



**DEPARTMENT
OF HEALTH**

HIV/AIDS Perinatal Surveillance, 2016

HIV/AIDS Surveillance System

STD/HIV/TB Section, Epidemiology and Surveillance Unit

- This slide set describes births to HIV-positive women in Minnesota by person, place, and time.
- The slides rely on data from HIV/AIDS cases diagnosed and infants exposed through 2016 and reported to the Minnesota Department of Health (MDH) HIV/AIDS Surveillance System.
- Some limitations of surveillance data:
 - Data do not include HIV-positive people who have not been tested for HIV.
 - Data do not include people whose positive test results have not been reported to the MDH.
 - Data do not include children whose perinatal HIV exposure has not been reported to MDH.
 - Case numbers for the most recent years may be undercounted due to delays in reporting.

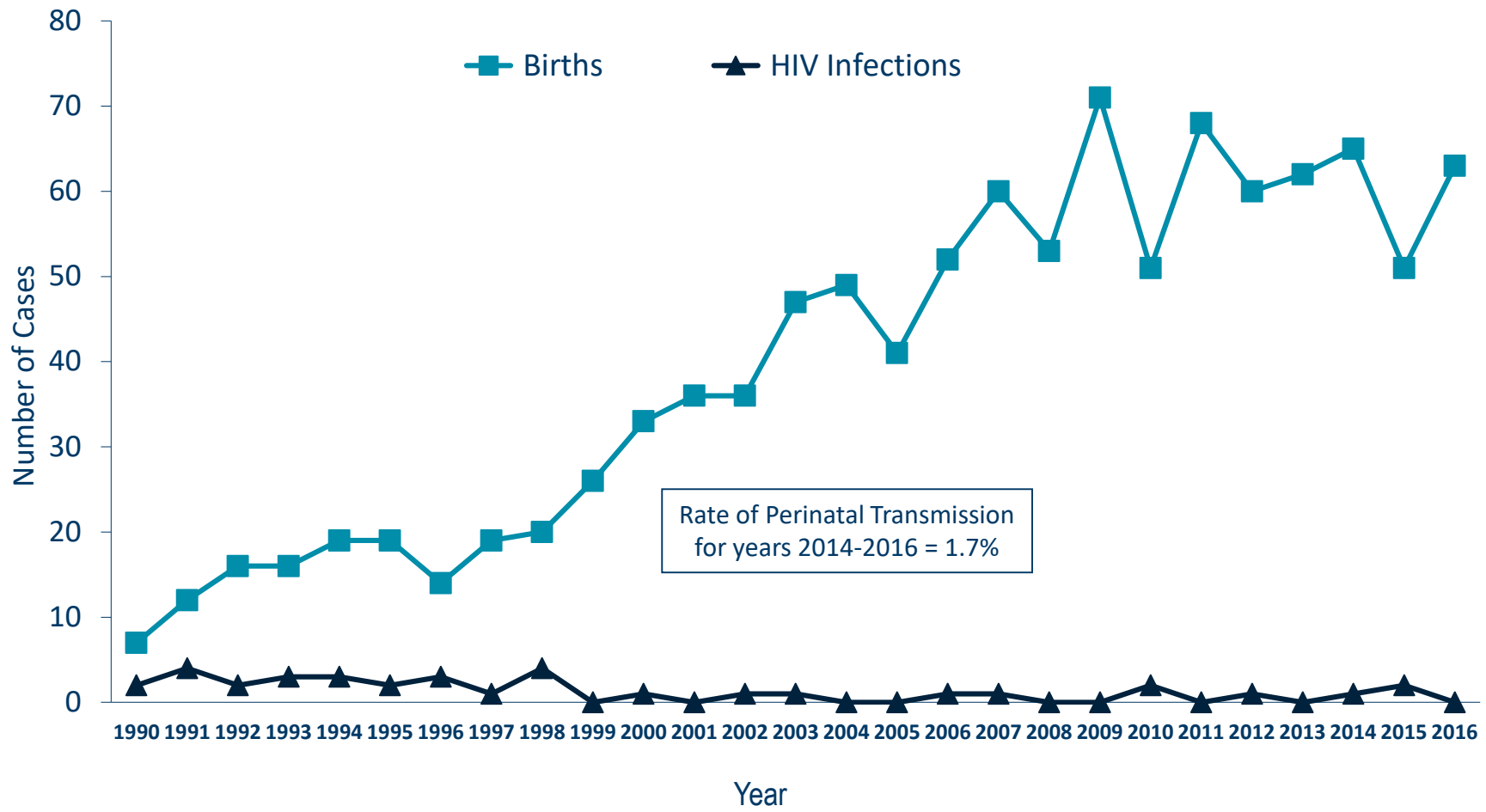
- Since 1982, there have been 1,088 births to women living with HIV/AIDS in Minnesota.
- Of these, 44 (4.0%) children have been diagnosed with HIV/AIDS, 803 (73.8%) are seroreverters*, and 241 (22.2%) have an indeterminate HIV status†.
- In 1994 and 1995, the U.S. Public Health Service (PHS) made recommendations for universal HIV testing of all pregnant women, and the use of zidovudine (ZDV‡) to prevent mother-to-child (MTC) transmission of HIV.
- Rates of MTC HIV transmission in Minnesota have decreased since the publication of these PHS recommendations. During 1982-1994, the rate of MTC transmission was 25%, decreased to 10% during 1995-1999, and was 1.7% in 2014-2016.
- A total of 11 children acquired HIV perinatally in Minnesota in the years 2000-2016.

