

State of HCV in Minnesota

Minnesota Department of Health
Hepatitis Surveillance System

Communicable Disease Reporting – Hepatitis

• Hepatitis A, B, C, D and E are all reportable by name to the Minnesota Department of Health (MDH).

• All reported cases may be contacted by the MDH Surveillance staff for epidemiological follow-up.

Minnesota Hepatitis Surveillance System

Hepatitis B cases since 1987

•Hepatitis C cases since 1998

Passive data collection

Viral Hepatitis Overview

Introduction

- Data in this presentation are current through 2022
- Definitions:
 - Acute case:
 - Infected within the last twelve month negative test in twelve months before diagnosis
 - ALT ≥200, T. bili ≥3.0, OR jaundice
 - Chronic case:
 - Infected for over twelve months
 - Asymptomatic or symptomatic
 - Resolved cases:
 - No evidence of current infection
 - Evidence of past infection

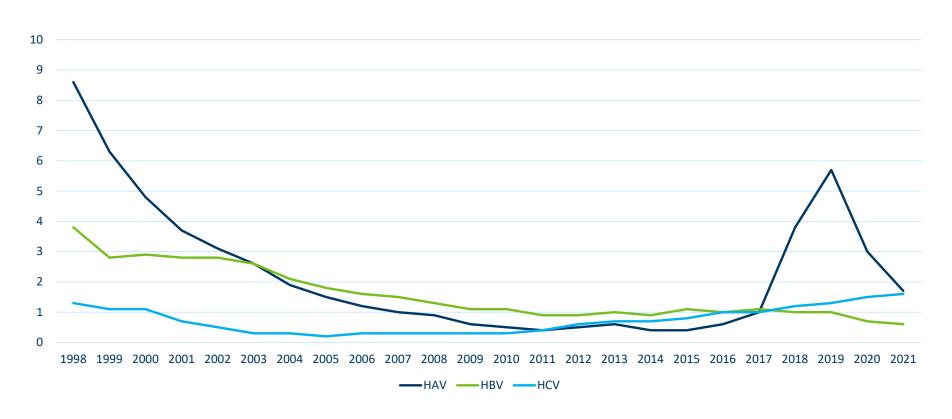
Data limitations

- The slides rely on data from HCV and HBV cases diagnosed through 2022 and reported to the Minnesota Department of Health (MDH) Hepatitis Surveillance System.
- Some limitations of surveillance data:
 - Data do not include hepatitis-infected persons who have not been tested
 - Data do not include persons whose positive test results have not been reported to the MDH
- Persons are assumed to be alive unless the MDH has knowledge of their death. Most recent match with Minnesota death records was in 2016.
- Persons whose most recently reported state of residence was Minnesota are assumed to be currently residing in Minnesota unless the MDH has knowledge of their relocation.

Acute Viral Hepatitis

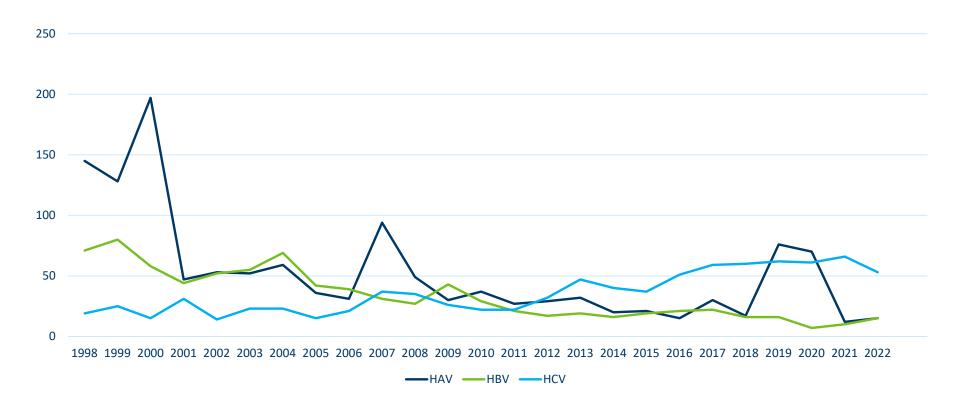
- Acute case:
 - Infected within the last twelve months negative test 12 months before diagnosis
 - ALT ≥200, T. bili ≥3.0, OR jaundice

