



# HIV/AIDS Incidence Report, 2020

HIV/AIDS Surveillance System

June 2021

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, 2020

# Introduction (I)

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

This slide set 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 2020 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=22]).

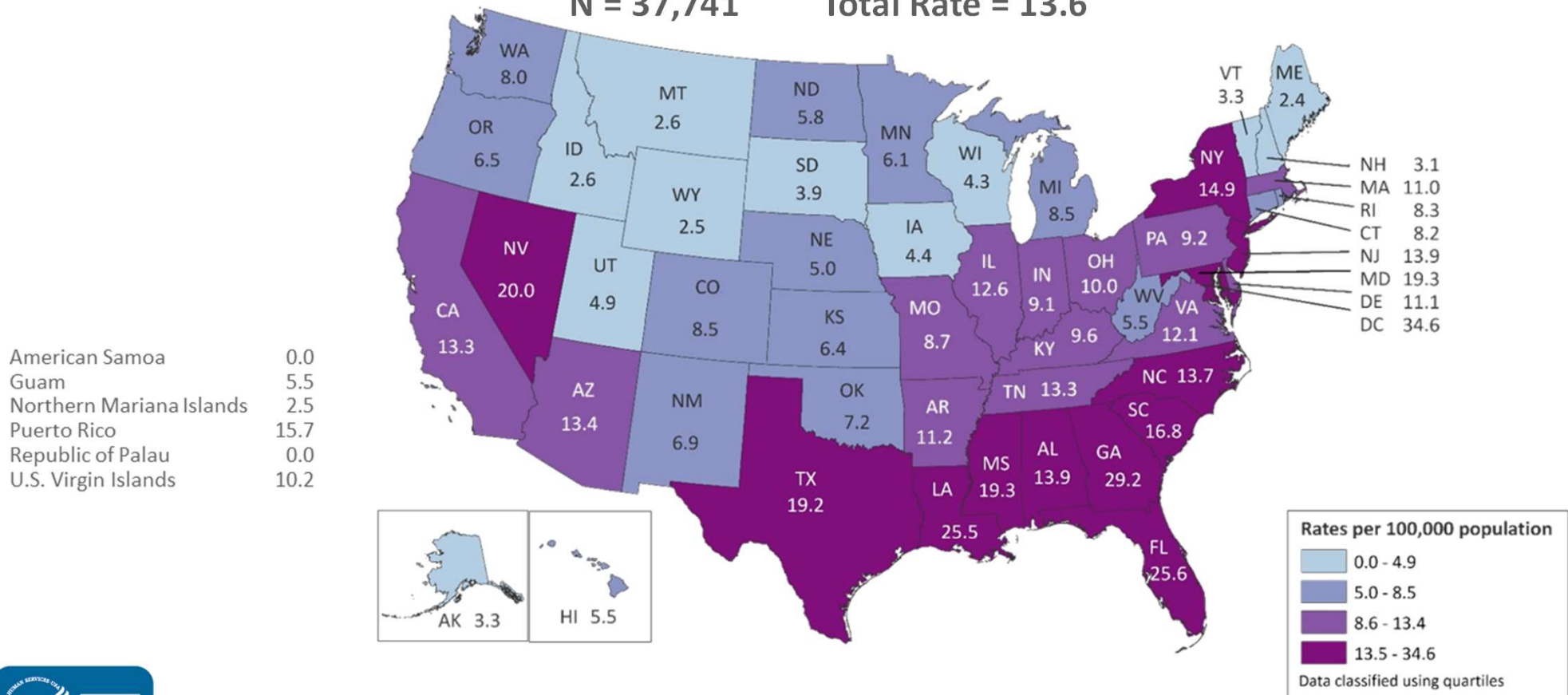
Data analyses for new HIV diagnoses exclude people arriving to Minnesota through the HIV+ Refugee Resettlement Program (number of primary HIV+ refugees in this program living in MN as of December 31, 2020 = 167), as well as, other refugees/immigrants reporting a positive test prior to their arrival in 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 and Adolescents 2018—United States and 6 Dependent Areas

N = 37,741      Total Rate = 13.6

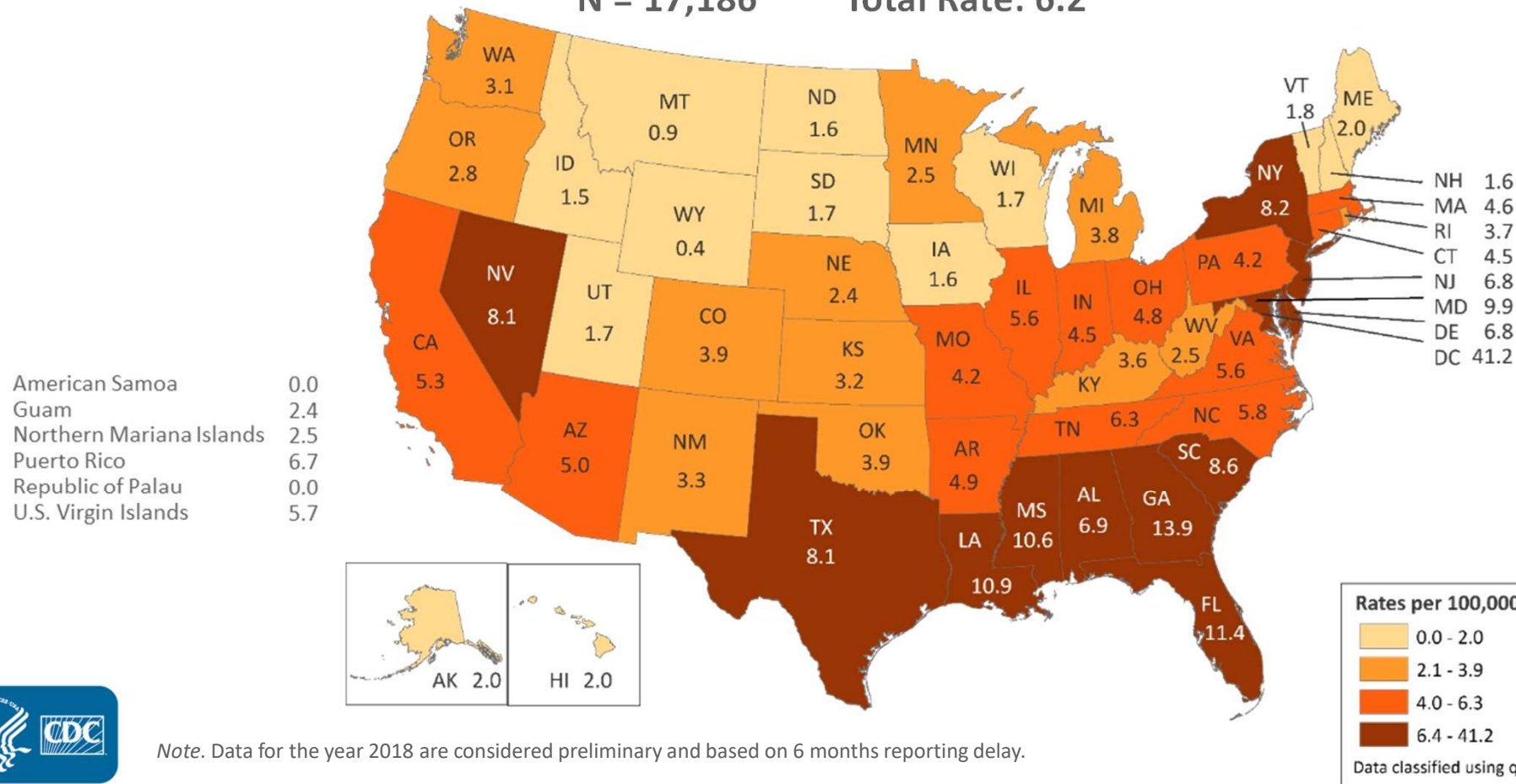


Note. Data for the year 2018 are considered preliminary and based on 6 months reporting delay.

## 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**

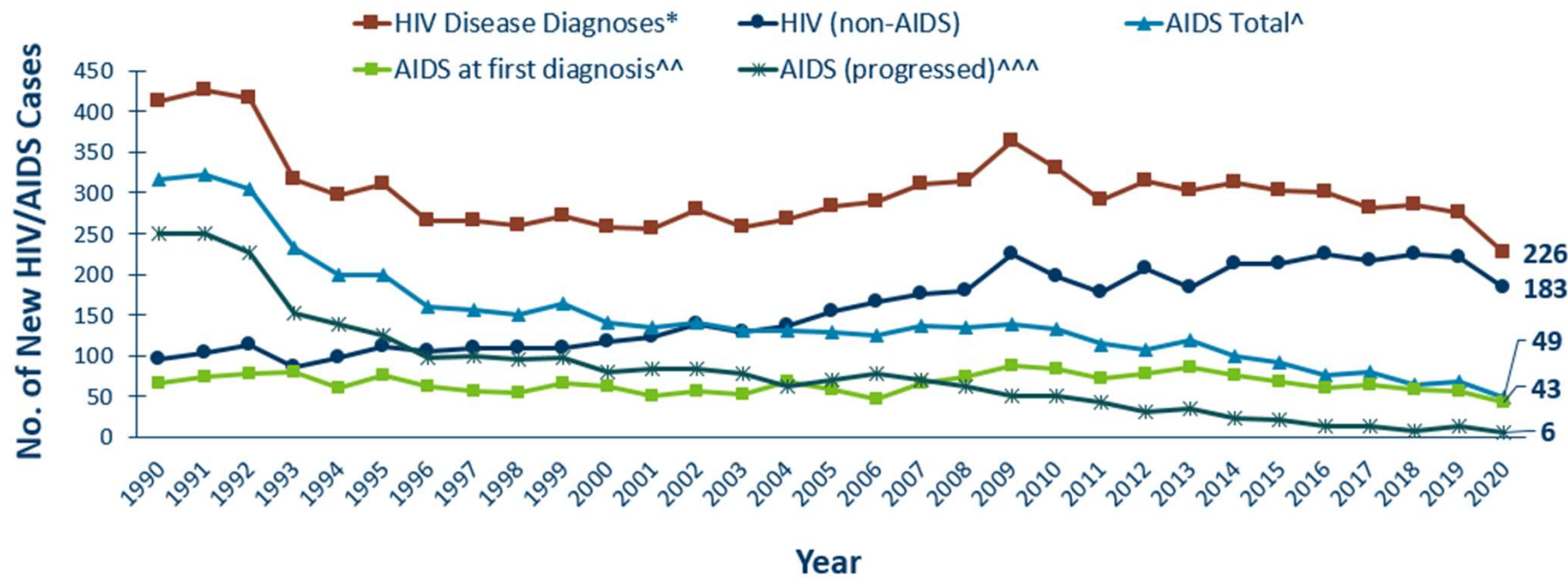
**Total Rate: 6.2**



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

# Overview of HIV/AIDS in Minnesota

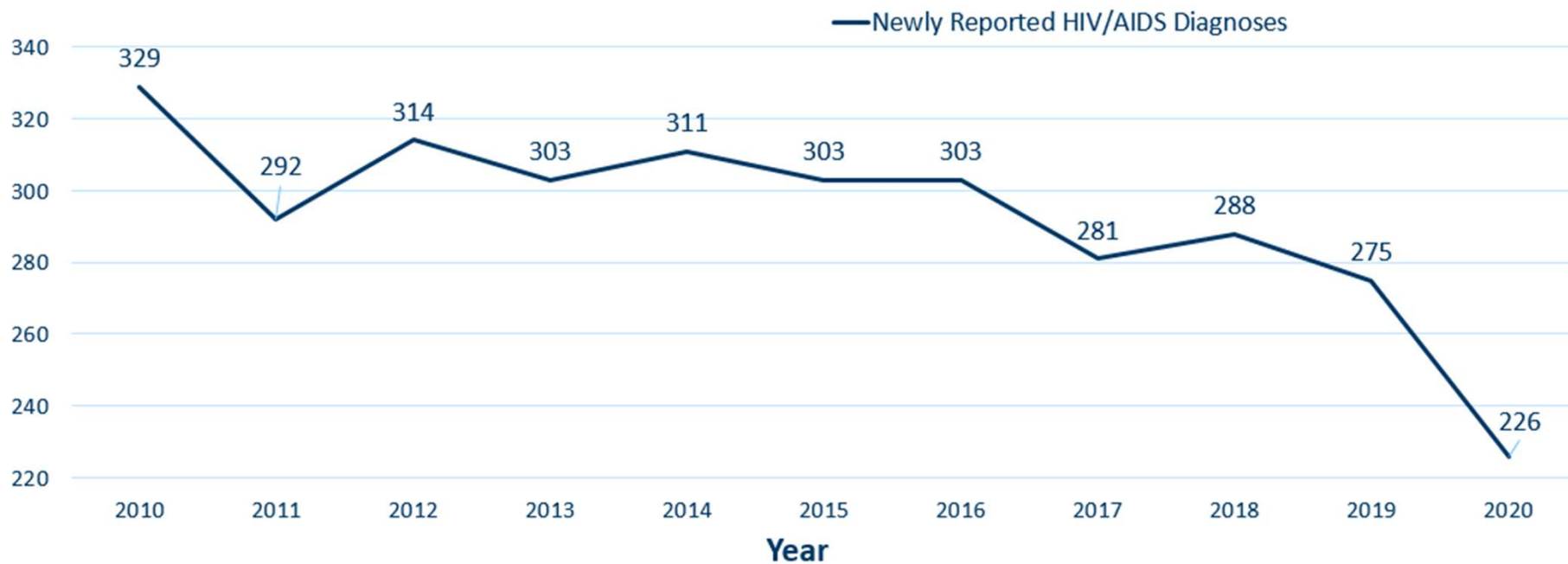
# New HIV Diagnoses, HIV (non-AIDS) and AIDS Cases by Year of HIV Diagnosis, 1990-2020