* At the time of birth an infant may test positive for HIV due to the presence of antibodies from the HIV-positive mother. If the infant does not go on to develop infection, s/he will eventually test negative for HIV antibodies and is said to be a “seroreverter.”

† An indeterminate status means the Minnesota Department of Health (MDH) is unaware of the child’s status (either due to no follow-up HIV test or more likely the result of the negative follow-up test was not reported to MDH).

‡ Zidovudine (ZDV) is an anti-HIV drug.

Births to HIV-Positive Women and Number of Perinatally Acquired HIV Infections* by Year of Birth, 1990 - 2016



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

Time of Mother's Diagnosis for Perinatal HIV Infections, Minnesota 2000 -2016

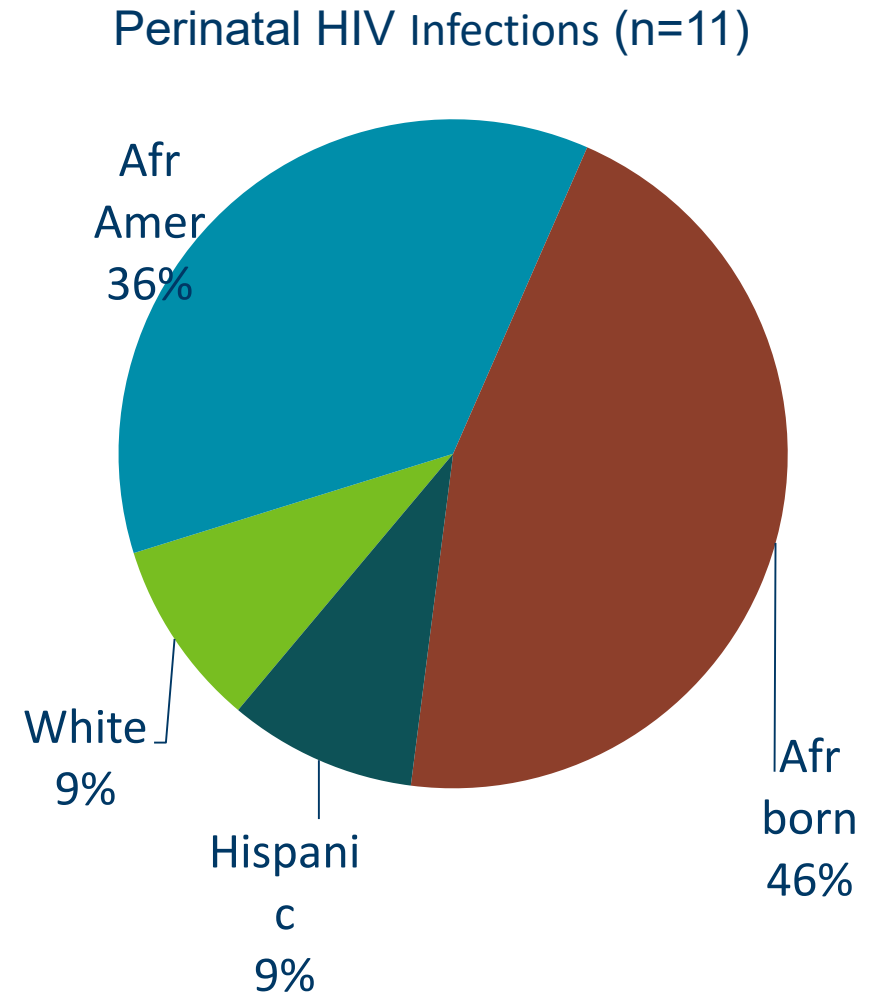
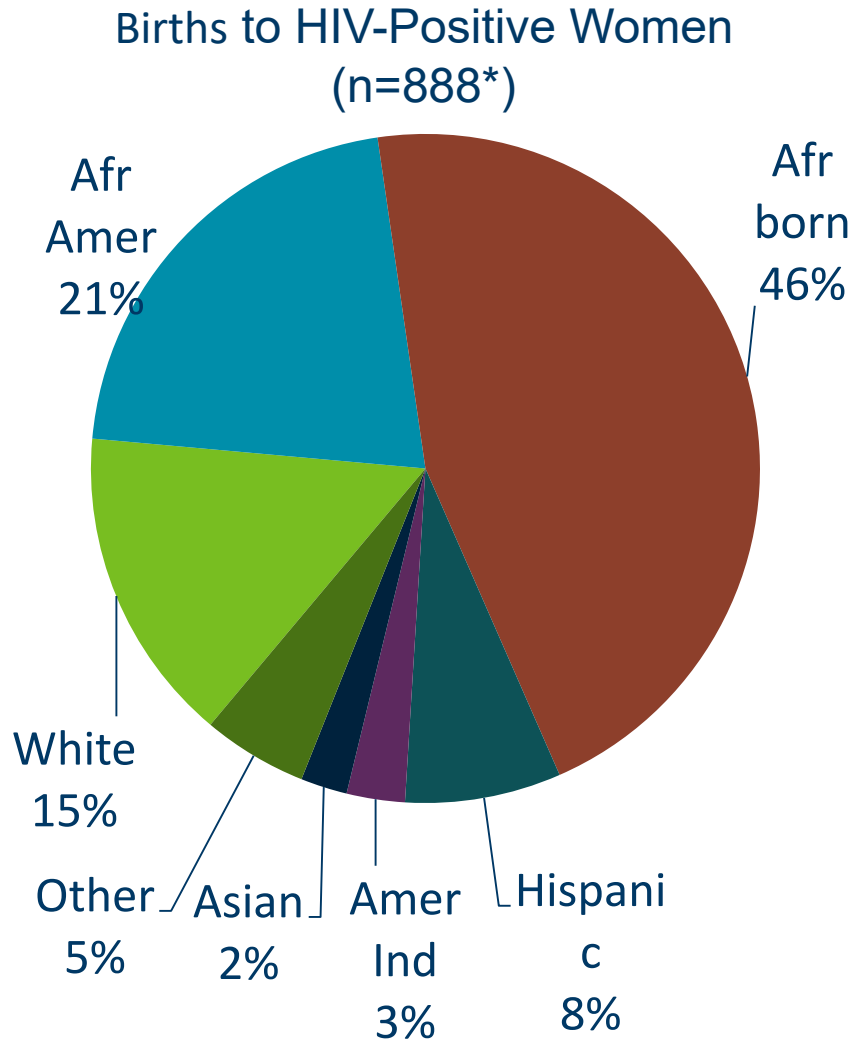
Time of HIV Diagnosis	Number (%)
Before pregnancy	5 (45)
During pregnancy, before delivery	1 (9)
At delivery	2 (18)
After birth	3 (27)
Total	11 (100)

Births to HIV-Positive Women and Perinatal HIV Infections by Mother's Race/Ethnicity, Minnesota 2000-2016

Mother's Race/Ethnicity	Births to HIV-Positive Women No. (%)	Perinatal HIV Infections No. (%)
White	136 (15)	1 (9)
African-American	189 (21)	4 (36)
African-born	406 (46)	5 (45)
Hispanic	67 (8)	1 (9)
American Indian	25 (3)	0 (0)
Asian	20 (2)	0 (0)
Multi-Racial	45 (5)	0 (0)
Total	888* (100)	11 (100)

* Excludes 10 births to women with an unknown race.

