

Pediatric HIV/AIDS Cases* in Florida, through 2010

Bureau of HIV/AIDS

HIV/AIDS Surveillance Section

(850) 245-4430

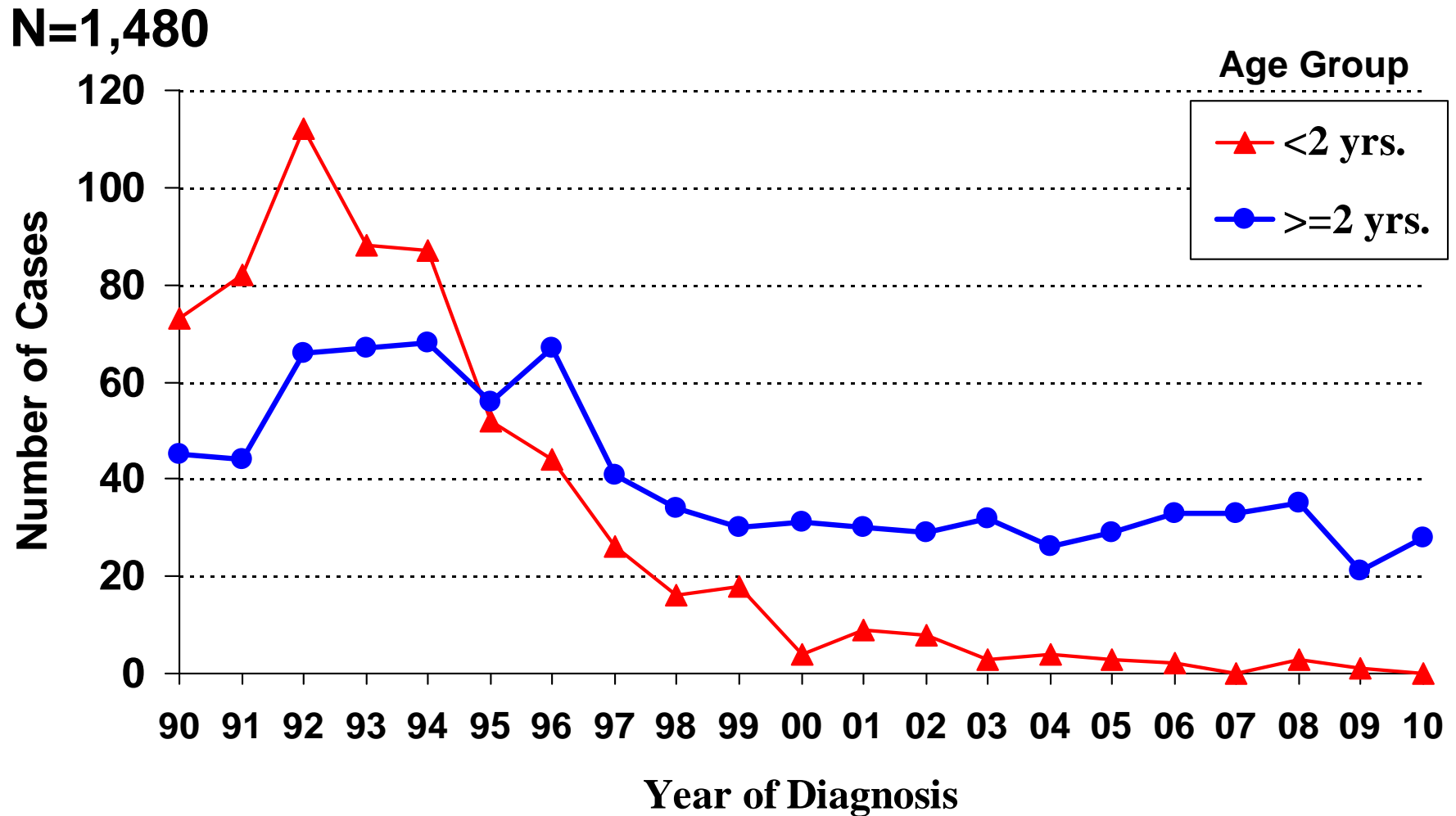
***HIV/AIDS cases infected with HIV UNDER 13 years of age.**

Data as of 08/31/2011.

Due to reporting lags, 2010 data are provisional.



Pediatric AIDS Cases by Age Group and Year of Diagnosis, Florida, 1990-2010*

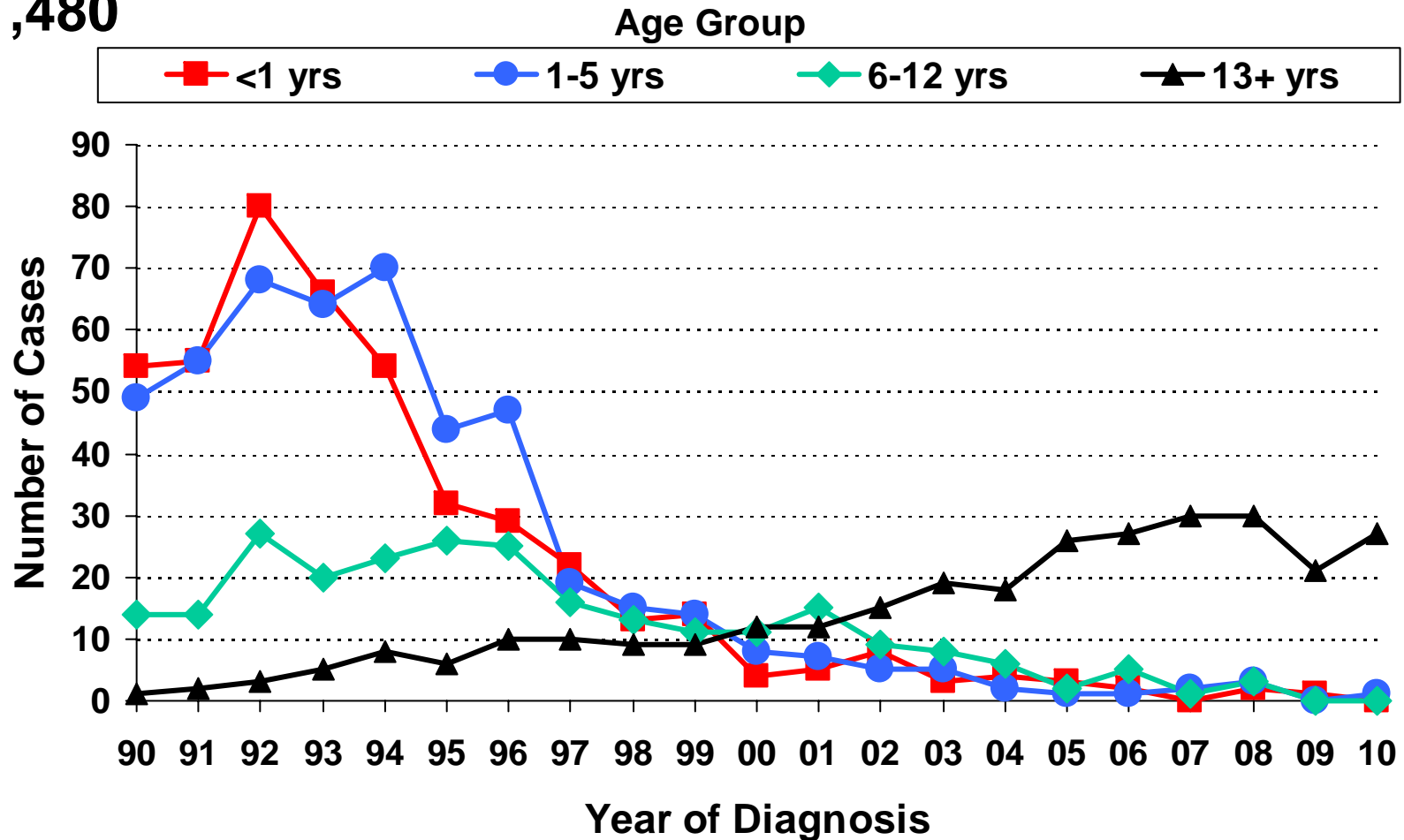


These data represent a 84% decline in pediatric AIDS cases *diagnosed* from 1992 (N=178) to 2010 (N=28).

*Due to reporting lags, 2010 data are provisional. Data as of 08/31/2011

Pediatric AIDS Cases, By Age Group and Year of Diagnosis, Florida, 1990-2010*

N=1,480

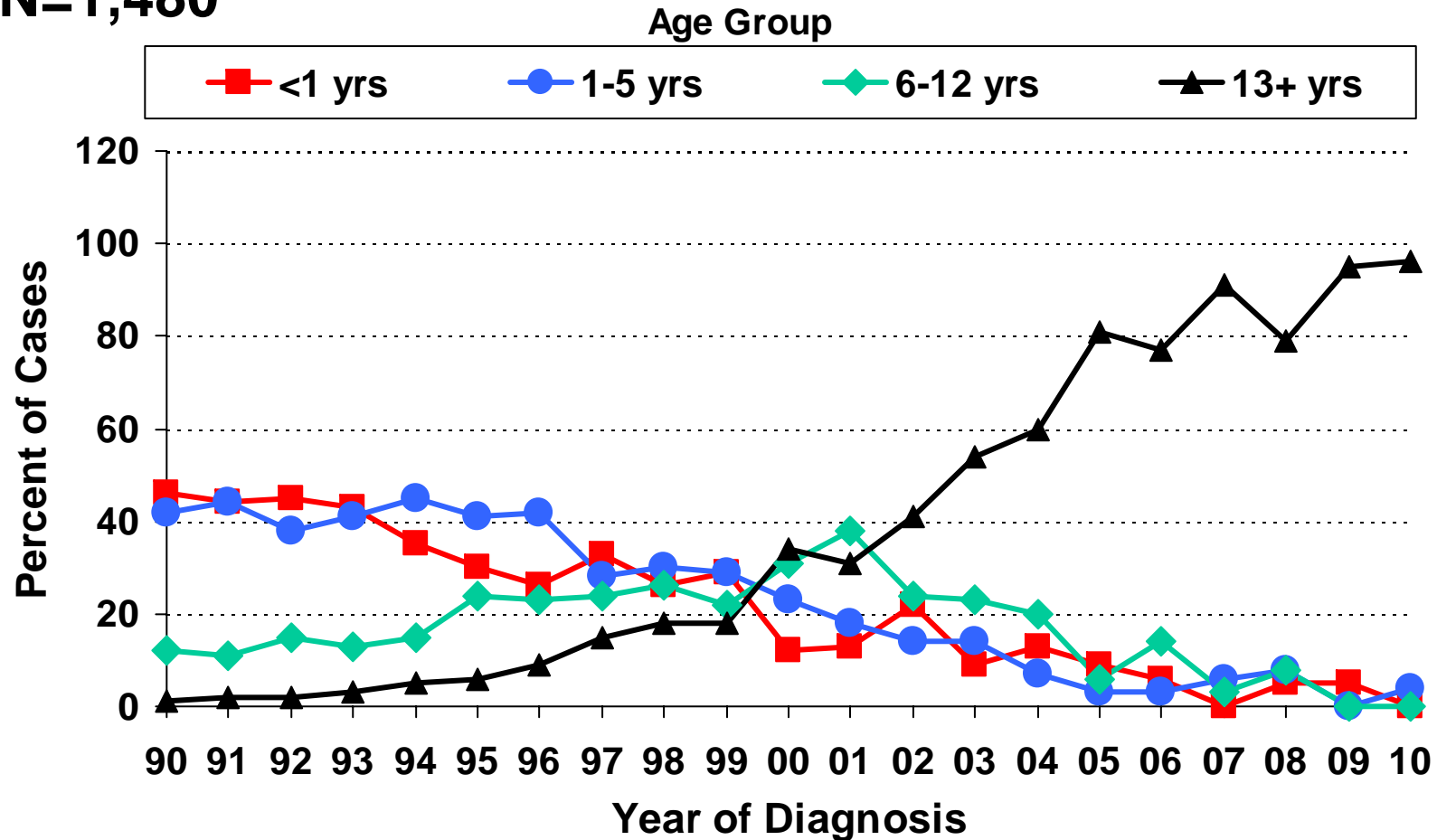


As time goes on, the pediatric HIV case are more likely to NOT develop AIDS until after age 12.
 *2010 data are provisional. Data as of 08/31/2011.



Percent of Pediatric AIDS Cases, By Age Group and Year of Diagnosis, Florida, 1990-2010*

N=1,480



The number of perinatally infected persons aging to adolescence and adulthood *before* being diagnosed with AIDS is increasing gradually. This may be an indication of successful treatment and care.

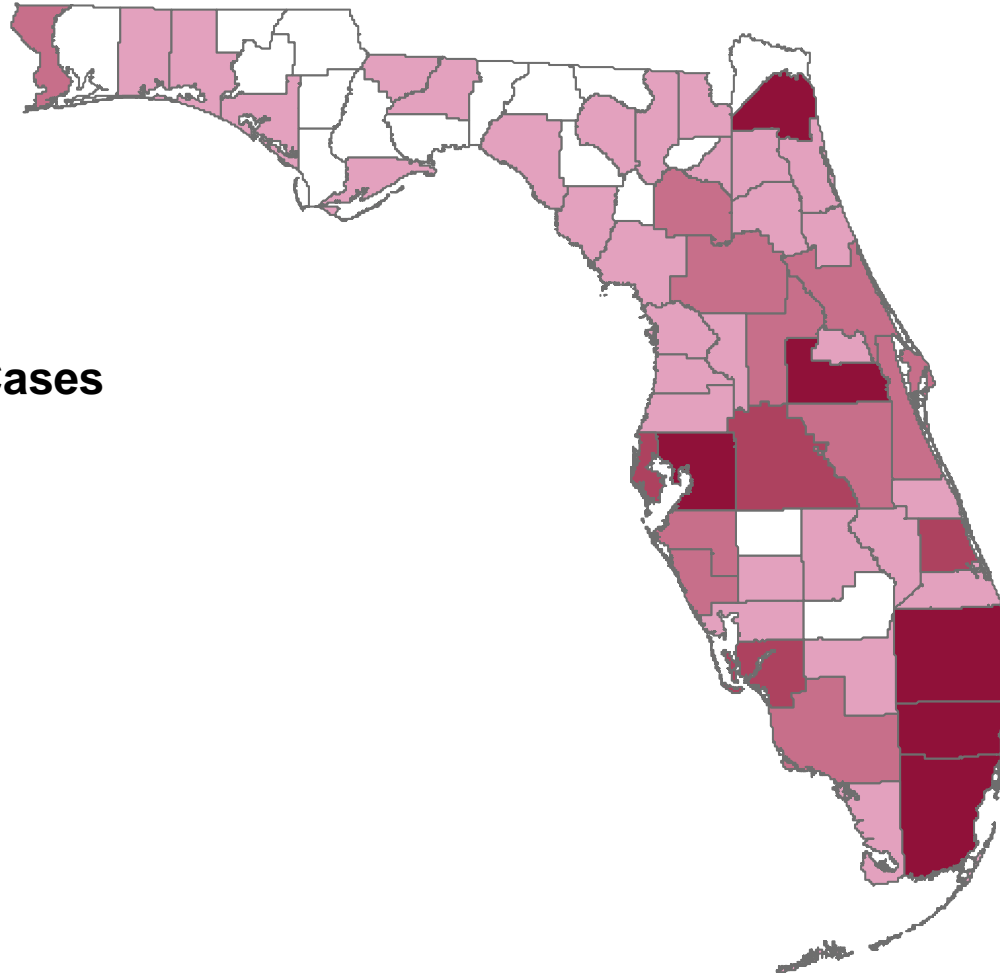
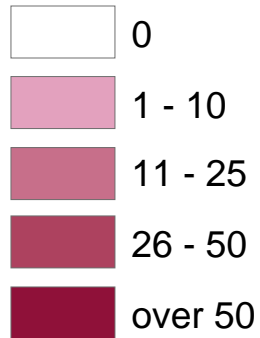
*2010 data are provisional. Data as of 08/31/2011.



Cumulative Reported Pediatric AIDS Cases By County, Florida, Reported through 2010

N=1,833

Cumulative AIDS Cases

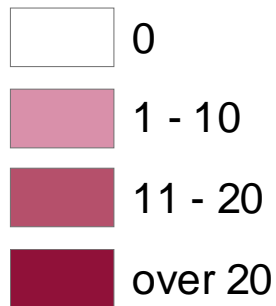


Data as of 08/31/2011

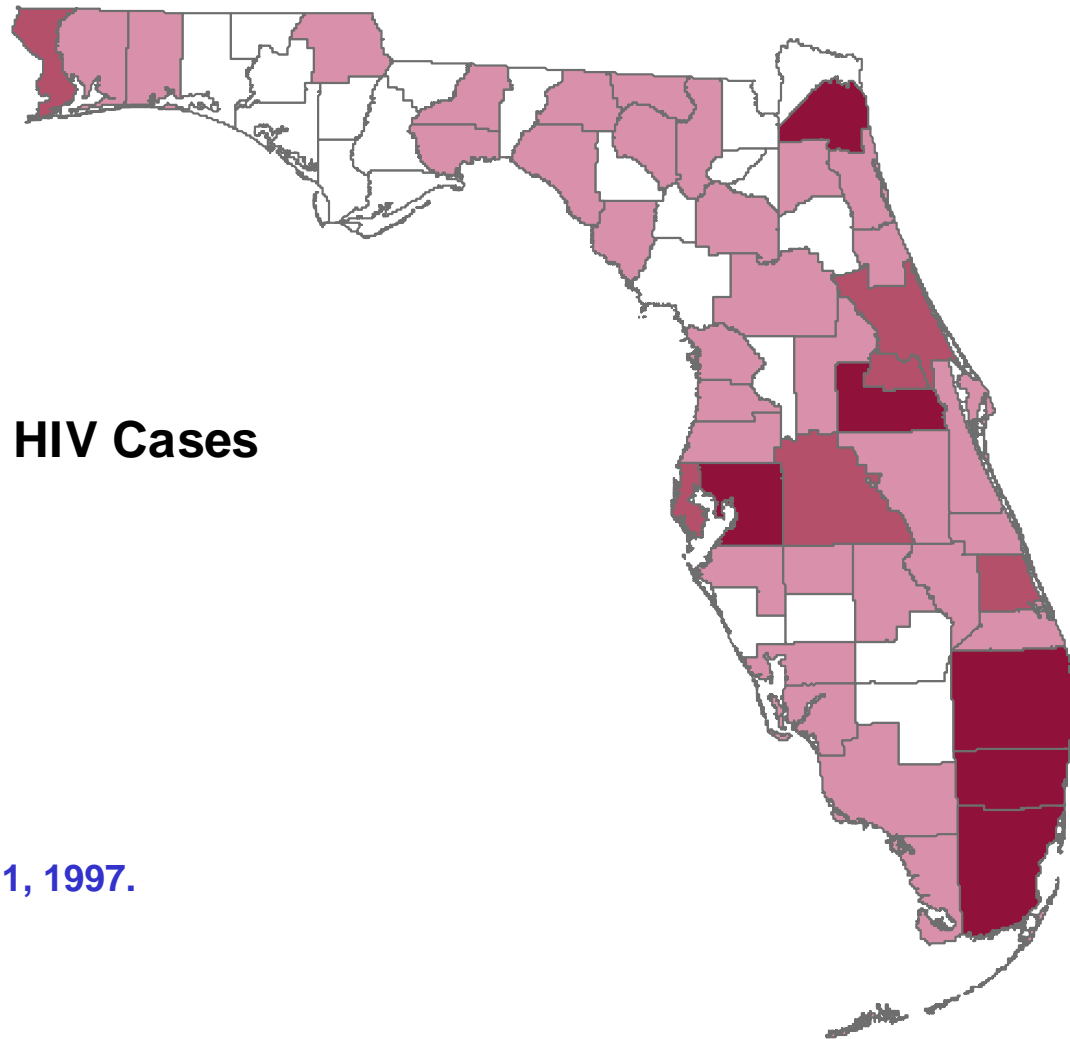
Cumulative Reported Pediatric HIV (not AIDS) Cases By County, Florida, Reported through 2010

N=638

Cumulative HIV Cases



HIV reportable July 1, 1997.