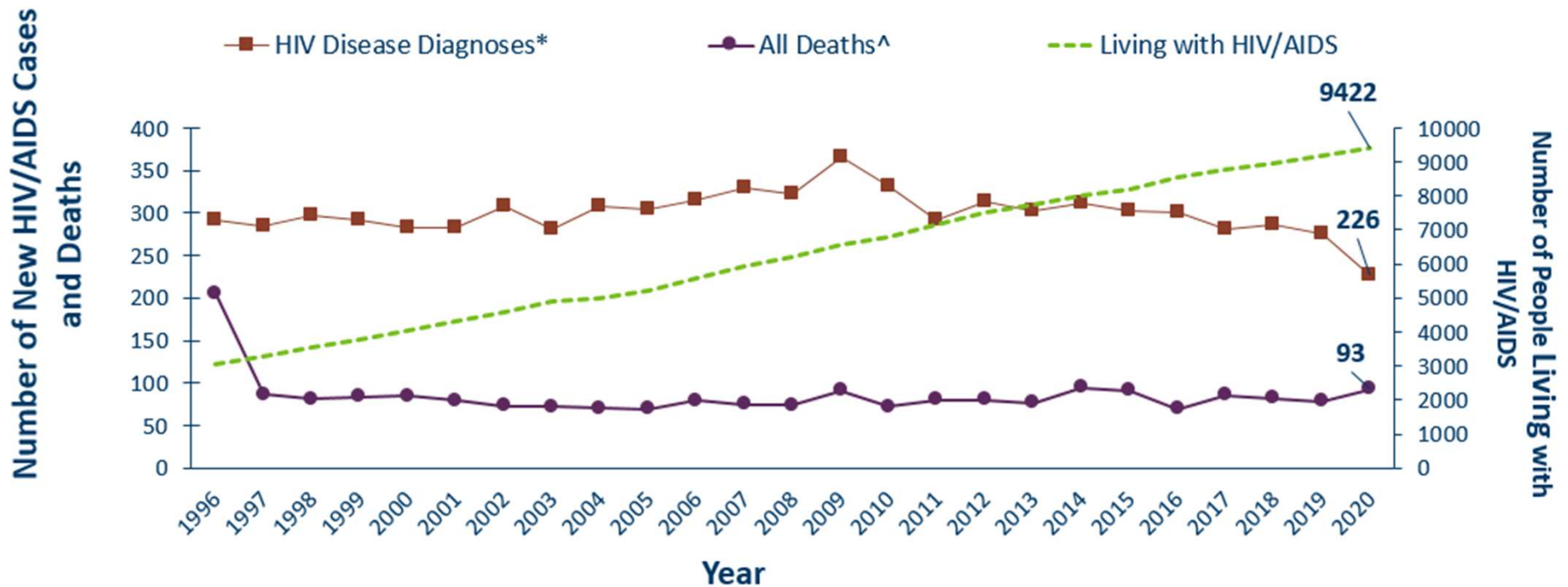
\*Includes all new cases of HIV infection (both HIV (non-AIDS) and AIDS at first diagnosis diagnosed within a given calendar year.  
^Includes all cases diagnosed with HIV in that year who subsequently progressed to AIDS diagnosis status, including those diagnosed with AIDS when they were first diagnosed 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 Disease Diagnoses\*

## HIV/AIDS Cases by Year, 2010-2020



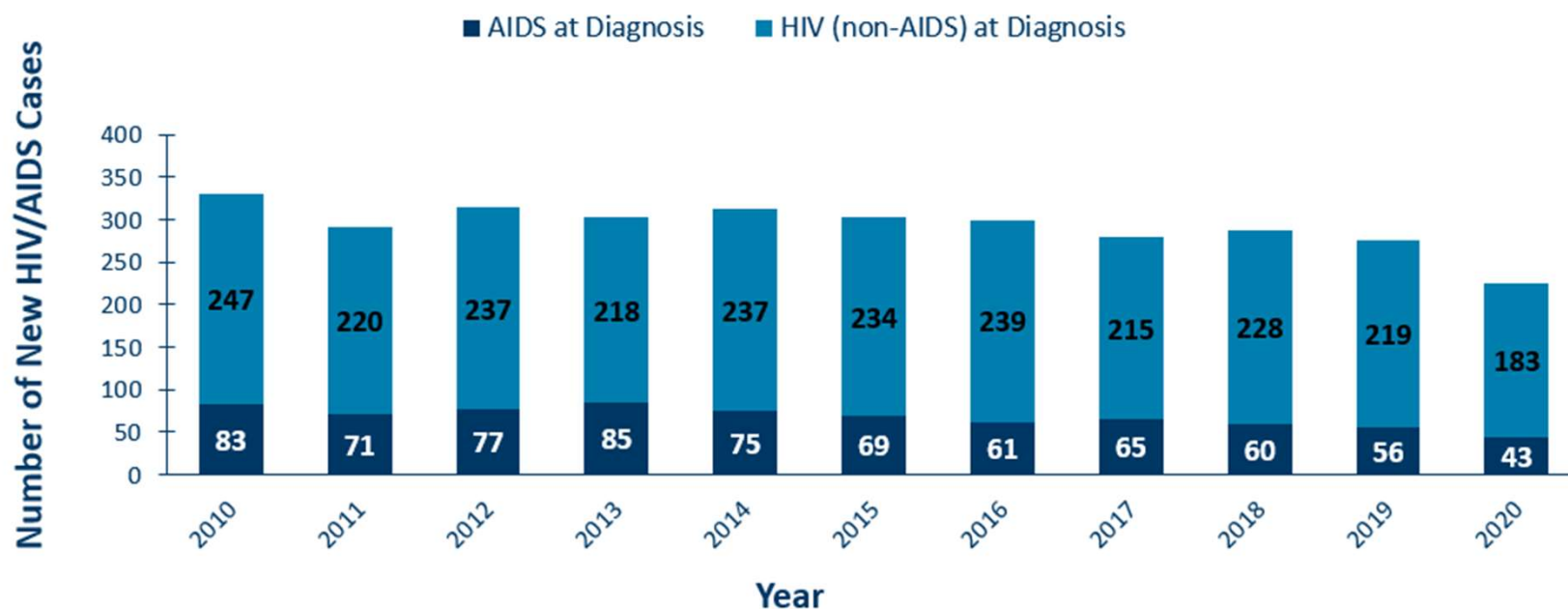
# New HIV Diagnoses, Deaths and Prevalent Cases by Year, 1996-2020



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, 2010-2020



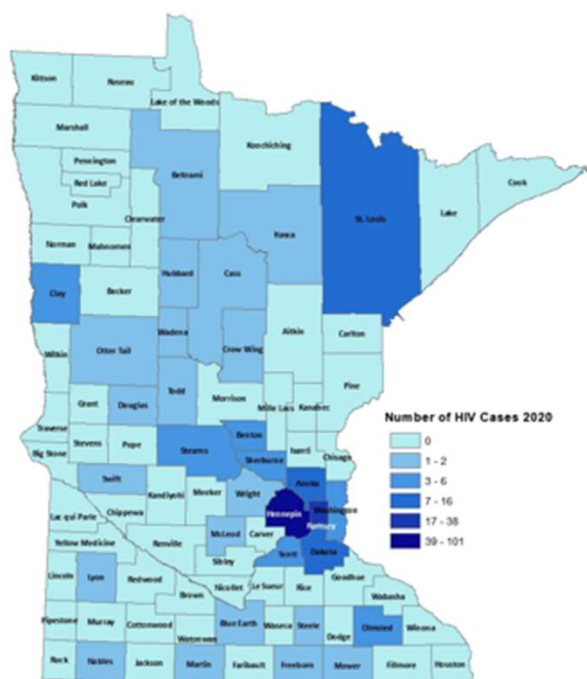
^Includes all new cases of HIV that were diagnosed with HIV and AIDS simultaneously

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, 2020

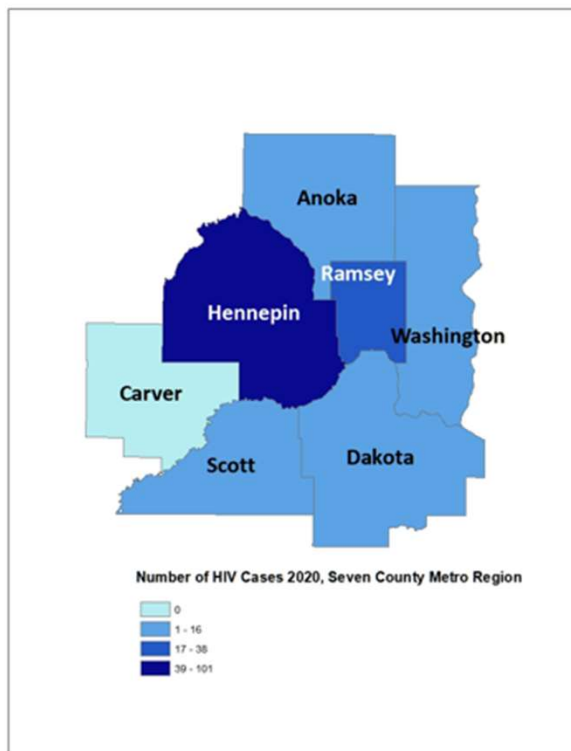


City of Minneapolis	59 cases (26%)
City of St. Paul	30 cases (13%)
Suburban*	84 cases (37%)
Greater Minnesota	53 cases (24%)
Total	226 cases

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

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

# 2020 Minnesota HIV New Diagnoses by Metro County



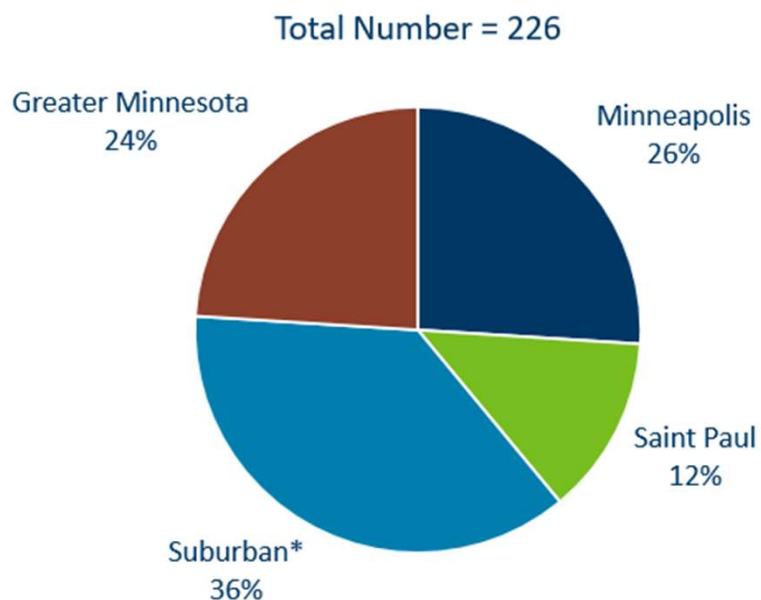
City of Minneapolis  
City of St. Paul  
Suburban\*  
Greater Minnesota  
Total

59 cases (26%)  
30 cases (13%)  
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53 cases (24%)  
226 cases

