



# HIV/AIDS Incidence Report, 2021

HIV/AIDS Surveillance System

June 2022

PROTECTING, MAINTAINING AND IMPROVING THE HEALTH OF ALL MINNESOTANS

# Land Acknowledgement

Every community owes its existence and vitality to generations from around the world who contributed their hopes, dreams, and energy to making the history that led to this moment. Some were brought here against their will, some were drawn to leave their distant homes in hope of a better life, and some have lived on this land for more generations than can be counted. Truth and acknowledgment are critical to building mutual respect and connection across all barriers of heritage and difference.

We begin this effort to acknowledge what has been buried by honoring the truth. We are standing on the ancestral lands of the Dakota people. We want to acknowledge the Dakota, the Ojibwe, the Ho Chunk, and the other nations of people who also called this place home. We pay respects to their elders past and present. Please take a moment to consider the treaties made by the Tribal nations that entitle non-Native people to live and work on traditional Native lands. Consider the many legacies of violence, displacement, migration, and settlement that bring us together here today. Please join us in uncovering such truths at any and all public events.\*

\*This is the acknowledgment given in the USDAC Honor Native Land Guide – edited to reflect this space by Shannon Geshick, MTAG, Executive Director Minnesota Indian Affairs Council

# New HIV Diagnoses in Minnesota, 2021

# Introduction (I)

These two introduction slides provide a general context for the data used to create this slide deck. If you have questions about any of the slides, please refer to *HIV Surveillance Technical Notes*.

This slide deck describes new HIV diagnoses (including AIDS at first diagnosis) in Minnesota by person, place, and time.

The slides rely on data from HIV/AIDS cases diagnosed through 2021 and reported to the Minnesota Department of Health (MDH) HIV/AIDS Surveillance System.

The data are displayed by year of HIV diagnosis.

## Introduction (II)

Data analyses exclude people diagnosed in federal or private correctional facilities but include people incarcerated by the state (number of people incarcerated by the state believed to be living with HIV/AIDS [n=20]).

Data analyses for new HIV diagnoses exclude people arriving to Minnesota through the HIV+ Refugee Resettlement Program (number of primary HIV+ refugees in this program living in MN as of December 31, 2021 = 163), as well as other refugees and immigrants reporting a positive test prior to their arrival in Minnesota (n=166).

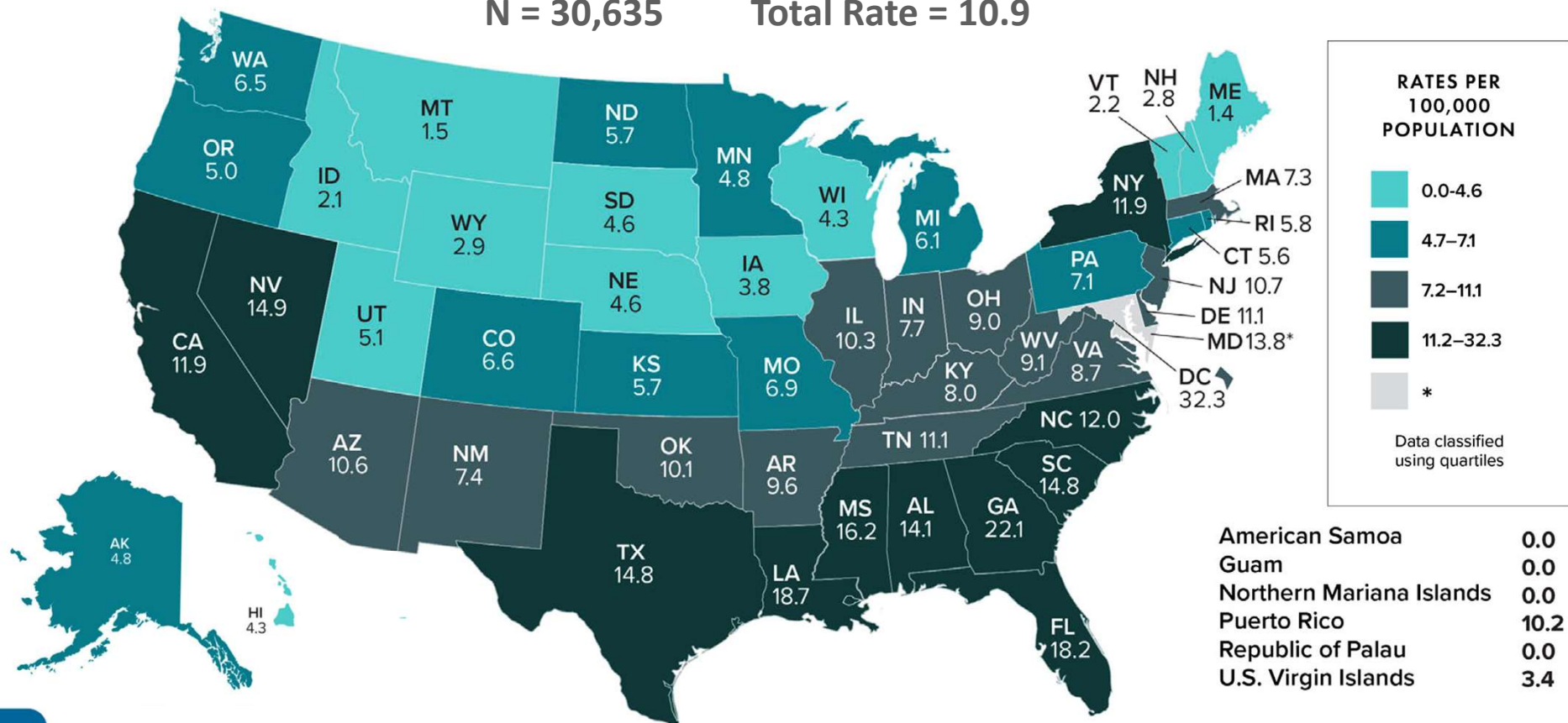
Some limitations of surveillance data:

- Data do not include people living with HIV who have not been tested for HIV
- Data do not include people whose positive test results have not been reported to MDH
- Data do not include people living with HIV who have **only** tested anonymously
- Case numbers for the most recent years may be undercounted due to delays in reporting
- Reporting of living cases that were not initially diagnosed in Minnesota is known to be incomplete

# Rates of Diagnoses of HIV Infection among Adults >13 2020—United States and 6 Dependent Areas

N = 30,635

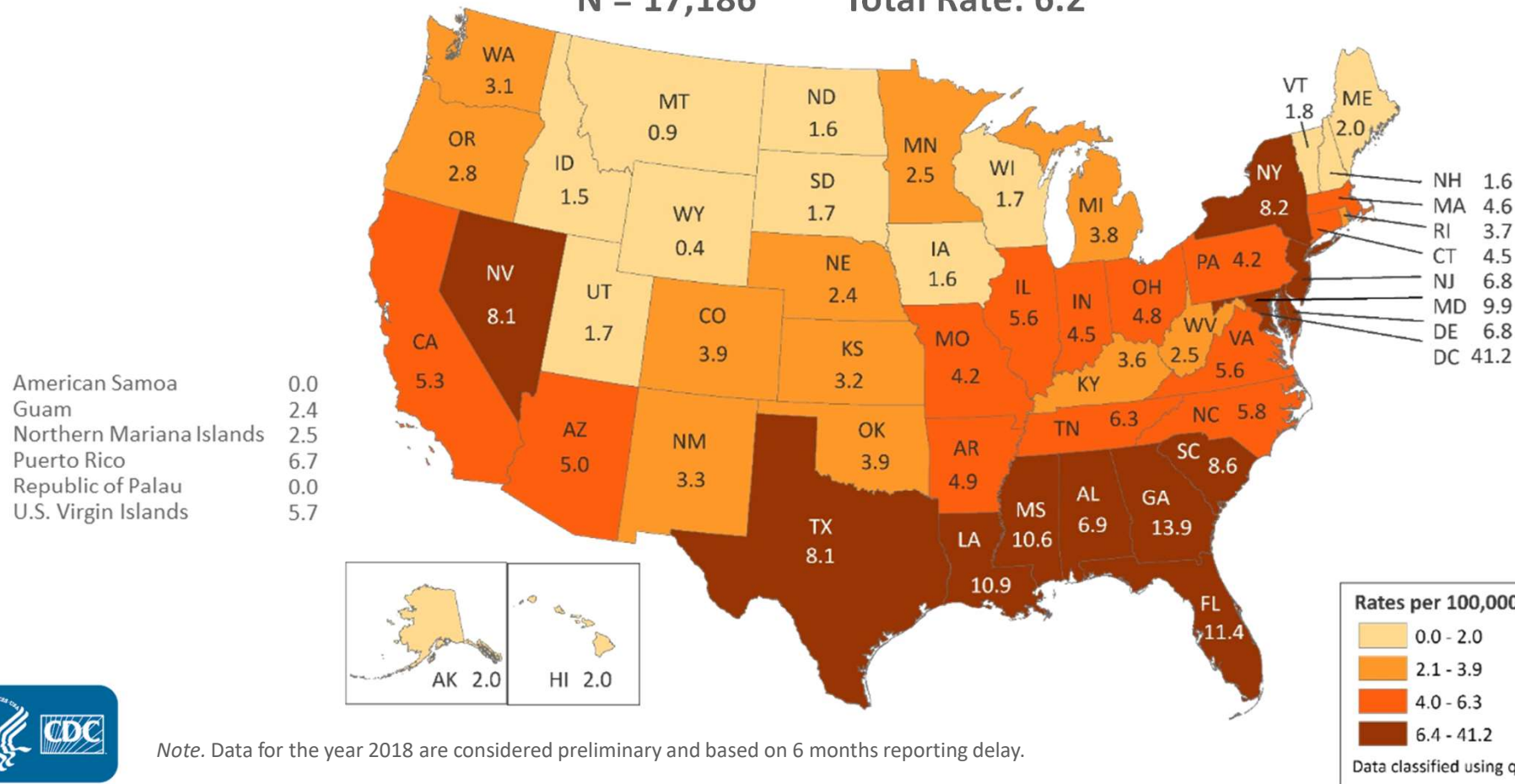
Total Rate = 10.9



Note. Data for the year 2018 are considered preliminary and based on 6 months reporting delay.

# Rates of Diagnosed HIV Infection Classified as Stage 3 (AIDS) among Adults and Adolescents, by Area of Residence, 2018—United States and 6 Dependent Areas

N = 17,186      Total Rate: 6.2



Note. Data for the year 2018 are considered preliminary and based on 6 months reporting delay.