Cumulative Pediatric AIDS Cases Reported by State through 2009

Reporting State	# of Cases	% of Total
New York	2,438	26%
Florida	1,577	17%
New Jersey	809	9%
California	696	7%
Texas	399	4%
Pennsylvania	375	4%
Maryland	332	4%
Illinois	289	3%
Georgia	253	3%
Massachusetts	227	2%
Connecticut	188	2%
Virginia	185	2%
District of Columbia	192	2%
Remainder of Area*	1,488	16%
Total Cases	9,448	100%

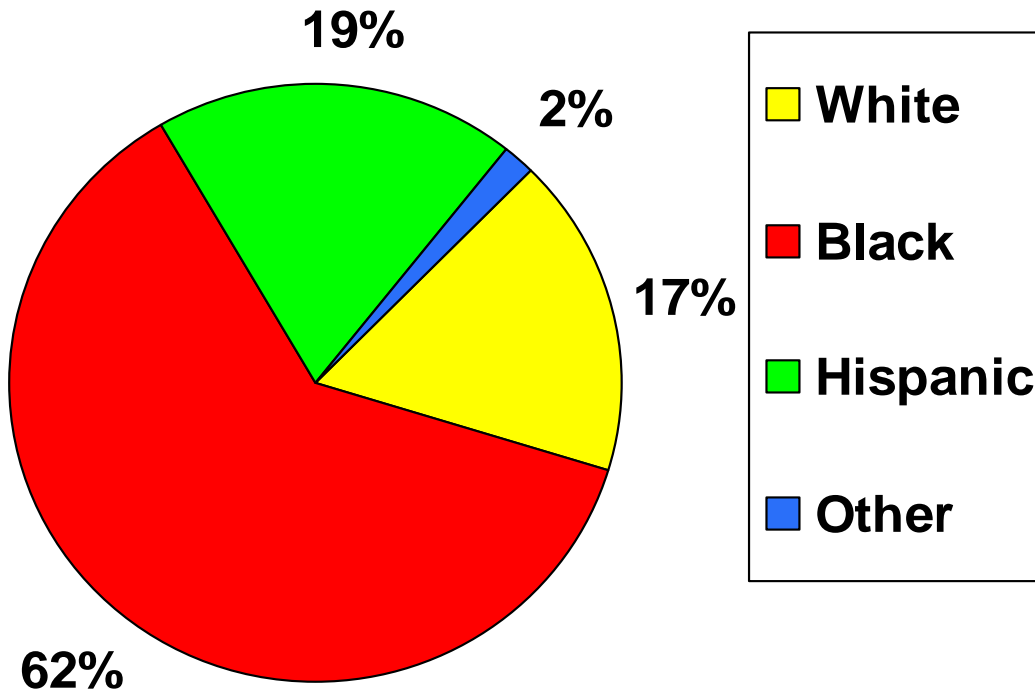
Source: Cumulative Data from CDC, HIV/AIDS Surveillance Report, 2009, Table 20

*Remainder of Area includes the remaining states

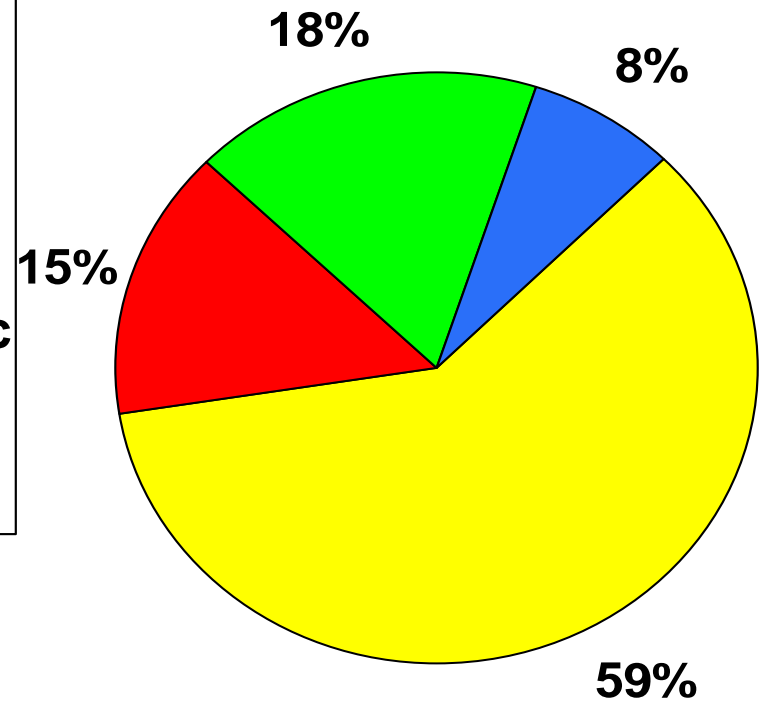


United States Pediatric, Ages <13

**AIDS Cases
By Race/Ethnicity
Reported thru 2009* (N=9,369)**



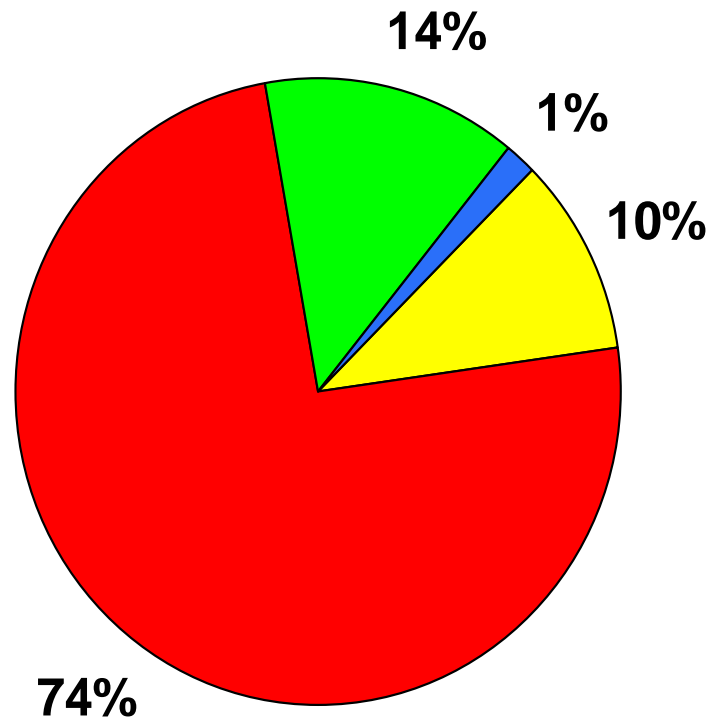
**2000 Population
By Race/Ethnicity
(N=52,190,294)**



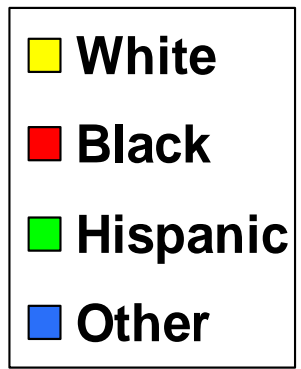
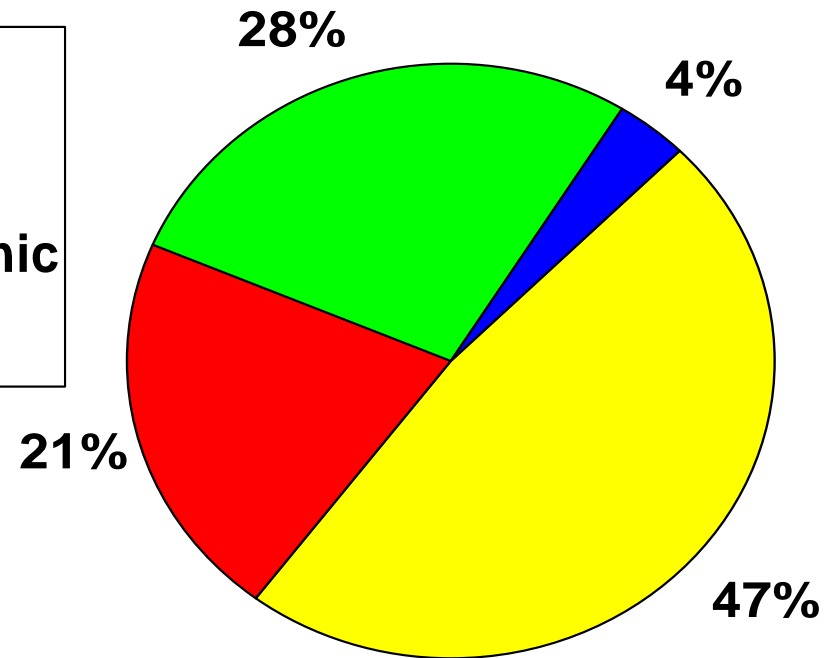
Source: CDC HIV surveillance report, 2009, Table 6

FLORIDA

**Pediatric HIV/AIDS Cases
By Race/Ethnicity
Reported through 2010 (N=2,471)***



**2010 Florida
Population Estimates
(Ages <13)
(N= 2,950,822)**



When compared with the general population of persons less than 13 years of age, blacks are disproportionately affected by HIV/AIDS.

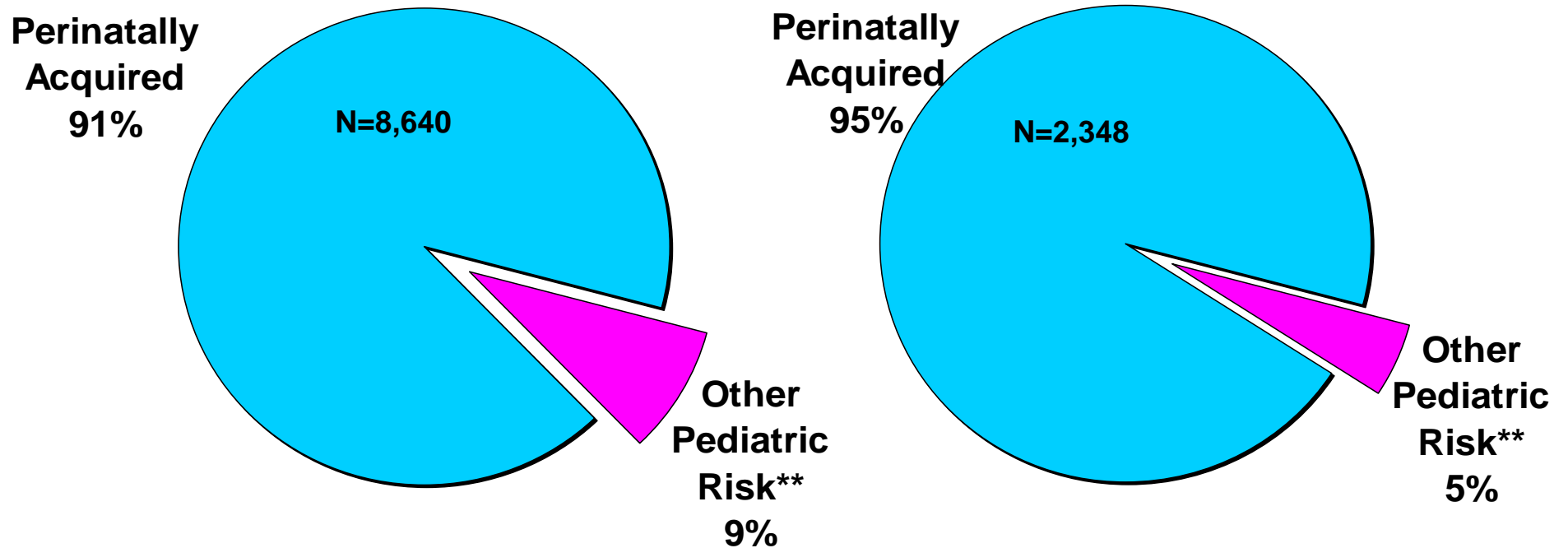
2010 Population Estimates, DOH, Office of Planning, Evaluation and Data Analysis*



Cumulative Pediatric (<13 yr.) HIV/AIDS Cases By Exposure Category

United States*
(AIDS cases reported thru 2009)
(N=9,448)

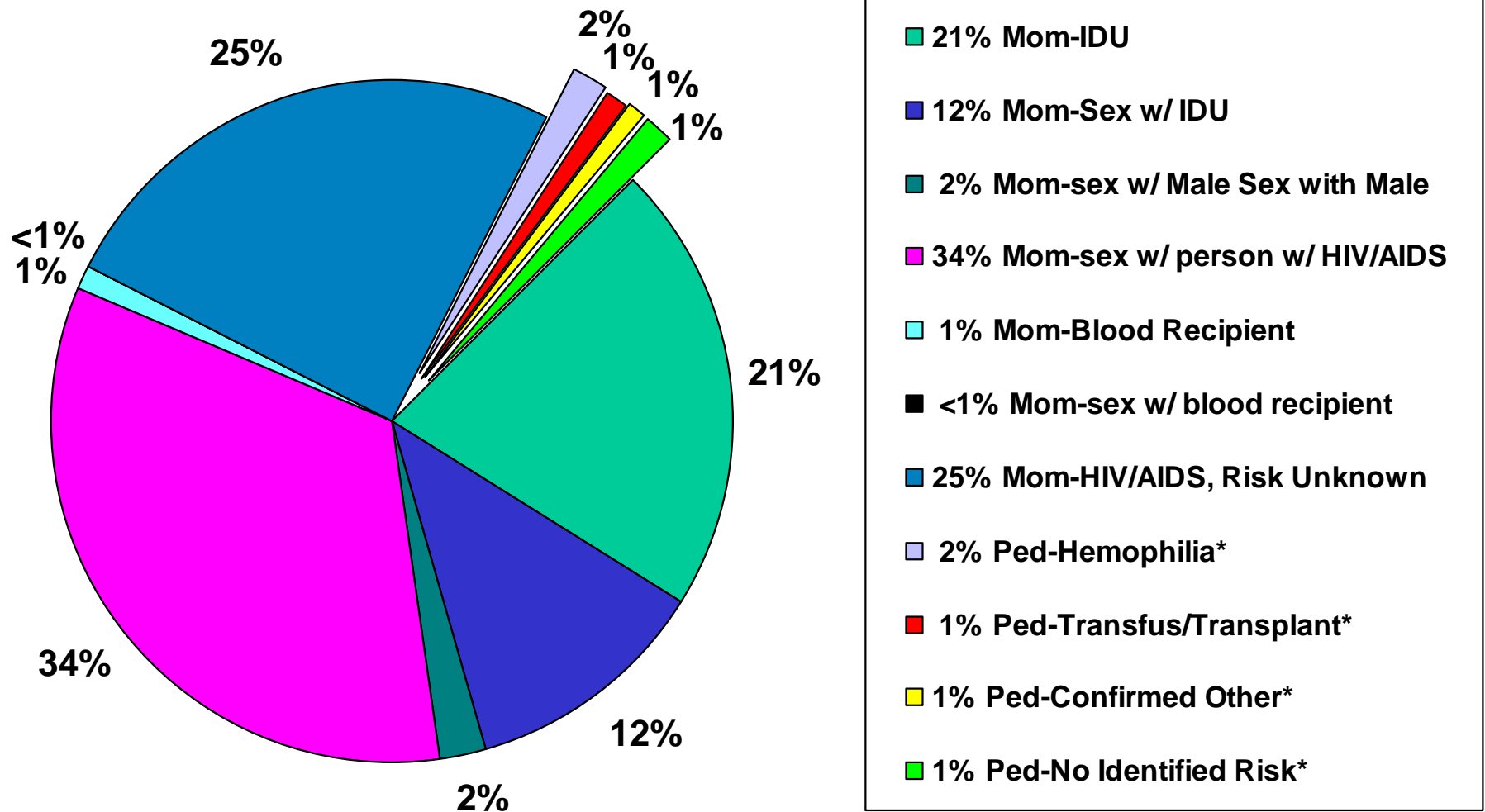
Florida
(reported thru 2010)
(N=2,471)



*US data include estimated AIDS cases from the US and DC.

**Other Pediatric Risk includes sex with male or receipt of blood products.

Cumulative Pediatric HIV/AIDS Cases By “Expanded” Exposure Category Florida, Reported through 2010 (N=2,471)



*Note: 5% (exploded pieces) are *NOT* perinatal transmission cases

Pediatric HIV/AIDS Cases by Mode by Race Florida, Reported through 2010

Exposure Category	White		Black		Hispanic		Other Race		Total	
	No.	Percent	No.	Percent	No.	Percent	No.	Percent	No.	Percent
Mom w/ HIV/AIDS Risk	208	82%	1,789	97%	311	92%	40	98%	2,348	95%
Ped Other Risk*	42	17%	27	1%	16	5%	1	2%	86	3%
Ped Unknown Risk	4	2%	23	1%	10	3%	0	0%	37	1%
Total	254	100%	1,839	100%	337	100%	41	100%	2,471	100%

*Ped Other Risk includes female sex with male (sex abuse cases), transfusion & hemophilia cases.

The majority (74%) of the perinatally acquired cases were black, followed by Hispanic (14%) and white (10%). Two percent were of another race (or mixed race).

Prevalence of AIDS-Defining Conditions Most Commonly Reported Among Pediatric Cases Florida, Reported through 2010, N=1,856*

<u>DISEASE / CONDITION</u>	<u>NUMBER</u>	<u>% OF CASES</u>
Pneumocystis pneumonia	487	26%
Bacterial infections	432	23%
Candidiasis, esophageal	403	22%
Wasting syndrome	367	20%
Lymphoid interstitial pneumonia	302	16%
HIV encephalopathy	254	14%
Cytomegalovirus disease	145	8%
Herpes simplex	113	6%
Candidiasis, bronchi or lungs	84	5%
Cryptosporidiosis	81	4%
CD4 immune deficiency (only)	230	12%

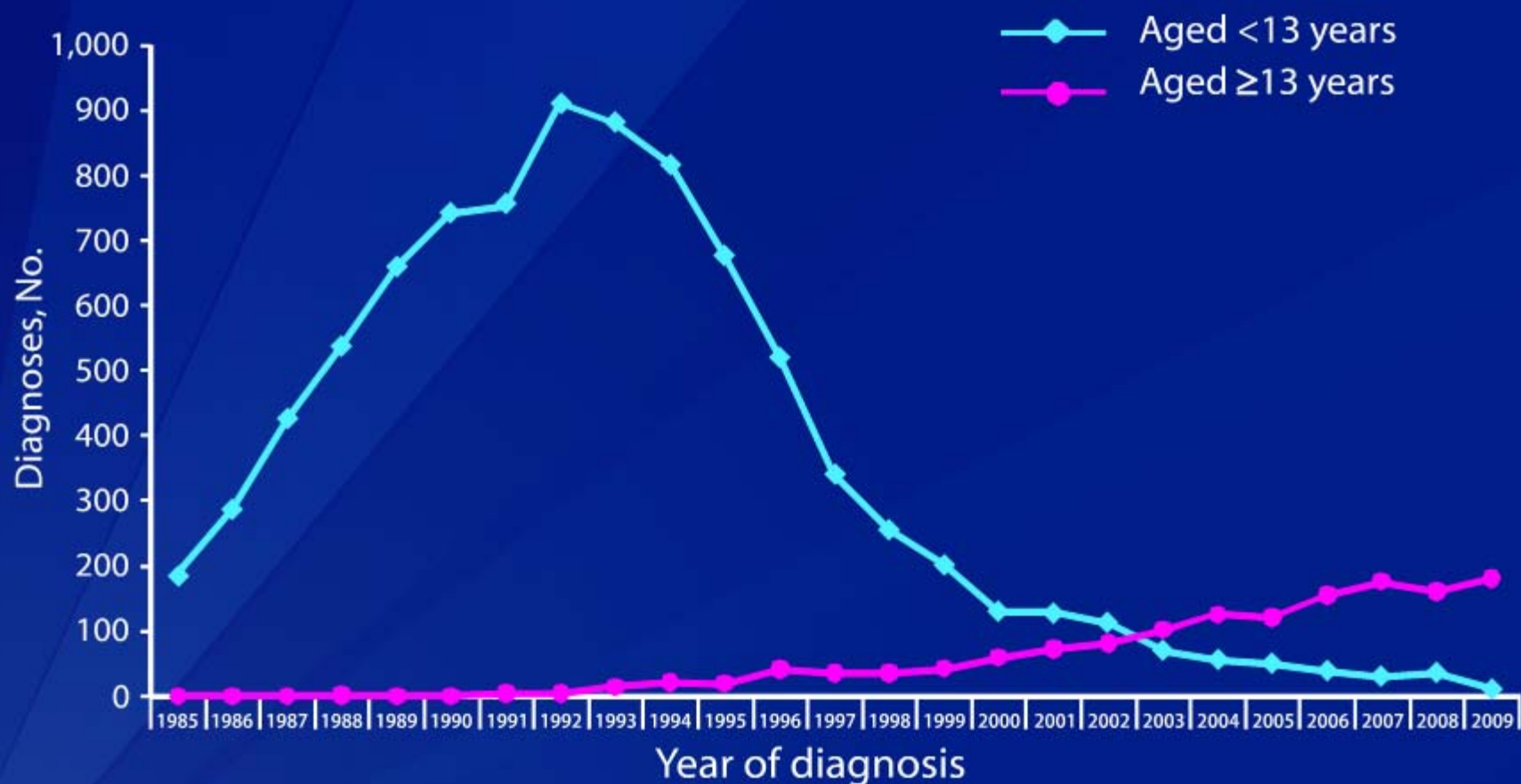
Note: Data are not mutually exclusive, many cases have more than one disease.

**Note: N=2,471 HIV/AIDS pediatric cases, of which 1,856 (75%) are AIDS.
*2010 data are provisional. Data as of 08/31/2011.**

Perinatal HIV/AIDS Cases

Data by Year of Birth

AIDS Diagnoses among Perinatally Infected Persons, 1985–2009—United States and Dependent Areas

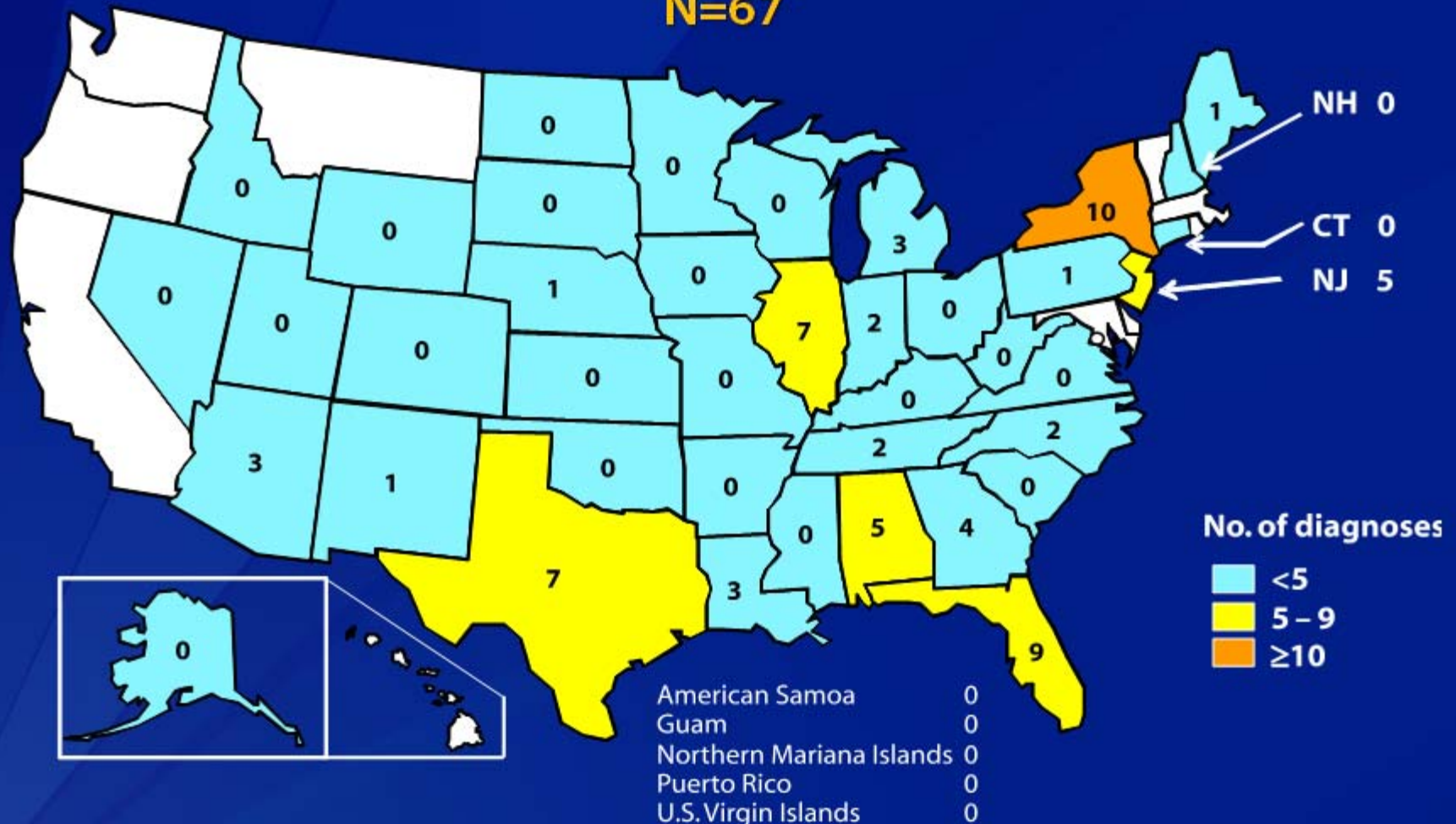


Note. All displayed data have been statistically adjusted to account for reporting delays, but not for incomplete reporting.