HIV or AIDS at first diagnosis

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

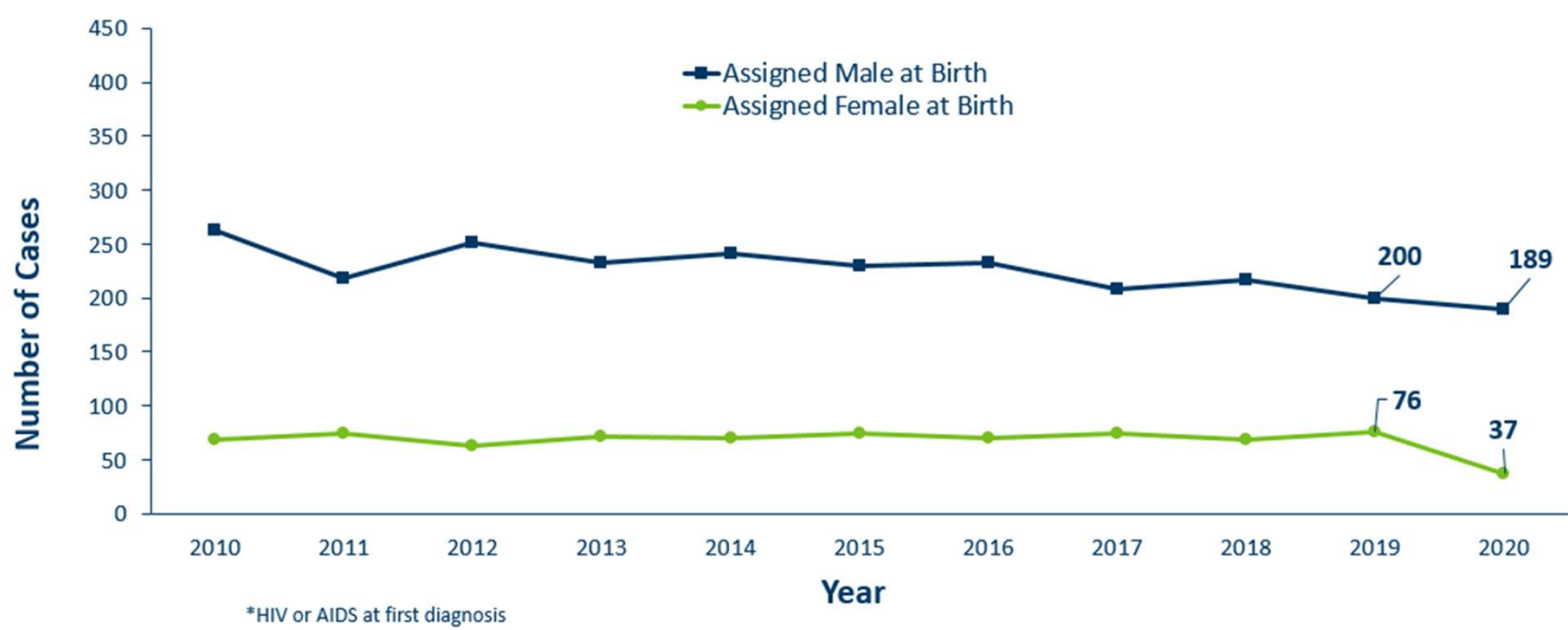
# HIV Diagnoses\* in Minnesota by Residence at Diagnosis, 2020



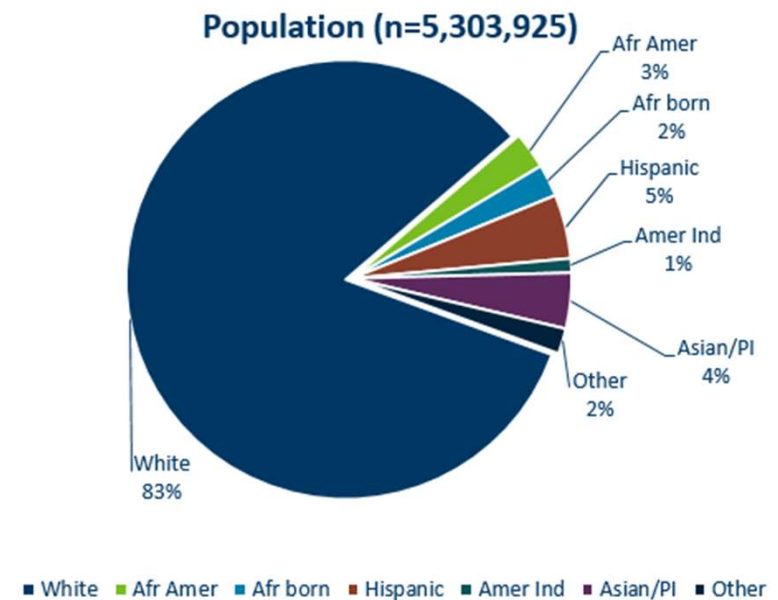
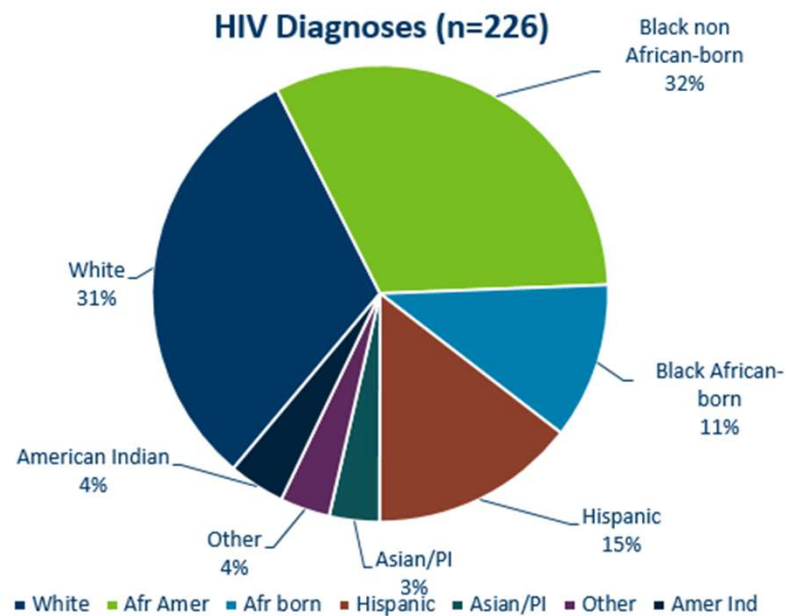
\*Suburban includes the 7-county metro area of Anoka, Carver, Dakota, Hennepin (except Minneapolis), Ramsey (except St. Paul), Scott, and Washington counties. Greater Minnesota includes all other counties outside of the 7-county metro area.

# Sex at Birth, Gender, and Race/Ethnicity

# HIV Diagnoses\* by Sex Assigned at Birth and Year of Diagnosis 2010 - 2020



# HIV Diagnoses\* in Year 2020 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)

# Number of Cases and Rates (per 100,000 people) of HIV Diagnoses\* by Race/Ethnicity† Minnesota, 2020

Race/Ethnicity	Cases	%	Rate
American Indian	9	4%	16.2
Asian/Pacific Islander	8	3%	3.7
Black, African-born†	25	11%	19.9 <sup>++</sup>
Black, not African-born	72	32%	49.6
Hispanic	33	15%	13.2
White, non-Hispanic	71	32%	1.6
Other <sup>^</sup>	8	3%	#
<b>Total</b>	<b>226</b>	<b>100%</b>	<b>4.3</b>

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

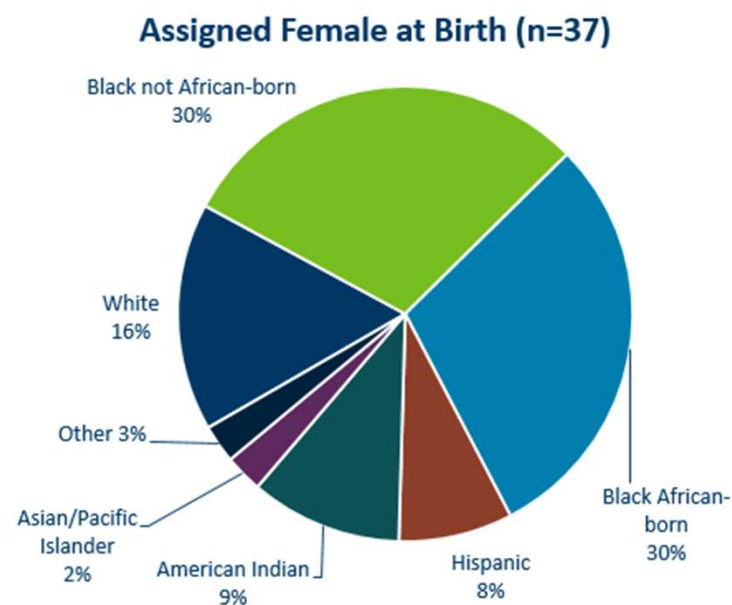
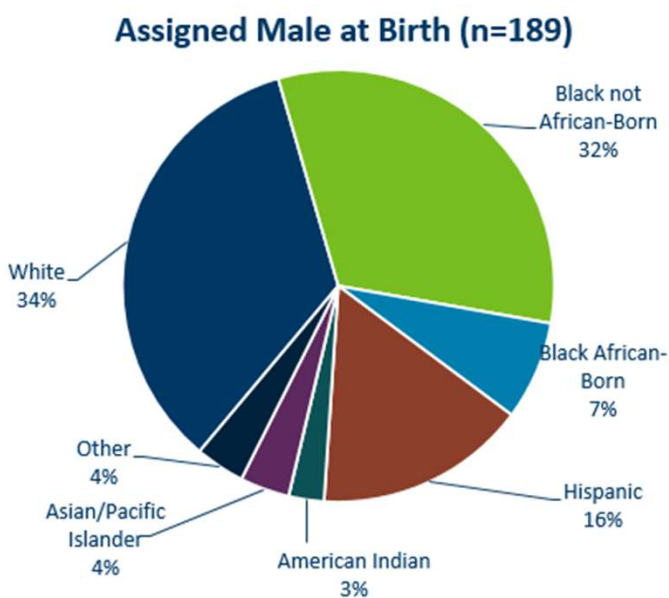
† “Black African-born” refers to Blacks who reported an African country of birth; “Black not African-born” refers to all other Blacks.

<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

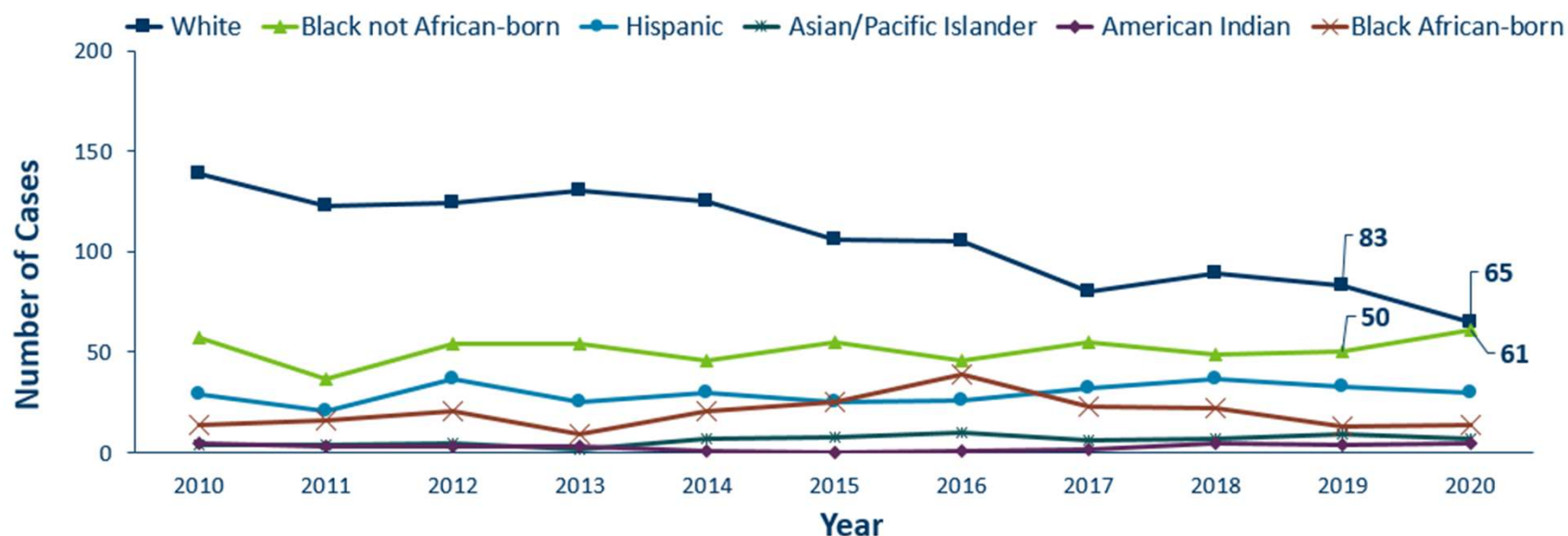
# HIV Diagnoses\* Diagnosed in Year 2020 by Sex Assigned at Birth and Race/Ethnicity†