Reported rate per 100,000 population of acute viral hepatitis United States, 1998-2020



Data Source: Viral Hepatitis Statistics & Surveillance at www.cdc.gov/hepatitis/Statistics/

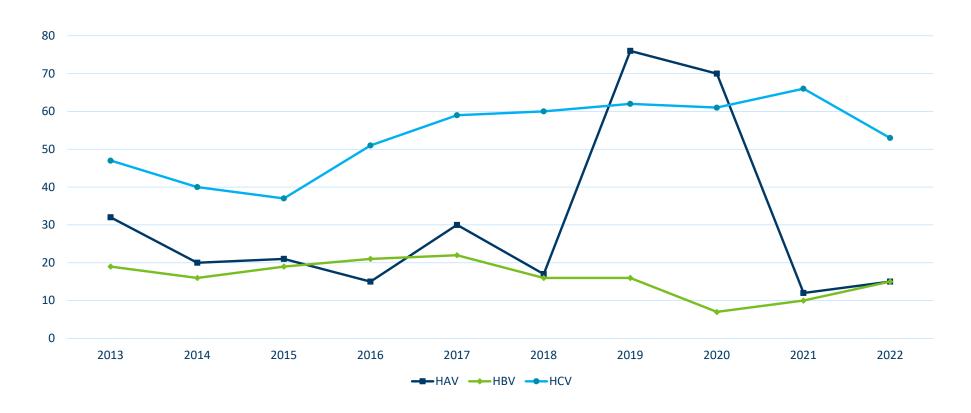
Number of Acute* Cases per year Minnesota, 1998-2022



Data Source: MN Viral Hepatitis Surveillance System

*Acute cases include seroconverters for all years for HBV and HCV

Number of Acute* Cases per year Minnesota, 2013-2022



Data Source: MN Viral Hepatitis Surveillance System

*Acute cases include seroconverters for all years for HBV and HCV

Chronic Viral Hepatitis

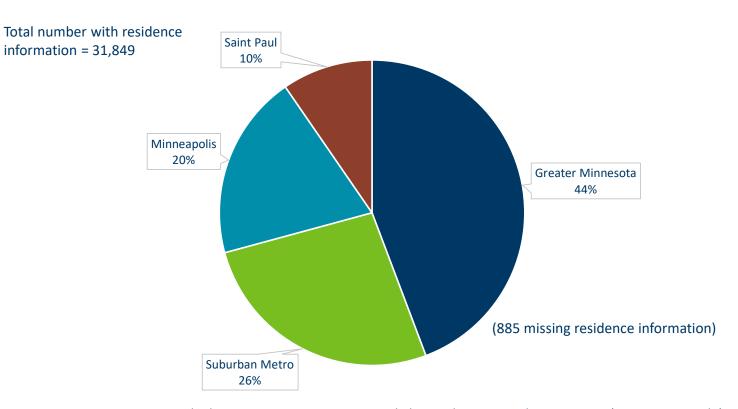
Reported Number of Persons Living with HCV in MN

	s of December 3 ith HCV.	1, 2022 , 32,543	8* persons are	e assumed aliv	ve and living in I	MN
Note	: Includes all acute, chronic, and proba	ble cases.				
*Incl	udes persons with unknown city of res	idence				

Changes in Case Counting, 2016

- Removed resolved infections from case counts
- Completed match with death registry for 1997 through 2016