Perinately Acquired HIV Infections in Children Born During 2009—40 States and 5 U.S. Dependent Areas

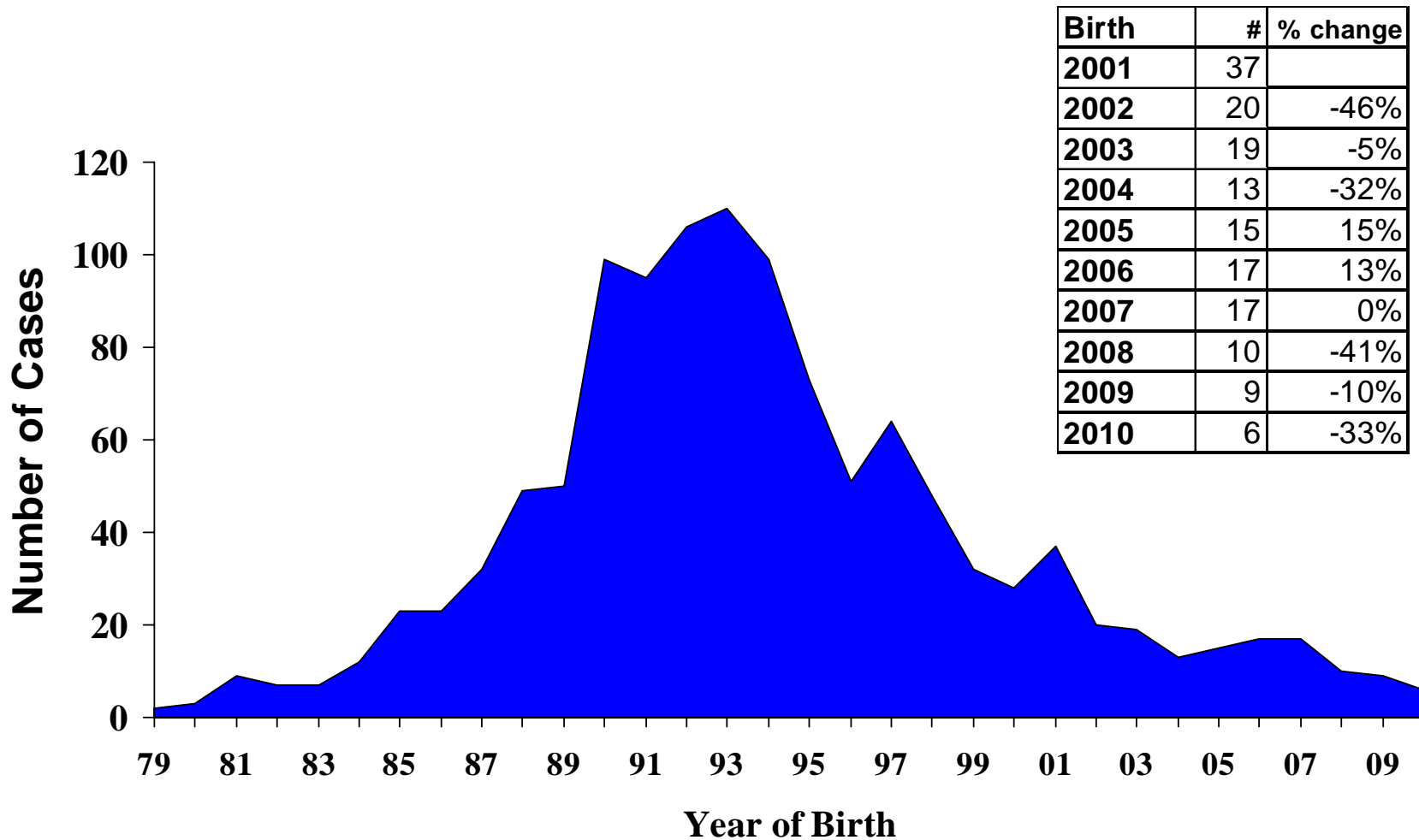
N=67



Note. Data include persons with a diagnosis of HIV infection regardless of stage of disease at diagnosis. All displayed data have been statistically adjusted to account for reporting delays, but not for incomplete reporting.

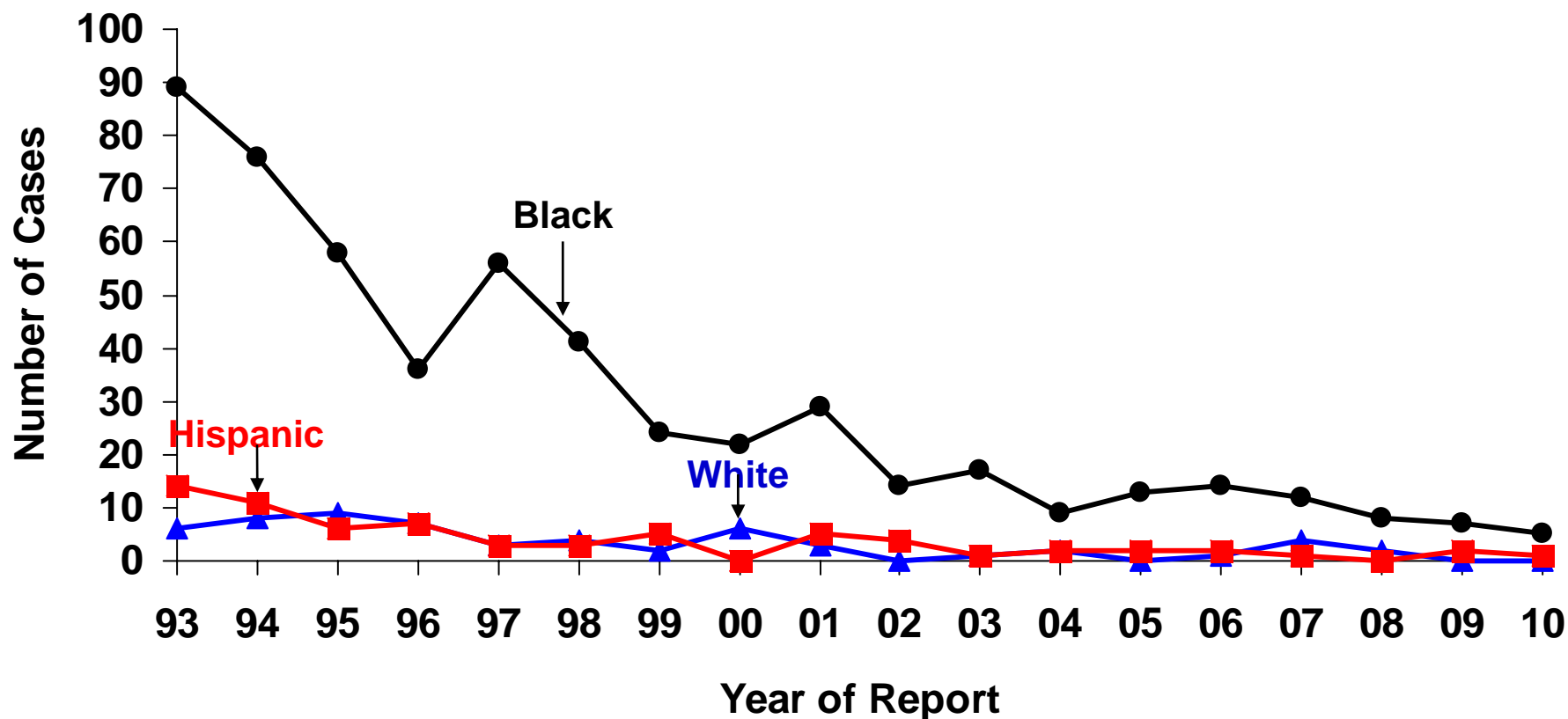


Perinatal HIV/AIDS Cases by Year of Birth BORN in Florida, 1979-2010 (N=1,185)



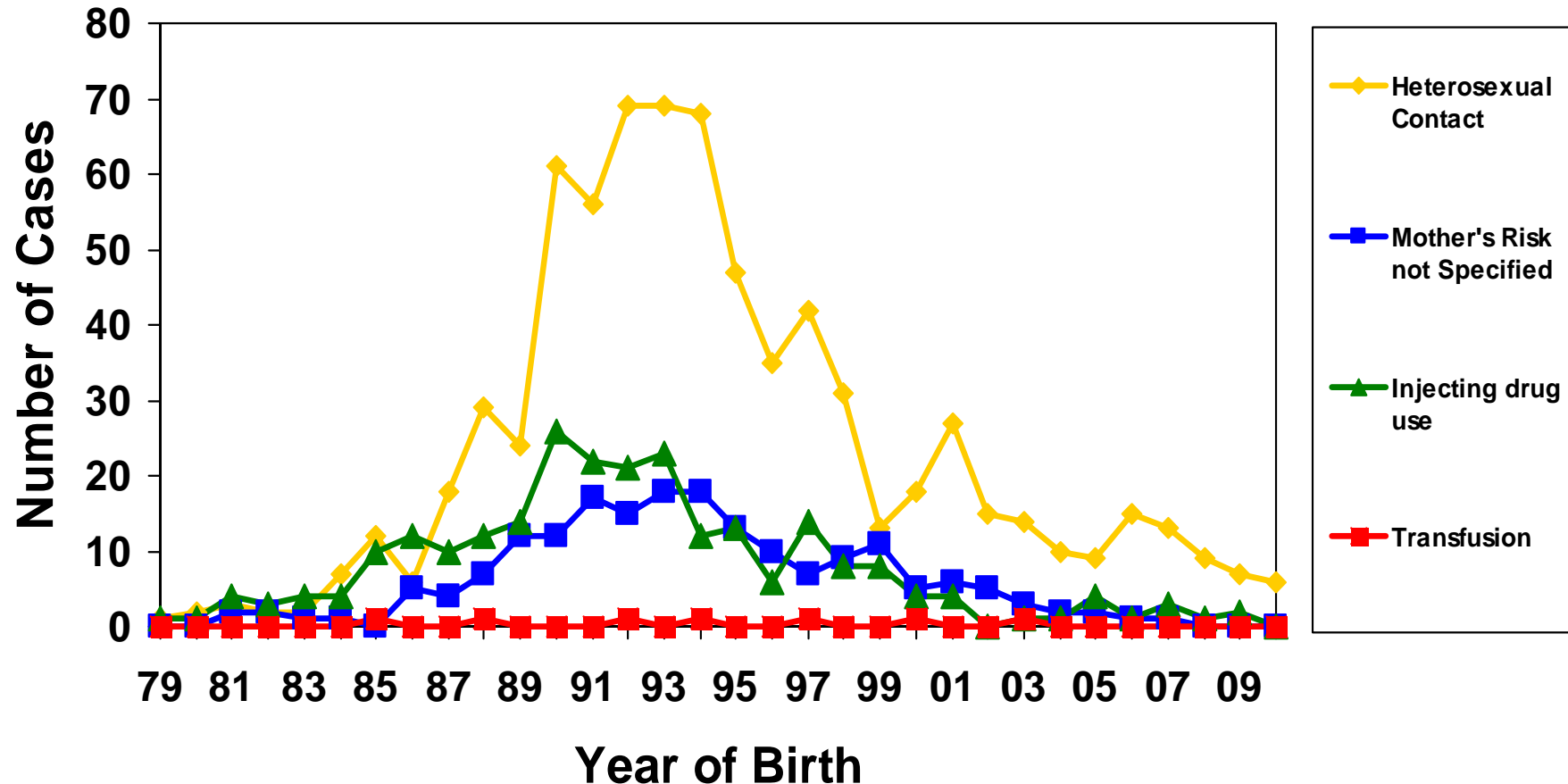
Note: These data represent a **95% decline** in HIV-perinatally infected births from 1993 (N=110) to 2010 (N=6). Includes ALL perinatal HIV/AIDS cases BORN in Florida. HIV Infection Reporting began July, 2007. 2010 data are provisional. Data as of 08/31/2011

Perinatal HIV/AIDS Cases By Year of Birth and Race/Ethnicity* BORN in Florida, 1993-2010



*The majority of the perinatal HIV/AIDS cases born in Florida are black. They represent greater than 70% of the cases for most years. Data for other/mixed race/ethnicity groups (N=19) not shown.

Mother's Exposure Category by Year of Child's Birth for Perinatally Acquired HIV/AIDS BORN in Florida, Born through 2010 (N=1,185)



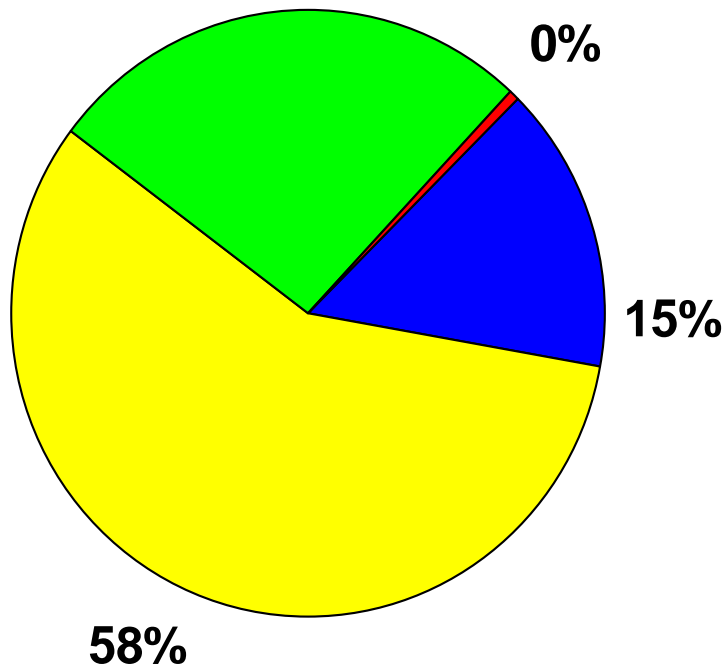
Note: From 1990, the risk of injection use decreased as the risk of heterosexual contact continued to increase. Since 1992 a steady decline was observed for all risks as the annual number of perinatal cases decreased, due to improved prophylaxis against OI's and the use of combination antiretroviral therapy by pregnant women with HIV since 1994. 2010 data are provisional. Data as of 08/31/2011.

Mother's Exposure Category for Perinatally Acquired HIV/AIDS (N=1,185) By Year of Child's Birth, BORN in Florida

Born 1979-1993

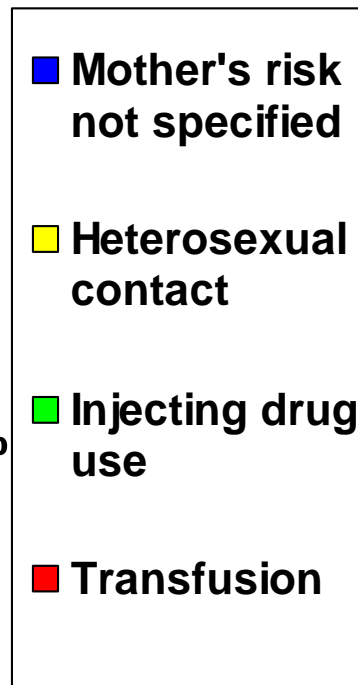
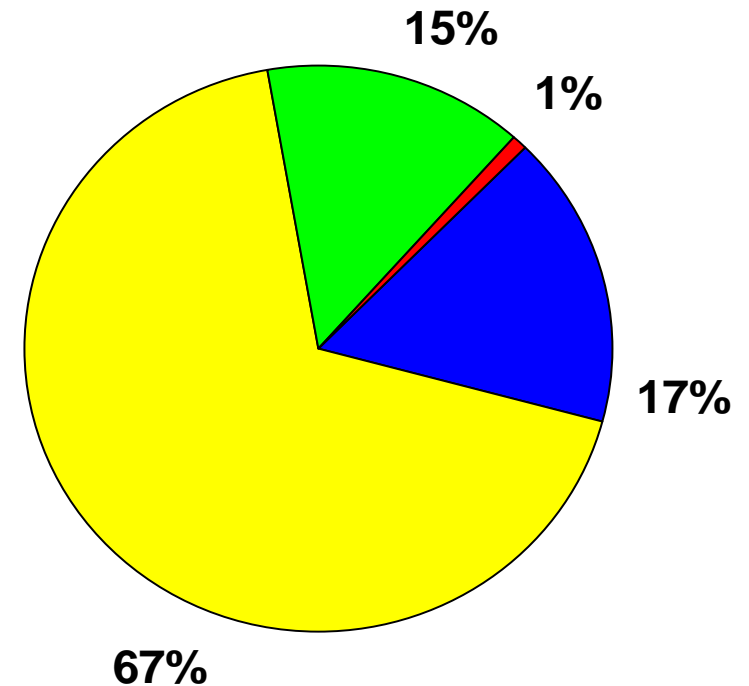
(N =627)

27%



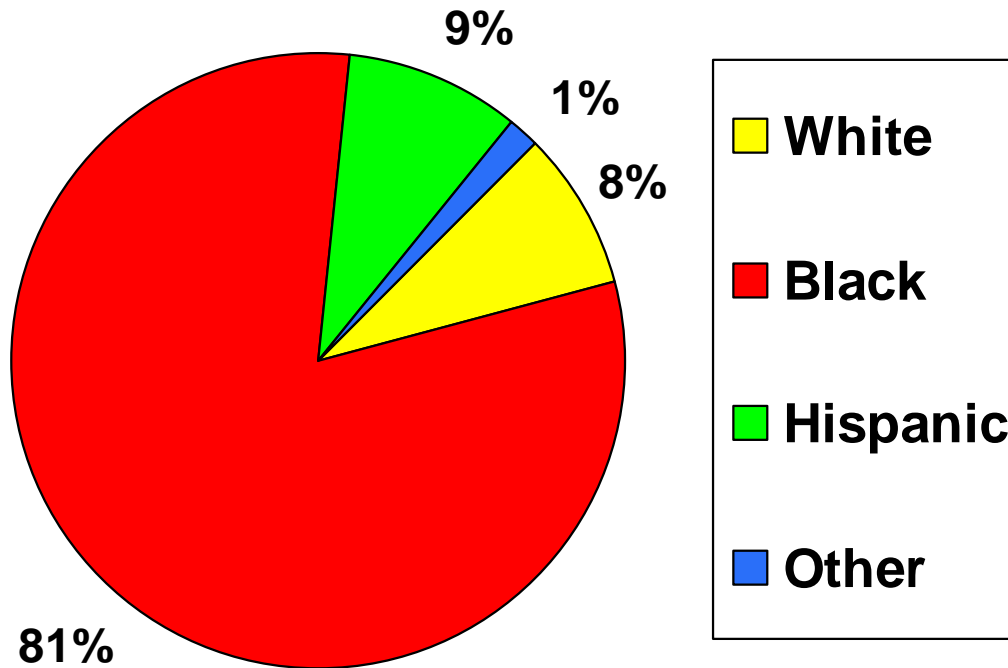
Born 1994-2010

(N =558)

