

90% of people aware of HCV infection by 2030



Treatment targets

80% of people treated by 2030

Adapted from WHO Advocacy 20161

1. WHO Advocacy Brief 2016.

HEPATITIS CIN CANADA



OF CANADIANS HAVE BEEN INFECTED WITH HCV IN THEIR LIFETIME (2011)1

OFTHOSE

Up to 246,000 Canadians are living with CHRONIC HEPATITIS C VIRUS (HCV) INFECTION (2011)1



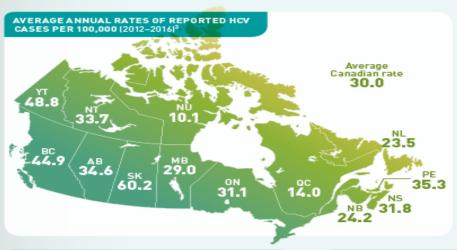
An estimated 44% are unaware of their infection

43% are found in former and current persons who inject drugs

while

35% are found in foreign-born populations¹

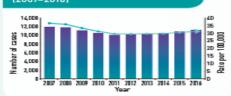




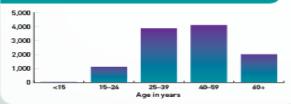


1 in 🚣 prevalence of HCV among FEDERAL INMATES (2005-2012)2

TRENDS IN REPORTED HCV CASES



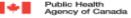




REPORTED HCV CASES BY SEX (2007–2016)³

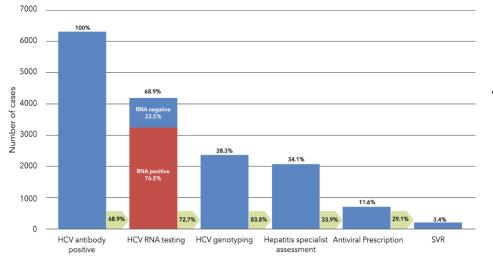


- REFERENCES: 1. Trubnikov M, Yan P, Archibald C. (2014). Estimated prevalence of Hepatitis C Wrus infection in Canada, 2011. CCDR; 40|19|:429-436.
- 2. CSC. (2016). Health Services Quick Facts: Hepatitis C Virus (HCV) Age, Gender and Indigenous Ancestry.
- 3. PHAC. (2017). Canadian Notifiable Diseases Surveillance System.



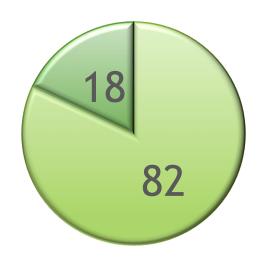
Agence de la santé publique du Canada





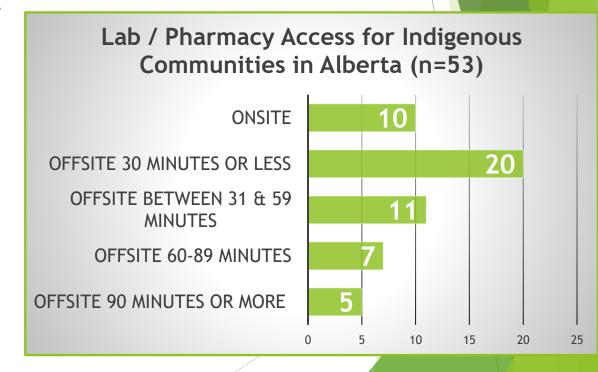
Only 3.4% Achieving Cure

Access to Lab Services Reported by Indigenous Communities in Alberta



■ Barriers in Accessing Lab for HCV Screening

Lab Access Barriers



DBS (Dried Blood Spot) Screening





Presentation Session November 23 at 4:30

Nd=cVBsQzB3dUVDVW85TWNQZy9ISm

Meeting ID: 896 1629 5014 Passcode: 503064

Wednesday from 4:30-5:30 Nov 23, 2022 04:30 PM Dec 7, 2022 04:30 PM

Every 2 weeks on

CELEBRATING CANADA'S DOCTORS: THE MEDICAL POST Dec 21, 2022 04:30 PM AWARDS SUPPORT NATIONAL INDEPENDENT PHYSICIAN VOICES, CONTRIBUTION TO COMMUNITY AND PRACTICE

- Webinar & Education Options
- Medical Post Award
- Community Events

SAVE THE DATE October 13-15, 2023 ECHO CONFEDENCE





Take the opportunity to Support Wellness



- ➤ Get Screened!
- ➤ Get Cured!
- ➤ Get Talking

- Increase awareness
- Create a microelimination plan
- Build partnerships
- Engage community
- Build a team
- Set an example-get screened
- Talk about it!

Resources

- CATIE.ca (Canada's resource for HIV and Hepatitis C information)
 - Training modules & webinars
 - Printed posters, pamphlets, postcards (free and free shipping)
- INHSU.org
 - Training modules & webinars
 - Resource toolkit
- Canadian Liver Foundation liver.ca
 - DocuStory hosted
 - Information
- ► ECHO Email: <u>echoplusalberta@gmail.com</u> phone: 587-581-9019
 - Instagram: life4liver
 - ► FaceBook: echoalberta