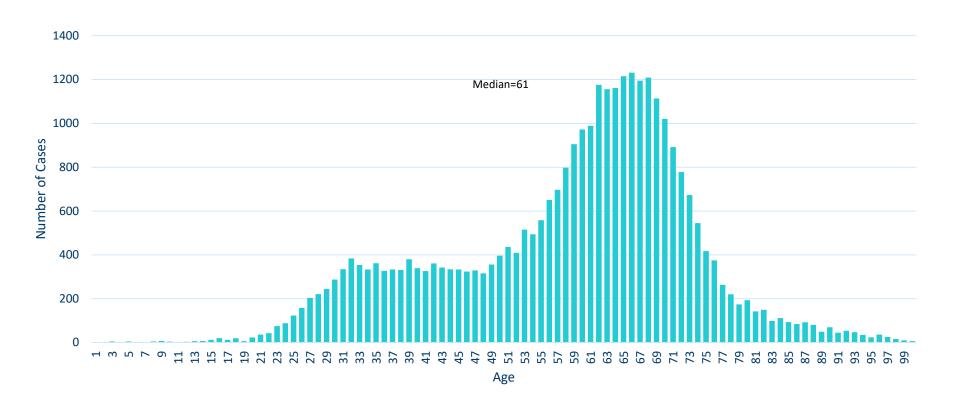
Persons Living with HCV in MN by Current Residence, 2022



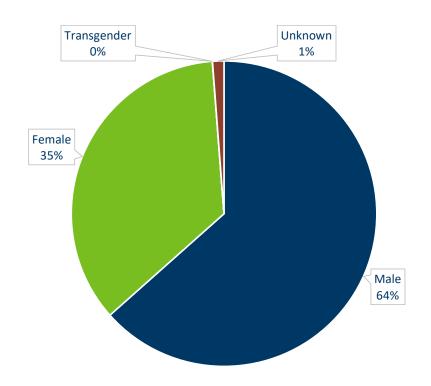
Data Source: MN Viral Hepatitis Surveillance System

Suburban = Seven-county metro area including Anoka, Carver, Dakota, Hennepin (except Minneapolis), Ramsey (except St. Paul), Scott, and Washington counties including those in Hennepin County or Ramsey County with unknown city. Greater MN = All other Minnesota counties, outside the seven-county metro area.

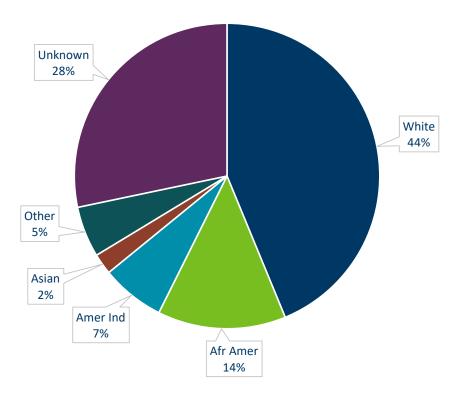
Persons Living with HCV in MN by Age, 2022



Persons Living with HCV in MN by Gender*, 2022



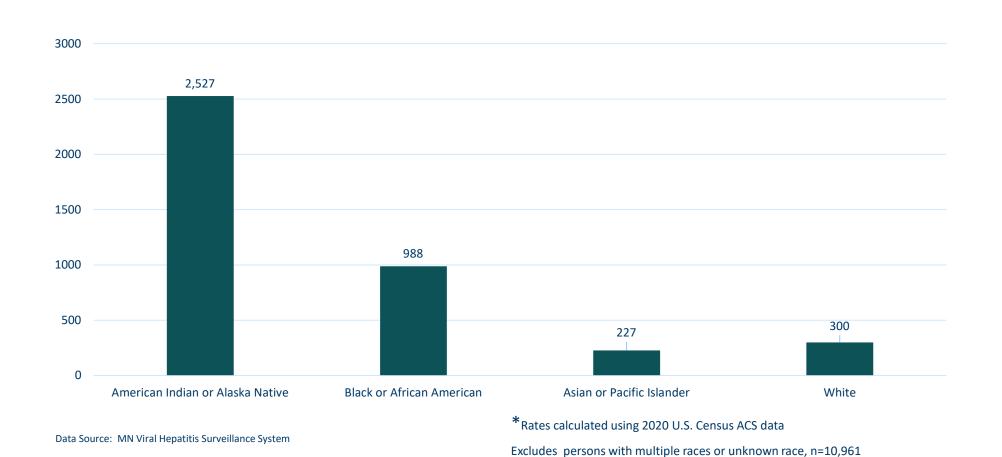
Persons Living with HCV in Minnesota by Race, 2022