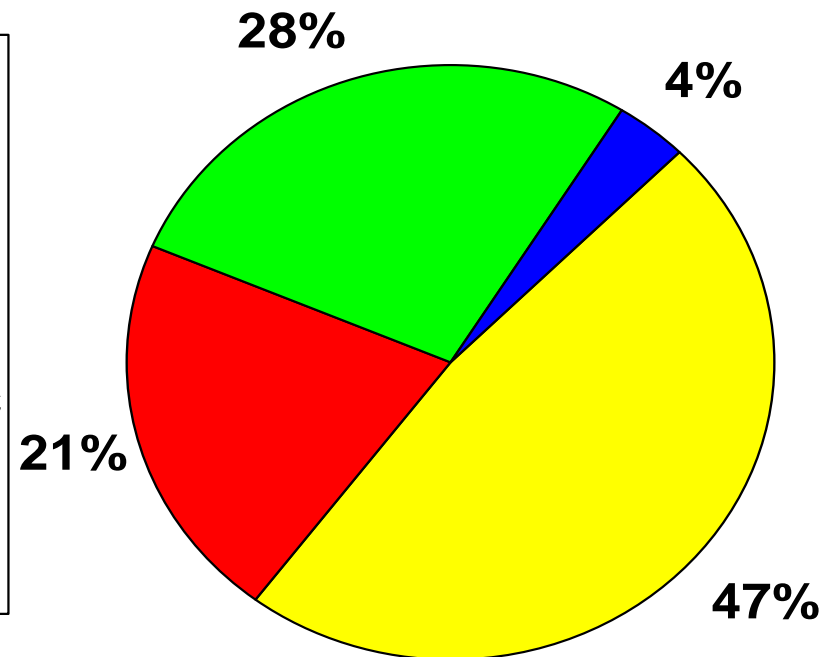


FLORIDA

**Perinatal HIV/AIDS Cases
By Race/Ethnicity
Born in Florida
Through 2010* (N=1,185)**



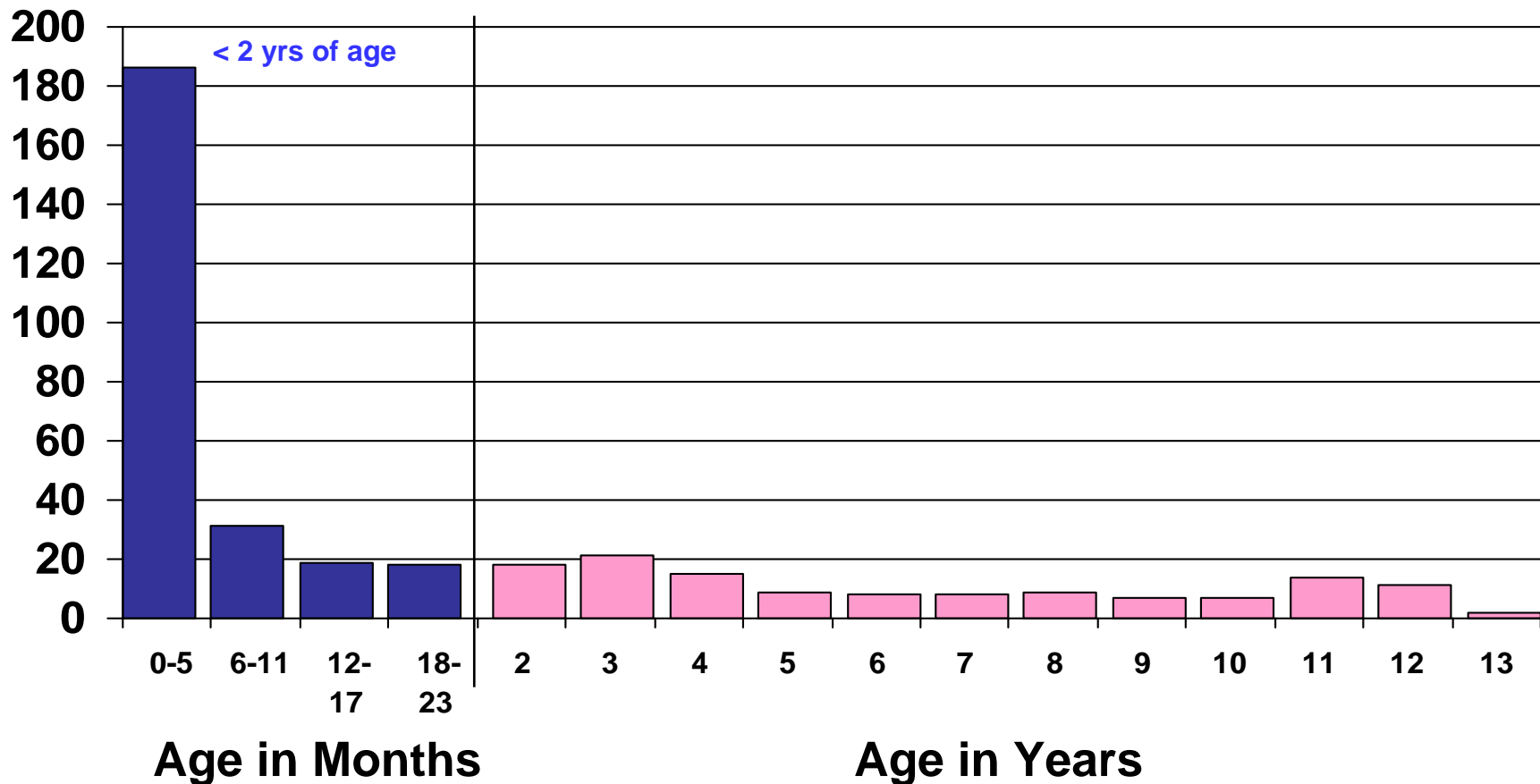
**2010 Florida
Population Estimates
(Ages <13)
(N= 2,950,822)**



2010 data are provisional. Data as of 08/31/2011.

Perinatally Acquired HIV (not AIDS) Cases by Age at Diagnosis (N=383) Florida, Born In Florida through 2010

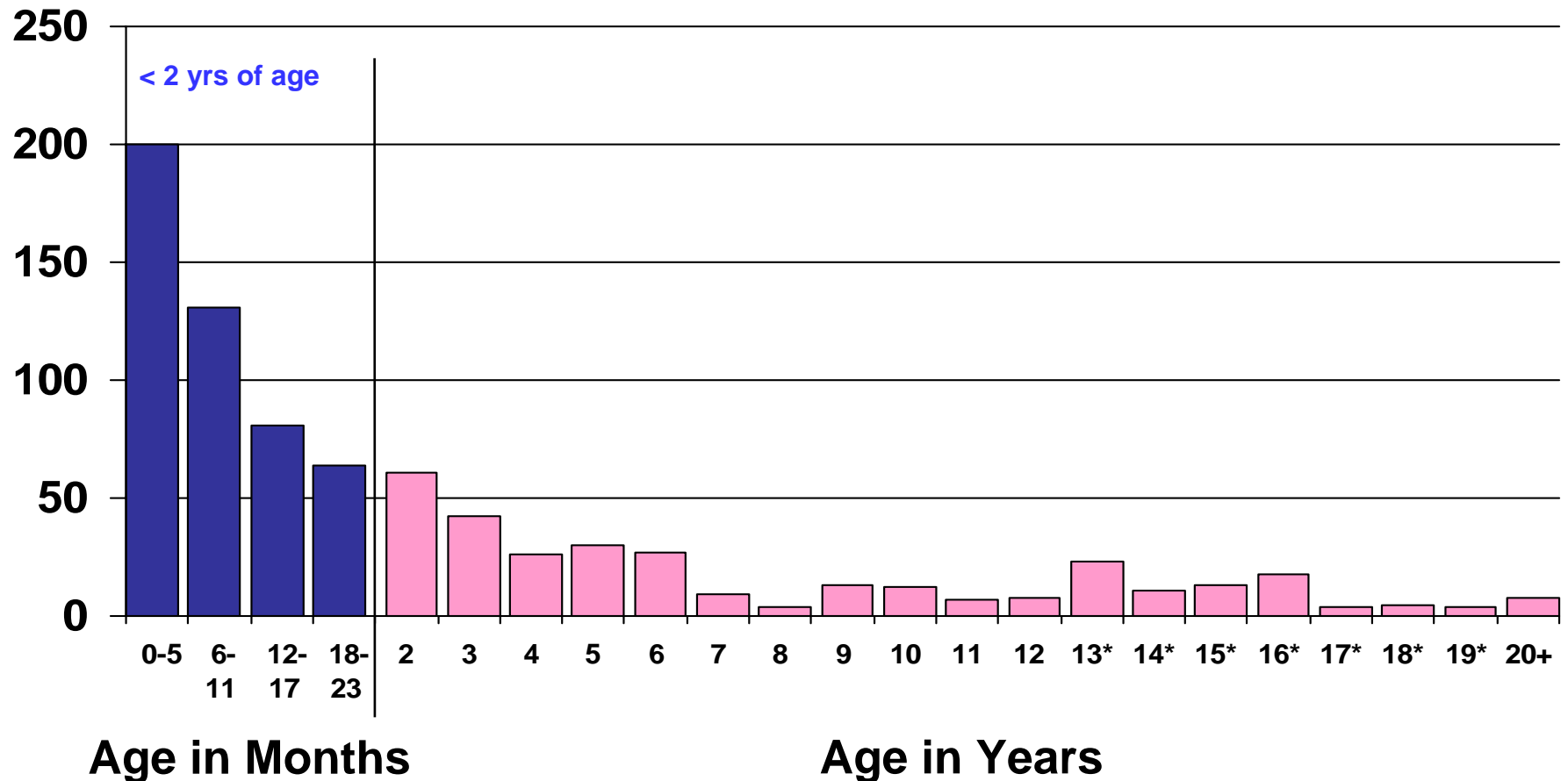
Number of Cases



*48% (N=186) were <6 mos. and 66% (N=254) were <2 yrs..
Furthermore, 2 (1%) were diagnosed after the age of 12, data as of 08/31/2011.

Perinatally Acquired AIDS Cases by Age at Diagnosis (N=801) Florida, Born through 2010

Number of Cases

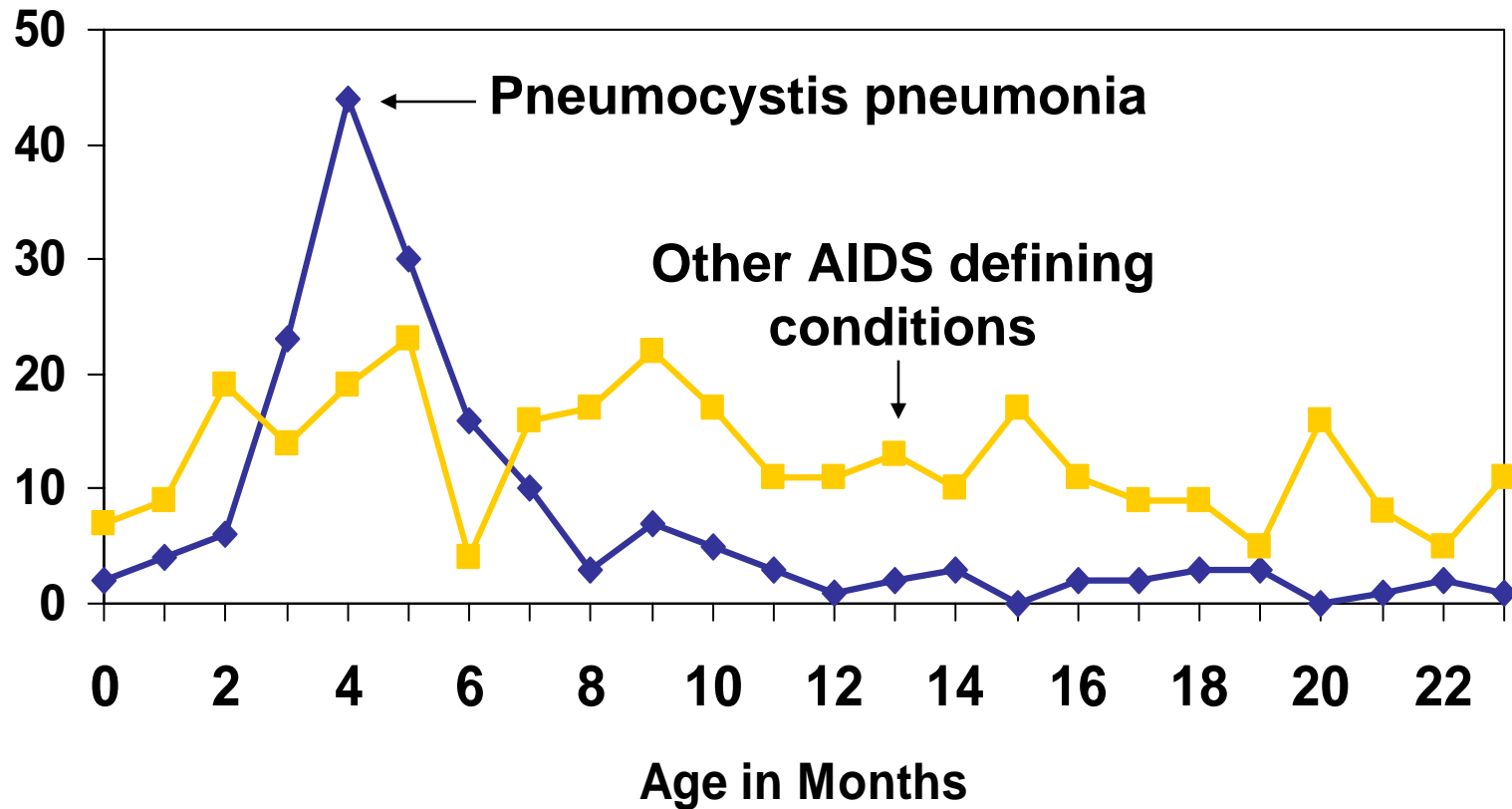


*25% (N=200) were <6 mos. and 59% (N=476) were <2 yrs..

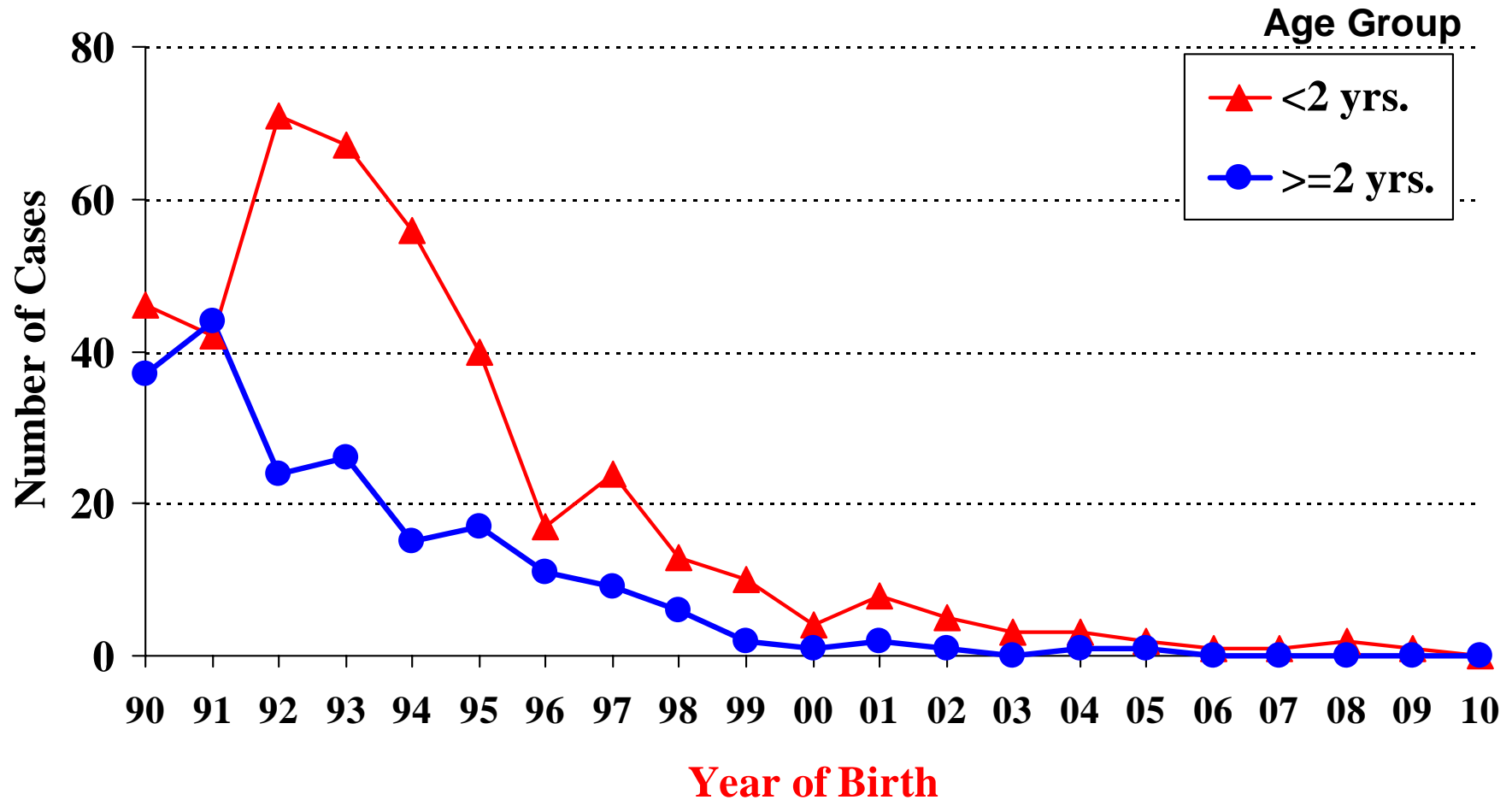
Furthermore, 86 (11%) were diagnosed with AIDS after the age of 12, data as of 08/31/2011.

**AIDS-Defining Conditions for
Perinatally Acquired AIDS Cases (aged <2 yr.)
by Age at Diagnosis
Born in Florida through 2010 (N=476)**

Number of Cases



Perinatal AIDS Cases by Age Group Born IN Florida, By Year of Birth, 1990-2010*



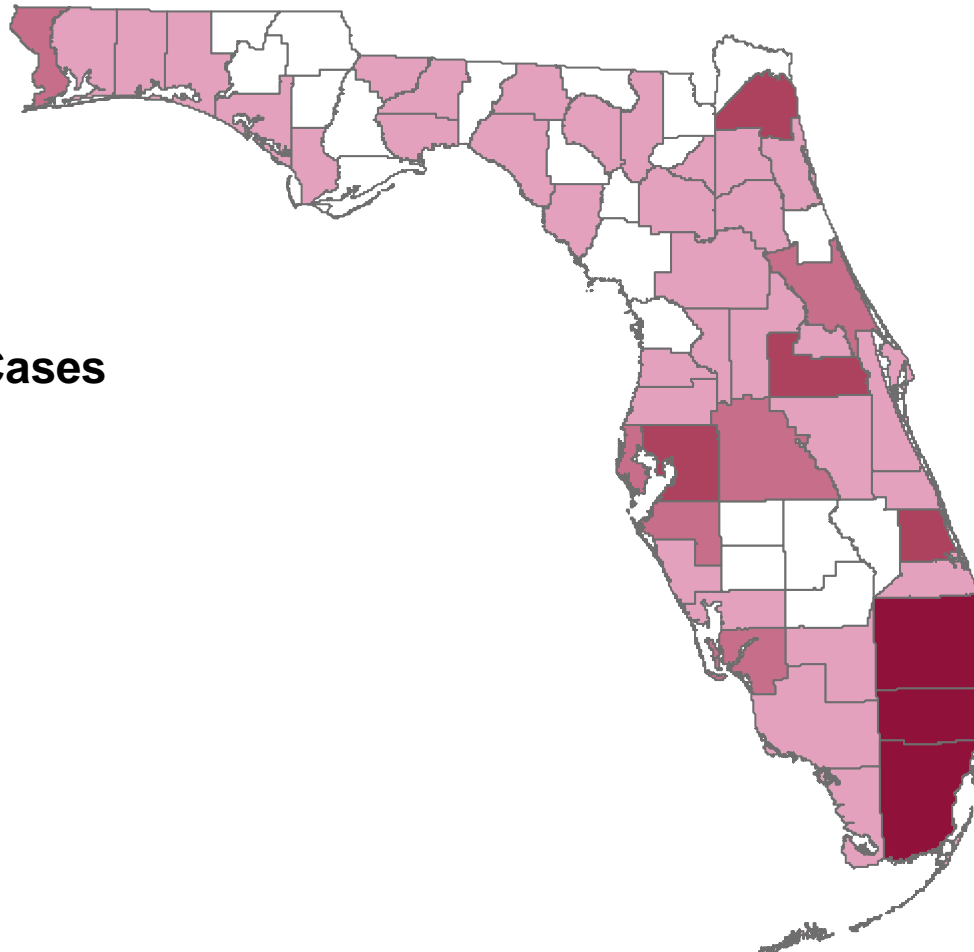
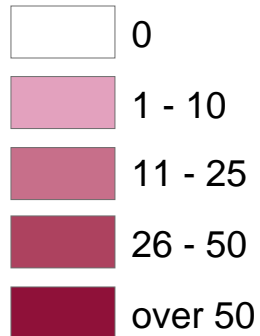
These data represent a 100% decline in HIV-perinatally infected **births** from 1992 (N=95) to 2010 (N=0).

* 2010 data are provisional. Data as of 08/31/2011.