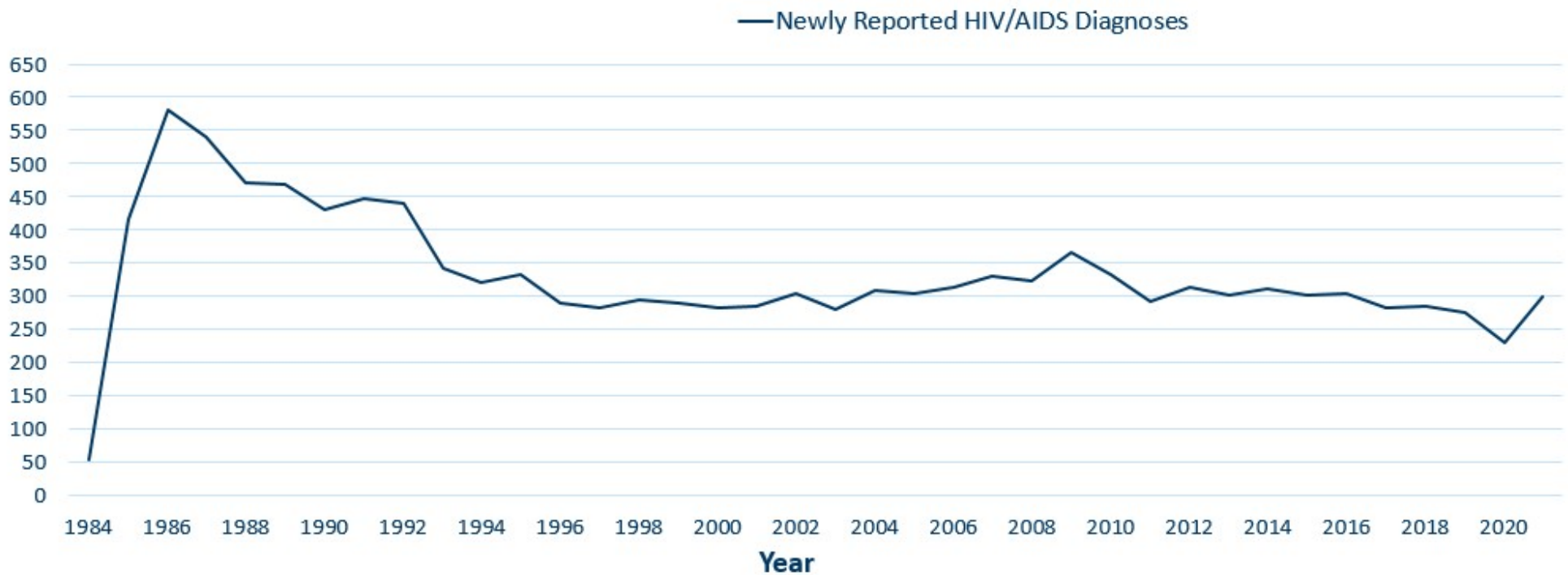


# Overview of HIV/AIDS in Minnesota



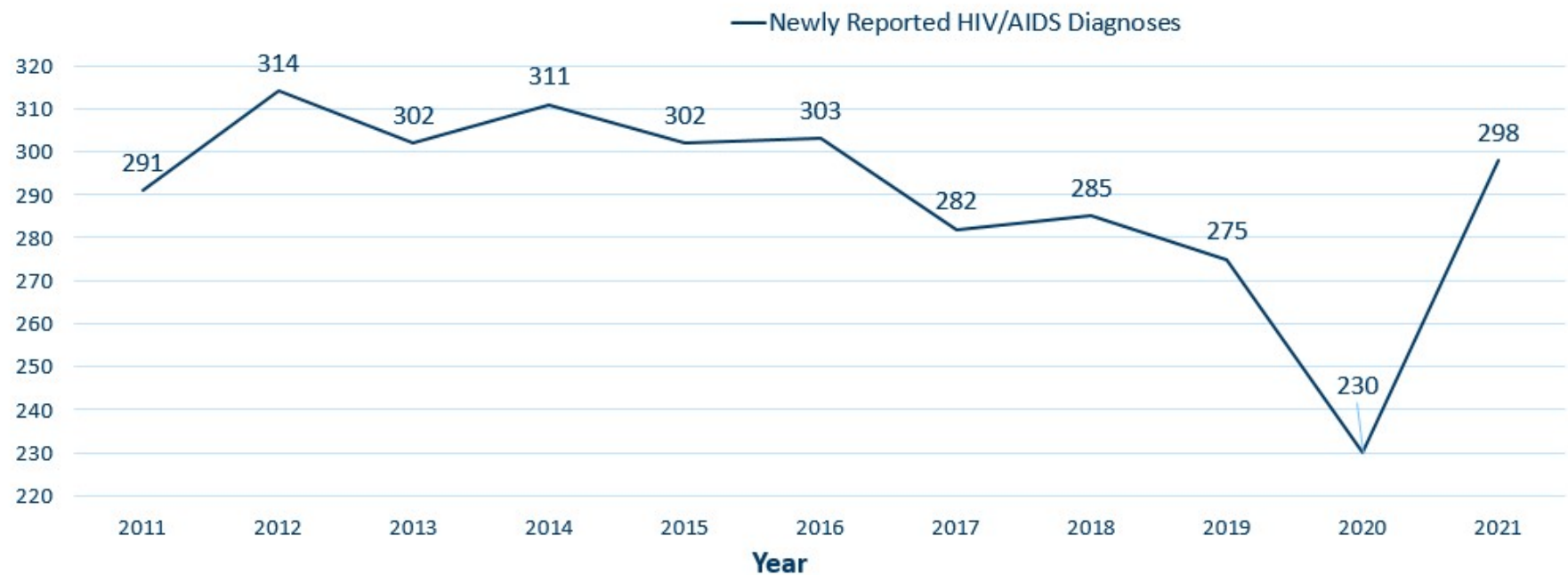
# New HIV Disease Diagnoses\*

## HIV/AIDS Cases by Year, 1991-2021

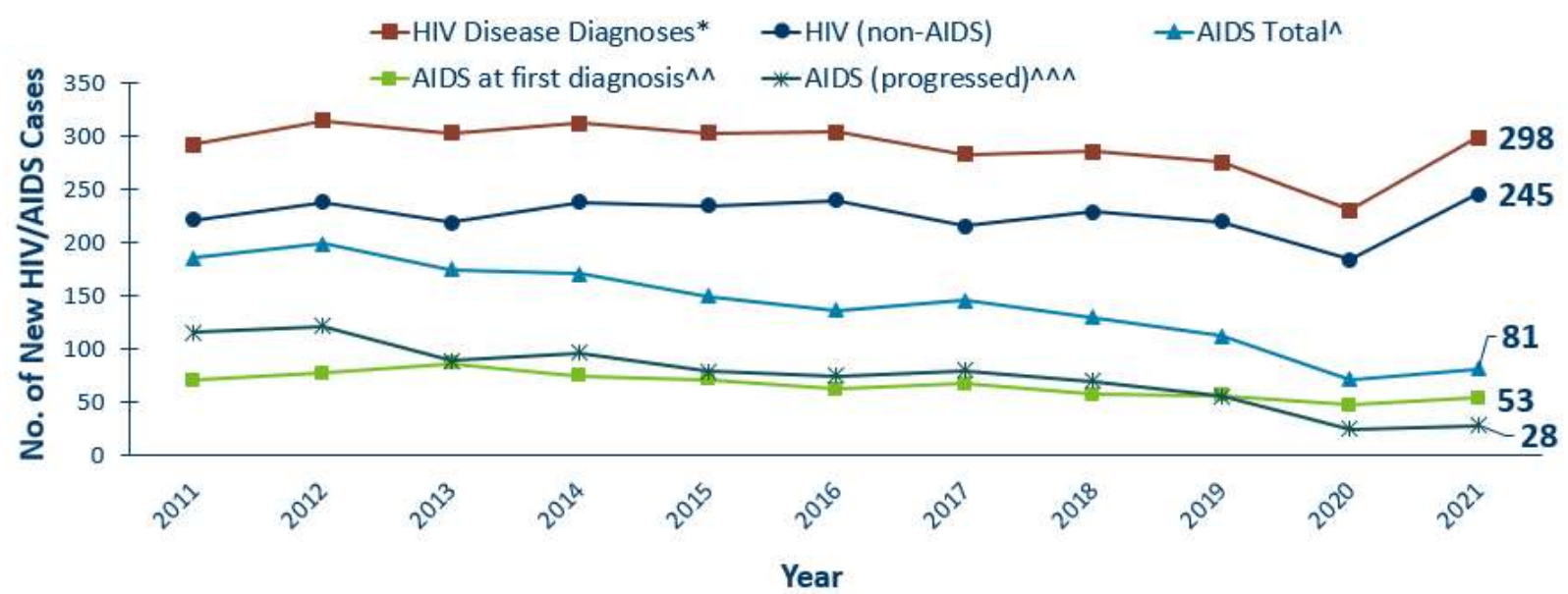


# New HIV Disease Diagnoses\*

## HIV/AIDS Cases by Year, 2011-2021

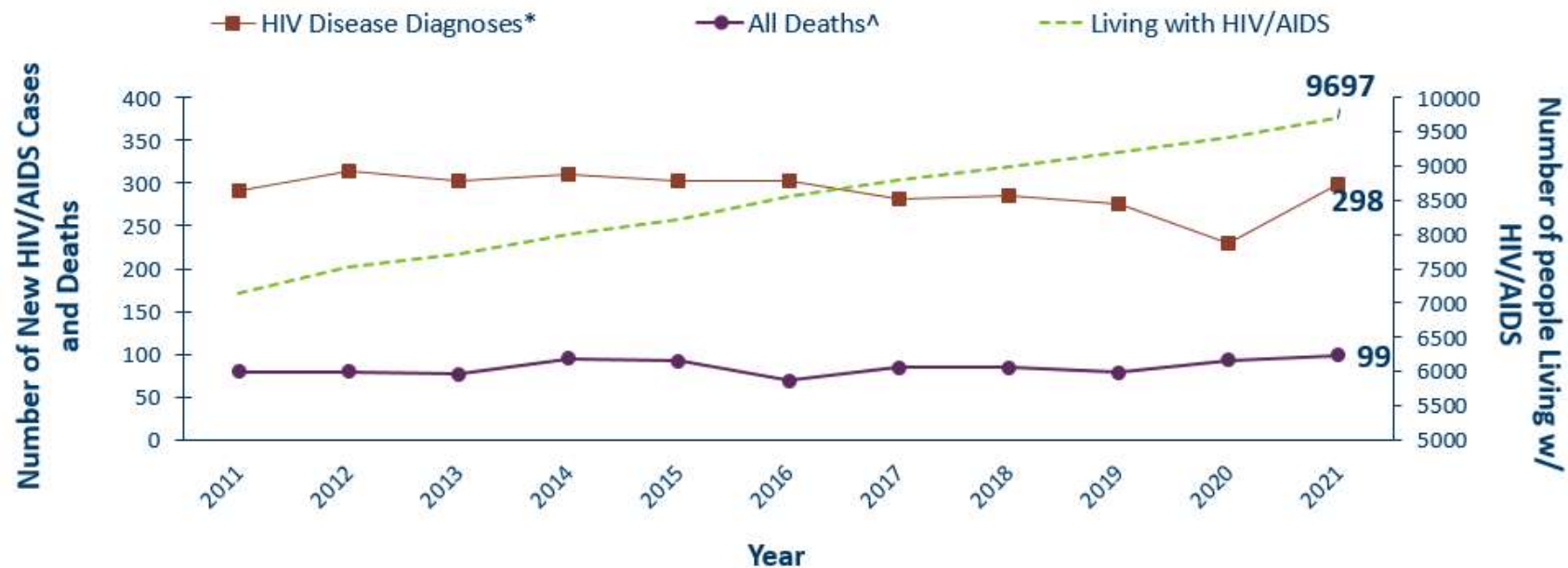


# New HIV Diagnoses, HIV (non-AIDS) and AIDS Cases by Year of HIV Diagnosis, 2011-2021



\*Includes all new cases of HIV infection (both HIV (non-AIDS) and AIDS at first diagnosis diagnosed within a given calendar year.  
^Includes all cases diagnosed with HIV in that year who subsequently progressed to AIDS diagnosis status, including those diagnosed with AIDS when they were first diagnosed with HIV^^ and those who were diagnosed with AIDS in subsequent years^^^  
This includes refugees in the HIV+ Resettlement Program, as well as, other refugee/immigrants diagnosed with AIDS subsequent to their arrival in the United States.

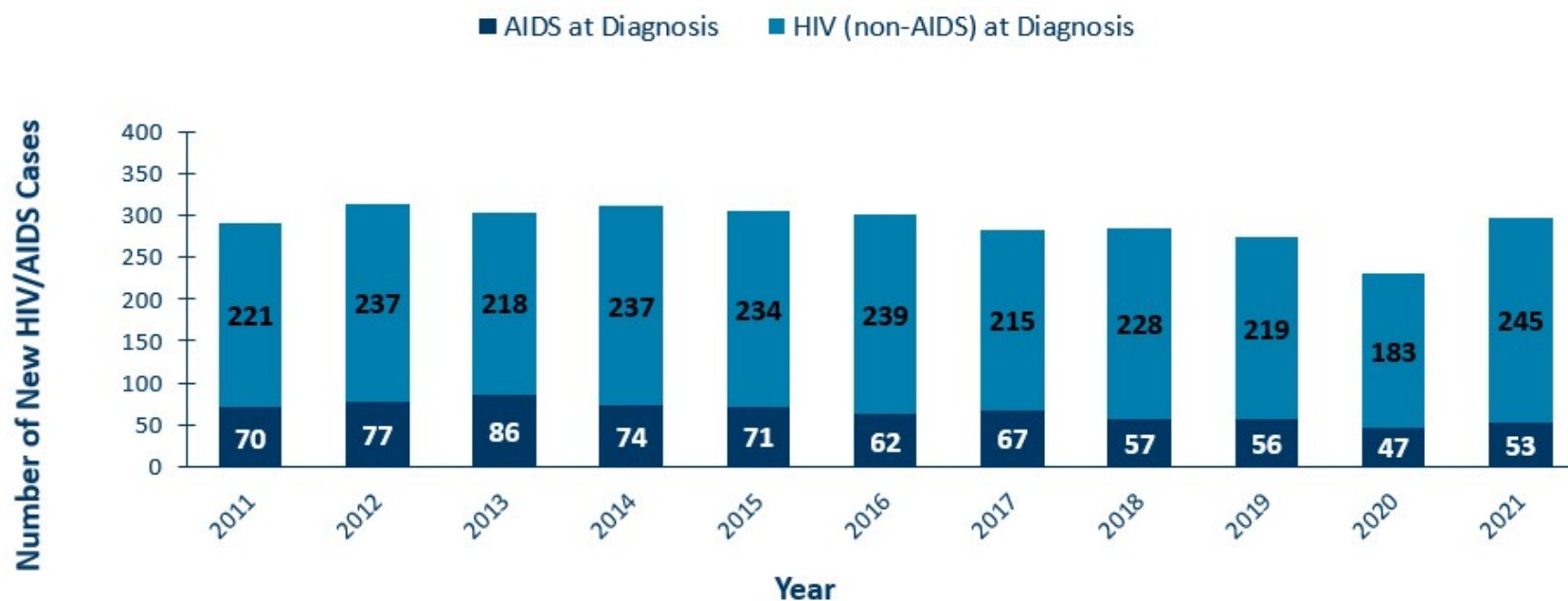
# New HIV Diagnoses, Deaths and Prevalent Cases by Year, 2011-2021



Includes all new cases of HIV infection (both HIV (non-AIDS) and AIDS at first diagnosis) diagnosed within a given calendar year.

^Deaths in Minnesota among people with HIV/AIDS, regardless of location of diagnosis and cause.