Births to HIV-Positive Women and Perinatal HIV Infections by Mother's Race/Ethnicity, Minnesota 2000-2016



* Excludes 10 births to women with an unknown race.

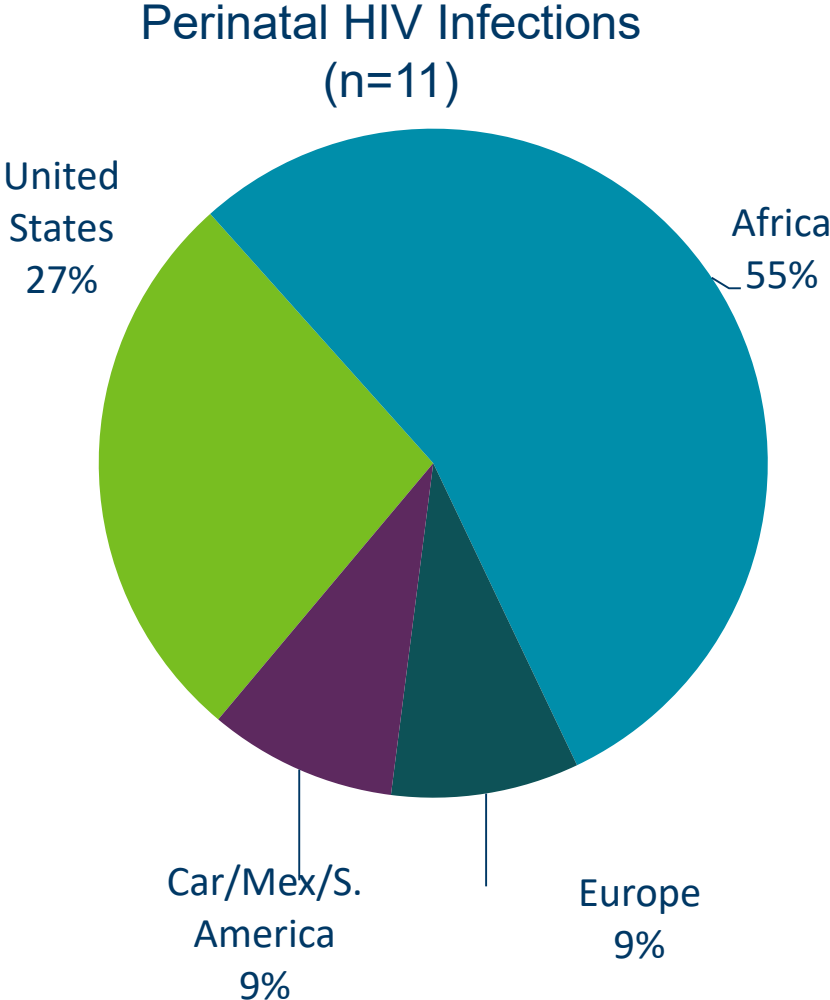
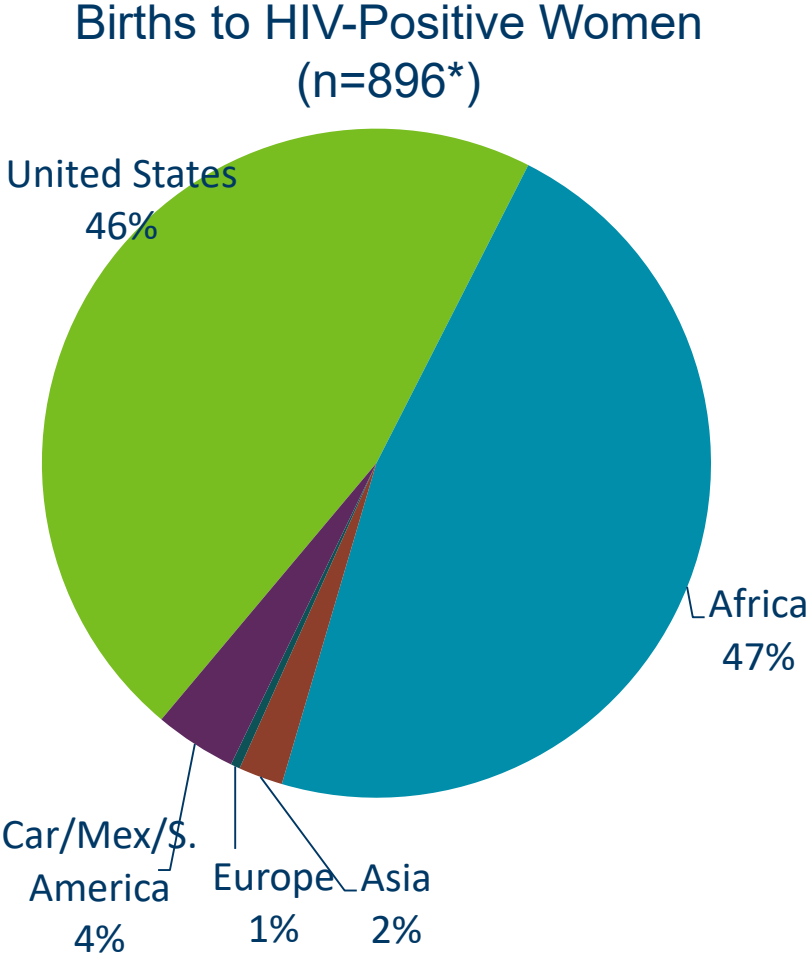
Amer Ind = American Indian Afr Amer = African American (Black, not African-born) Afr born = African-born (Black, African-born)