Data Source: MN Viral Hepatitis Surveillance System

Afr Amer = African American /Black Asian=Asian or Pacific Islander
Amer Ind = American Indian
Other = Multi-racial persons or persons with other race

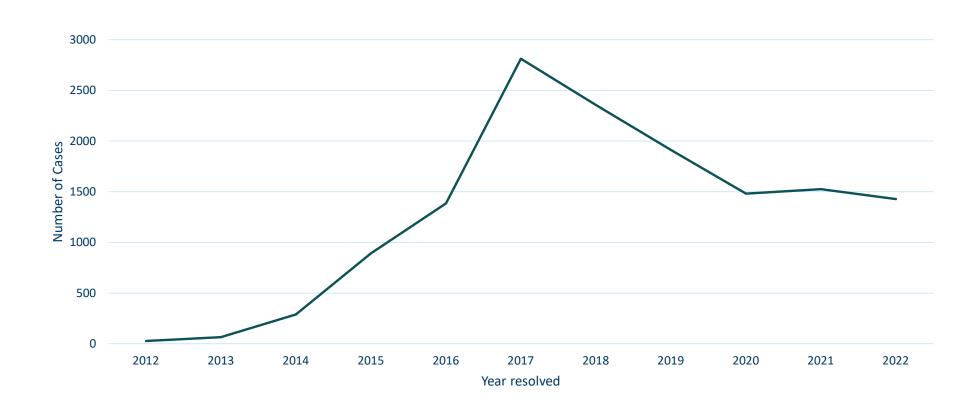
Persons Living with HCV in Minnesota by Race rates (per 100,000 persons*), 2022



Resolved HCV Infection

- Included in overall HCV case counts in past years
- Defined as:
 - A positive HCV RNA test followed by a negative HCV RNA test
- Does NOT include:
 - Anti-HCV positive with a negative HCV RNA with NO past positive HCV RNA

Resolved Hepatitis C, 2022

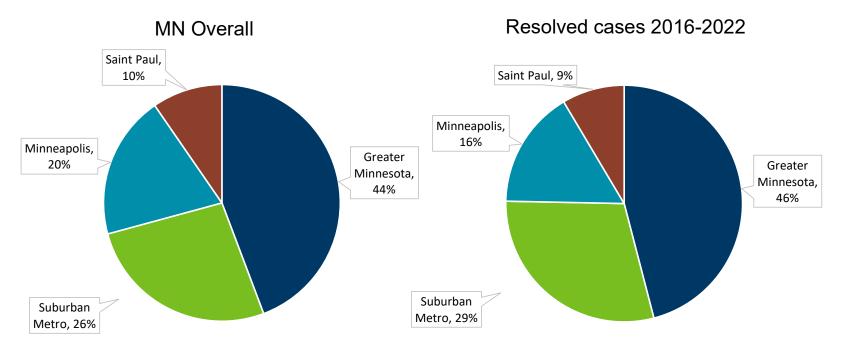


Reported number of resolved infections in MN

As of December 31, 2022, there were 13,386* persons in the MN hepatitis database with HCV infection that resolved between 2016-2022.