# HIV (non-AIDS) and AIDS^ at Diagnosis by Year, 2011-2021



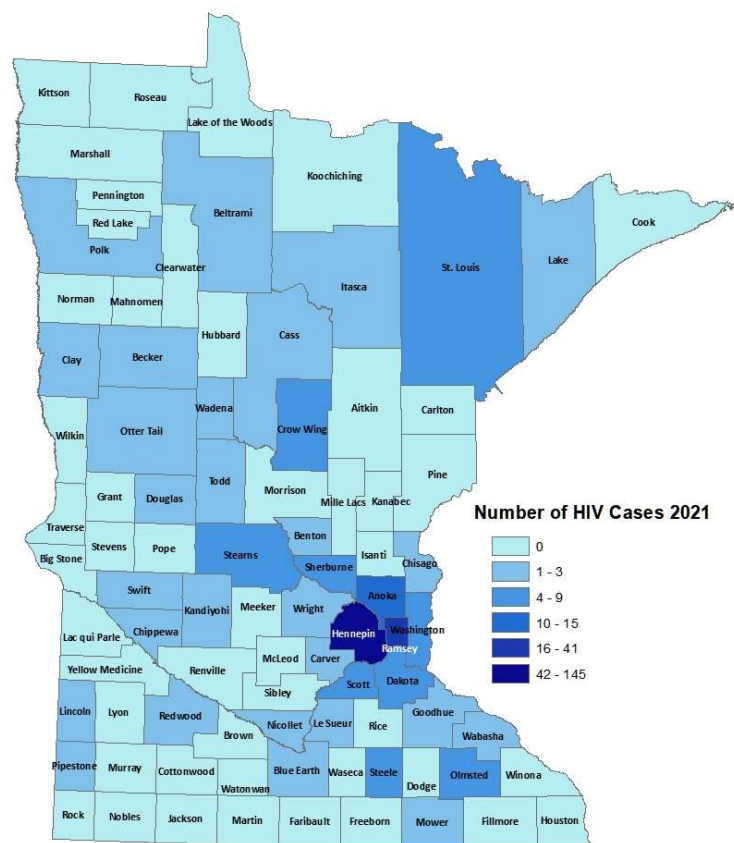
^Includes all new cases of HIV that were diagnosed with HIV and AIDS simultaneously

This includes refugees in the HIV+ Resettlement Program, as well as, other refugee/immigrants diagnosed with AIDS subsequent to their arrival in the United States.

# HIV Diagnoses in Minnesota by Person, Place, and Time

Place

# HIV Diagnoses<sup>#</sup> by County of Residence at Diagnosis, 2021



City of Minneapolis	93 cases (31%)
City of St. Paul	34 cases (11%)
Suburban*	95 cases (32%)
Greater Minnesota	76 cases (26%)
Total	298 cases

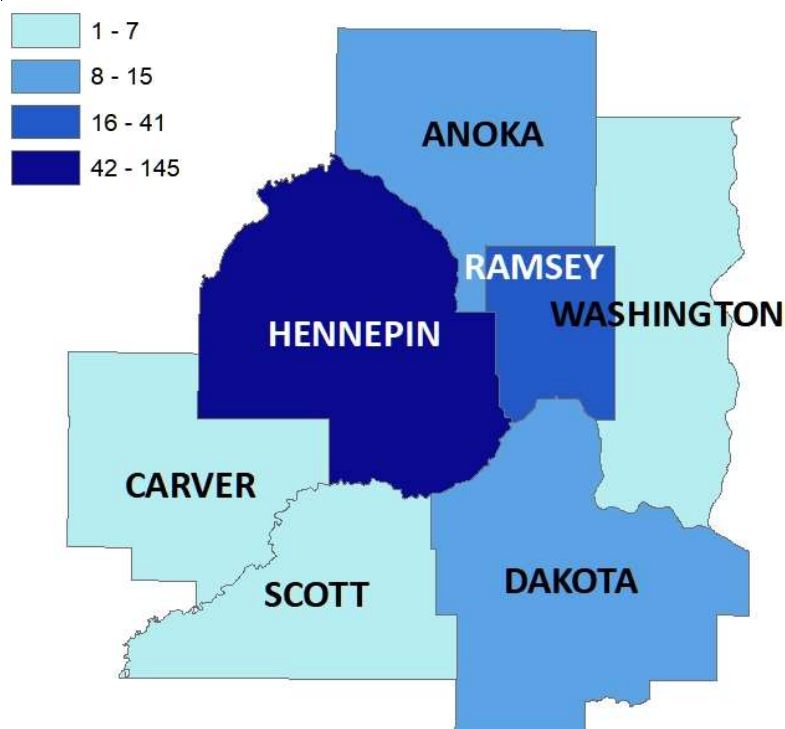
<sup>#</sup>HIV or AIDS at first diagnosis

\*7-county metro area, excluding the cities of Minneapolis and St. Paul



# 2021 Minnesota HIV New Diagnoses by Metro County

Number of HIV Cases 2021, Seven County Metro Region

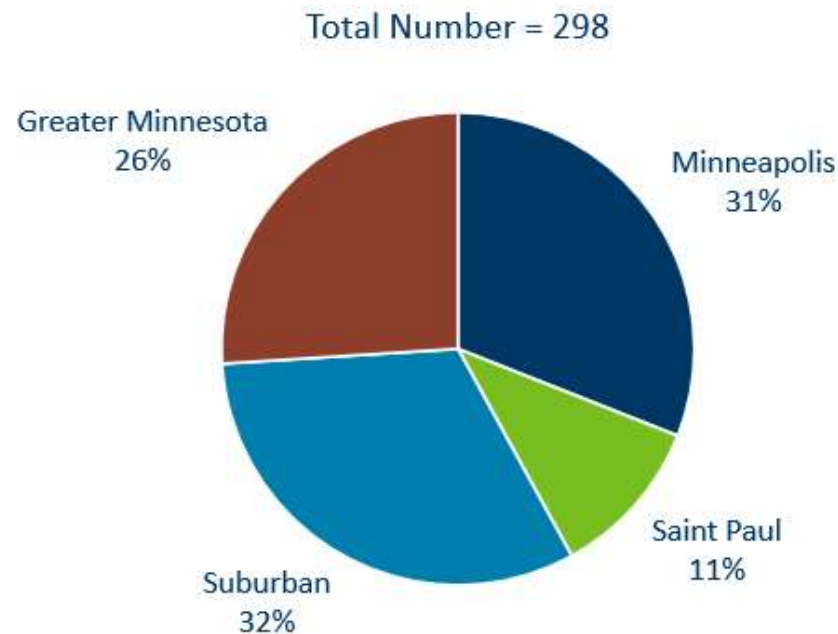


City of Minneapolis	93 cases (31%)
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Suburban*	95 cases (32%)
Greater Minnesota	76 cases (26%)
Total	298 cases

HIV or AIDS at first diagnosis

\*7-county metro area, excluding the cities of Minneapolis and St. Paul

# HIV Diagnoses\* in Minnesota by Residence at Diagnosis, 2021

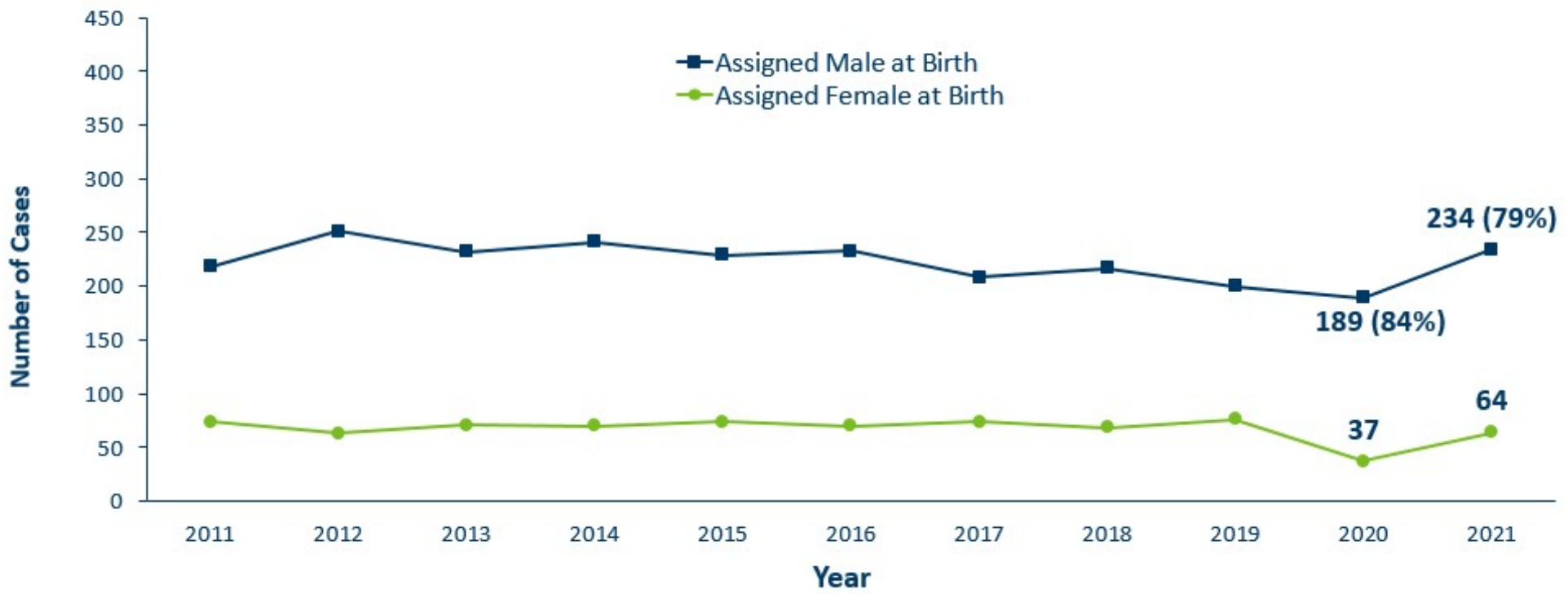


\*Suburban includes the 7-county metro area of Anoka, Carver, Dakota, Hennepin (except Minneapolis), Ramsey (except St. Paul), Scott, and Washington counties. Greater Minnesota includes all other counties outside of the 7-county metro area.

# Sex at Birth, Gender, and Race/Ethnicity

# HIV Diagnoses\* by Sex Assigned at Birth and Year of Diagnosis

## 2011 - 2021



# Number of Cases and Rates (per 100,000 people) of HIV Diagnoses\* by Race/Ethnicity<sup>†</sup> Minnesota, 2021

Race/Ethnicity	Cases	%	Rate
American Indian	10	3%	18.0
Asian/Pacific Islander	12	4%	5.5
Black, African-born <sup>†</sup>	46	15%	36.5 <sup>††</sup>
Black, not African-born	78	26%	53.8
Hispanic	43	14%	17.2
White, non-Hispanic	104	35%	2.4
Other <sup>^</sup>	5	2%	5.0
<b>Total</b>	<b>298</b>	<b>100%</b>	<b>5.6</b>

\* HIV or AIDS at first diagnosis; 2010 U.S. Census Data used for rate calculations.

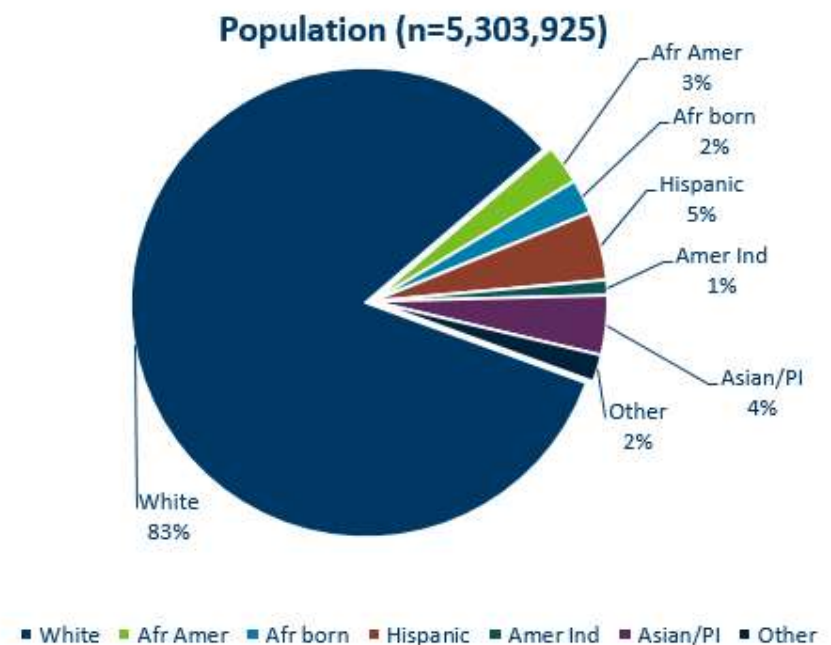
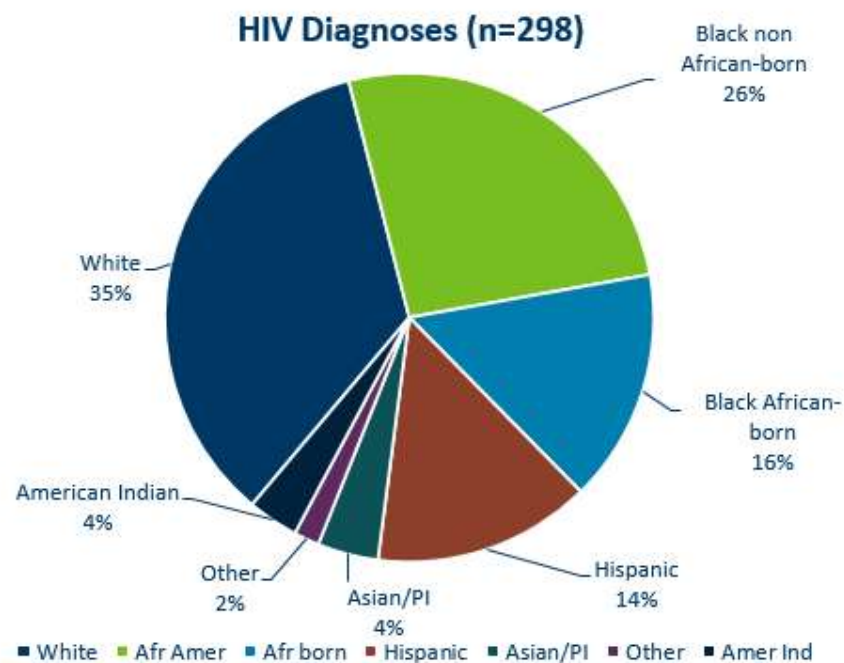
<sup>†</sup> “Black African-born” refers to Black people who reported an African country of birth; “Black not African-born” refers to all other Black people.