Living Perinatal HIV/AIDS Cases Born through 2010, by County of Birth, Florida

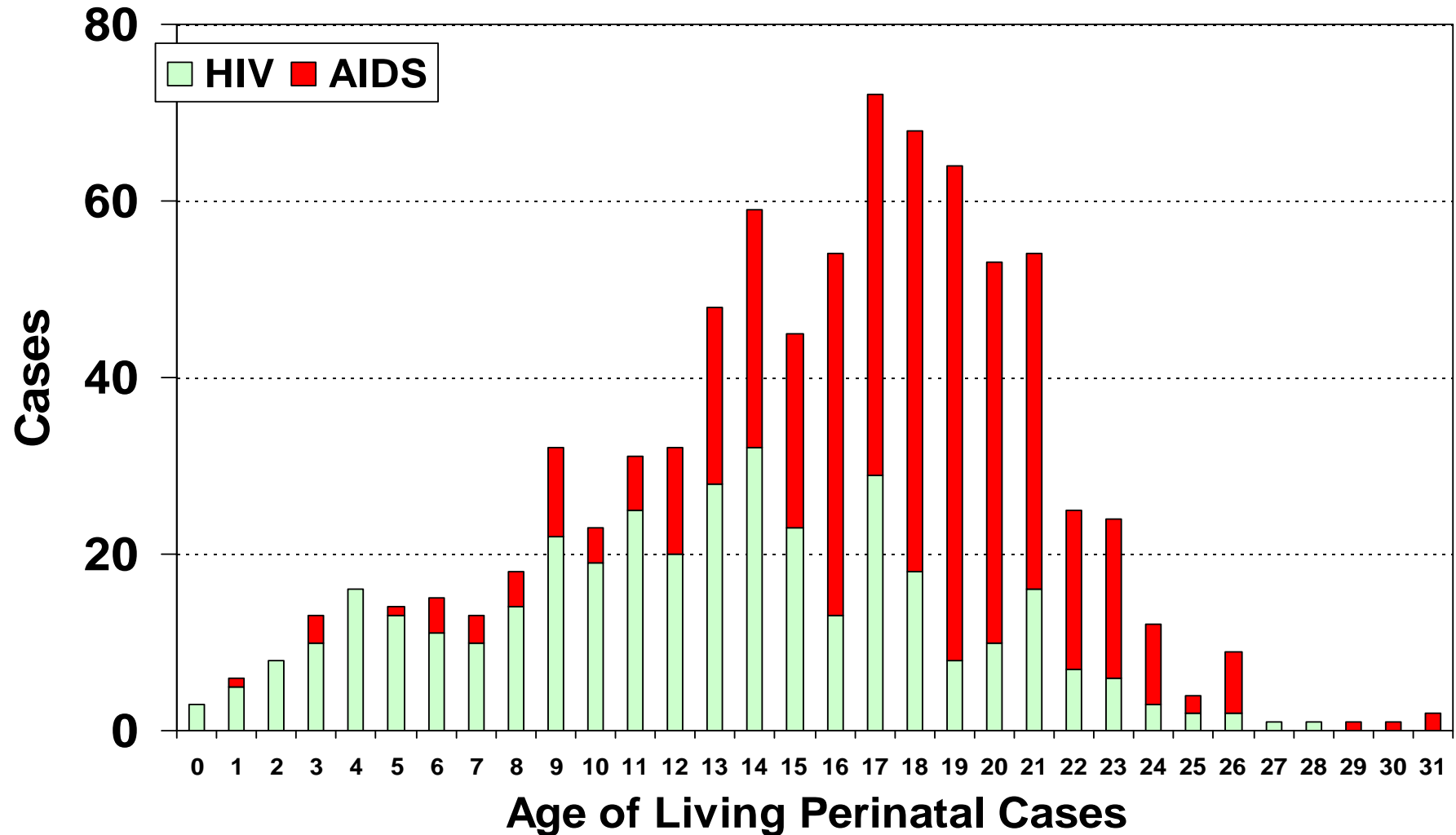
N=819

Living HIV/AIDS Cases



Florida reported 819 pediatric (<13 years) HIV/AIDS cases through 2010, with the majority (29%) of these cases reported from Miami-Dade (N=237), Broward (N=135) Palm Beach (N=101) and Hillsborough (N=50) counties. Data as of 08/31/2011

Current Age Distribution* Of Persons Presumed to be Living With Perinatal AIDS or HIV (not AIDS) Born in Florida, through 2010, (N=819)



*Current age of presumed living (not known dead) HIV/AIDS perinatal cases born through 2010.
Data as of 08/31/2011

Perinatal HIV/AIDS Cases, Born 2005-2010 By Area of Birth and Reported in Florida

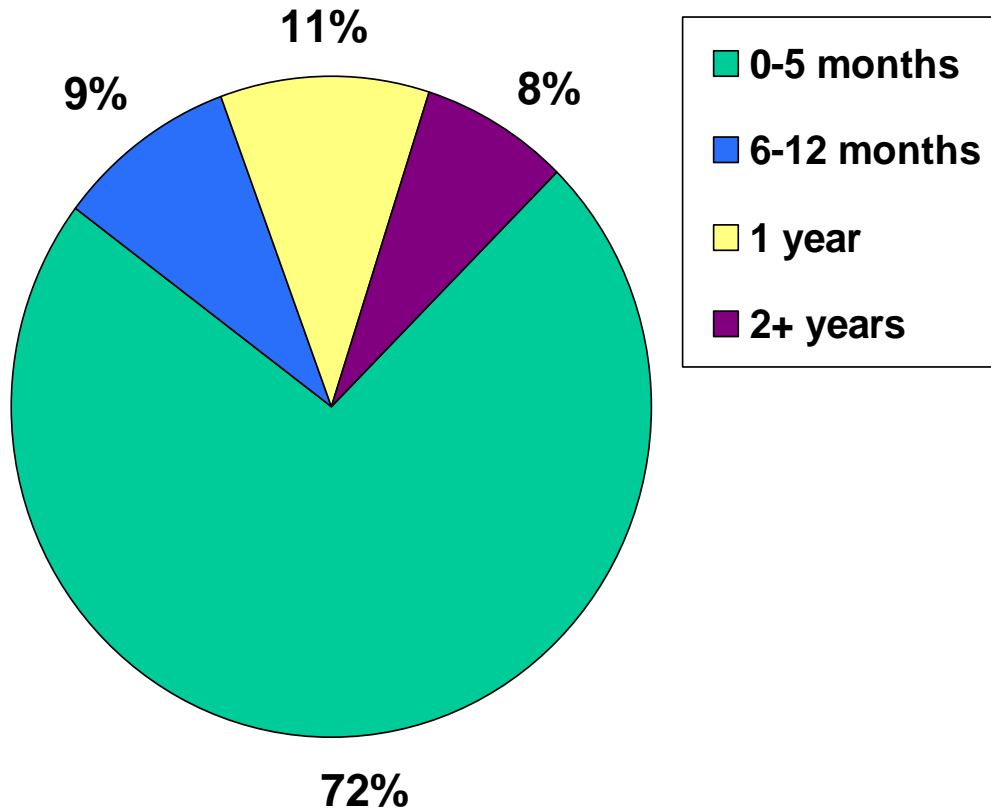
AREA of BIRTH	BORN 2005-2010	
	# OF CASES	% OF TOTAL
Area 01*	2	3%
Area 03*	1	1%
Area 08 (Lee Only)	2	3%
Area 08 (not Lee)*	0	0%
Area 15*	4	5%
Broward County	15	20%
Duval County	8	11%
Hillsborough/Pinellas Counties	3	4%
Miami-Dade County	16	22%
Orange County	9	12%
Palm Beach County	6	8%
Polk	2	3%
REMAINDER OF STATE	6	8%
TOTAL CASES	74	100%
*Area 1 = Escambia, Okaloosa, Santa Rosa & Walton Counties;		
*Area 3 = Alachua, Bradford, Columbia, Dixie, Gilchrist, Hamilton, Lafayette, Levy, Putnam, Suwannee, & Union Counties;		
*Area 8 (not Lee) = Charlotte, Collier, DeSoto, Glades, Hendry & Sarasota Counties.		
*Area 15 = St. Lucie, Indian River, Martin, and Okeechobee Counties.		

*A total of 4 perinatal cases reported in Florida were born outside of the US and NOT included in these data.

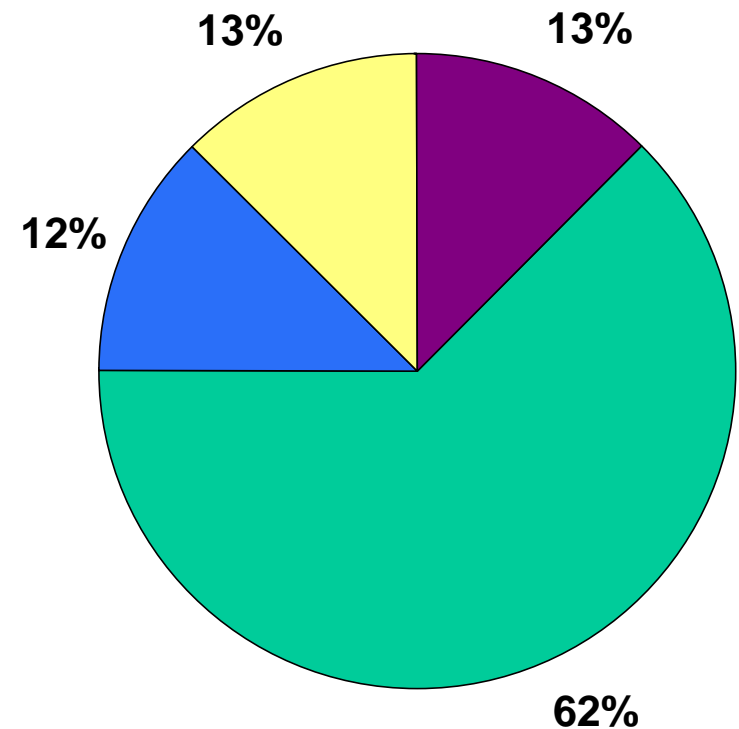


Percent of Perinatal HIV (not AIDS) and AIDS Cases By Age of HIV or AIDS Diagnosis Born in Florida, 2005-2010 (N=74)

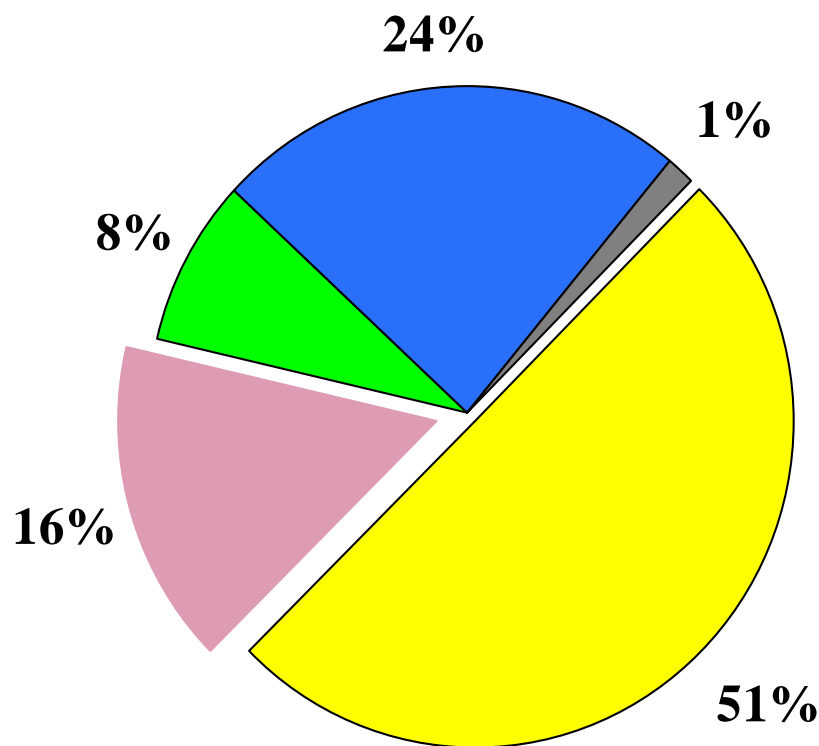
HIV (not AIDS) Cases (N=66)



AIDS Cases (N=8)



Time of Maternal HIV Testing Among Perinatal HIV/AIDS Cases Born in and Reported in Florida, 2005-2010 (N=74)



	TOTAL	
	No.	Percent
Before Pregnancy	37	50%
During Pregnancy	12	16%
At Delivery	6	8%
After Birth	18	24%
Unknown	1	1%
TOTAL	74	100%

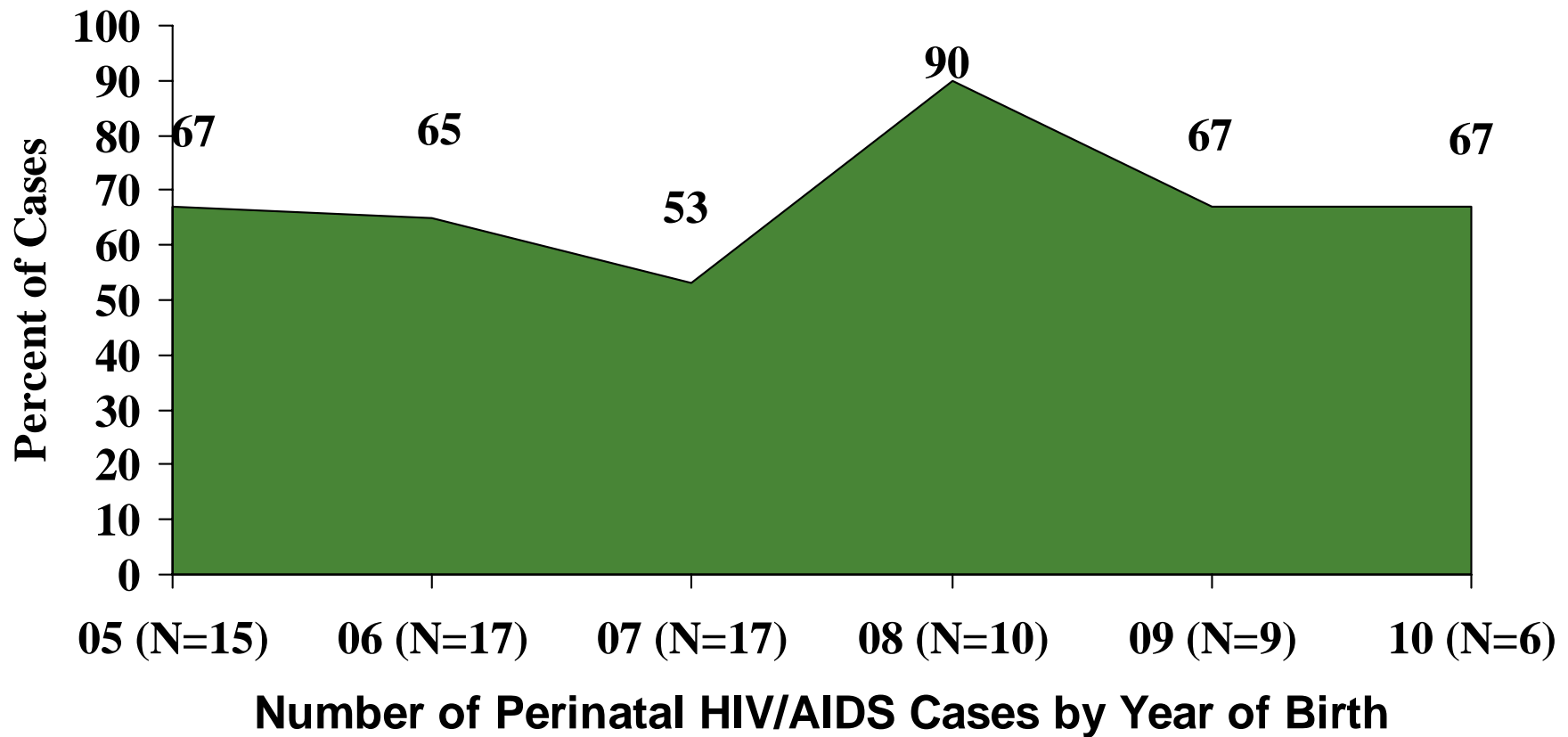


It is important for HIV-infected pregnant women to know their HIV infection status in order to make informed decisions about antiretroviral therapy to reduce perinatal transmission of HIV to their infants. The Public Health Service recommends that all pregnant women be offered HIV counseling and voluntary HIV tests.

Note: 49 (66%) of the 78 mom's knew they were infected before delivery.

*2010 data are provisional.

**Percent of Pregnant Women Giving Birth
To a Child Diagnosed with HIV in Florida and
Were Known to be HIV Positive *Prior* to Delivery
By Year of Birth 2005-2010* (49 of 74 births (63%))**



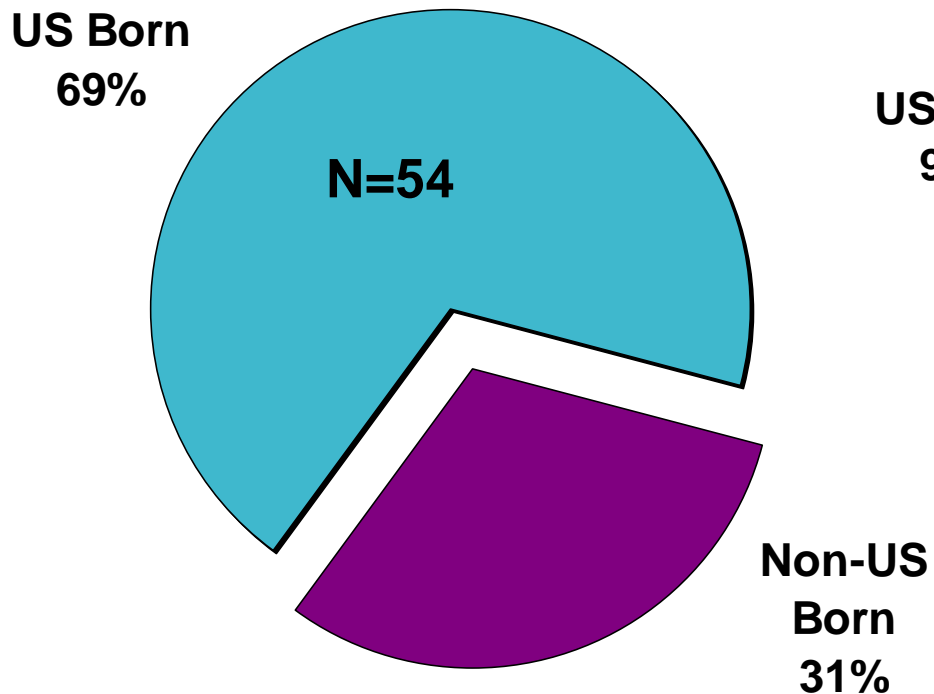
*2010 data are not complete due to reporting lag.

Possible Missed Opportunities to Prevent Perinatal Transmission of HIV Among HIV/AIDS Cases Born in and Reported in Florida, 2005-2010**** (N=74)

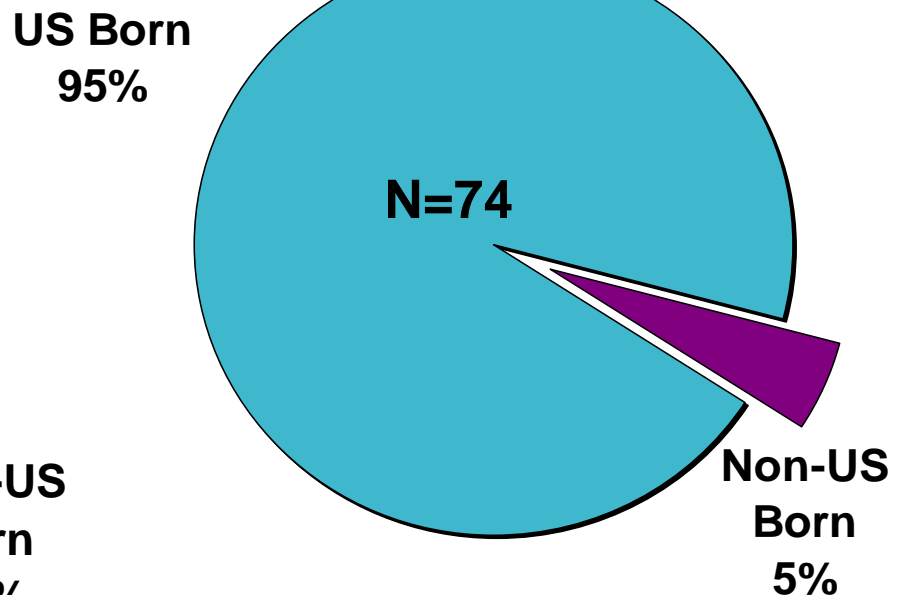
Missed Opportunities	Number	Percent
<i>Immigrant Peds (born outside of Florida)*</i>	4	N/A*
Mom's HIV Status NOT Known Before Birth	25	34%
Inadequate Prenatal Care**	50	68%
No Prenatal ART	44	59%
No ART at Delivery	34	46%
Non-Caesarean Birth	51	69%
No Neonatal ART	18	24%
Breast Fed	8	11%
Other Contributing Factors	Number***	Percent
Mom was a substance abuser	52	70%
Mom acquired an STD	62	84%
Total Born & Reported in Florida, Born 2005-2010	74	
*A total of 78 peds reported in Florida were born from 2005 through 2010		
Of these, 4 (5%) were born outside of the US.		
** Inadequate prenatal care indicates prenatal care after the 4th month and less than 5 visits		
***The same child can be in multiple categories		
****2010 data are not complete due to reporting lag.		

Nationality of Mother and Child of Perinatally HIV-Infected Cases Reported in Florida* (N=78) Born 2005-2010

Mother



Child

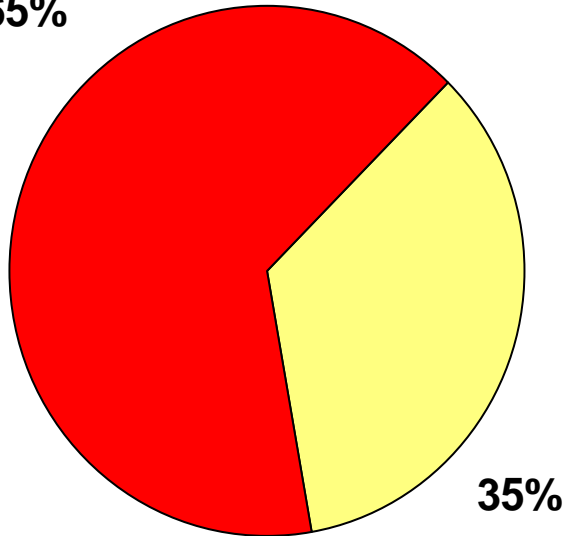


*Of these 78 cases, 4 (5%) were born *outside* of the US.