*Includes persons with unknown city of residence

Resolved HCV cases in MN by Current Residence, 2022

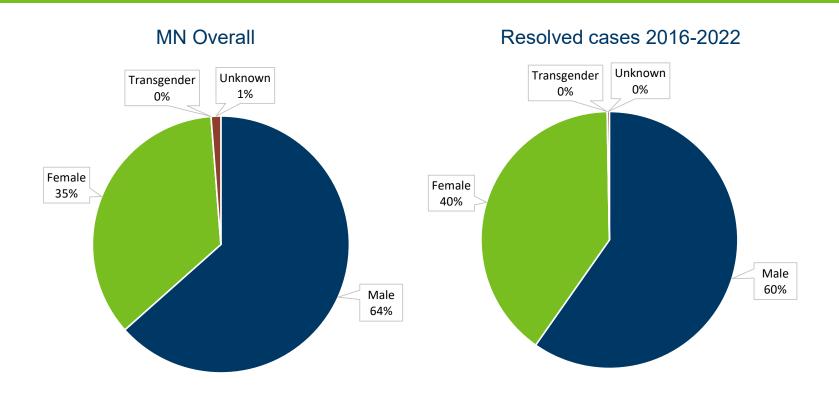


Total number with residence information= 31,849

Total number with residence information= 12,792

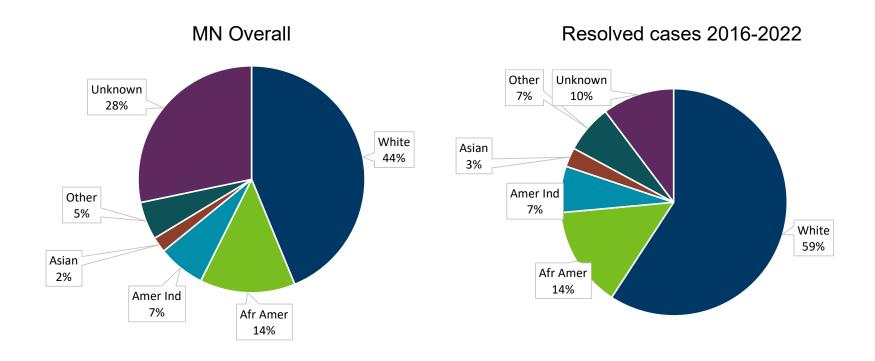
Suburban = Seven-county metro area including Anoka, Carver, Dakota, Hennepin (except Minneapolis), Ramsey (except St. Paul), Scott, and Washington counties including those in Hennepin County or Ramsey County with unknown city. Greater MN = All other Minnesota counties, outside the seven-county metro area.

Resolved HCV cases in MN by Gender*, 2022



*Includes anonymous methadone patients

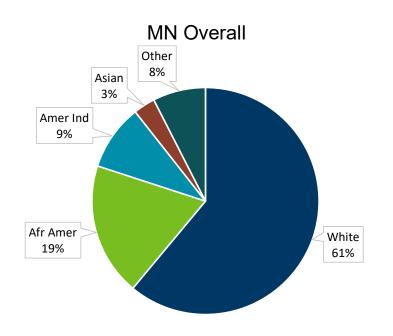
Resolved HCV cases in MN by Race, 2022



Data Source: MN Viral Hepatitis Surveillance System

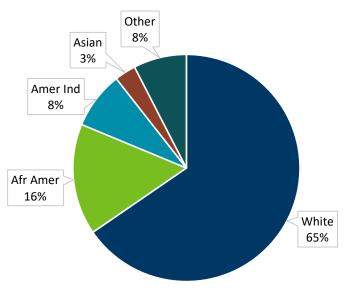
Afr Amer = African American /Black Asian=Asian or Pacific Islander
Amer Ind = American Indian
Other = Multi-racial persons or persons with other race