<sup>††</sup> Estimate of 125,939 Source: 2019 American Community Survey.

<sup>^</sup> Other = Multi-racial people or people with unknown or missing race

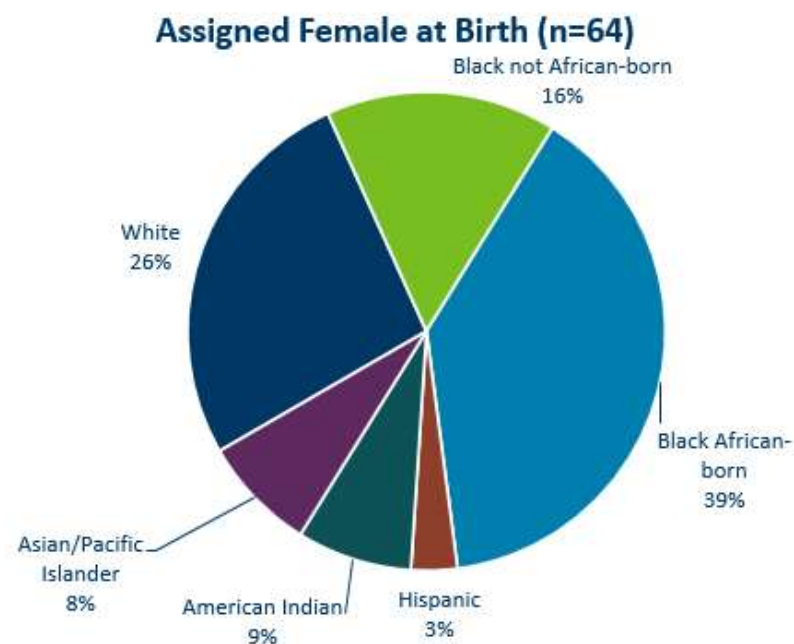
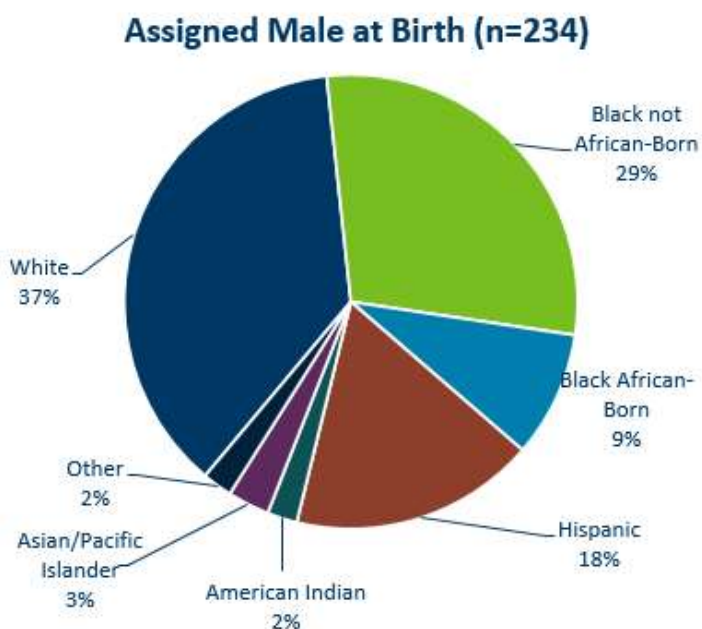
# Unable to calculate rate, unknown denominator

# HIV Diagnoses\* in Year 2021 and General Population in Minnesota by Race/Ethnicity



\* HIV or AIDS at first diagnosis † Population estimates based on 2010 U.S. Census data. (n = Number of people)

# HIV Diagnoses\* Diagnosed in Year 2021 by Sex Assigned at Birth and Race/Ethnicity†



\*HIV or AIDS at first diagnosis (n = Number of people)

†"Black African-born" refers to Black people who reported an African country of birth; "Black not African-born" refers to all other Black people. Cases with unknown race are excluded.

# HIV Diagnoses\* Among People Assigned Male Sex at Birth by Race/Ethnicity† and Year of Diagnosis 2011 - 2021

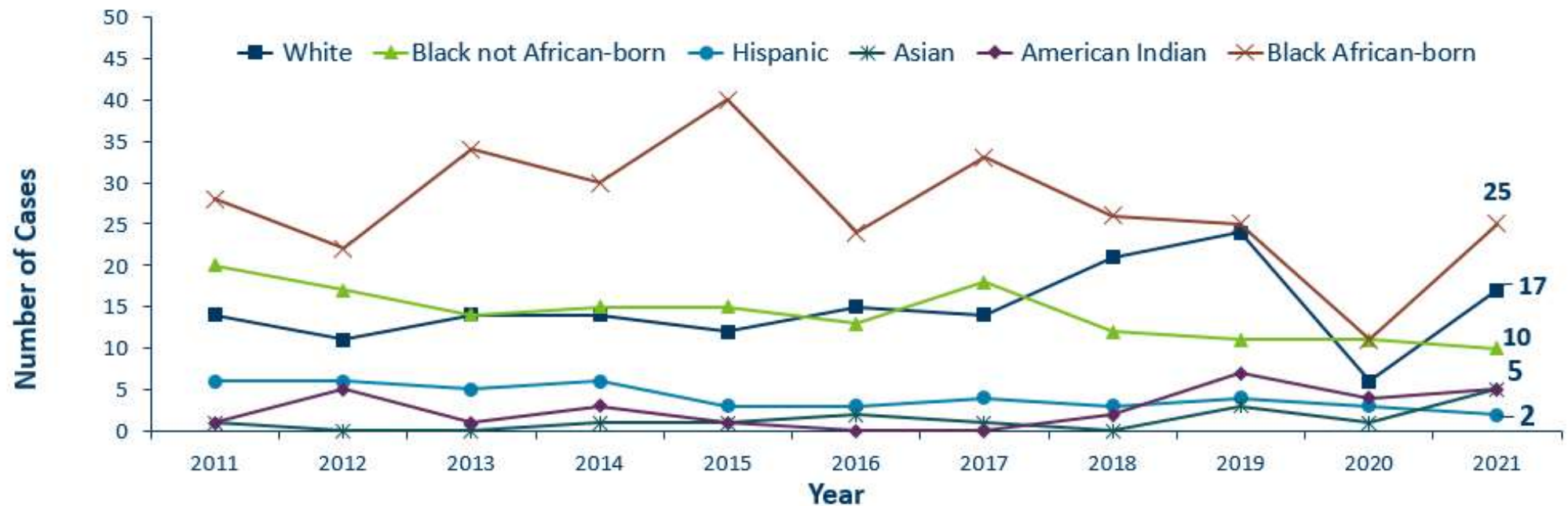


\* HIV or AIDS at first diagnosis

† “African-born” refers to Black people who reported an African country of birth; “African American” refers to all other Black people. Cases with unknown or multiple races are excluded.



# HIV Diagnoses\* Among People Assigned Female Sex at Birth by Race/Ethnicity† and Year of Diagnosis 2011 - 2021



\* HIV or AIDS at first diagnosis

† “Black African-born” refers to Black people who reported an African country of birth; “Black not African-born” refers to all other Black people. Cases with unknown race are excluded.

# Number of Cases and Rates (per 100,000 people) of Adults and Adolescents\* Diagnosed with HIV/AIDS by Sex Assigned at Birth and Risk<sup>†</sup> in Minnesota, 2021

Sex / Risk behavior	Number of Cases	Percent of Total	Rate per 100,000 <sup>^</sup>
<b>Assigned Male at Birth</b>	234	79%	8.9
<i>MSM<sup>†</sup></i>	125	42%	<i>137.9<sup>††</sup></i>
<i>Non-MSM</i>	109	37%	<i>4.1</i>
<b>Assigned Female at Birth</b>	64	21%	2.4
<b>Total</b>	<b>298</b>	<b>100%</b>	<b>5.6</b>

\*HIV or AIDS at first diagnosis ages 13 and older.

<sup>^</sup>2010 United States Census Data used for rate calculations, except where otherwise specified.

<sup>†</sup>MSM refers to both MSM and MSM/IDU risk identified at time of reported HIV diagnosis. It includes all PLWH assigned the sex of male at birth who report a male sexual partner. Therefore, some Trans Women are included in both the total number of cases and the population estimate.

<sup>††</sup>Estimate of 90,663 Source: <http://www.emorycamp.org/item.php?i=92>

# Number of Cases of Adults and Adolescents\* Diagnosed with HIV/AIDS by Gender Identity in Minnesota, 2021

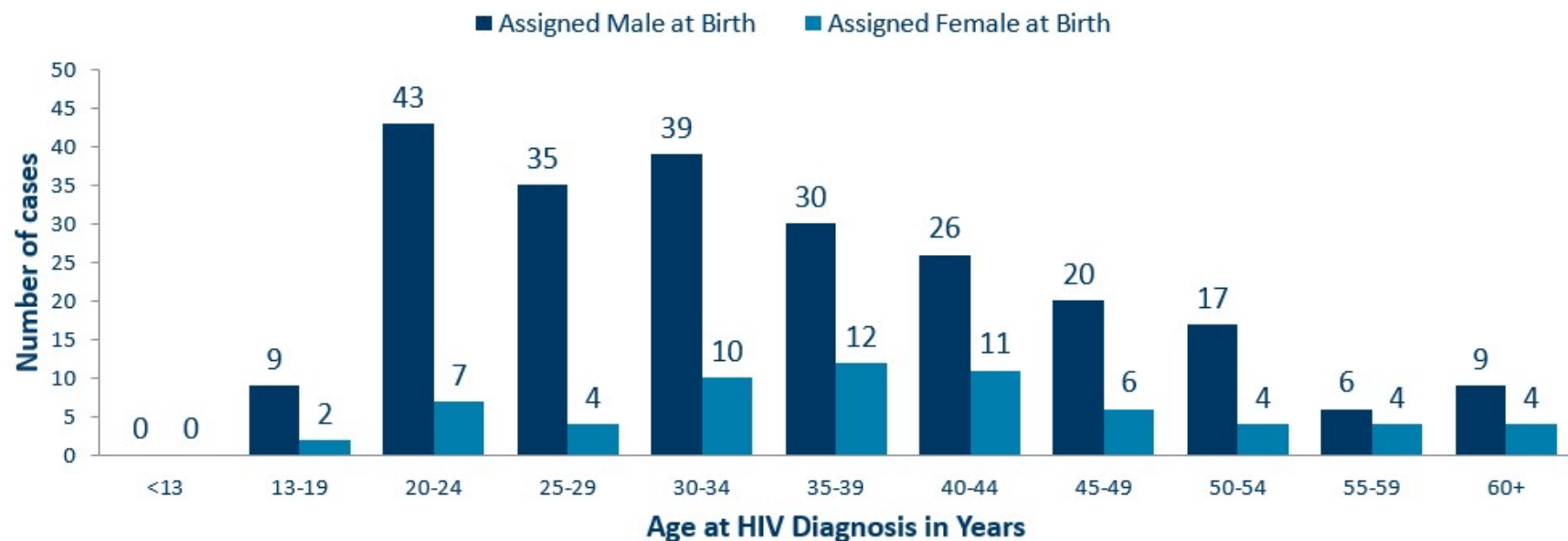
Gender Identity	Number of Cases	Percent of Total
Cisgender Men	222	74%
Cisgender Women	64	21%
<b>Transgender<sup>††</sup> (Total)</b>	<b>12</b>	<b>4%</b>
<i>Trans Women</i>	<i>11</i>	<i>4%</i>
<i>Trans Men</i>	<i>0</i>	<i>0%</i>
<i>Other Transgender</i>	<i>1</i>	<i>&lt;1%</i>
<b>Total</b>	<b>298</b>	<b>100%</b>

\*HIV or AIDS at first diagnosis ages 13 and older.