**Mothers of Perinatally HIV-Infected Cases
According to Receipt of
Prenatal Care and/or Prenatal ART*
Born in and Reported in Florida, 2005-2010**, (N=49 of 74)
And Mom's HIV status was known prior to delivery**

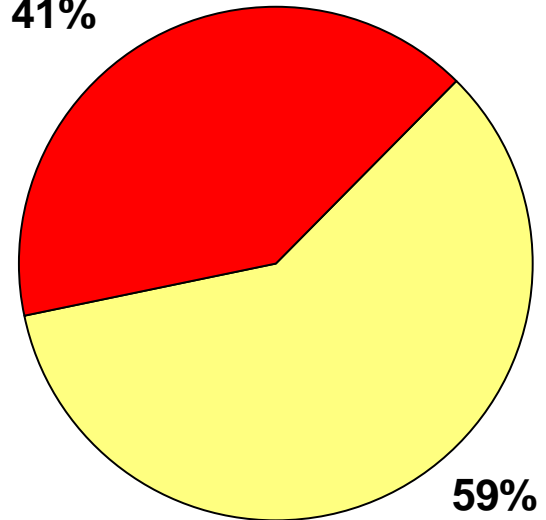
Adequate Prenatal Care
Began by 4th month with 5+ visits

65%



Any Prenatal ART
AZT and/or antiretrovirals

41%



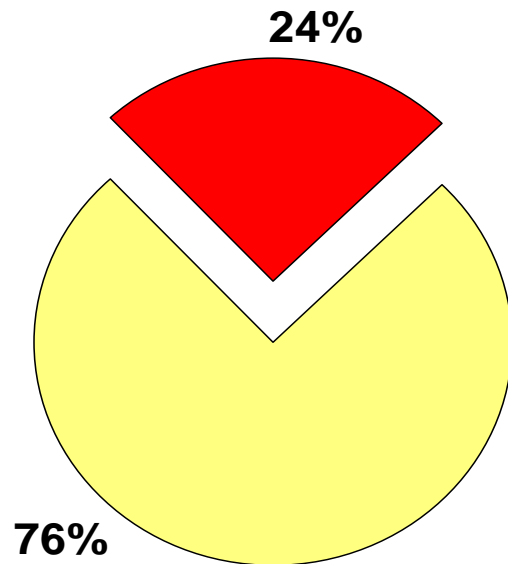
□ Yes ■ No

*ART – Antiretroviral Therapy

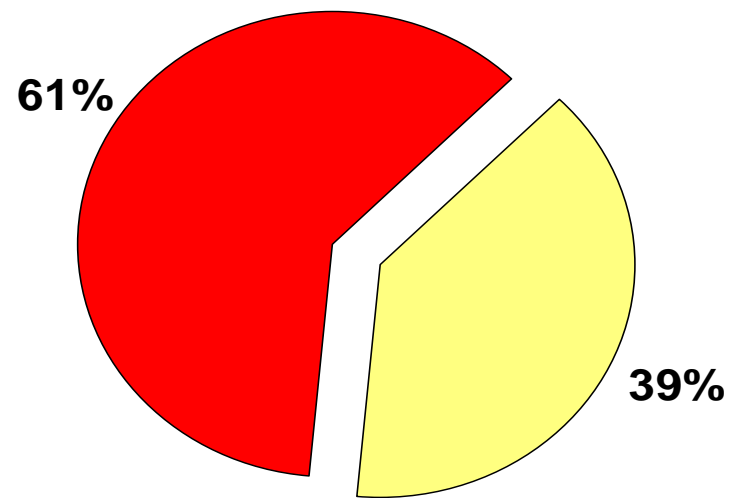
**2010 data are provisional.

**Mothers of Perinatally HIV-Infected Cases
According to Receipt of
ART at Delivery and/or Caesarean Delivery
Born in and Reported in Florida, 2005-2010**, (N=49 of 74)
And Mom's HIV status was known prior to delivery**

ART during Labor
AZT and/or antiretrovirals



**Elective Caesarean
Delivery**



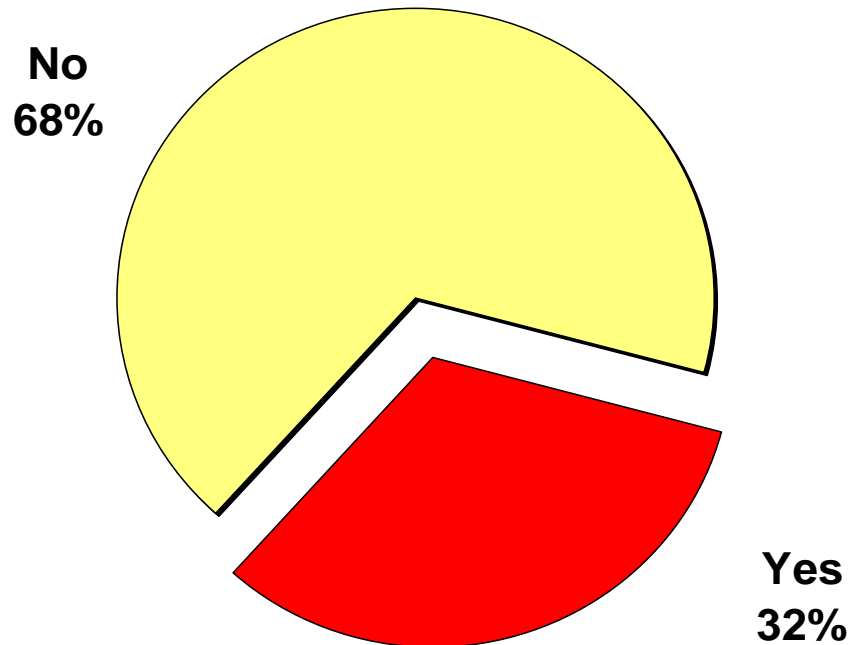
□ Yes ■ No

*ART – Antiretroviral Therapy

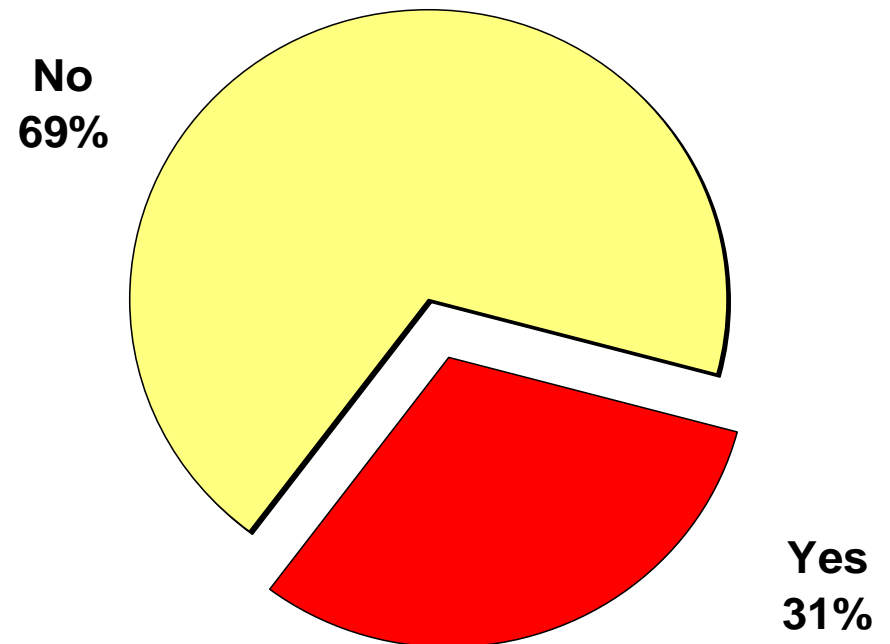
**2010 data are provisional.

Percent of Mothers of Perinatally HIV-Infected Cases Who Abused Drugs or Had an STD During Pregnancy Born in and Reported in Florida, 2005-2010 (N=74)

Abused Drugs



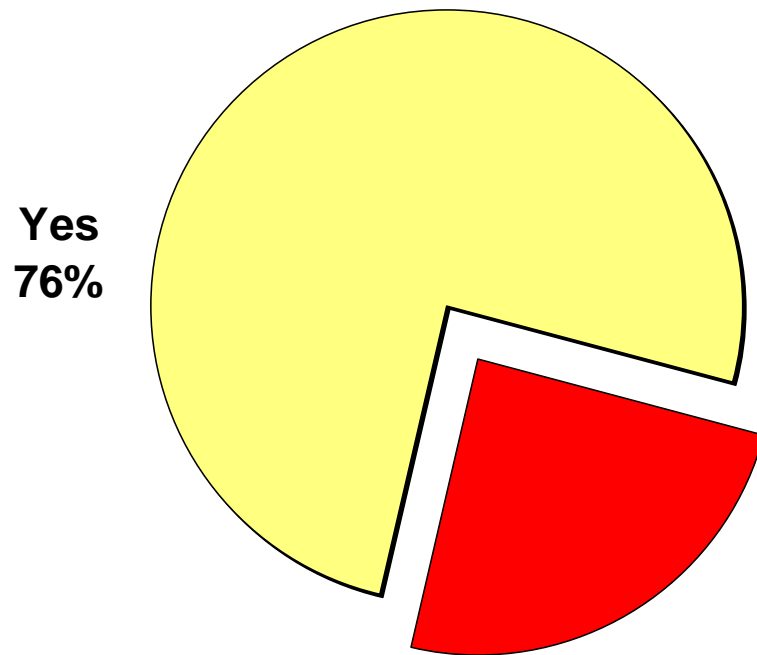
Had an STD



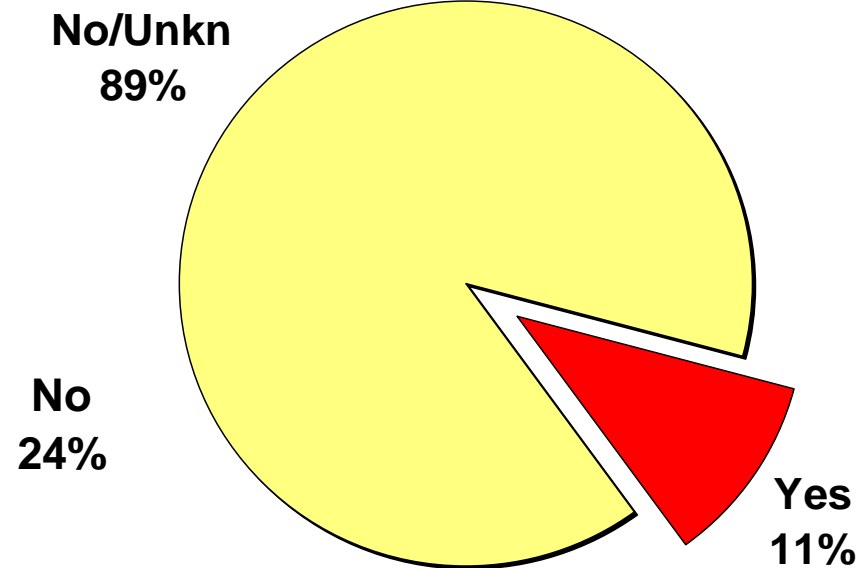
A total of 9 (12%) of the moms had both abused drugs and had an STD during pregnancy.
*2010 data are not complete due to reporting lag.

Perinatally HIV-Infected Cases Status of Receiving Neonatal Drugs and Breastfeeding Born in and Reported in Florida, 2005-2010 (N=74)

Received *any* Neonatal Drugs



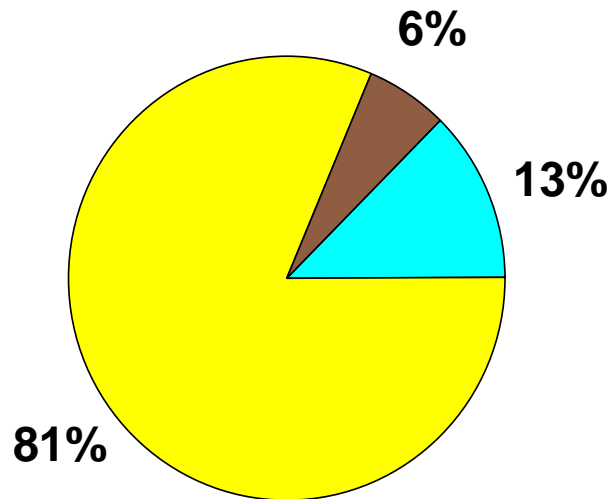
Breastfed



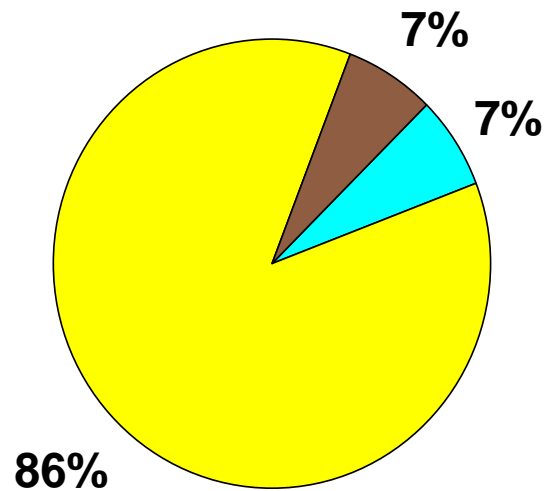
*2010 data are provisional.

HIV/AIDS Pediatric Cases By Expanded Modes of Exposure Born in and Reported in 2005-2010 South Florida Counties (N=37), Florida

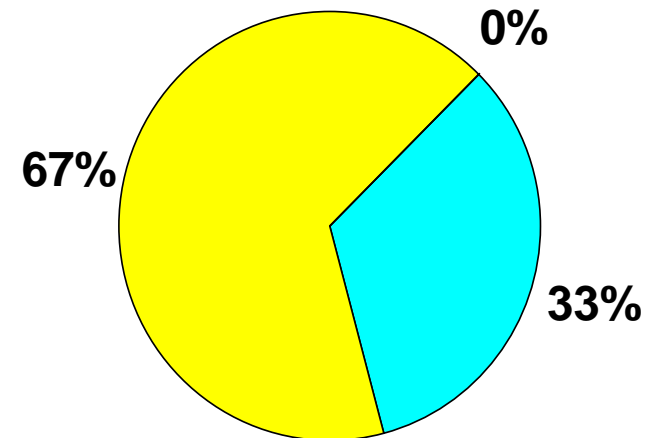
Miami-Dade (N=16)



Broward (N=15)



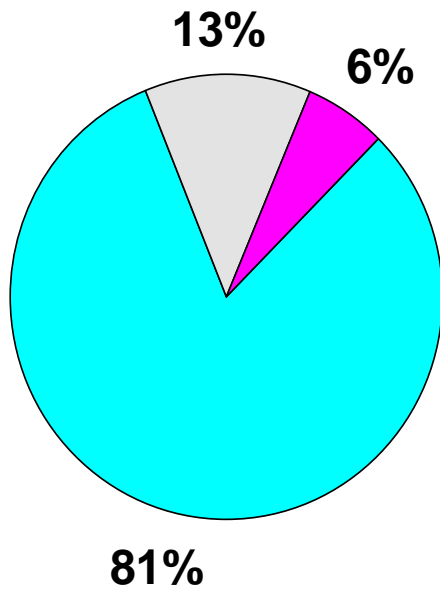
Palm Beach (N=6)



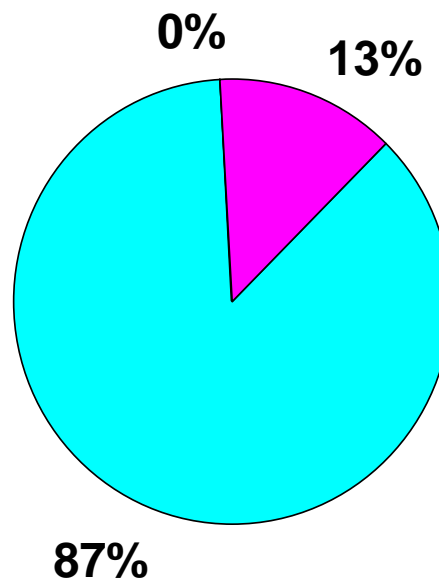
■ Mom IDU ■ Mom-Sex Risk ■ Mom's Risk-Other/Unkn.

HIV/AIDS Pediatric Cases By Age at *First* Diagnosis Born in and Reported in 2005-2010 South Florida Counties (N=37), Florida

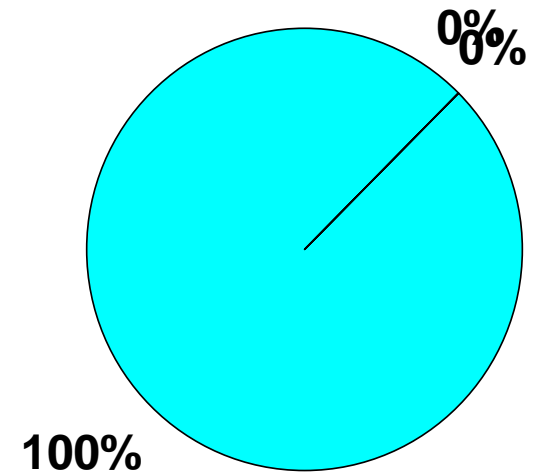
Miami-Dade (N=16)



Broward (N=15)



Palm Beach (N=6)

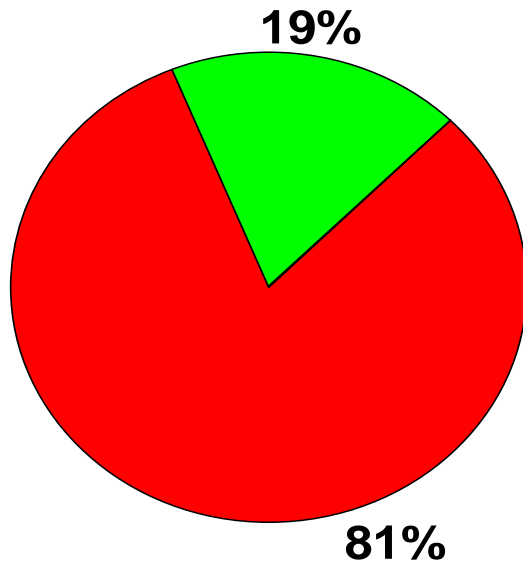


■ <1 year
 ■ 1 year
 ■ 2+ years

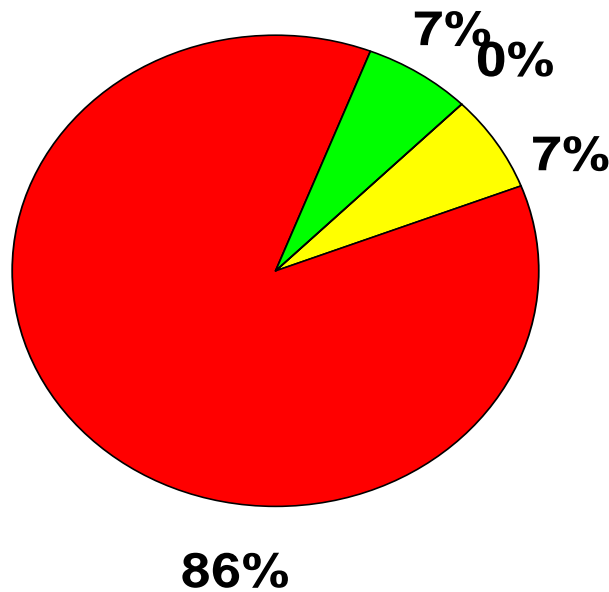
Note: Eighty percent (71 of 89) of the perinatal HIV/AIDS cases born and reported in South Florida were diagnosed within the first year of life (Figure 18). As noted earlier, an early diagnosis of perinatally acquired HIV infection allows the opportunity of early treatment, thus possibly prolonging the onset of AIDS.

HIV/AIDS Pediatric Cases By Race/Ethnicity Born in and Reported in 2005-2010 South Florida Counties (N=37), Florida

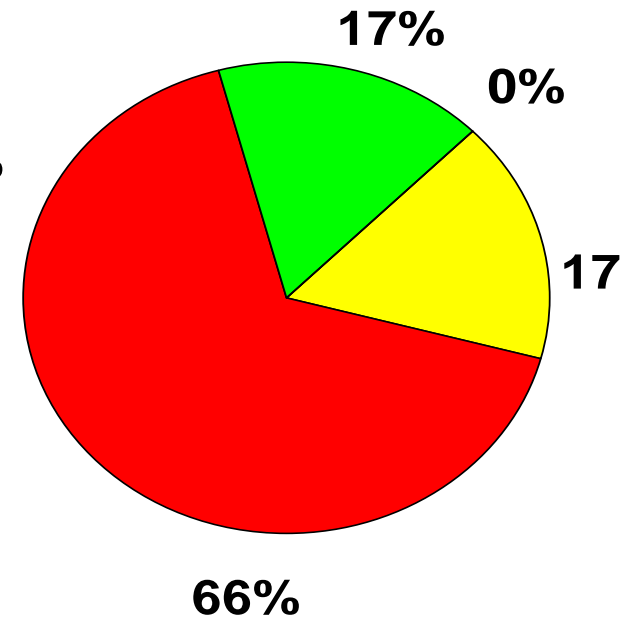
Miami-Dade (N=16)



Broward (N=15)



Palm Beach (N=6)



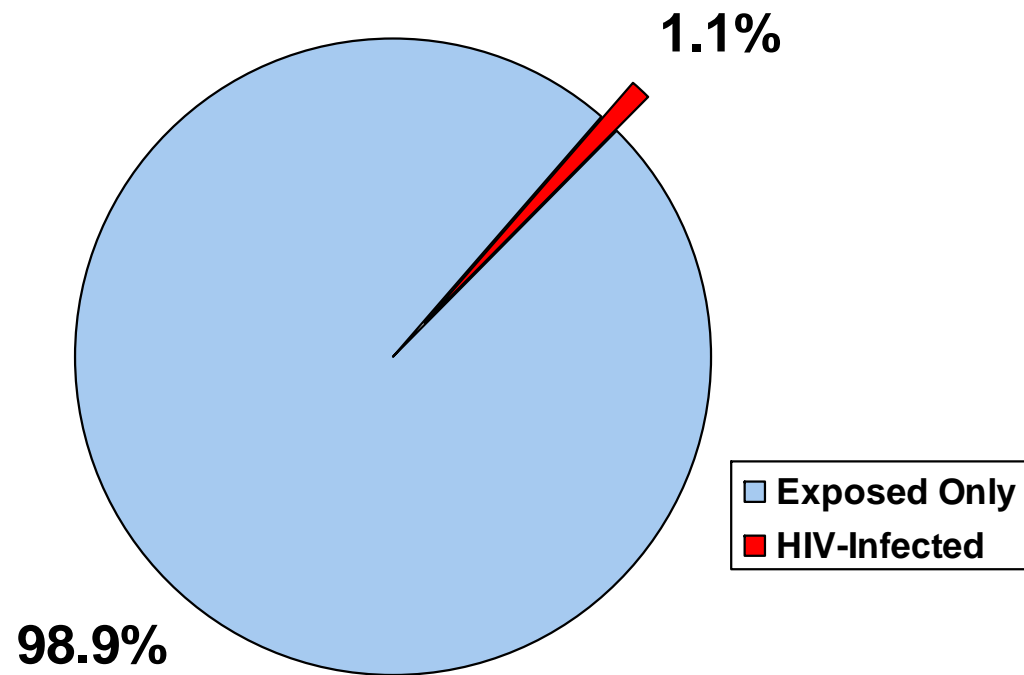
■ **White**
■ **Black**
■ **Hispanic**
■ **Other/Unknown**

Note: pediatric AIDS in Florida disproportionately affects non-Hispanic blacks. In South Florida, 81%, (72 of 89) of the pediatric HIV/AIDS cases were among blacks (Figure 19). These data differ greatly from the population by race/ethnicity for women of childbearing age (15-44) living in these counties.