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

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

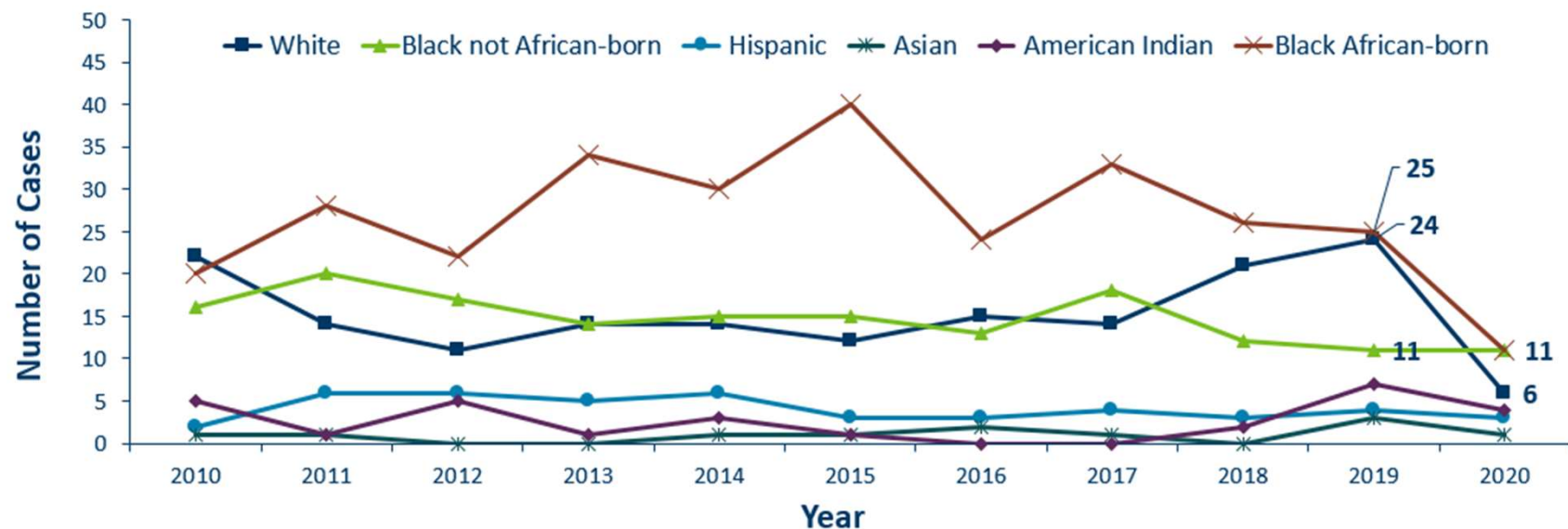
# HIV Diagnoses\* Among People Assigned Male Sex at Birth by Race/Ethnicity† and Year of Diagnosis 2010 - 2020



\* HIV or AIDS at first diagnosis

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

# HIV Diagnoses\* Among People Assigned Female Sex at Birth by Race/Ethnicity† and Year of Diagnosis 2010 - 2020



\*HIV or AIDS at first diagnosis

† "Black African-born" refers to Blacks who reported an African country of birth; "Black not African-born" refers to all other Blacks. 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, 2020

Sex / Risk behavior	Number of Cases	Percent of Total	Rate per 100,000 <sup>^</sup>
<b>Assigned Male at Birth</b>	189	84%	7.2
<i>MSM<sup>†</sup></i>	104	55%	114.7 <sup>††</sup>
<i>Non-MSM</i>	85	45%	3.2
<b>Assigned Female at Birth</b>	37	16%	1.4
<b>Total</b>	<b>226</b>	<b>100%</b>	<b>4.3</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, 2020

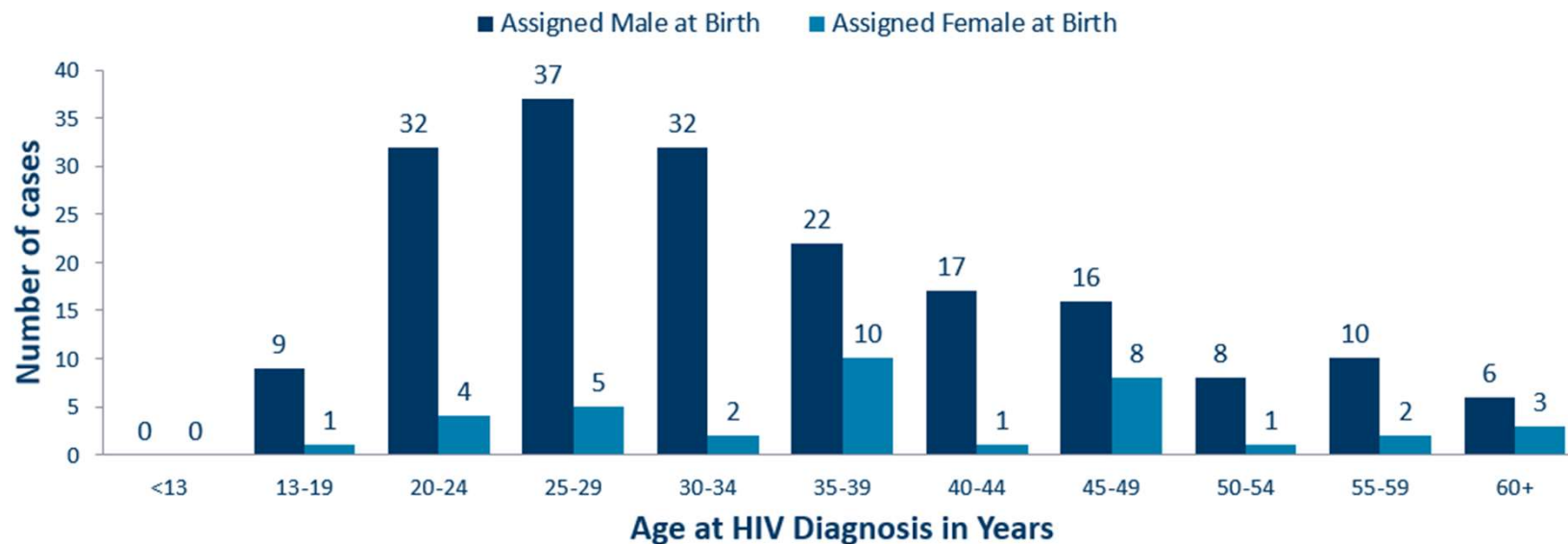
Gender Identity	Number of Cases	Percent of Total
Cisgender Men	180	80%
Cisgender Women	36	16%
<b>Transgender<sup>††</sup> (Total)</b>	<b>10</b>	<b>4%</b>
<i>Trans Women</i>	<i>8</i>	<i>3%</i>
<i>Trans Men</i>	<i>1</i>	<i>&lt;1%</i>
<i>Other Transgender</i>	<i>1</i>	<i>&lt;1%</i>
<b>Total</b>	<b>226</b>	<b>100%</b>

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

<sup>††</sup>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.