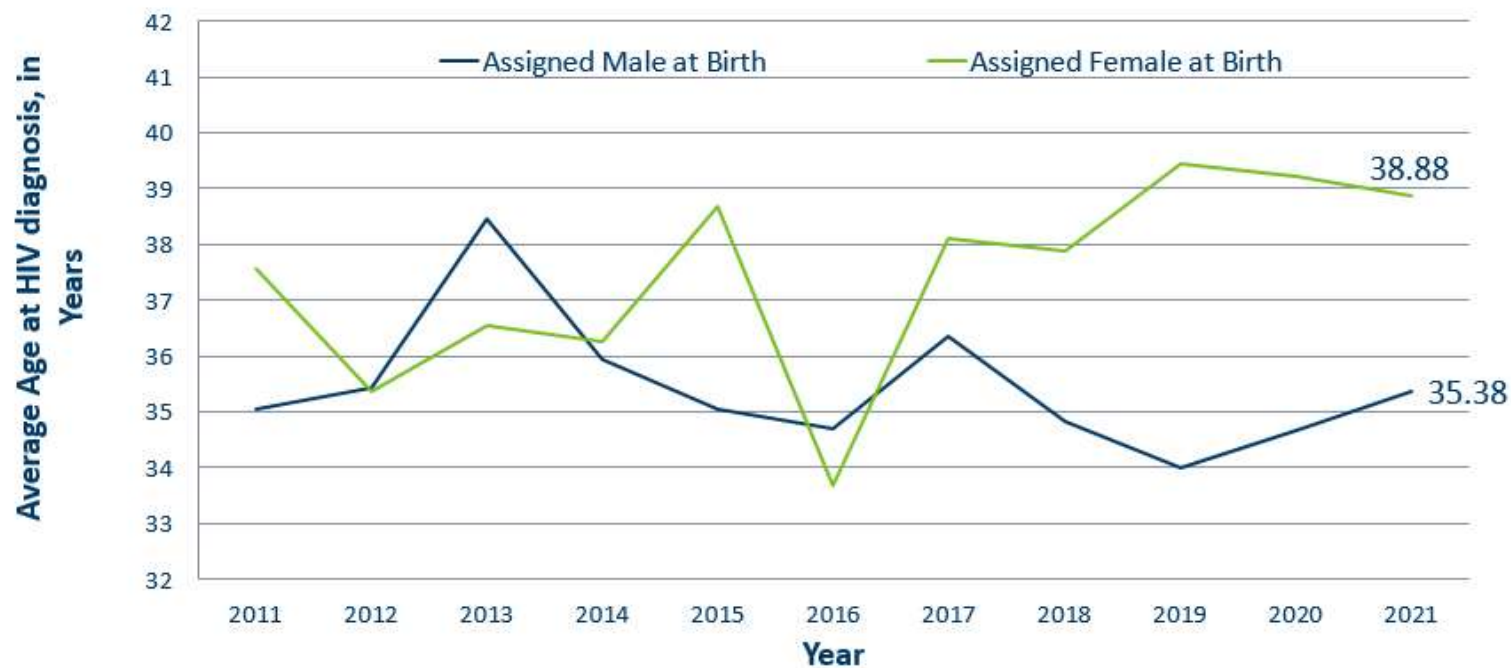
††Current gender was not reportable until 2009, so may be incomplete for HIV infections reported before that time. Because current gender is incomplete for a large number of cases, there may be misclassification of transgender Minnesotans in either of the cisgender groups.

Age

# Age at HIV Diagnosis\* by Sex Assigned at Birth, Minnesota, 2021

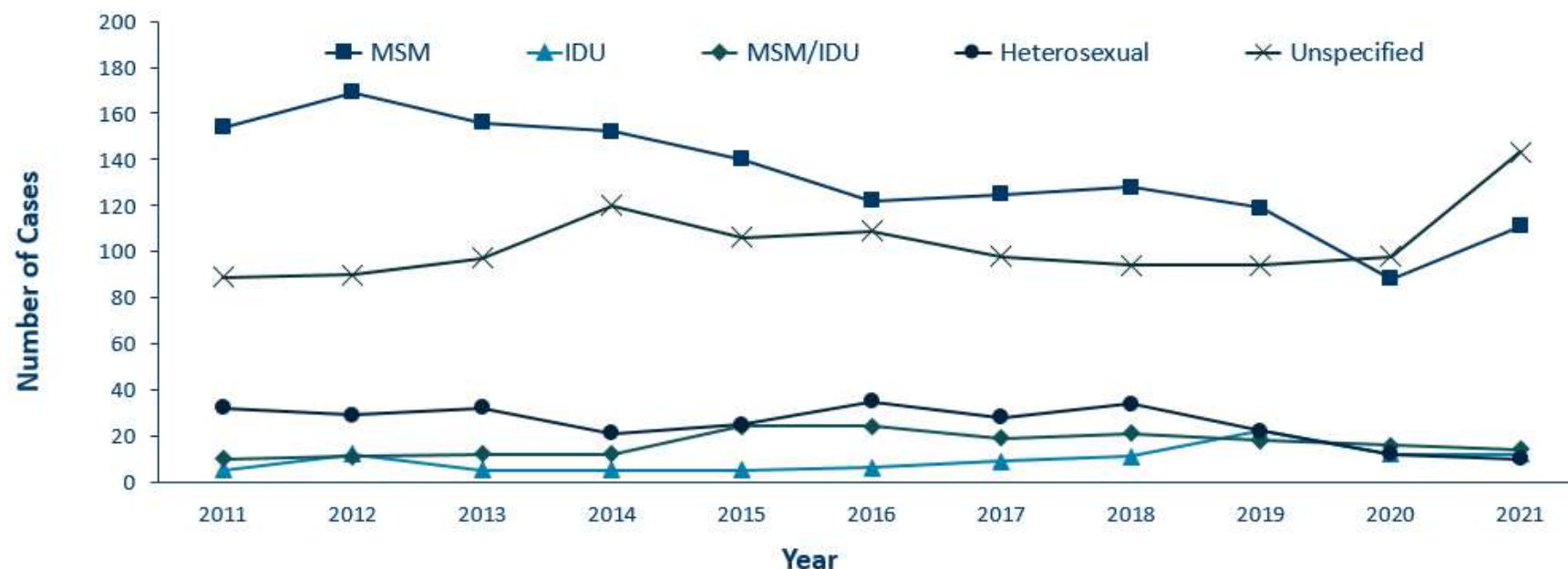


# Average Age at HIV Diagnosis\* by Sex Assigned at Birth, 2011-2021



# Mode of Exposure

# HIV Diagnoses\* by Mode of Exposure and Year, 2011 – 2021



\*HIV or AIDS at first diagnosis

MSM = Men who have sex with men

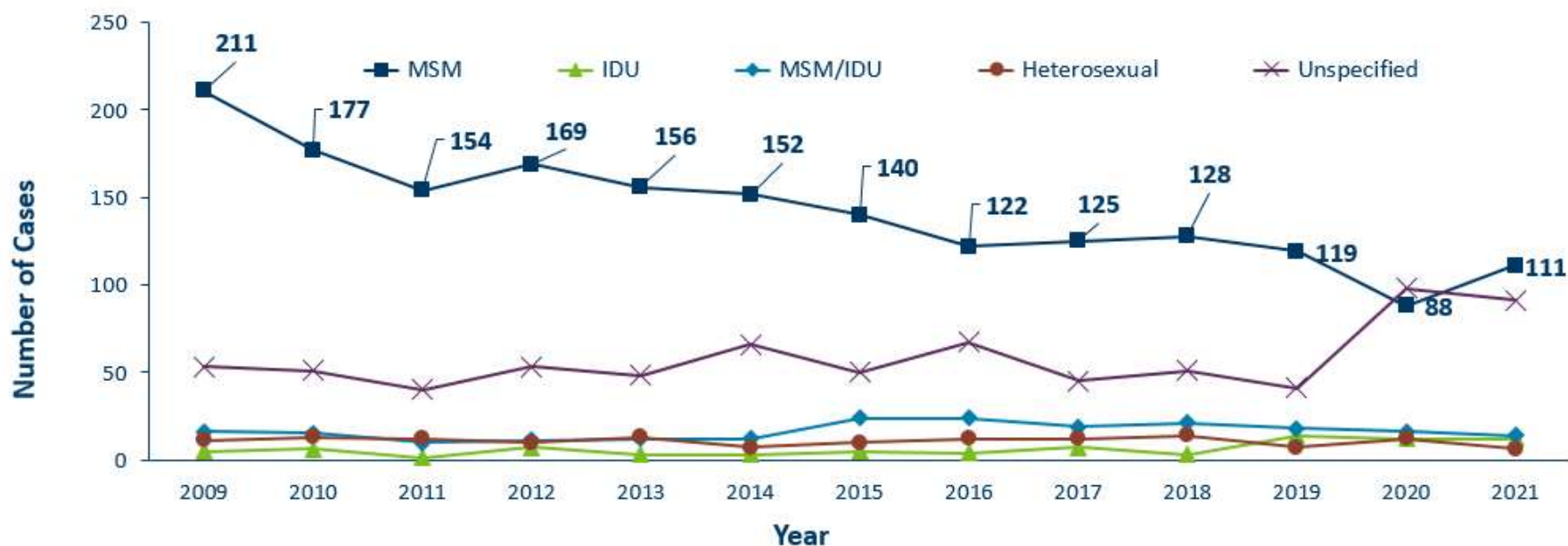
IDU = Injection drug use

Heterosexual = Heterosexual contact

Unspecified = No mode of exposure ascertained



# HIV Diagnoses\* Among People Assigned Male Sex at Birth by Mode of Exposure and Year 2011 - 2021



\* HIV or AIDS at first diagnosis

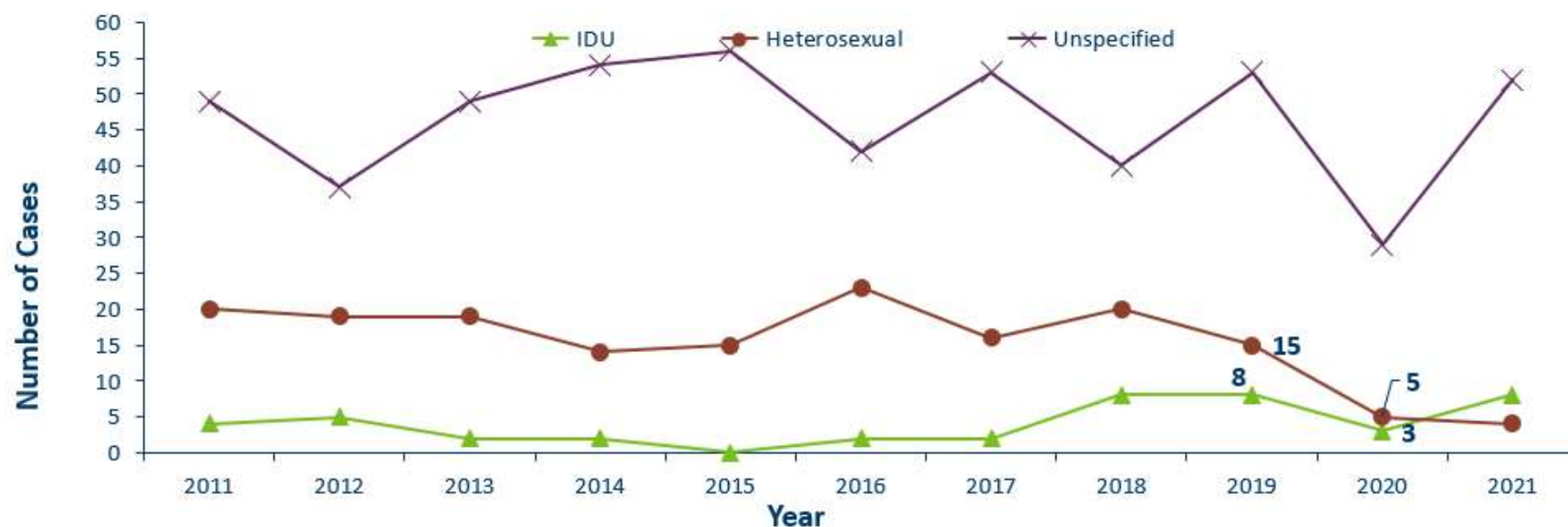
MSM = Men who have sex with men

IDU = Injection drug use

Heterosexual = Heterosexual contact

Unspecified = No mode of exposure ascertained

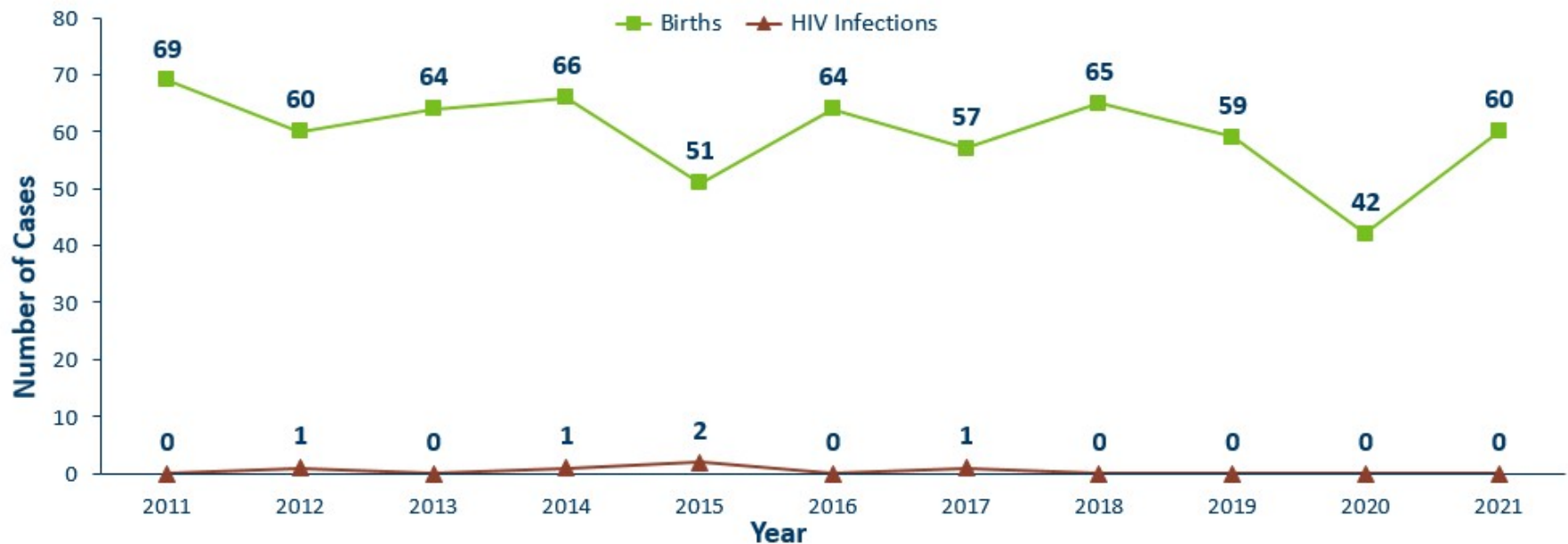
# HIV Diagnoses\* Among People Assigned Female Sex at Birth by Mode of Exposure and Year of Diagnosis 2010 - 2020