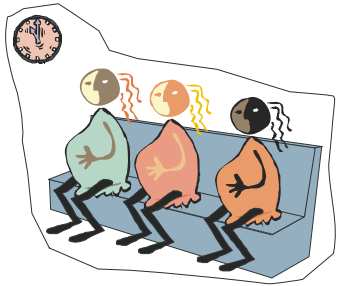
HIV Status for Babies KNOWN to be Born To an HIV-Infected Mother in Florida, 2010 (N=570)

	2007		2008		2009		2010	
	#	%	#	%	#	%	#	%
Infected	17	2.5%	10	1.6%	9	1.4%	6	1.1%
not_infected	655	97.5%	618	98.4%	612	98.6%	564	98.9%
TOTAL BIRTHS	672		628		621		570	

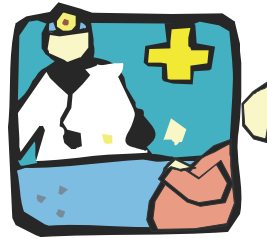


As of 09/23/2011, a total of 570 babies were known to be born to HIV-Infected mothers in Florida in 2010, of which 6 (1.1%) are known to be HIV-infected.

Steps to Prevention Success



Prenatal care



Client receives opt-out testing.



Client receives results.



If HIV positive, prophylactic treatment is offered and accepted.



Provider and client's adherence to regimen: antenatal, intrapartum, and neonatal.



Follow-up care, & avoidance of breastfeeding

Perinatal Programs



- Perinatal Prevention is focused on:
 - Prevention Services for women of child bearing age.
 - Ensuring services for HIV-infected pregnant women and their newborns
 - Education and technical assistance for clinicians who treat pregnant women.

Perinatal Programs for Women



- ▶ The Targeted Outreach for Pregnant Women Act (TOPWA) program.
- ▶ Collaboration with state agencies and organizations to ensure that perinatal HIV issues are addressed.
- ▶ Perinatal social marketing campaign.
- ▶ “Women and Children: The Perinatal HIV Program” is located on the Bureau of HIV/AIDS internet site
- ▶ Provide 6-weeks of free AZT for newborns of families with no medical coverage



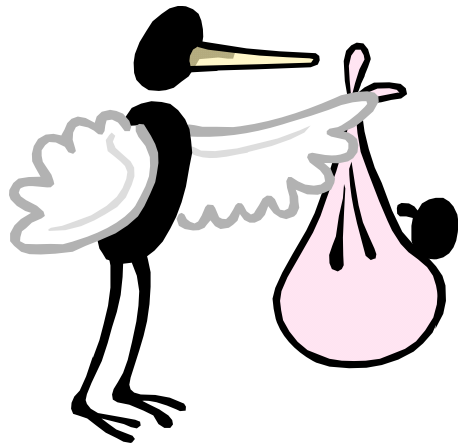
The Baby RxPress Program provides a voucher that can be exchanged at Walgreens for the six-weeks of AZT that is prescribed for all HIV-exposed newborns.

Vouchers can be obtained from a local HIV perinatal nurse or the Bureau of HIV/AIDS Prevention Section.



AETC staff work to:

- educate medical professionals who provide care for HIV-infected pregnant women and their babies.
- Assist hospitals in implementing rapid HIV testing in labor & delivery units.

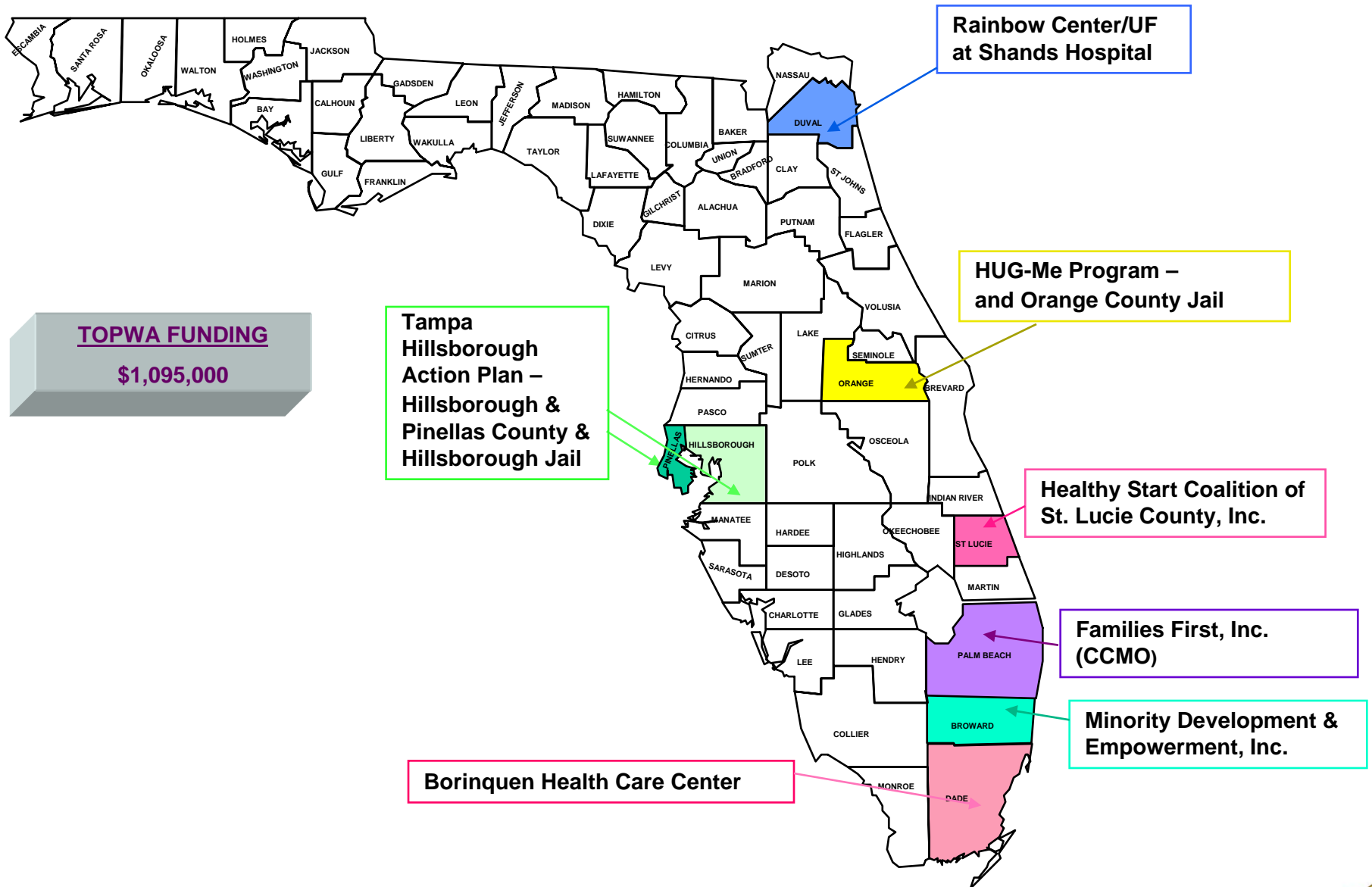


Targeted Outreach for Pregnant Women

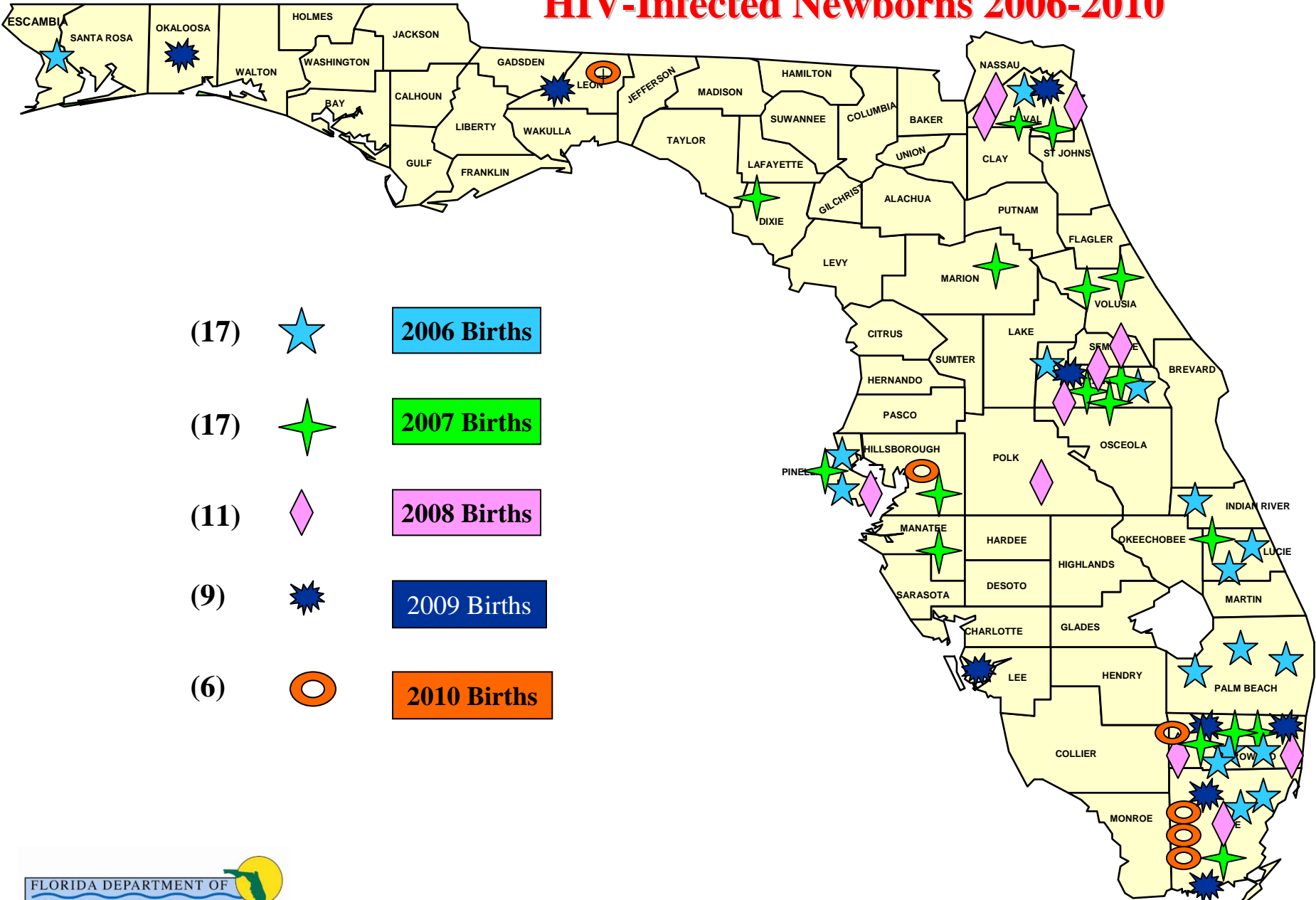
Act (TOPWA)

- ▶ 7 programs (3 also have jail components)
- ▶ Conducts outreach to high-risk pregnant women and actively links them with services
- ▶ Offers on-site pregnancy and HIV testing.
- ▶ Assists mothers with obtaining family planning services if they choose to delay the birth of a subsequent baby

Targeted Outreach for Pregnant Women Act (TOPWA) Contract Providers



HIV-Infected Newborns 2006-2010



- (17) 2006 Births
- (17) 2007 Births
- (11) 2008 Births
- (9) 2009 Births
- (6) 2010 Births

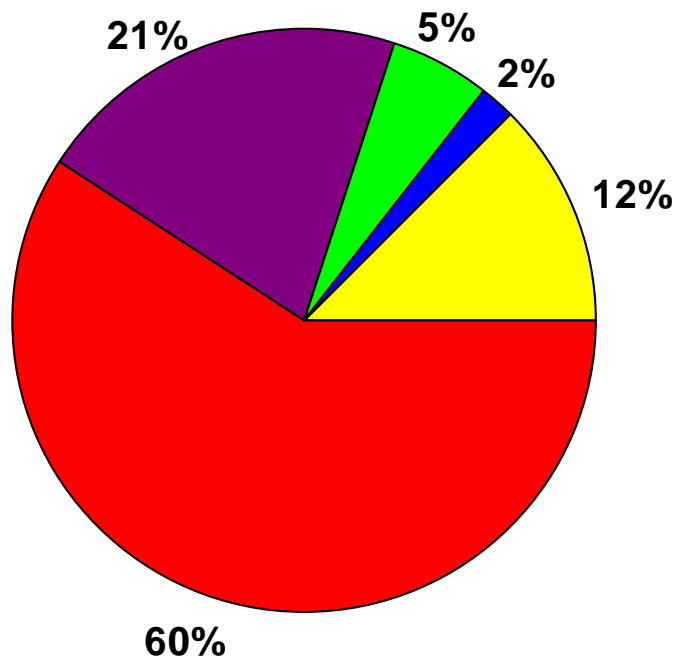


Updated 9/10/11

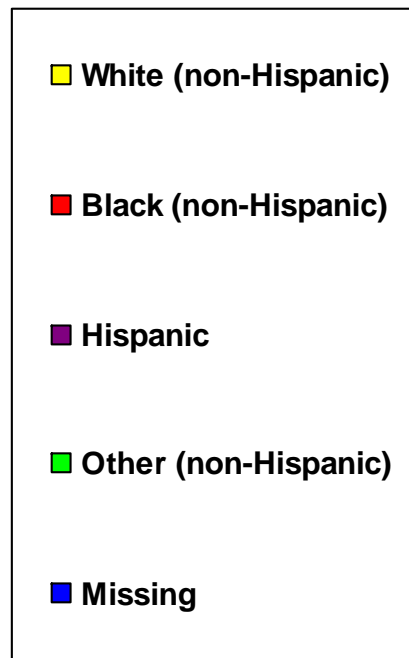
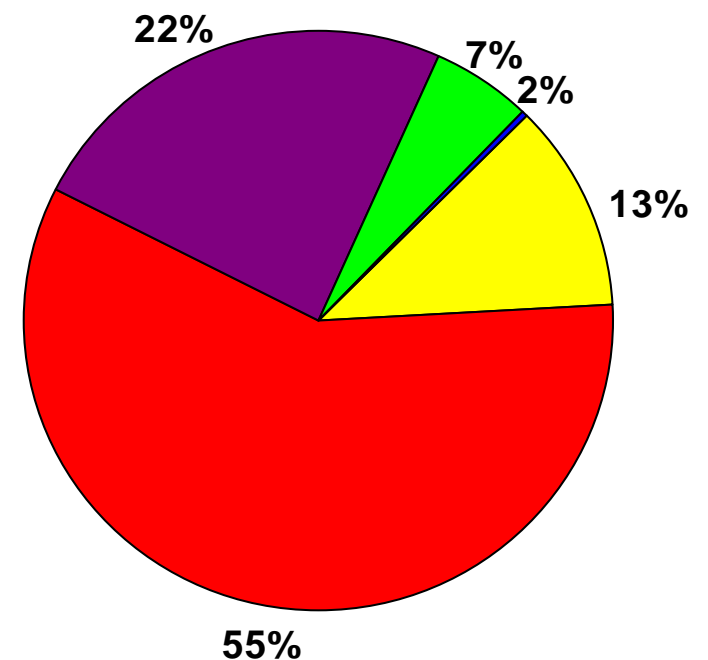


Proportion of Women Screened and Enrolled in TOPWA by Race/Ethnicity ~January 1999 – July 2011~

Screened (N = 197,893)



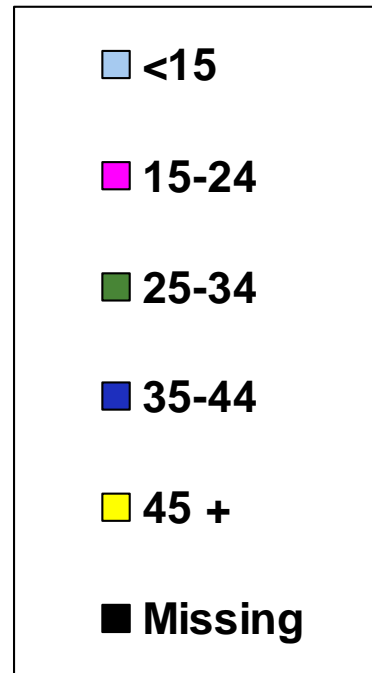
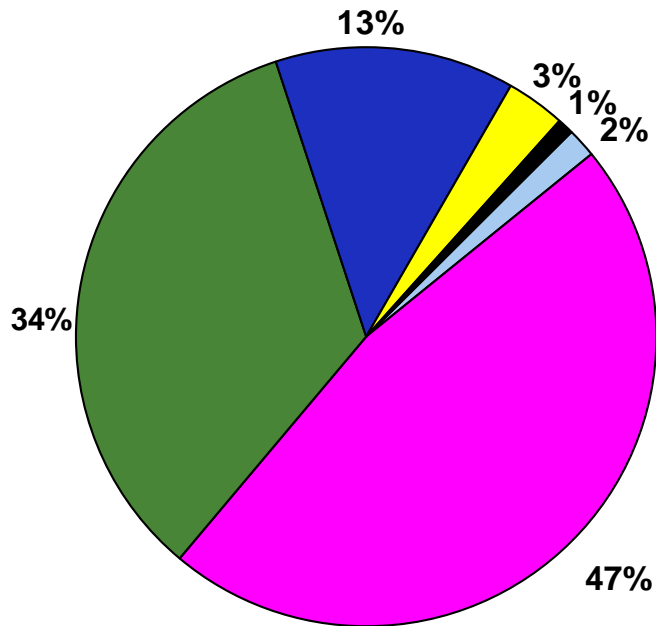
Enrolled (N = 34,620)



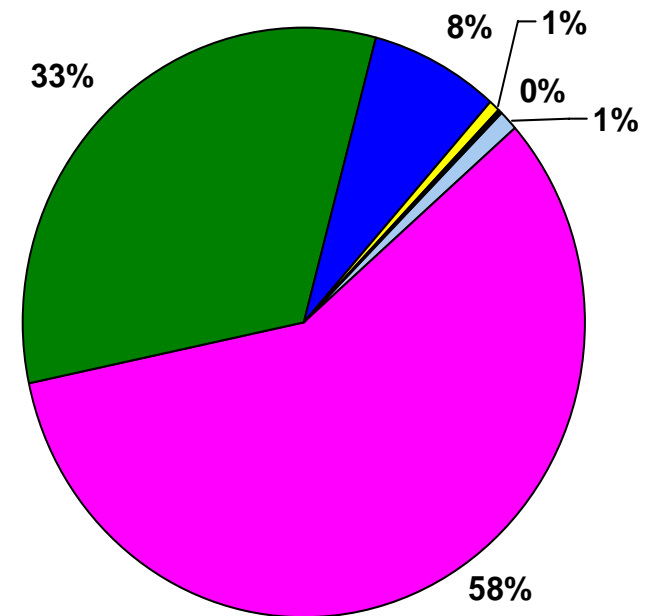
Proportion of Women Screened and Enrolled in TOPWA by Age

~January 1999 – July 2011~

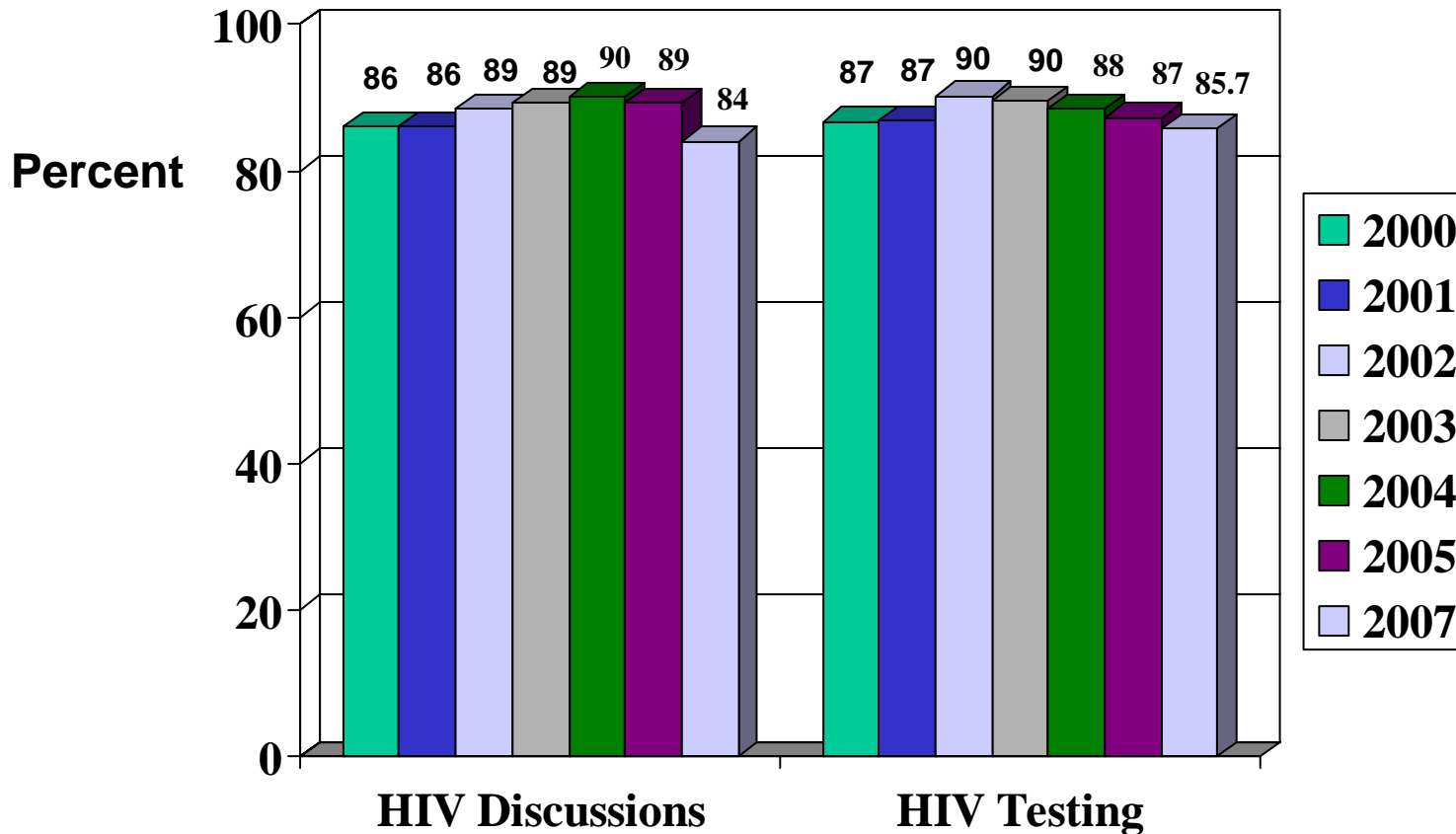
Screened (N = 197,893)