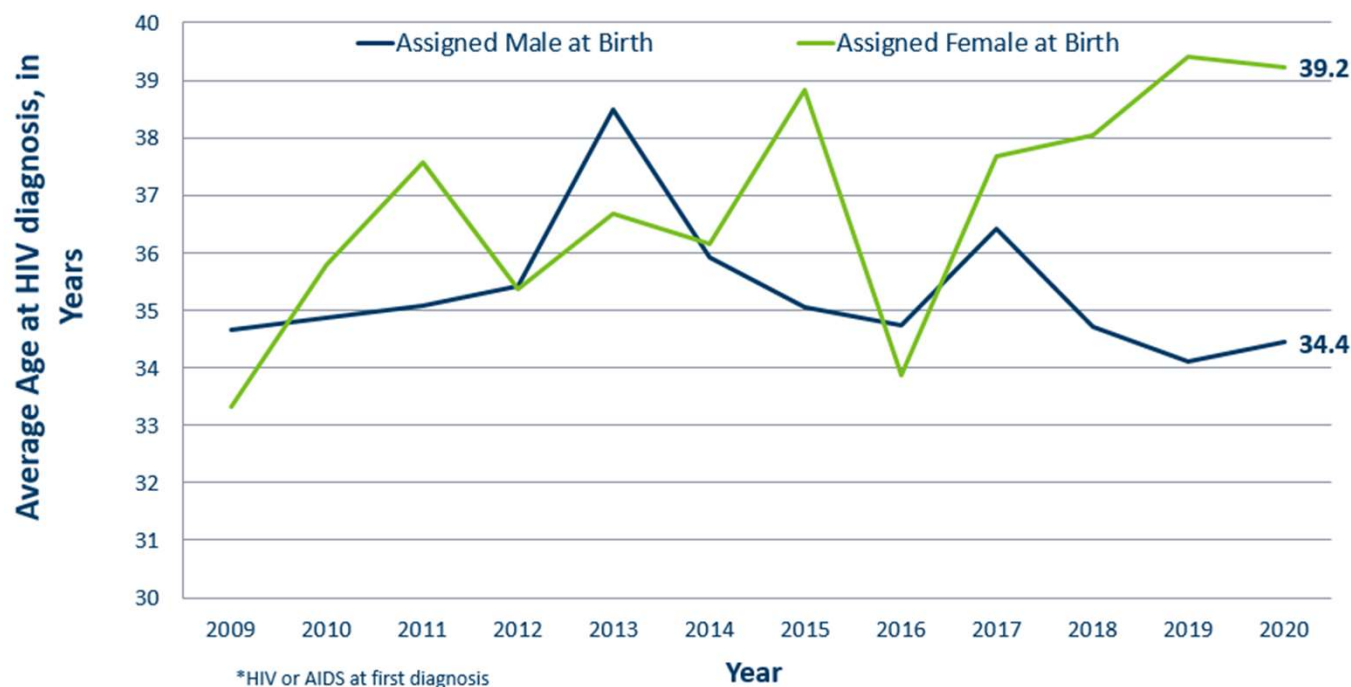
Age

# Age at HIV Diagnosis\* by Sex Assigned at Birth, Minnesota, 2020



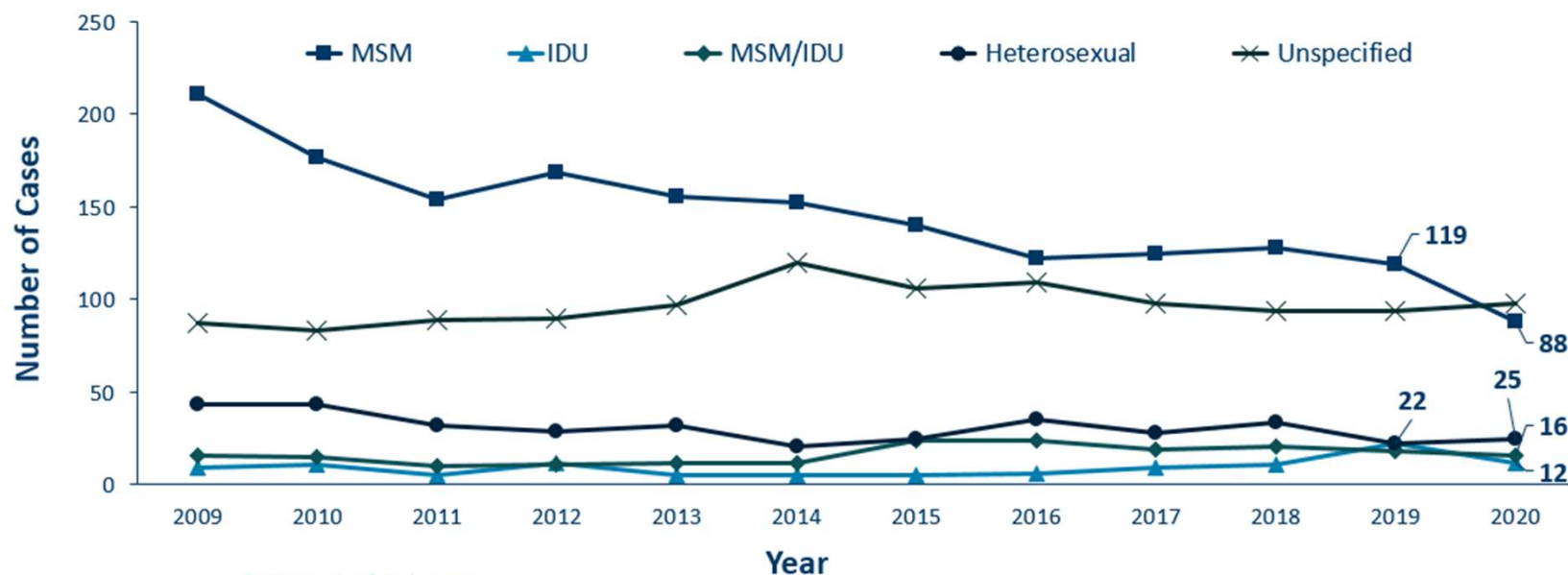
\*HIV or AIDS at first diagnosis

# Average Age at HIV Diagnosis\* by Sex Assigned at Birth, 2009-2020



# Mode of Exposure

# HIV Diagnoses\* by Mode of Exposure and Year, 2009 – 2020



\*HIV or AIDS at first diagnosis

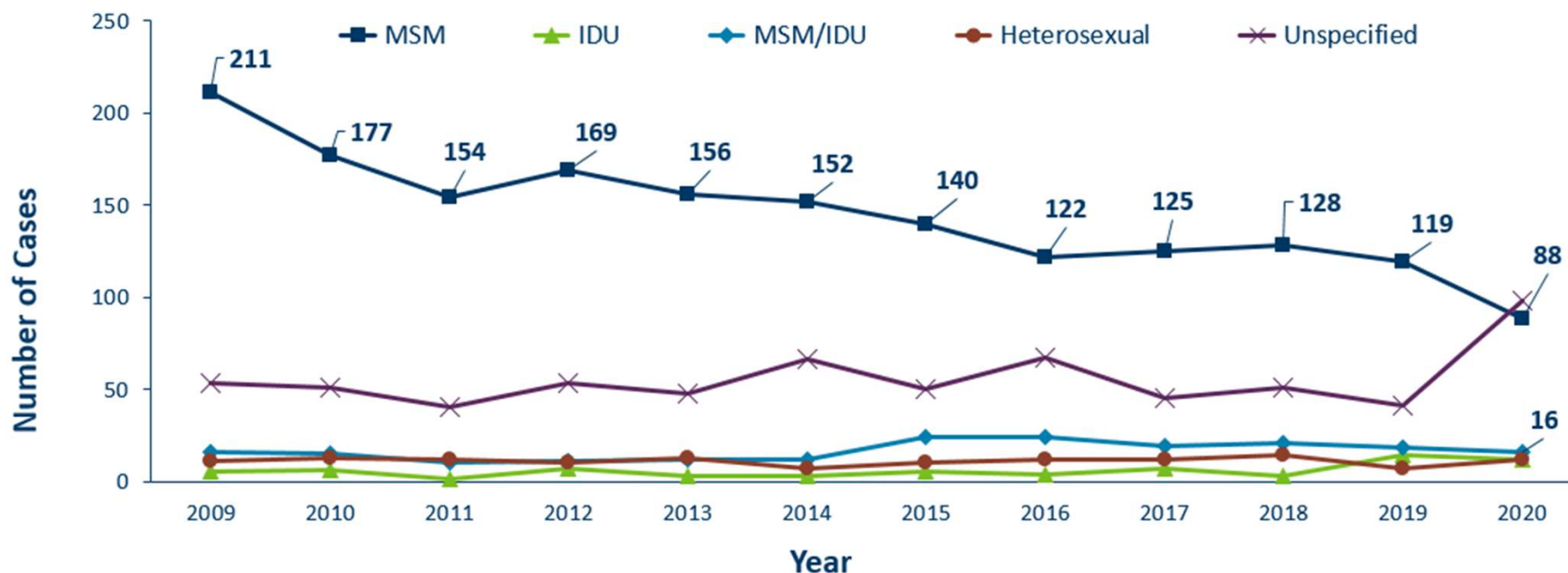
MSM = Men who have sex with men

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 2009 - 2020



\* HIV or AIDS at first diagnosis

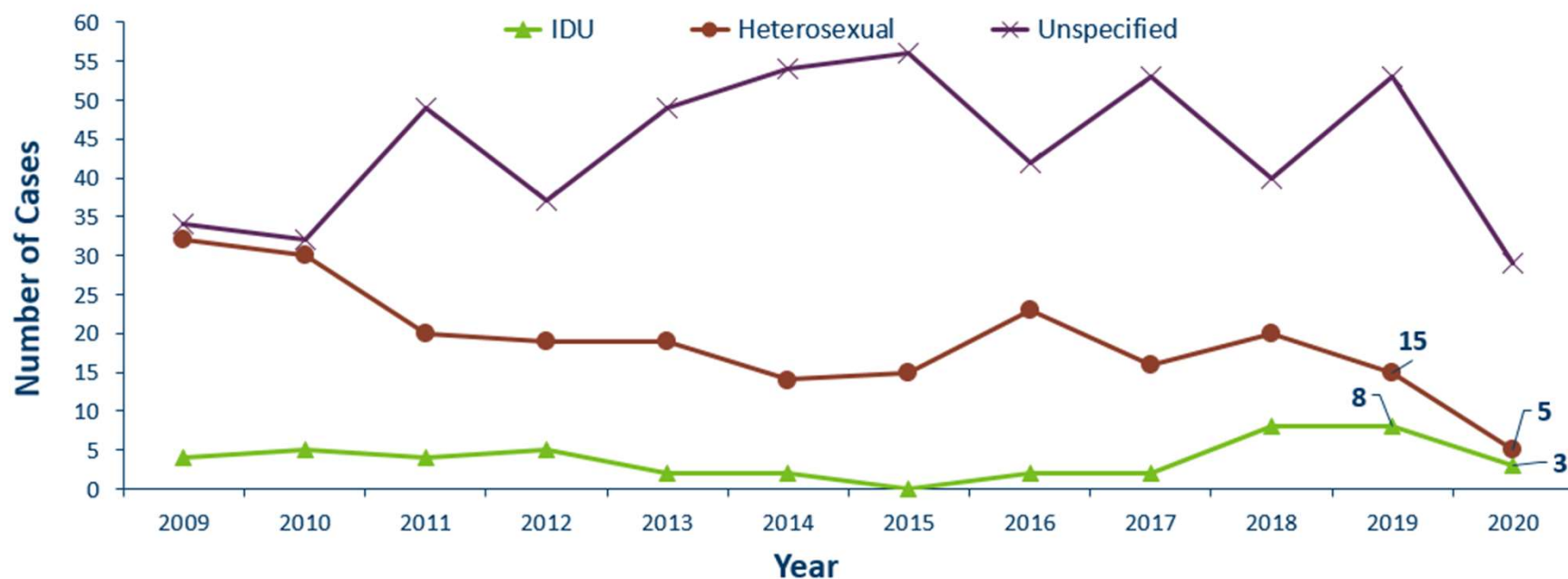
MSM = Men who have sex with men

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



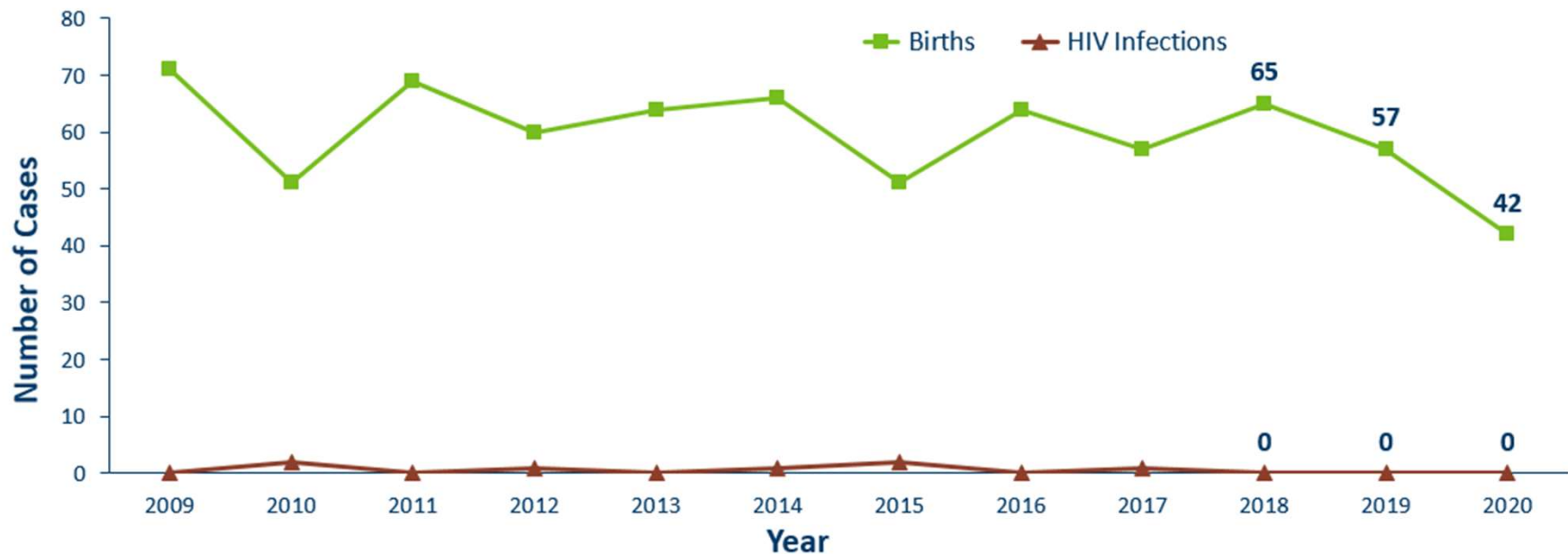
\* HIV or AIDS at first diagnosis

IDU = Injection drug use

Heterosexual = Heterosexual contact

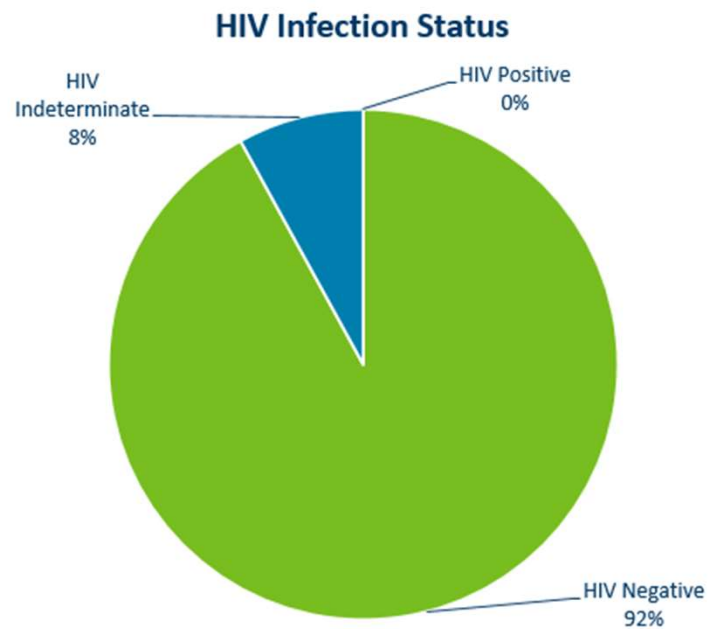
Unspecified = No mode of exposure ascertained

# Births to Pregnant People living with HIV and Number of Perinatal Acquired HIV Infections\* by Year of Birth, 2009- 2020



For people assigned female sex at birth, the most known common mode of exposure for the past decade has been Heterosexual contact. However, like people assigned male sex at birth the number of cases with unspecified risk is increasing.

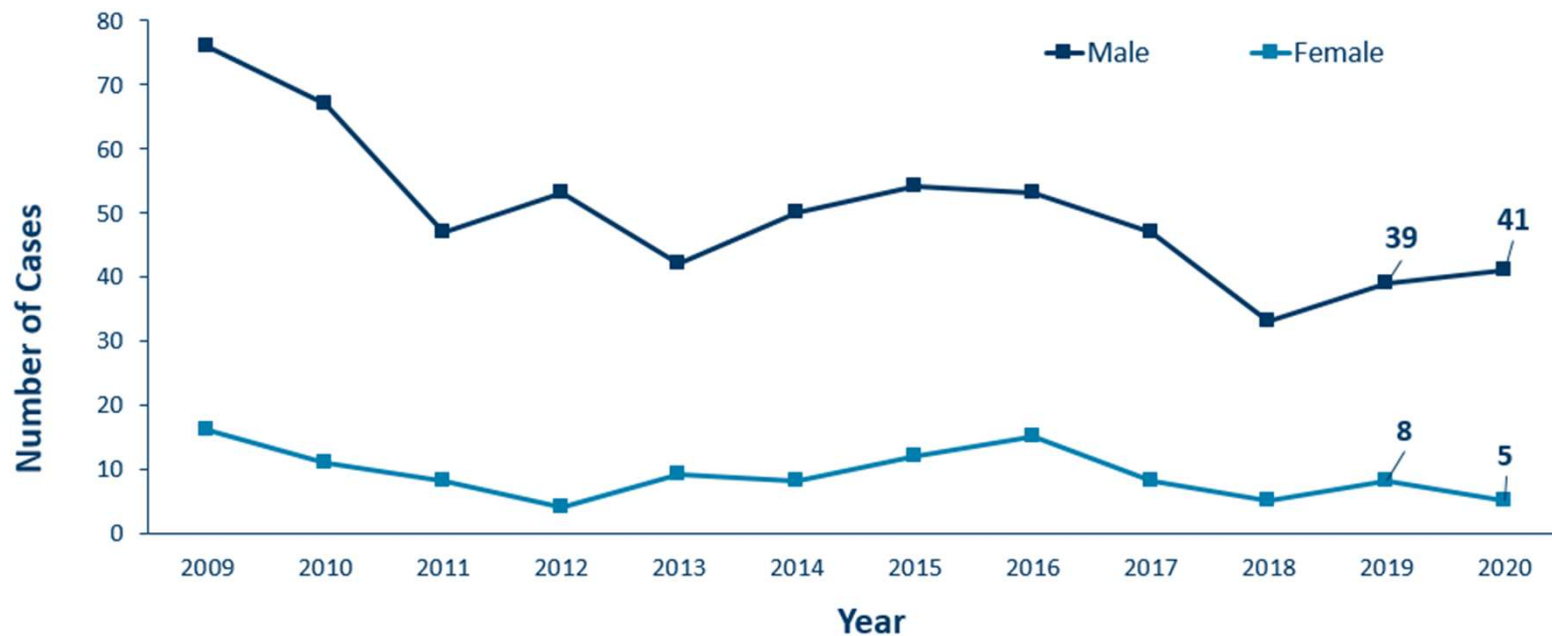
# Outcome for Perinatal HIV-Exposed Infants born in 2019