Resolved HCV cases in MN by Race, 2022



Total number with known race = 23,336

Resolved cases 2016-2022



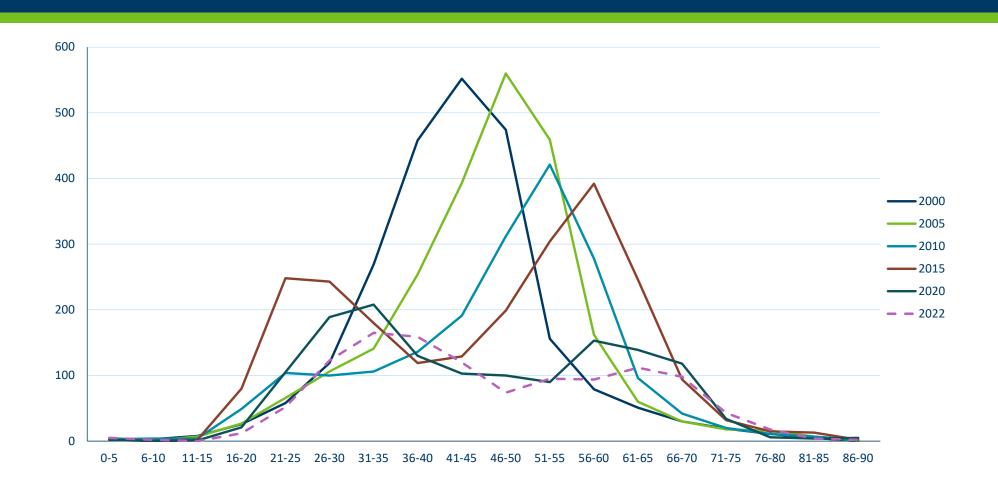
Total number with known race = 11,558

Afr Amer = African American /Black Asian=Asian or Pacific Islander Amer Ind = American Indian

Other = Multi-racial persons or persons with other race

Hepatitis C in Populations of Interest

New Reports of HCV in Minnesota by Age Group, 2022



Hepatitis C in Persons Under Age 30

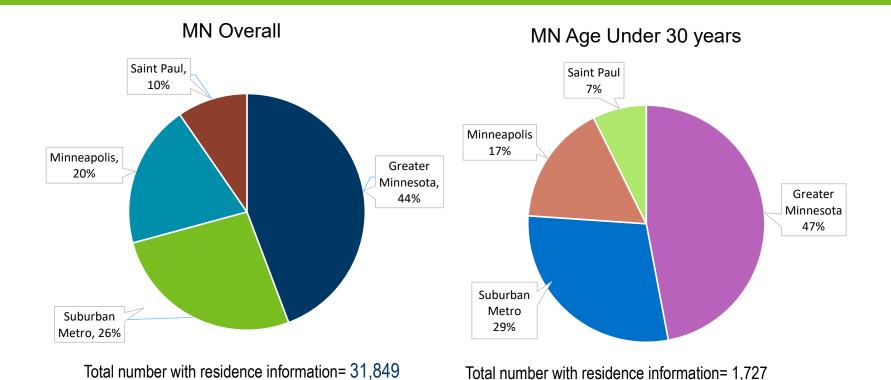
Reported Number of Persons <30 Living with HCV in MN



Note: Includes all acute, chronic, and probable chronic cases.

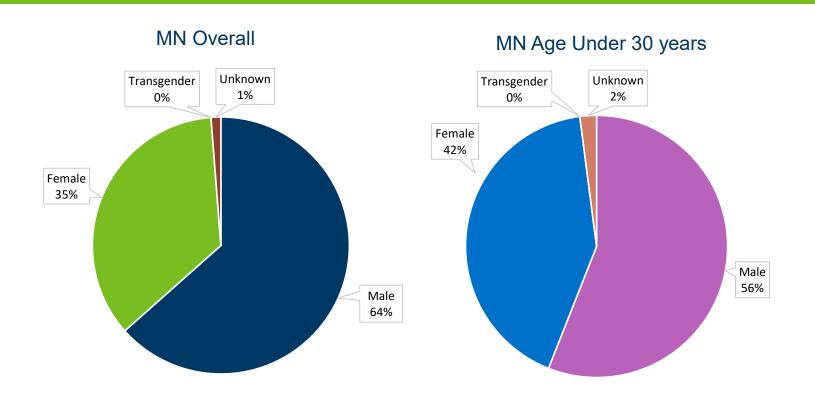
*Includes persons with unknown city of residence