MOH Update: Hepatitis C in Alberta First Nations

Dr. Chris Sarin

Senior Medical Officer of Health

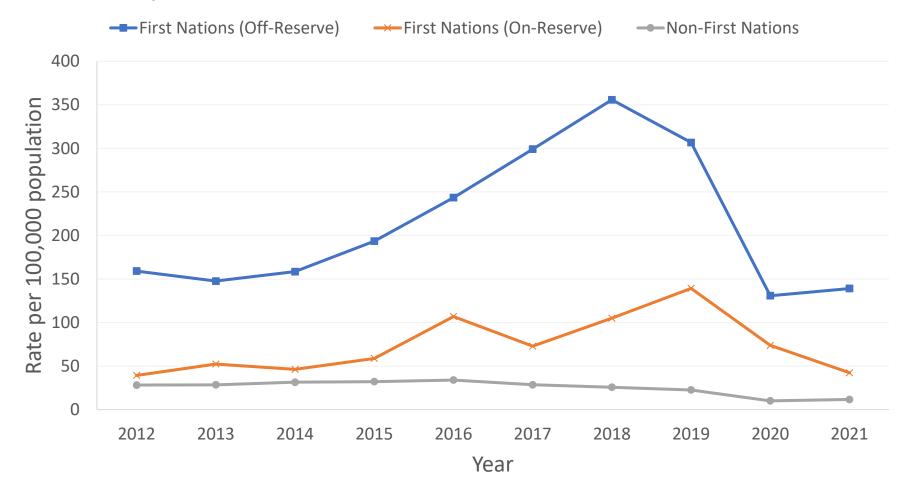






Rate of New Hepatitis C, by Population Group – Alberta, 2012 - 2021

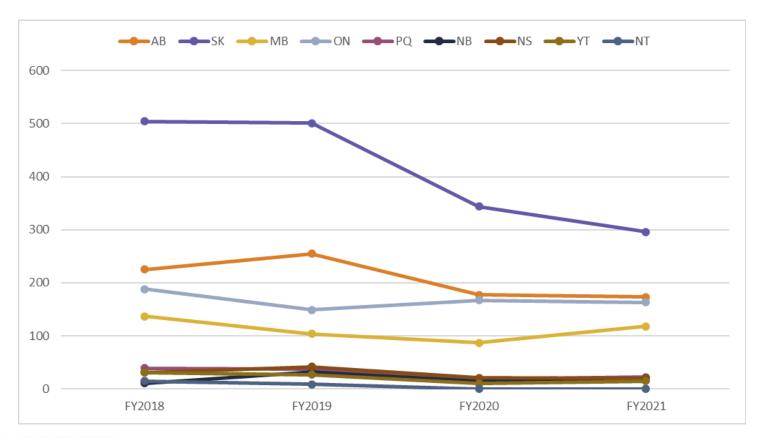
Data Source: Alberta Health, Analytics and Performance Reporting Branch, Interactive Health Data Application and FNIHB NDR reports



Hepatitis C Medication Claims by Province (for All Providers)

Data Source: Non-Insured Health Benefits Health Information and Claims Processing Services system

 While there has been a steady decline since 2019, Alberta has the second highest Hepatitis C medication claims through NIHB.



Hepatitis C & First Nation Populations in Alberta

Between 2012 – 2021 (graphic representation on next slide):

- 2,430 new hepatitis C cases were reported among First Nations people living in Alberta, averaging 243 cases per year.
- 570 new hepatitis C were reported among First Nations people living on-reserves in Alberta, averaging 57 cases per year.
- In 2021, the rate of new hepatitis C among First Nations people living on-reserve was more than three times the rate of non-First Nations people.
- Significant decrease in the number of reported new hepatitis C cases in 2020 and 2021 may be due to decrease in testing activities because of the Covid 19 pandemic. In general, less people sought non-COVID-19 related healthcare services during that period.

Hepatitis C During the COVID-19 Pandemic (on reserve)

- Between 2020 2022, 131 new hepatitis C cases were reported among First Nations people living on-reserves:
 - 59 new cases in 2020
 - 35 new cases in 2021
 - 37 new cases in 2022



Reporting & Treatment: Hepatitis C Practices And Resources

Christina Smith, RN

Manager, Communicable Disease Control, ISC-AB







Hepatitis C Reporting Process

- A lab report is generated that indicates an individual has the hepatitis C virus
- The ordering practitioner receives a copy of the lab result and contacts the client to relay the result
- AHS CDC Team receives the lab report
 - AHS recognizes the individual resides in a First Nations community in Alberta and forwards the lab to FNIHB CDC inbox
 - Note: If the test was ordered under Dr. Sarin, or he was cc'd on it, the CDC inbox would receive a copy of the lab at the same time as AHS
- FNIHB CDC Team reviews Netcare and SHIP to determine if the hepatitis C infection is chronic or acute, and forwards the lab with instructions to the community health nurse

(con't)

Hepatitis C Reporting Process (con't)

- The community health nurse contacts the client to confirm they have received lab results
- The community health nurse:
 - Completes the Hepatitis C Data Collection Form (found on OneHealth)
 - Completes the Checklist for Hepatitis C Counselling (found on OneHealth)
 - Completes a Report of Notifiable Disease (NDR) (On CHIP)
 - Is sent to the FNIHB CDC inbox
- The community health nurse confirms with the individual that they have been connected to one of the Hepatitis C clinics (or hepatologist) for follow up (list found on OneHealth).
- FNIHB CDC Team reviews the NDR and submits it to Alberta Health
 - Note: Alberta Health notifies the FNIHB CDC Team of any outstanding NDRs

CDC Contacts for Hepatitis C Lab Reports or NDRs

Primrose Sotocinal

- Phone: 780-224-7293

– Email: <u>primrose.sotocinal@sac-isc.gc.ca</u>

Nicole Allam

- Phone: 431-242-0112

- Email: nicole.allam@sac-isc.gc.ca



Questions? VCHELP@FNTN.CA







Acknowledgements

Dr. Sam Lee, Professor and Hepatologist, University of Calgary, Director Project ECHO+ HCV

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Christina Smith, Registered Nurse - FNIHB

Ibrahim Agyemang, Senior Epidemiologist – FNIHB

TSAG Telehealth Team (Michelle Hoeber, Brooke Bustillo and team)

FNIHB Technical Team