Births to HIV-Positive Women and Perinatal HIV Infections by Mother's Region of Birth, Minnesota 2000-2016

Mother's Region of Birth	Births to HIV-Positive Women No. (%)	Perinatal HIV Infections No. (%)
United States	411 (46)	3 (27)
Africa	417 (47)	6 (55)
Asia	19 (2)	0 (0)
Europe	4 (1)	1 (9)
Caribbean/Mexico/ South America	35 (4)	1 (9)
Total	886* (100)	11 (100)

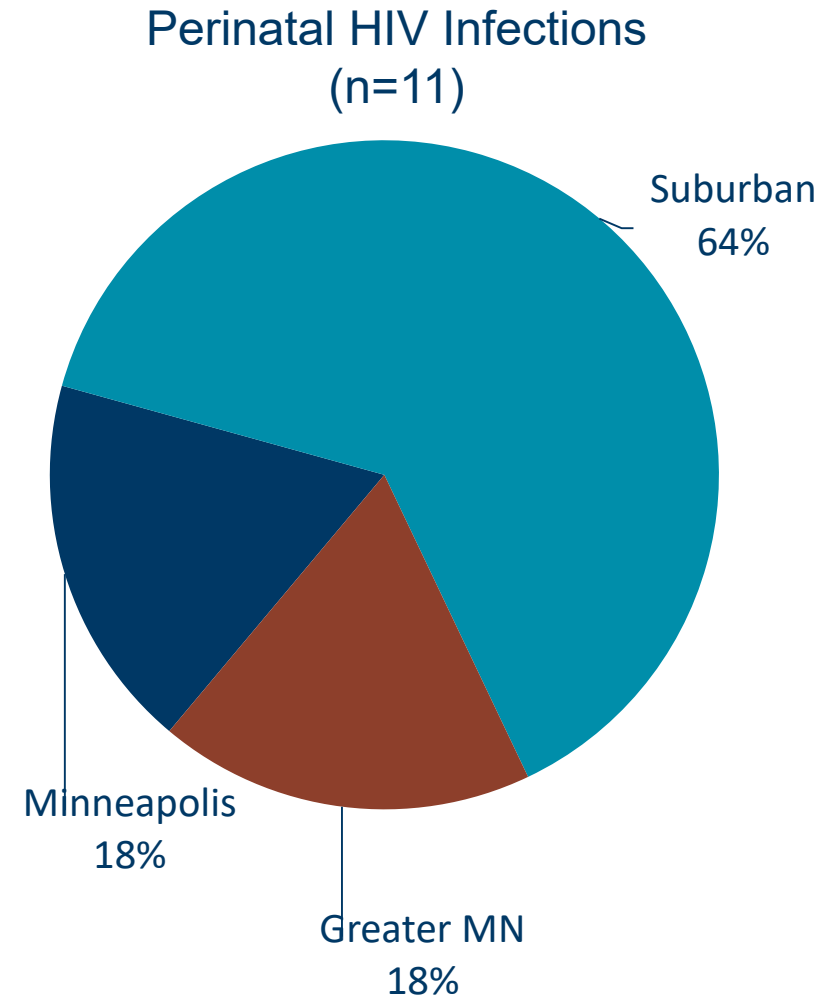
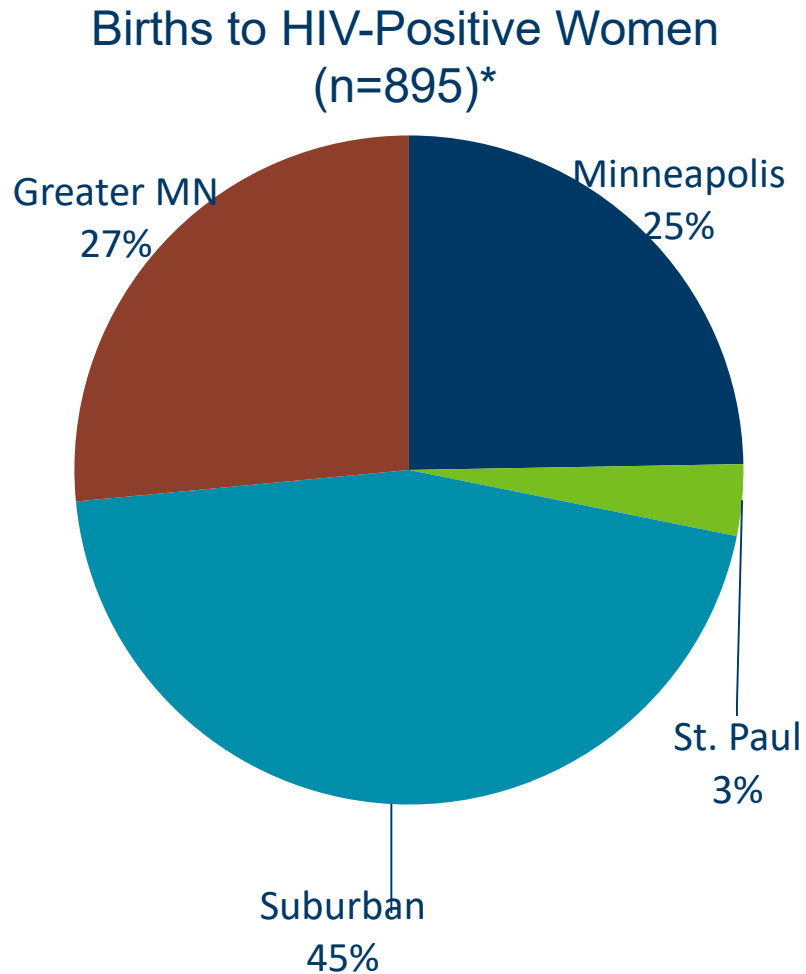
* Excludes 12 births to women with an unknown region of birth.

Births to HIV-Positive Women and Perinatal HIV Infections by Mother's Region of Birth, Minnesota 2000-2016



* Excludes 2 births to women with an unknown region of birth.
Car = Caribbean, Mex = Mexico, S. America = South America

Births to HIV-Positive Women and Perinatal HIV Infections by Mother's Residence, Minnesota 2000-2016



* Excludes 3 births with unknown residence

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