Persons <30 Living with HCV in MN by Current Residence, 2022



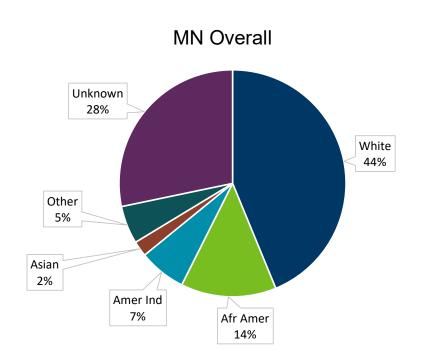
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Persons <30 Living with HCV in MN by Gender*, 2022

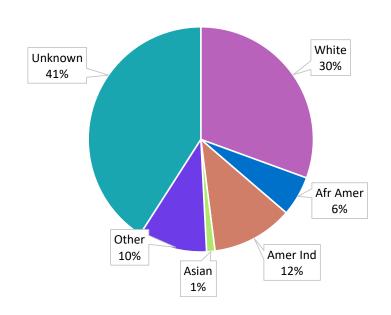


*Includes anonymous methadone patients

Persons <30 Living with HCV in MN by Race, 2022



MN Age Under 30 years



Afr Amer = African American /Black Asian=Asian or Pacific Islander Amer Ind = American Indian

Other = Multi-racial persons or persons with other race

Hepatitis C in Native Americans

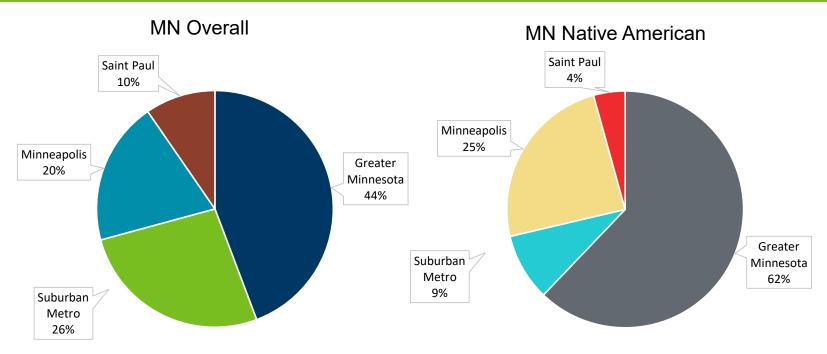
Reported Number of Native Americans Living with HCV in MN

As of Decemb	er 31, 2	2022, 2	2,190*	persons	who	identify	as Native	e America	n are
assumed alive	and liv	ing in	MN w	ith HCV					

Note: Includes all acute, chronic, and probable chronic cases.