HIV Infection Status	MN births 2019	CDC Outcome Standards
Negative	92% (54)	≥ 85%
Indeterminate	8% (5)	< 15%

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

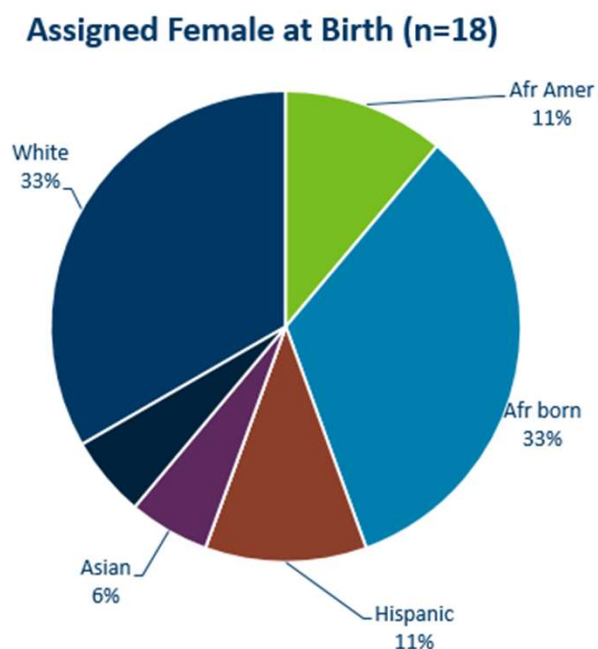
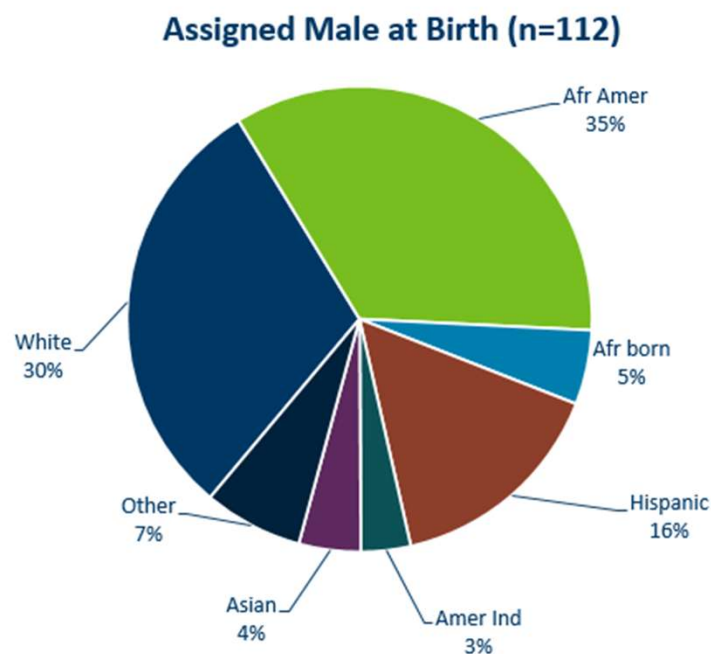
# HIV Diagnoses\* Among Adolescents and Young Adults† by Sex Assigned at Birth and Year 2009 - 2020



\* HIV or AIDS at first diagnosis

† Adolescents defined as 13-19 year-olds; Young Adults defined as 20-24 year-olds.

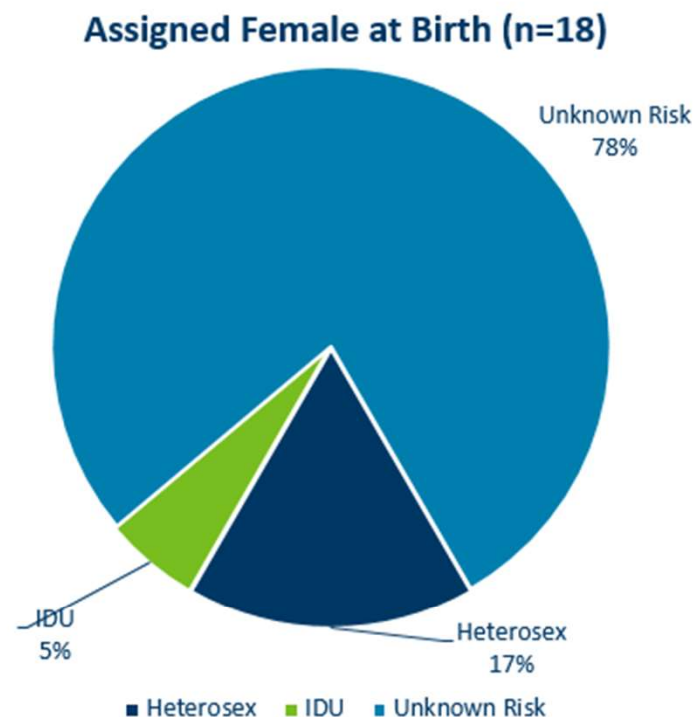
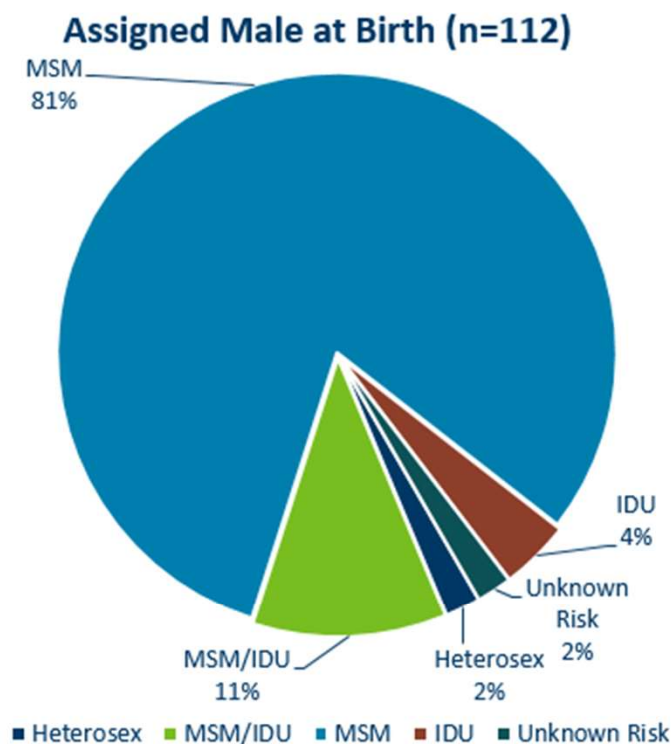
# HIV Diagnoses\* Among Adolescents and Young Adults<sup>†</sup> by Sex Assigned at Birth and Race/Ethnicity, 2018 - 2020 Combined



\* 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)

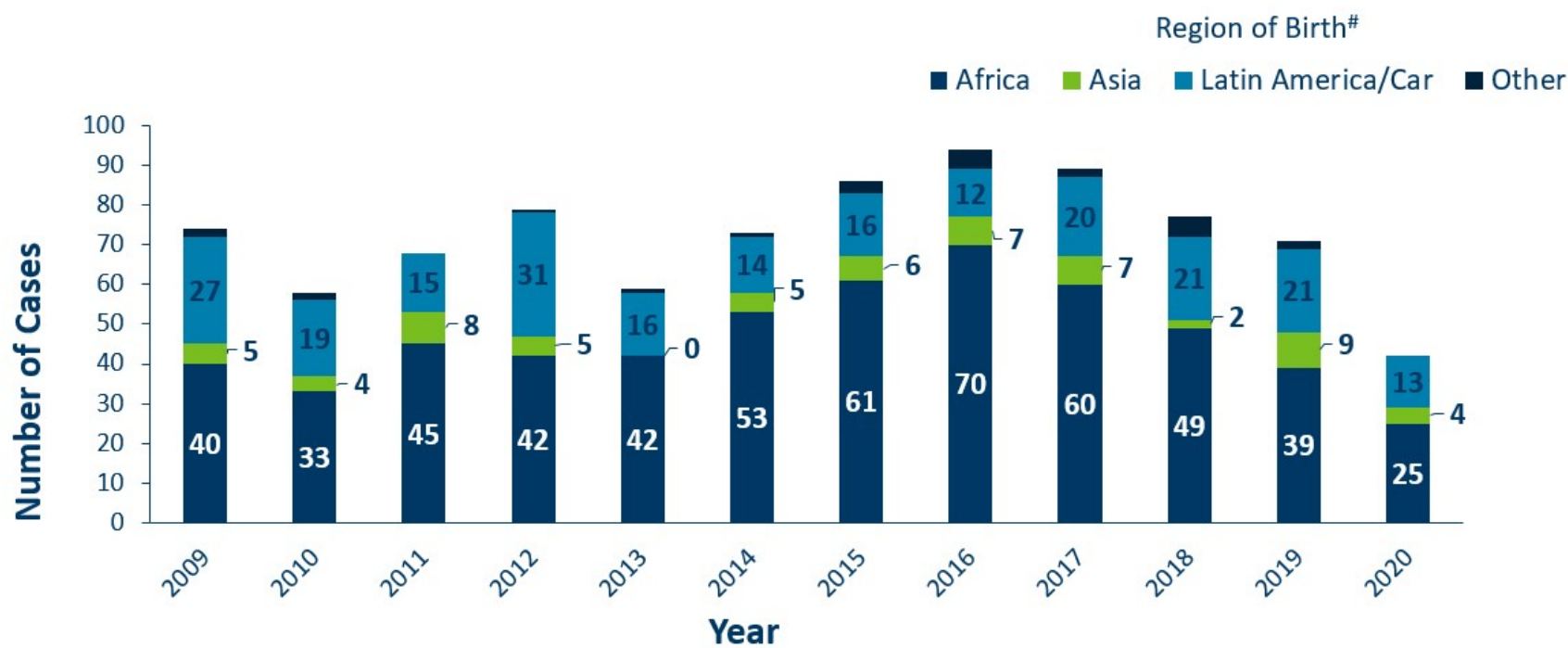
# HIV Diagnoses\* Among Adolescents and Young Adults<sup>†</sup> by Sex at Birth and Exposure Group 2018 – 2020 Combined



<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 2009 - 2020

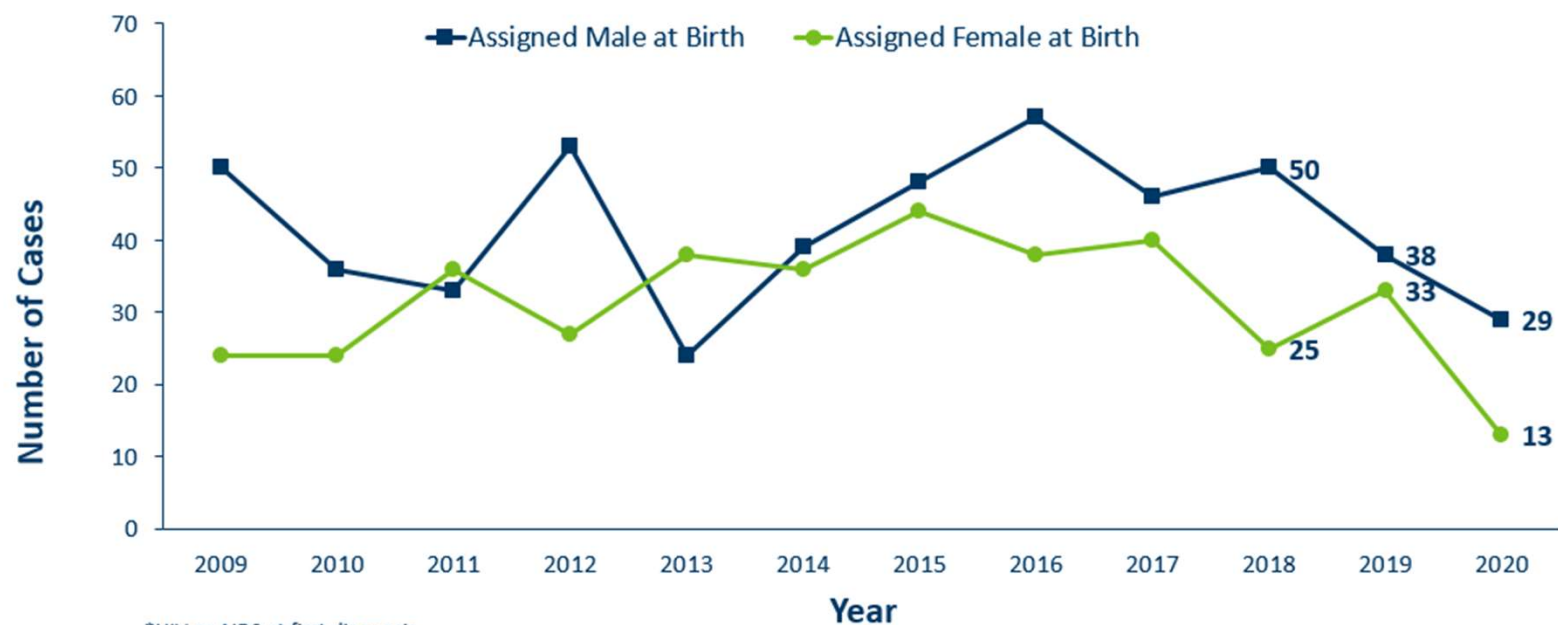


\* HIV or AIDS at first diagnosis

† 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 2009 – 2020



\*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, 2020

Country	N
Mexico	9
Ethiopia	5
Liberia	5
Somalia	4
Cote d'Ivoire	2
Cameroon	2
India	2
Sierra Leone	2
Salvador	2
Other <sup>^</sup>	10