\* HIV or AIDS at first diagnosis

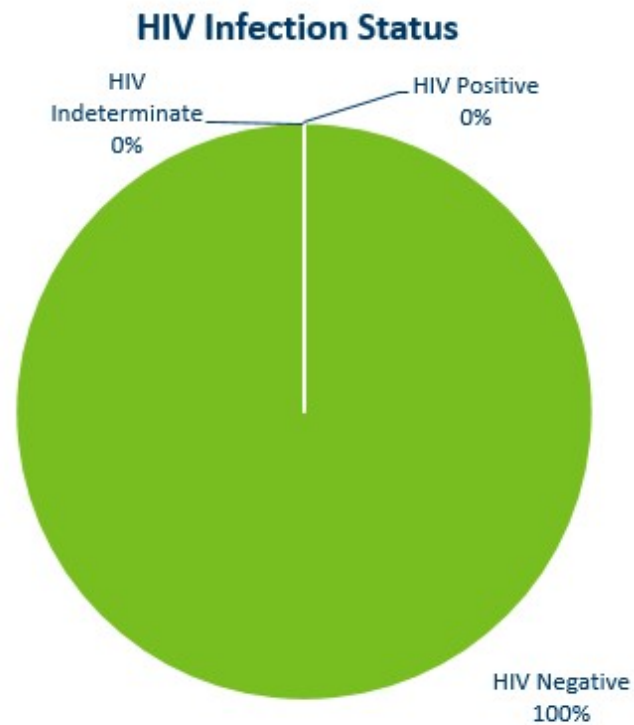
IDU = Injection drug use    Heterosexual = Heterosexual contact    Unspecified = No mode of exposure ascertained

# Births to Pregnant People Living with HIV and Number of Perinatal Acquired HIV Infections\* by Year of Birth, 2011- 2021



\* HIV or AIDS at first diagnosis for a child exposed to HIV during pregnant person's pregnancy, at birth, and/or during breastfeeding.

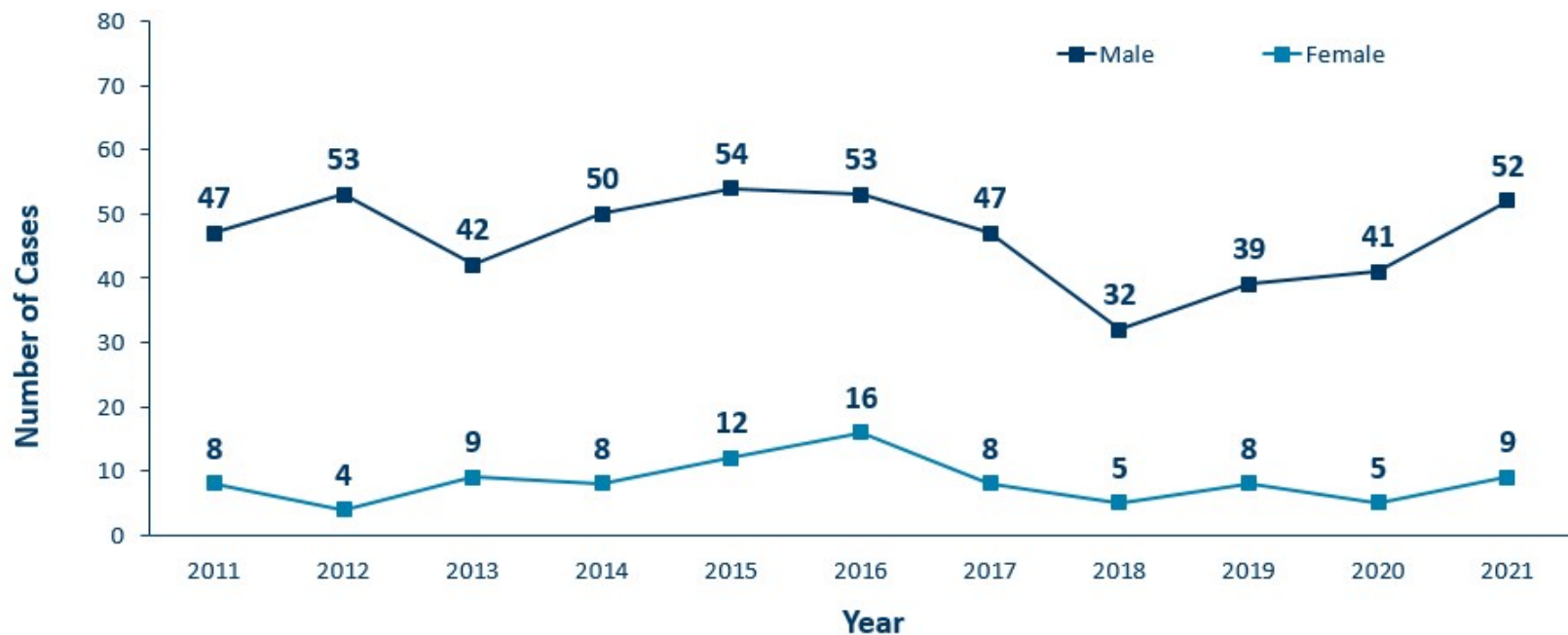
# Outcome for Perinatal HIV-Exposed Infants born in 2020



HIV Infection Status	MN births 2020	CDC Outcome Standards
Negative	100% (42)	≥ 85%
Indeterminate	0% (0)	< 15%

# Adolescents & Young Adults (Ages 13-24)\*

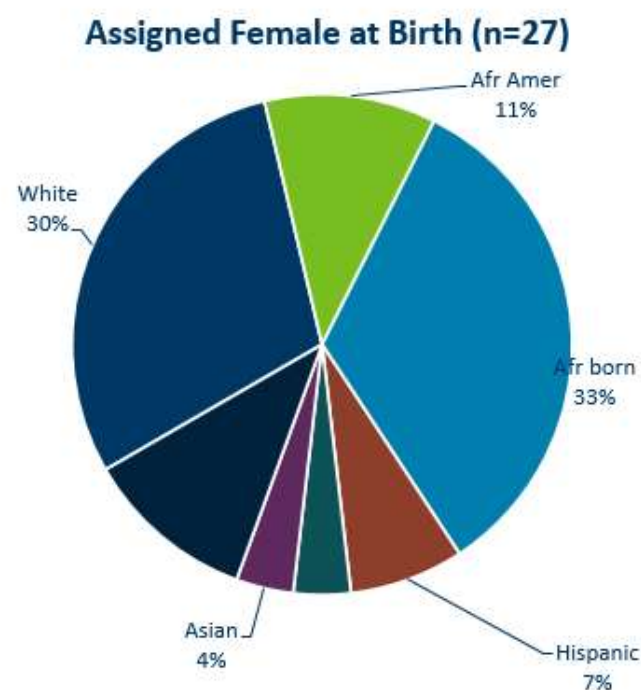
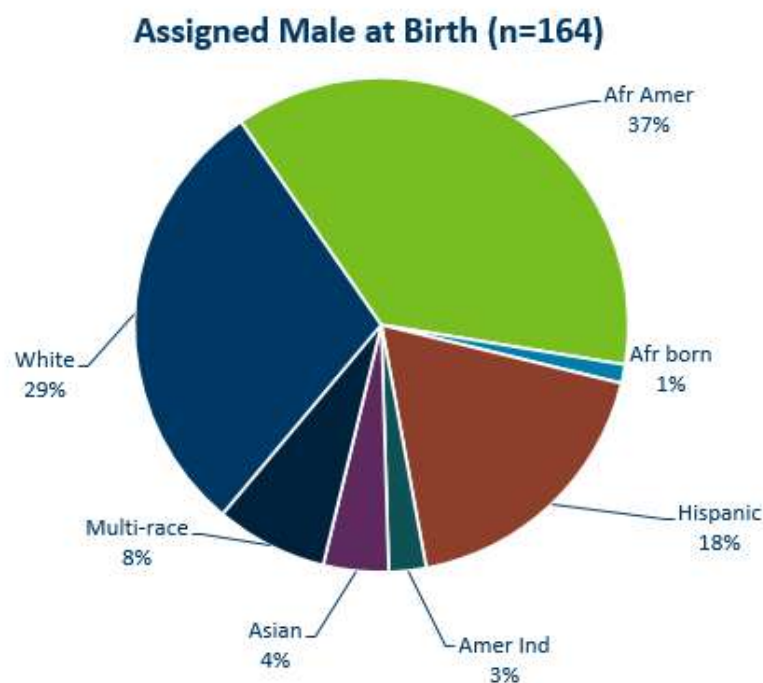
# HIV Diagnoses\* Among Adolescents and Young Adults<sup>†</sup> by Sex Assigned at Birth and Year 2011 - 2021



\* HIV or AIDS at first diagnosis

<sup>†</sup> Adolescents defined as 13-19 year-olds; Young Adults defined as 20-24 year-olds.

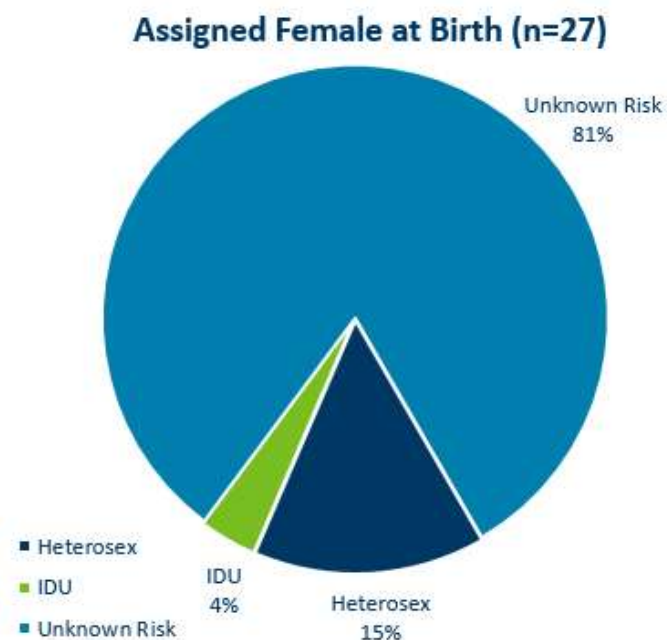
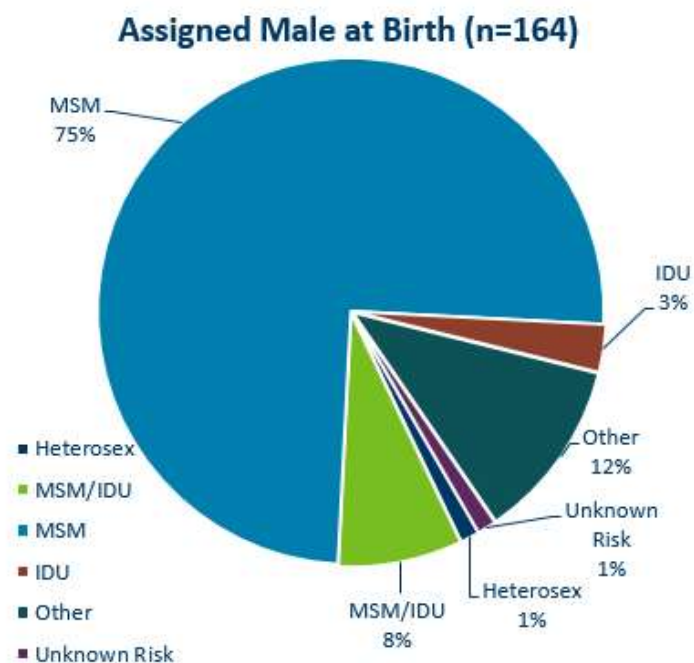
# HIV Diagnoses\* Among Adolescents and Young Adults<sup>†</sup> by Sex Assigned at Birth and Race/Ethnicity, 2018 - 2021 Combined



\* HIV or AIDS at first diagnosis (n = Number of people)

Amer Ind = American Indian , Afr Amer = African American (Black, not African-born people) , and Afr born = African-born (Black, African-born people)