*Includes persons with unknown city of residence

Native American Persons Living with HCV in MN by Current Residence, 2022

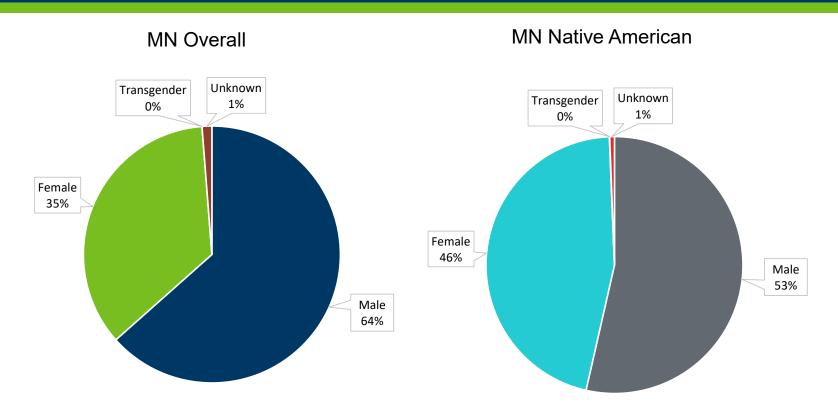


Total number with residence information= 31,849

Total number with residence information= 2,176

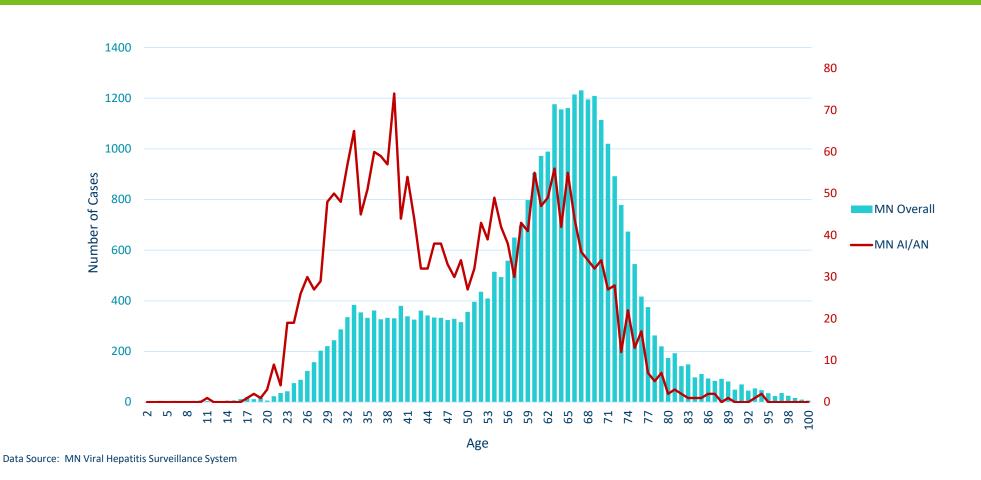
Suburban = Seven-county metro area including Anoka, Carver, Dakota, Hennepin (except Minneapolis), Ramsey (except St. Paul), Scott, and Washington counties including those in Hennepin County or Ramsey County with unknown city. Greater MN = All other Minnesota counties, outside the seven-county metro area.

Native American Persons Living with HCV in MN by Gender*, 2022

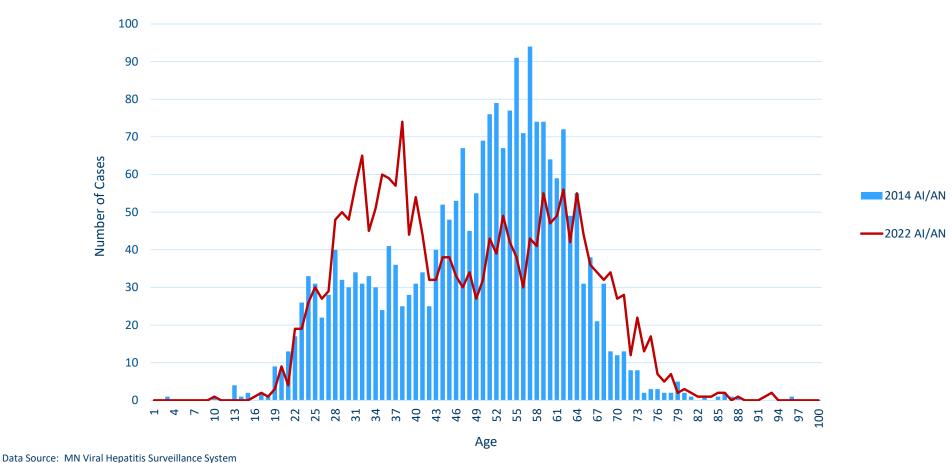


*Includes anonymous methadone patients

Native American Persons Living with HCV in MN by Age, 2022



Native American Persons Living with HCV in MN by Age, 2014 & 2022





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Thank you!

Special thanks to the Hepatitis Unit at MDH!

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