\* HIV or AIDS at first diagnosis

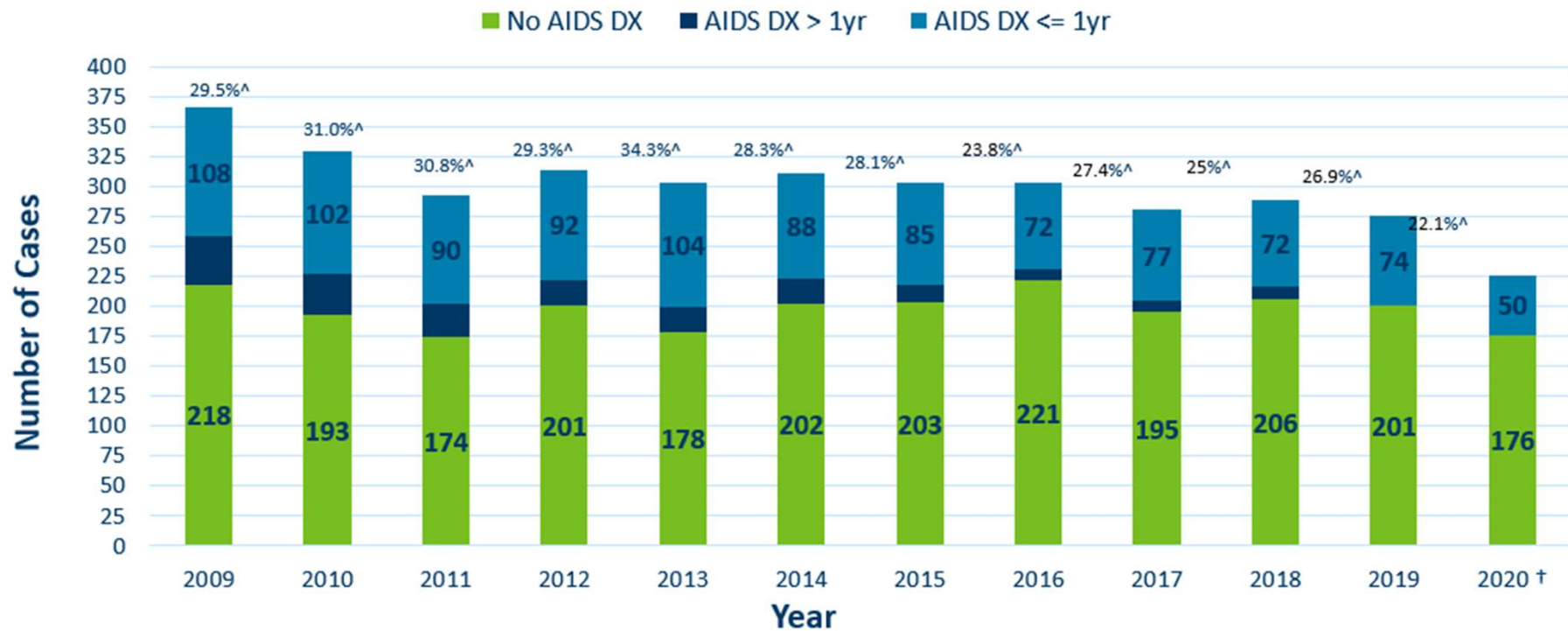
<sup>†</sup> Excludes people arriving to Minnesota through the HIV+ Refugee Resettlement Program, as well as other refugee/immigrants with an HIV diagnosis prior to arrival in Minnesota.

<sup>^</sup> Includes 10 additional countries.

# **Late-Testers**

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

# Time of Progression to AIDS for HIV Diagnoses in Minnesota\* 2009 - 2020†

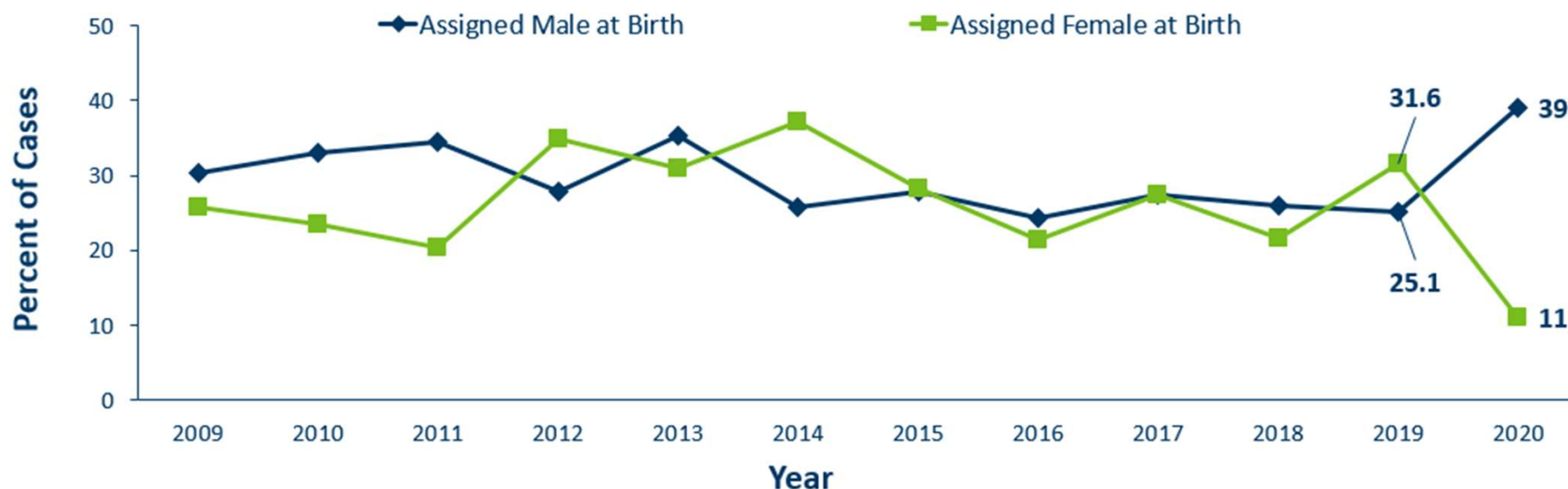


\*Numbers include AIDS at 1<sup>st</sup> report but exclude people arriving to Minnesota through the HIV+ Refugee Resettlement Program, as well as other refugee/immigrants with an HIV diagnosis prior to arrival in Minnesota.

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

† Numbers/Percent for cases diagnosed in 2020 only represents cases progressing to AIDS through June 2021

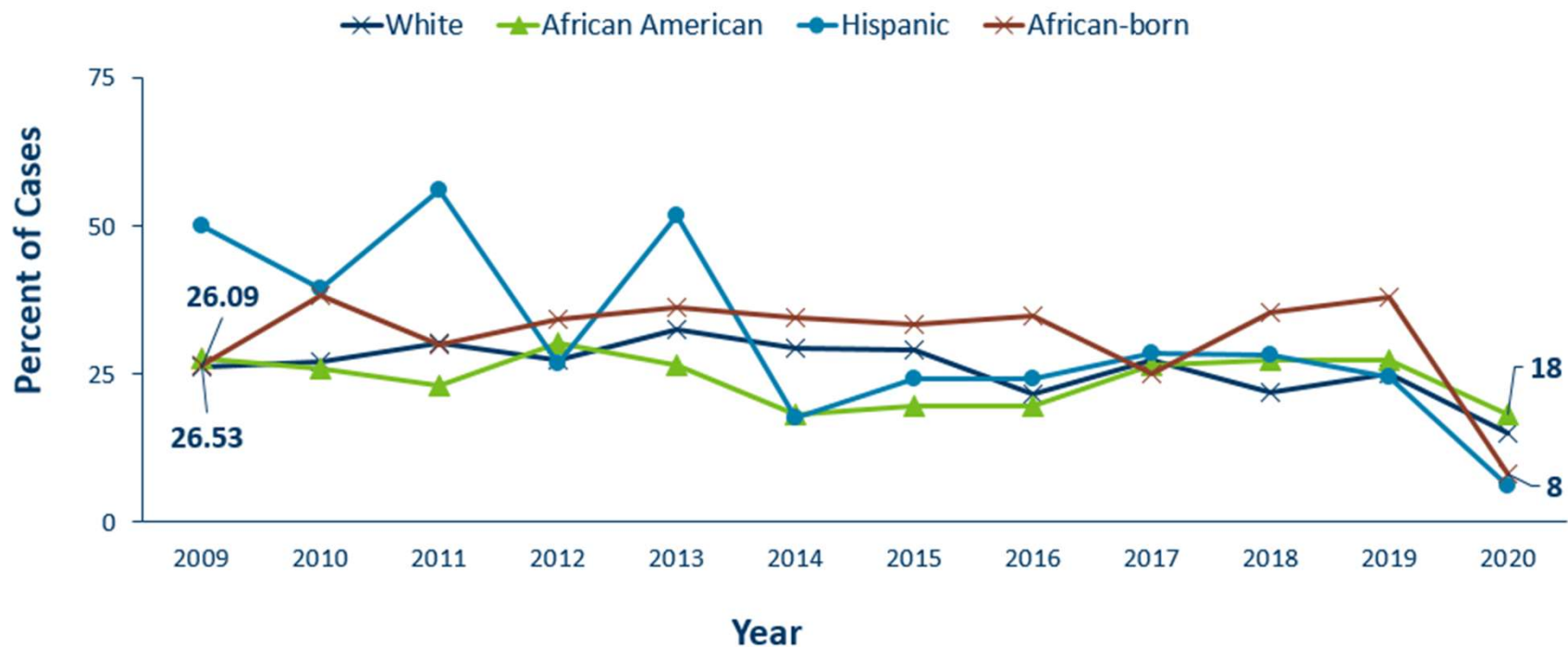
# Progression to AIDS within 1 year of initial HIV Diagnosis\* by Sex Assigned at Birth 2009 - 2020†



\*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 2017 only represents cases progressing to AIDS through March 20, 2017

# Progression to AIDS within 1 year of initial HIV Diagnoses\* by Race/Ethnicity^ 2009 - 2020†

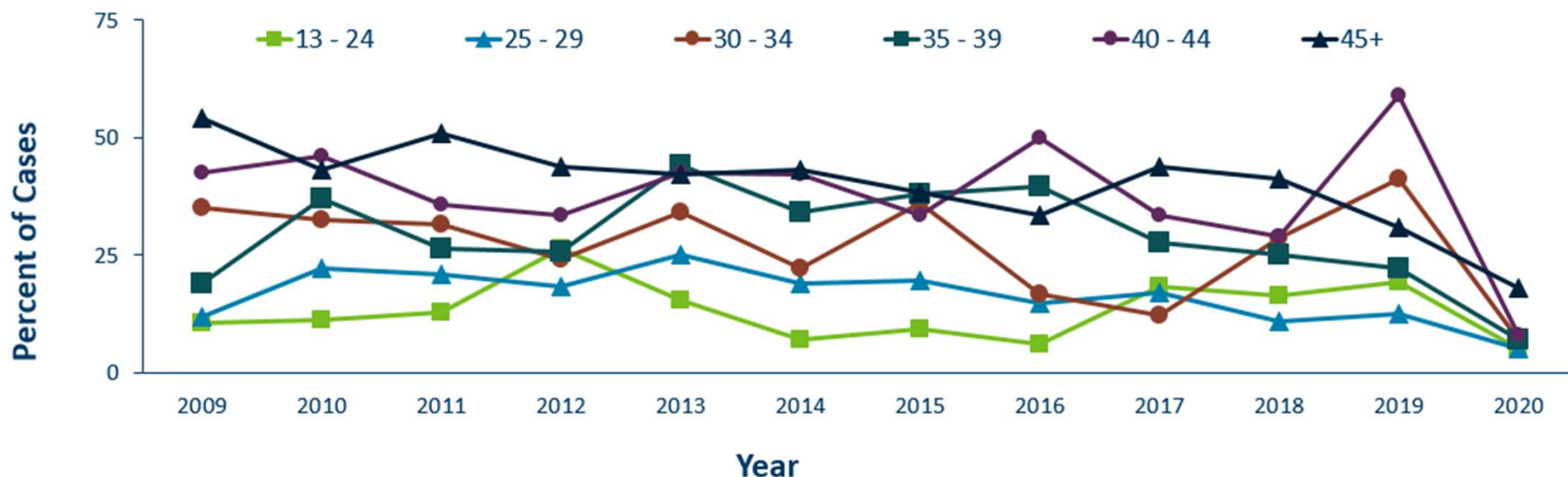


\*Numbers include AIDS at 1<sup>st</sup> report but exclude people arriving to Minnesota through the HIV+ Refugee Resettlement Program, as well as other refugee/immigrants with an HIV diagnosis prior to arrival in Minnesota.