# HIV Diagnoses\* Among Adolescents and Young Adults<sup>†</sup> by Sex at Birth and Exposure Group 2018 – 2021 Combined

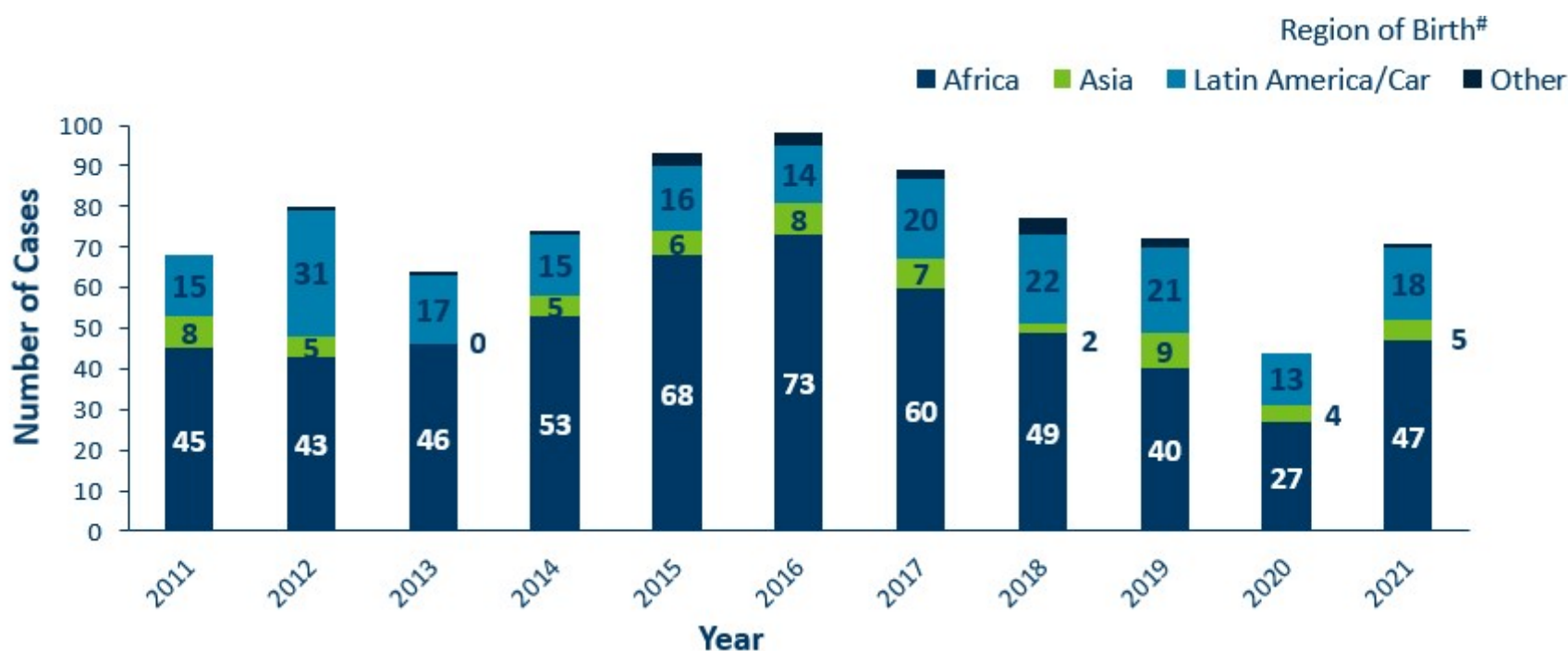


<sup>†</sup> Adolescents defined as 13-19 year-olds; Young Adults defined as 20-24 year-olds.  
 MSM = Men who have sex with men IDU = Injection drug use Heterosex = Heterosexual contact  
 n = Number of people  
 • HIV or AIDS at first diagnosis



# Foreign-born Cases

# HIV Diagnoses\* among Foreign-Born People† in Minnesota by Year and Region of Birth 2011 - 2021

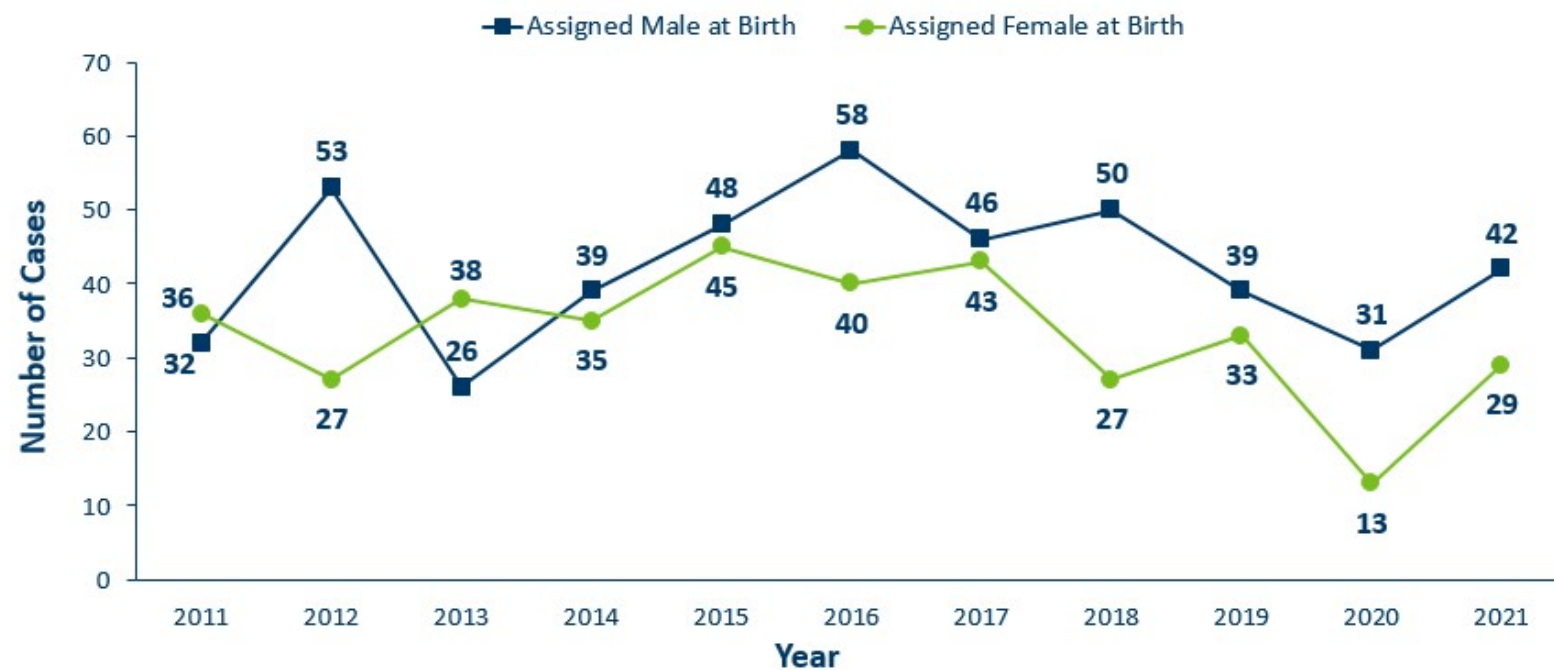


\* HIV or AIDS at first diagnosis

† Excludes persons arriving to Minnesota through the HIV+ Refugee Resettlement Program, as well as other refugee/immigrants with an HIV diagnosis prior to arrival in Minnesota.

# Latin America/Car includes Mexico and all Central, South American, and Caribbean countries.

## HIV Diagnoses\* Among Foreign-Born people<sup>†</sup> by Sex Assigned at Birth and Year 2011 – 2021



\*HIV or AIDS at first diagnosis

<sup>†</sup> Excludes people arriving in Minnesota through the HIV+ Refugee Resettlement Program, as well as other refugee/immigrants with an HIV diagnosis prior to arrival in Minnesota.

# Countries of Birth Among Foreign-Born people<sup>†</sup> Diagnosed with HIV\* Minnesota, 2021

Country	N
Liberia	16
Mexico	10
Kenya	7
Somalia	7
Cameroon	4
Ethiopia	3
Nigeria	2
United Republic of Tanzania	2
Other <sup>^</sup>	20
Total Foreign-born people	71

\* HIV or AIDS at first diagnosis

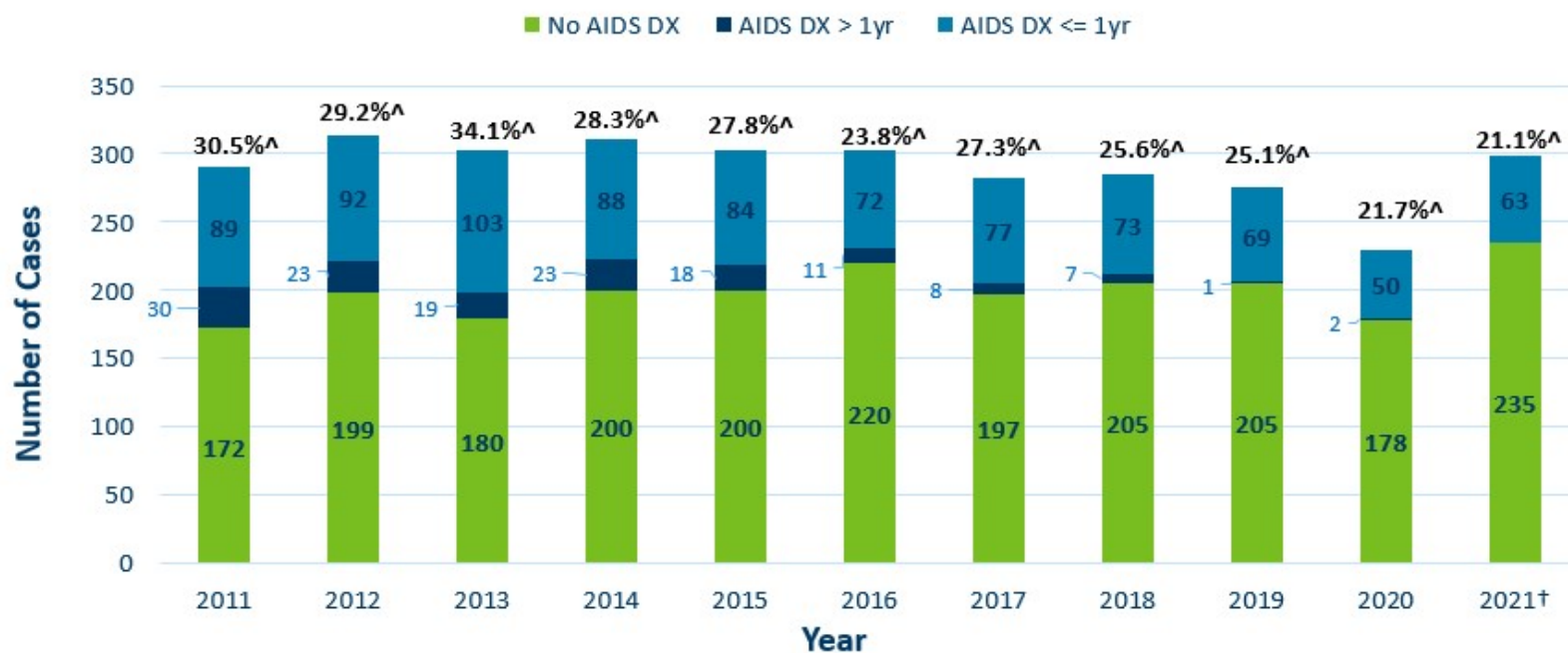
<sup>†</sup> Excludes people arriving to Minnesota through the HIV+ Refugee Resettlement Program, as well as other refugee/immigrants with an HIV diagnosis prior to arrival in Minnesota.

<sup>^</sup> Includes 20 additional countries.

# **Late-Testers**

## **(AIDS Diagnosis within one year of initial HIV Diagnosis)**

# Time of Progression to AIDS for HIV Diagnoses in Minnesota\* 2011 - 2021†

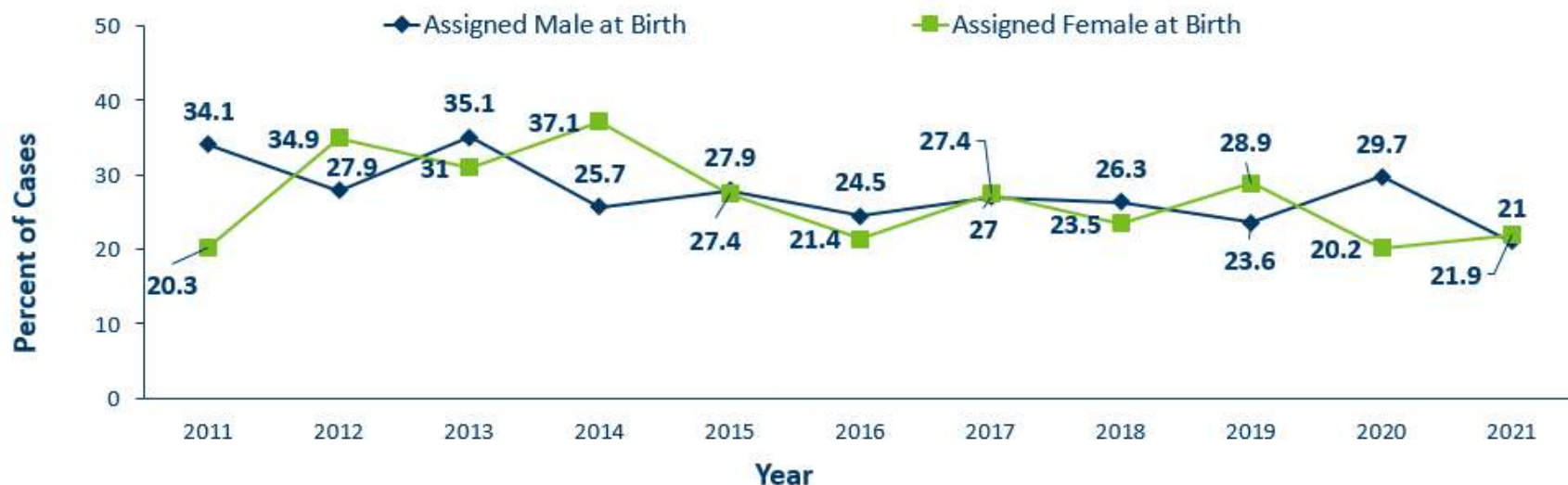


\*Numbers include AIDS at 1<sup>st</sup> report but exclude people arriving to Minnesota through the HIV+ Refugee Resettlement Program, as well as other refugee/immigrants with an HIV diagnosis prior to arrival in Minnesota.