† Numbers/Percent for cases diagnosed in 2017 only represents cases progressing to AIDS through March 20, 2018.

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

# Progression to AIDS within 1 year of initial HIV Diagnosis\* by Age 2009 - 2020<sup>†</sup>

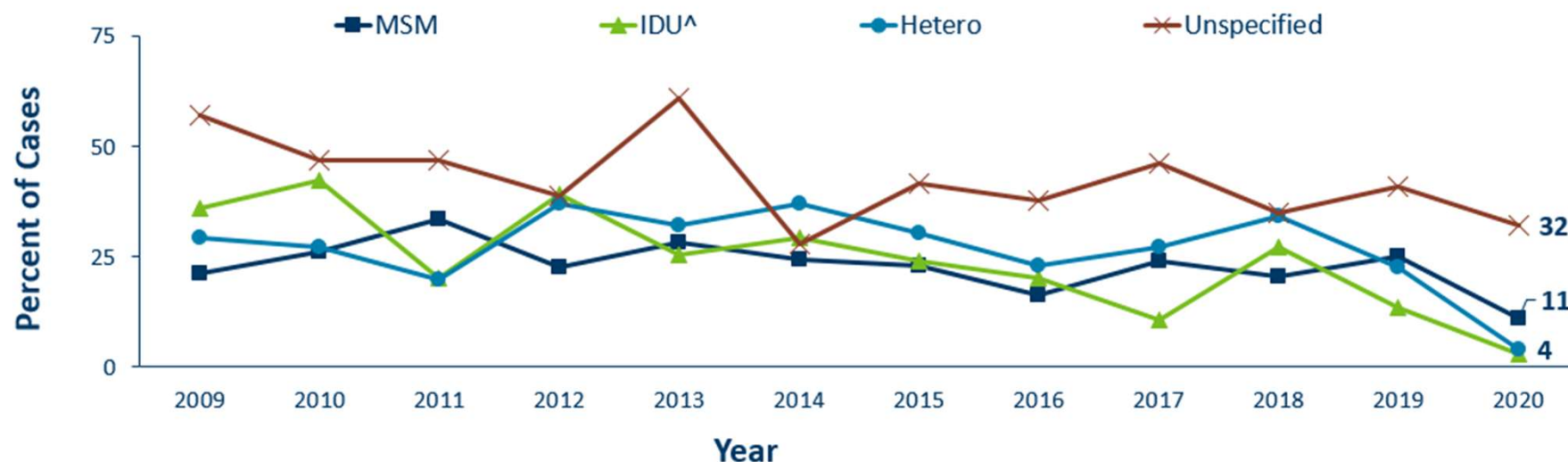


\*Numbers include AIDS at 1<sup>st</sup> report but exclude people arriving to Minnesota through the HIV+ Refugee Resettlement Program, as well as other refugee/immigrants with an HIV diagnosis prior to arrival in Minnesota.

<sup>†</sup> Numbers/Percent for cases diagnosed in 2017 only represents cases progressing to AIDS through March 20, 2018.

<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 2009 - 2020<sup>†</sup>

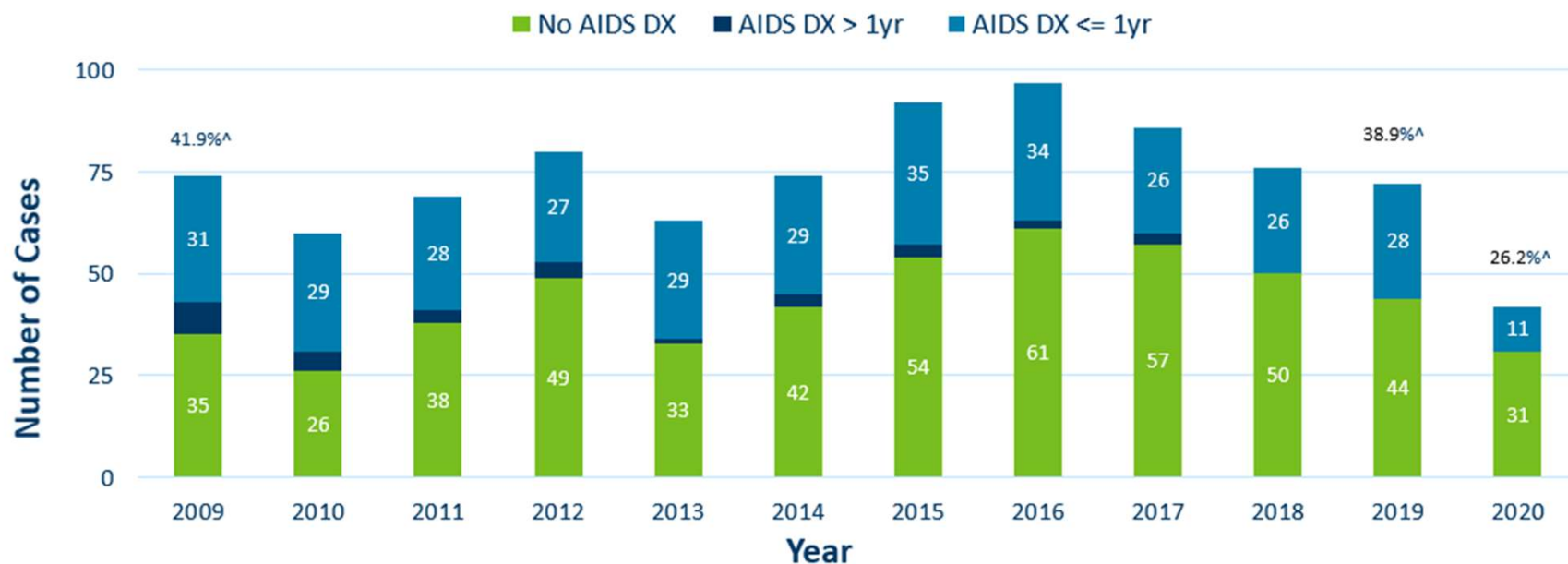


\*Numbers include AIDS at 1<sup>st</sup> report but exclude people arriving to Minnesota through the HIV+ Refugee Resettlement Program, as well as other refugee/immigrants with an HIV diagnosis prior to arrival in Minnesota.

<sup>†</sup> Numbers/Percent for cases diagnosed in 2017 only represents cases progressing to AIDS through March 20, 2018.

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

# Time of Progression to AIDS for HIV Diagnoses\* Among Foreign-Born People Minnesota 2009 - 2020



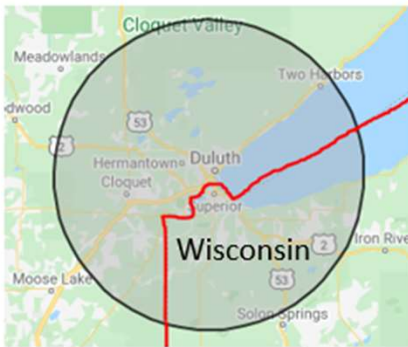
\*Numbers include AIDS at 1<sup>st</sup> report but exclude people arriving to Minnesota through the HIV+ Refugee Resettlement Program, as well as other refugee/immigrants with an HIV diagnosis prior to arrival in Minnesota.

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

<sup>†</sup> Numbers/Percent for cases diagnosed in 2017 only represents cases progressing to AIDS through March 20, 2018.

# Additional Topics

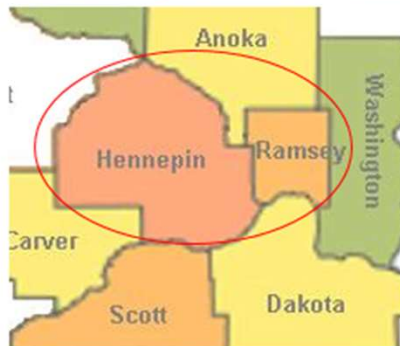
# HIV Outbreaks in Hennepin/Ramsey Counties & Duluth Region



## Duluth area Outbreak

Declared 3/2021

Cases (N=15)\*



## Hennepin/Ramsey Counties Outbreak

Declared 2/2020

People who inject drugs

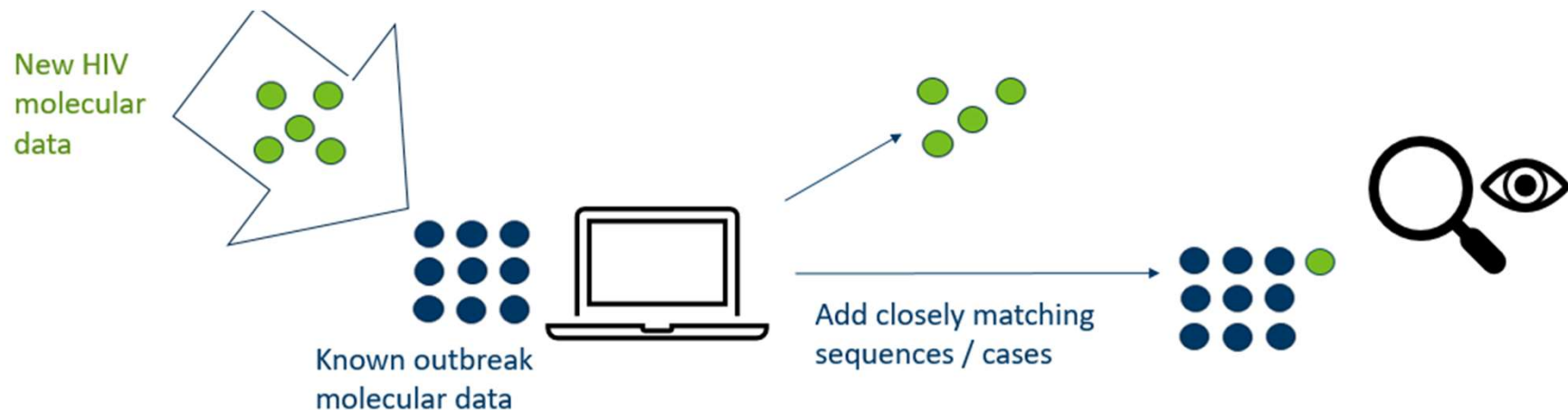
Cases (N=71)\*

\* Data counts as of 6/2/21

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

- 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

# Molecular Tools for Outbreak Monitoring



## To address data privacy concerns:

- Molecular data is from the HIV virus, and is not a person's genetic material
- Cannot infer causal directionality of infection
- HIV virus sequences securely housed at the health department

# Updated webpage: HIV Outbreak Data

[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)

[\(https://www.health.state.mn.us/diseases/hiv/stats/hiv.html\)](https://www.health.state.mn.us/diseases/hiv/stats/hiv.html)

**m1 DEPARTMENT OF HEALTH** HOME TOPICS ABOUT US

**HIV/AIDS Statistics**

- HIV/AIDS Statistics Home
- HIV Care Continuum
- Outbreak Response & Case Counts
- Statistics - 2019
- Statistics - 2018
- Statistics - 2017
- Statistics - 2016
- Statistics - 2015

**Related Topics**

- STD Statistics

### HIV Outbreak Response and Case Counts

Minnesota is currently experiencing human immunodeficiency virus (HIV) outbreaks in Hennepin and Ramsey counties as well as the Duluth area. Case counts specific to each outbreak can be found below. Minnesota HIV Case Counts by County shows the incidence of new HIV cases compared to previous years.

Partners can use or adapt these resources and tools for HIV outbreak prevention and response in Minnesota.

[Subscribe to HIV/STD Prevention and Data Updates](#)  
This subscription provides updates on STD and HIV in Minnesota. By subscribing, you will receive updates about the HIV outbreak in addition to other STD/HIV information.

**Subscribe** to receive HIV/STD prevention and data email updates

- Virtual Town Hall meeting – July 14

# Thank you.

**HIV Surveillance Team**

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

651-201-4040