<sup>^</sup> Percent of cases progressing to AIDS within one year of initial diagnosis with HIV

<sup>†</sup> Numbers/Percent for cases diagnosed in 2021 only represents cases progressing to AIDS through April 2022

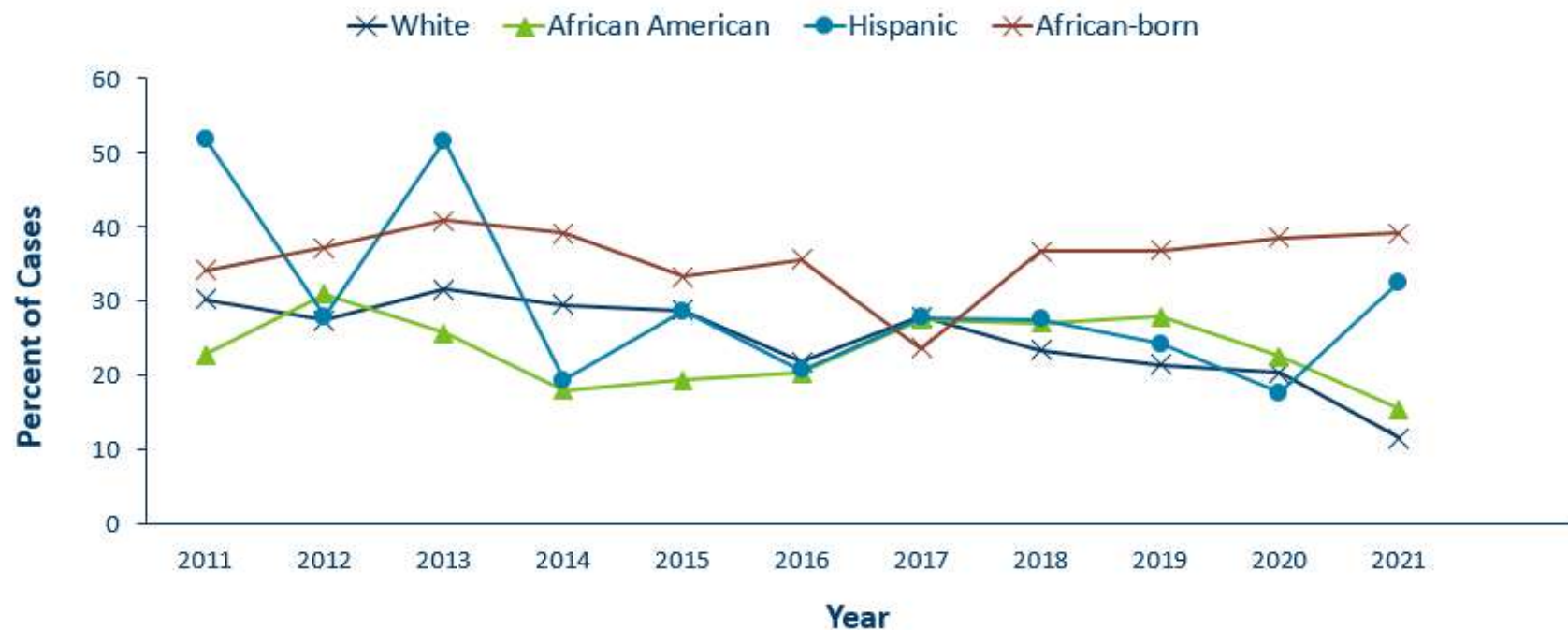
# Progression to AIDS within 1 year of initial HIV Diagnosis\* by Sex Assigned at Birth 2011 - 2021<sup>†</sup>



\*Numbers include AIDS at 1<sup>st</sup> report but exclude people arriving to Minnesota through the HIV+ Refugee Resettlement Program, as well as other refugee/immigrants with an HIV diagnosis prior to arrival in Minnesota.

<sup>†</sup> Numbers/Percent for cases diagnosed in 2021 only represents cases progressing to AIDS through April 2022

## Progression to AIDS within 1 year of initial HIV Diagnoses\* by Race/Ethnicity^ 2011 - 2021†



\*Numbers include AIDS at 1<sup>st</sup> report but exclude people arriving to Minnesota through the HIV+ Refugee Resettlement Program, as well as other refugee/immigrants with an HIV diagnosis prior to arrival in Minnesota.

† Numbers/Percent for cases diagnosed in 2021 only represents cases progressing to AIDS through April 2022.

^Percentage not calculated if less than 10 cases diagnosed per year



# Progression to AIDS within 1 year of initial HIV Diagnosis\* by Age 2011 - 2021<sup>†</sup>



\*Numbers include AIDS at 1<sup>st</sup> report but exclude people arriving to Minnesota through the HIV+ Refugee Resettlement Program, as well as other refugee/immigrants with an HIV diagnosis prior to arrival in Minnesota.

<sup>†</sup> Numbers/Percent for cases diagnosed in 2021 only represents cases progressing to AIDS through April 2022.

<sup>^</sup>Percentage not calculated if less than 10 cases diagnosed per year

# Progression to AIDS within 1 year of initial HIV Diagnosis\* by Mode of Transmission 2011 - 2021<sup>†</sup>

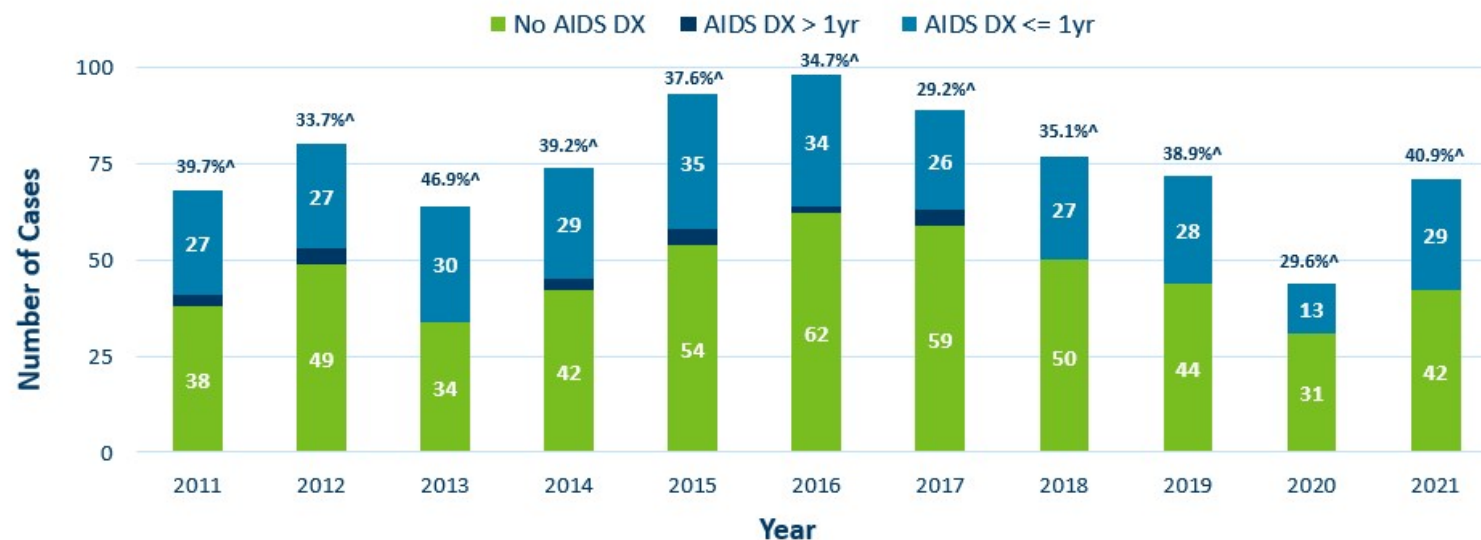


\*Numbers include AIDS at 1<sup>st</sup> report but exclude people arriving to Minnesota through the HIV+ Refugee Resettlement Program, as well as other refugee/immigrants with an HIV diagnosis prior to arrival in Minnesota.

<sup>†</sup> Numbers/Percent for cases diagnosed in 2021 only represents cases progressing to AIDS through April 2022.

<sup>^</sup>Includes MSM/IDU

# Time of Progression to AIDS for HIV Diagnoses\* Among Foreign-Born People, Minnesota 2011 - 2021



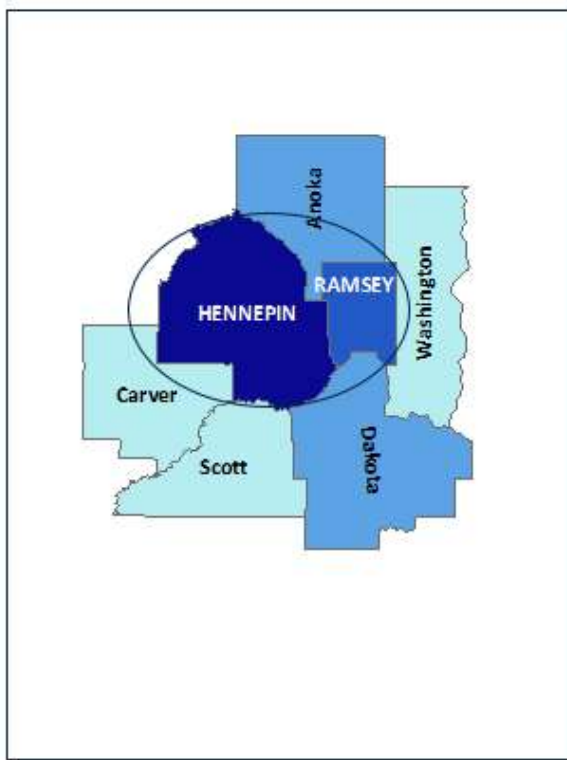
\*Numbers include AIDS at 1<sup>st</sup> report but exclude people arriving to Minnesota through the HIV+ Refugee Resettlement Program, as well as other refugee/immigrants with an HIV diagnosis prior to arrival in Minnesota.

<sup>^</sup> Percent of cases progressing to AIDS within one year of initial diagnosis with HIV

<sup>†</sup> Numbers/Percent for cases diagnosed in 2021 only represents cases progressing to AIDS through April 2022.

# Additional Topics

# HIV Outbreak in Hennepin/Ramsey Counties



## Hennepin/Ramsey Counties HIV Outbreak

- In February 2020, MDH Health Alert Network declared an outbreak among persons who inject drugs (PWID)
- Current Case Count: 101 cases
- Inclusion Criteria:
  - 51 encampment-related
  - 40 MSM/IDU
  - 10 IDU

## People at high-risk in the current outbreak:

- People who use injection drugs (PWID) or share needles/works
- People experiencing homelessness or unstable housing
- People who exchange sex for income or other items they need

# HIV Outbreak in Duluth Region



## Duluth Region HIV Outbreak

- In March 2021, MDH Health Alert Network declared an outbreak in the Duluth Region (30-mile area) among newly diagnosed HIV cases
- Current Case Count: 23 cases

## People at high-risk in the current outbreak:

- People who use injection drugs (PWID) or share needles/works
- People experiencing homelessness or unstable housing
- People who exchange sex for income or other items they need
- Men who have sex with men

# Updated webpage: Outbreak Data e-Resources

[Background](#)

[Newly Diagnosed HIV Case Counts by County](#)

[Hennepin and Ramsey County HIV Outbreak Data](#)

[Duluth Area HIV Outbreak Data](#)

## HIV Outbreak Response and Case Counts

<https://www.health.state.mn.us/diseases/hiv/stats/hiv.html>

The screenshot shows the Minnesota Department of Health website. The header includes the logo and navigation links: HOME, TOPICS, and ABOUT US. The main content area is titled "HIV/AIDS Statistics" and features a sidebar with links to "HIV/AIDS Statistics Home", "HIV Care Continuum", "Outbreak Response & Case Counts", and "Statistics" for the years 2019 through 2015. The main text area is titled "HIV Outbreak Response and Case Counts" and contains information about current HIV outbreaks in Hennepin and Ramsey counties, as well as the Duluth area. It mentions that case counts specific to each outbreak can be found below and that Minnesota HIV Case Counts by County show the incidence of new HIV cases compared to previous years. A section for "Related Topics" lists "STD Statistics". A "Subscribe to HIV/STD Prevention and Data Updates" link is also present, with a note that subscribers will receive updates on STD and HIV in Minnesota, as well as updates about the HIV outbreak in addition to other STD/HIV information.

**Subscribe** to receive our HIV/STD prevention and data e-mail updates.

# Thank you.

**HIV Surveillance Team**

*Health.HIV.Surveillance@state.mn.us*

651-201-4040