Enrolled (N = 34,620)



PRAMS: Healthcare Provider Discussions About HIV Testing, and Pregnant Women Tested for HIV in Florida, 2000-2007*

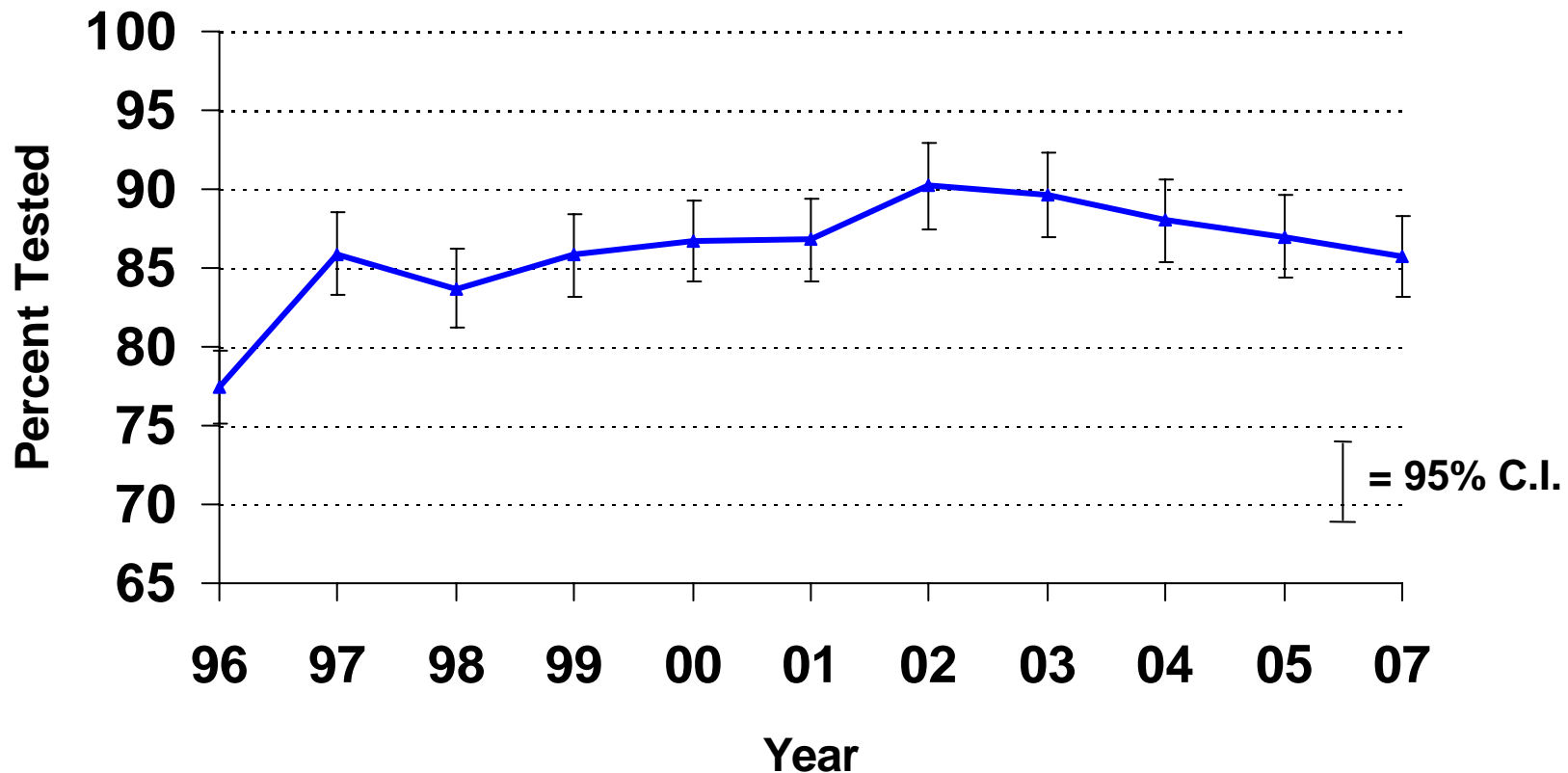


Comment: Florida's percentage of childbearing women tested perinatally for HIV is the highest in the U.S., which has probably contributed to the continued decline in pediatric HIV/AIDS cases. Source: Florida Pregnancy Risk Assessment Monitoring System (PRAMS), (2006 not available, 2007 is most recent data available).

http://www.doh.state.fl.us/disease_ctrl/epi/Chronic_Disease/PRAMS/Data_Books.htm

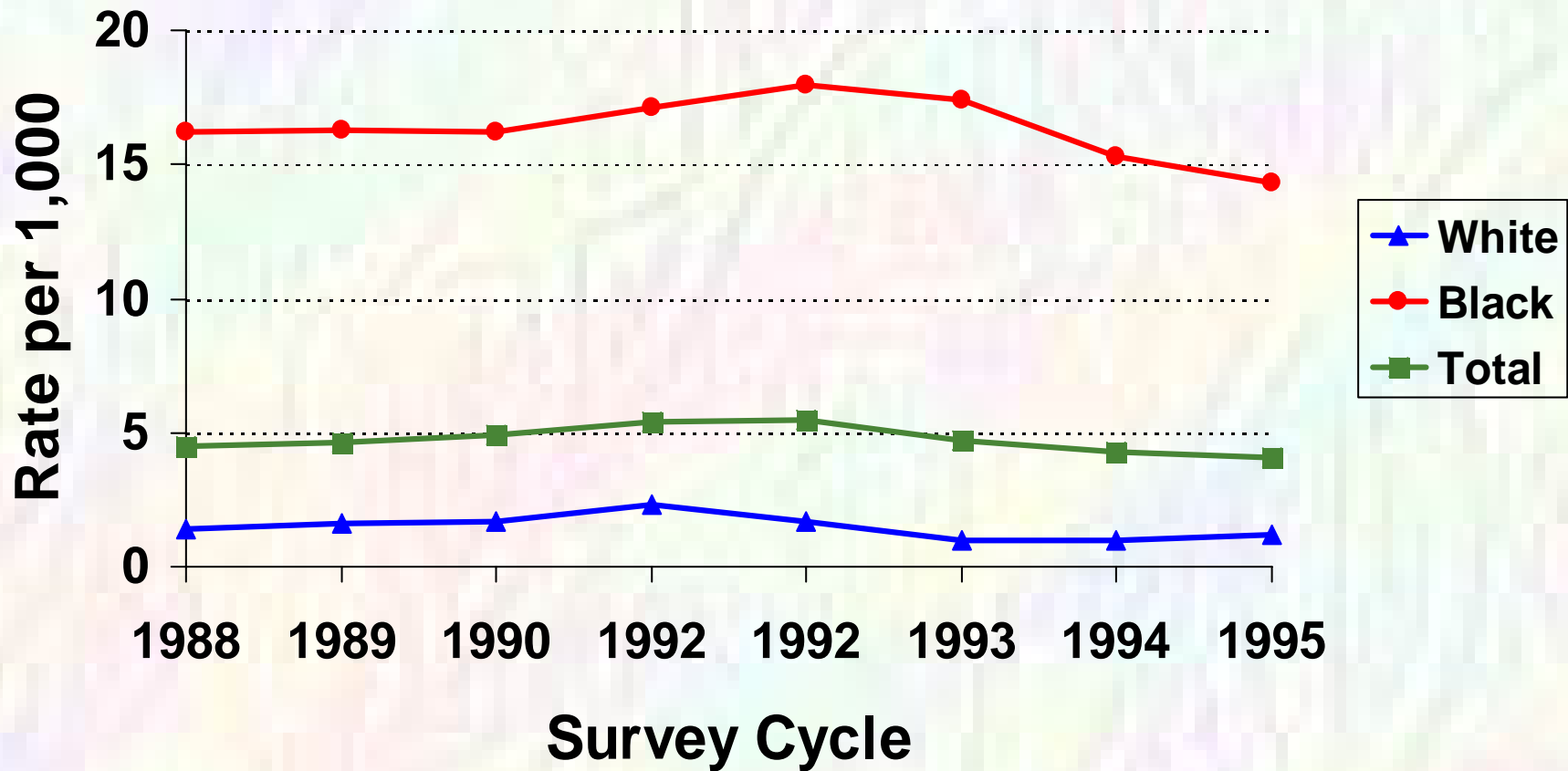


Prenatal HIV Testing Among Women Delivering a Live Birth, Florida, 1996-2007



Comment: Florida's percentage of childbearing women tested perinatally for HIV is the highest in the U.S., which has probably contributed to the continued decline in pediatric HIV/AIDS cases. *Source: Florida Pregnancy Risk Assessment Monitoring System (PRAMS), (2006 or 2008 not available, 2007 had half of normal sample size).*
http://www.doh.state.fl.us/disease_ctrl/epi/Chronic_Disease/PRAMS/Data_Books.htm

HIV Seroprevalence among Childbearing Women by Survey Cycle and Mother's Race Florida, 1988-1995

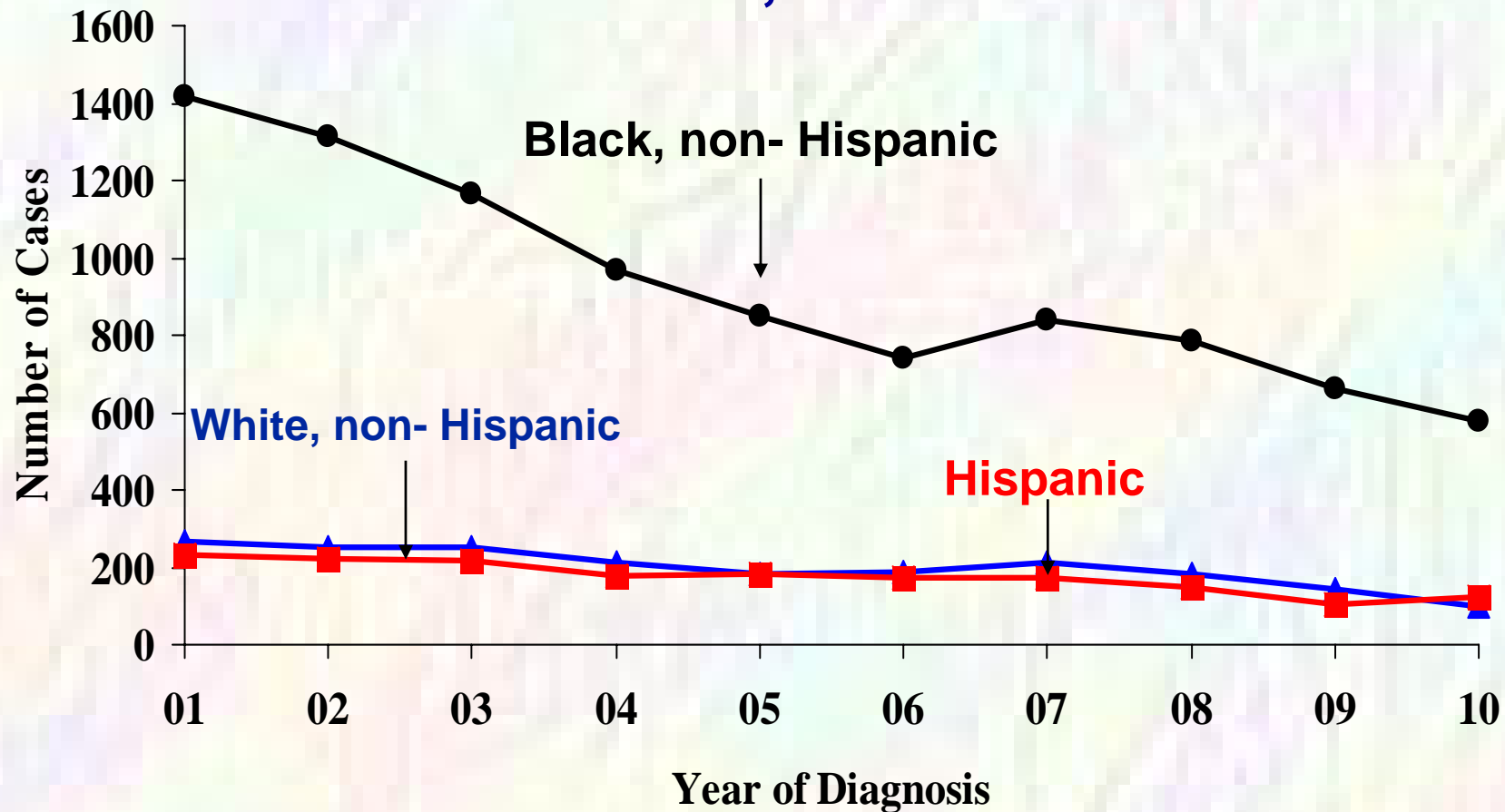


*Number Positive/Number Tested x 1,000.

Survey Cycles are October through March, except for the last cycle which was 10/95-12/95.

This survey ended in 1995.

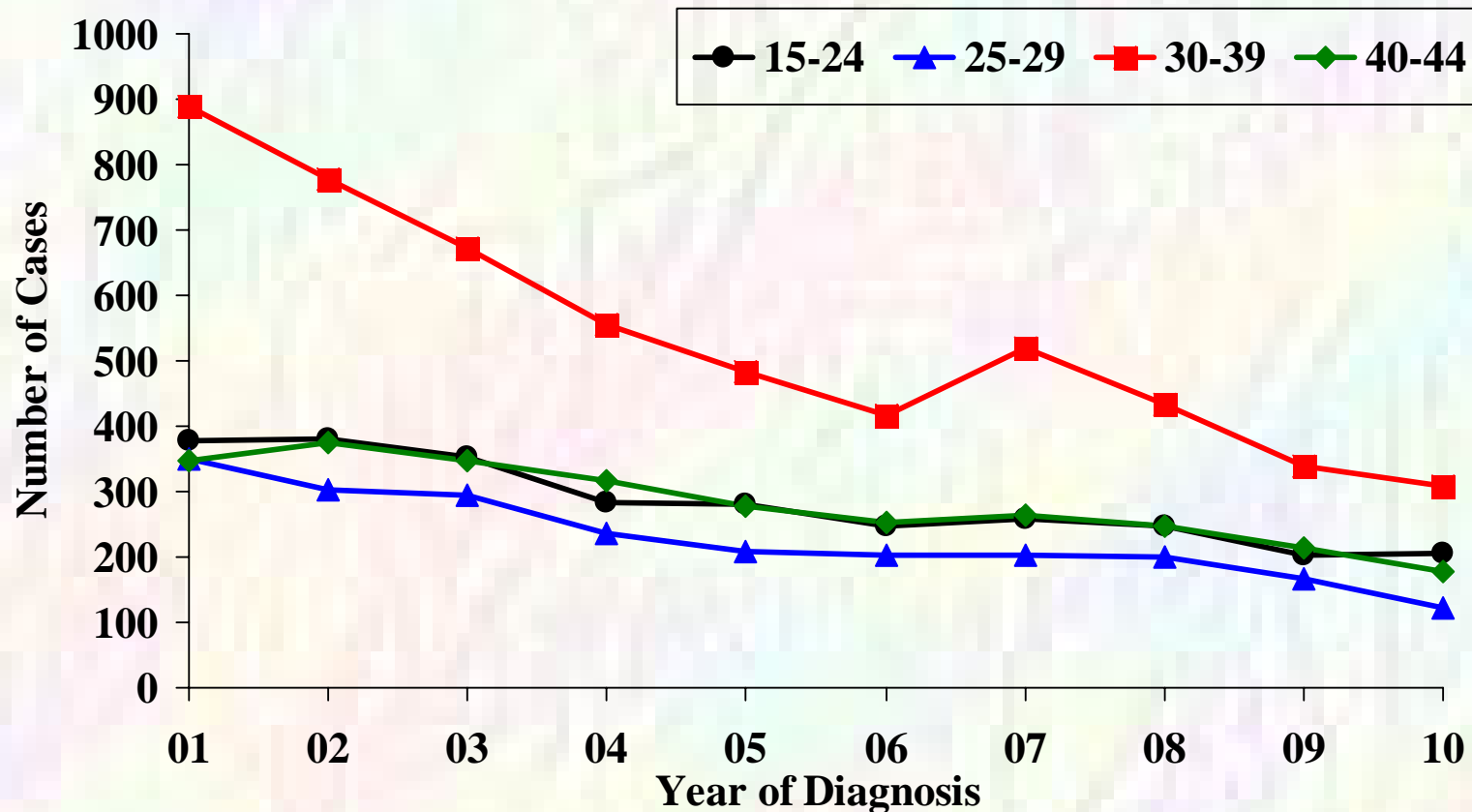
HIV/AIDS Cases Among Women of Childbearing Age (Ages 15-44) by Race/Ethnicity and Year of Diagnosis Florida, 2001-2010



Comment: Although the majority of HIV cases among women are black, the percent of black female HIV cases has decreased from 74% in 2001 to 72% in 2010. Increases have been observed among both white and Hispanic female HIV cases over this same time period.

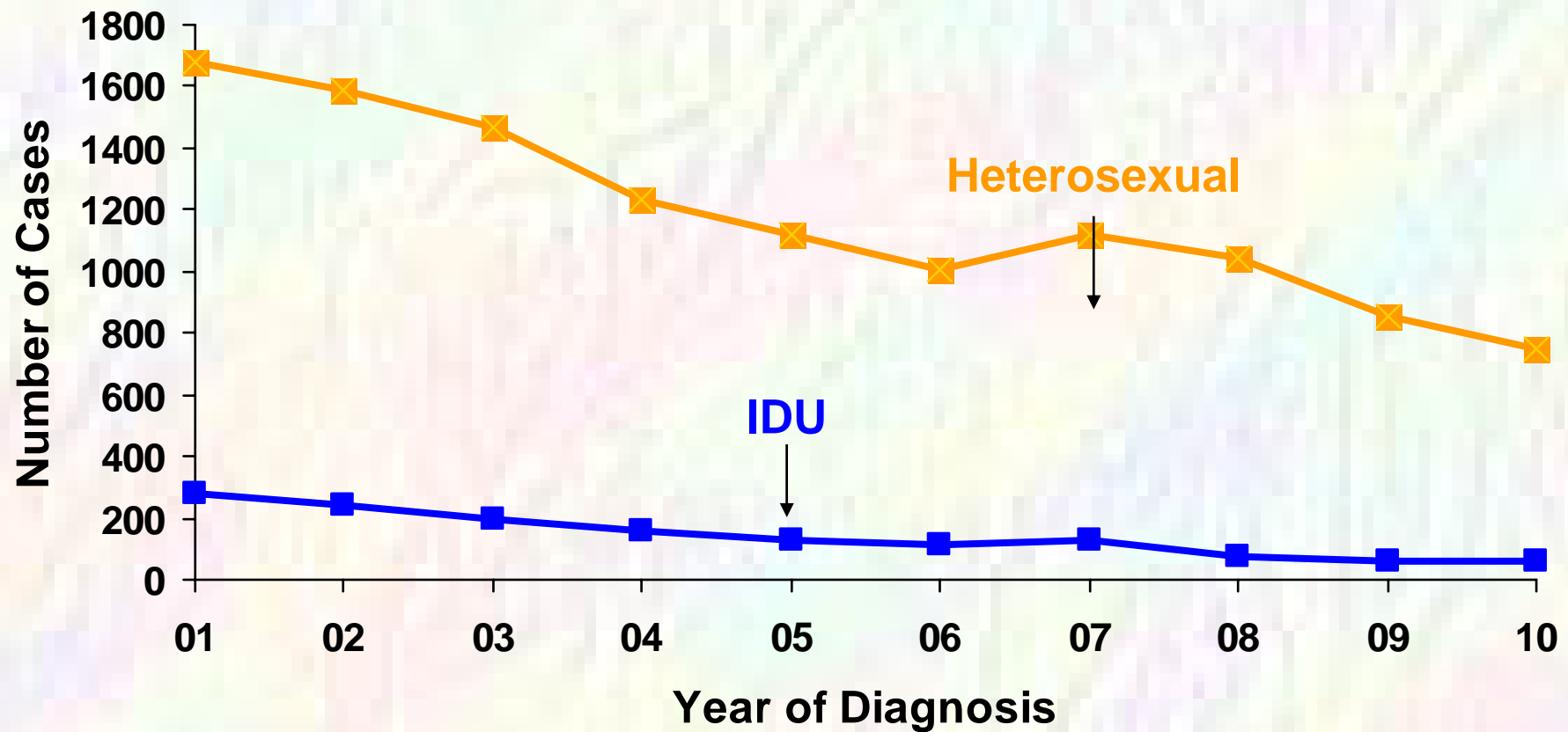
*Other races represent less than 1% of the cases and are not included. Data as of 05/26/11

HIV/AIDS Cases Among Women of Childbearing Age (Ages 15-44) by Age of Diagnosis and Year of Diagnosis Florida, 2001-2010



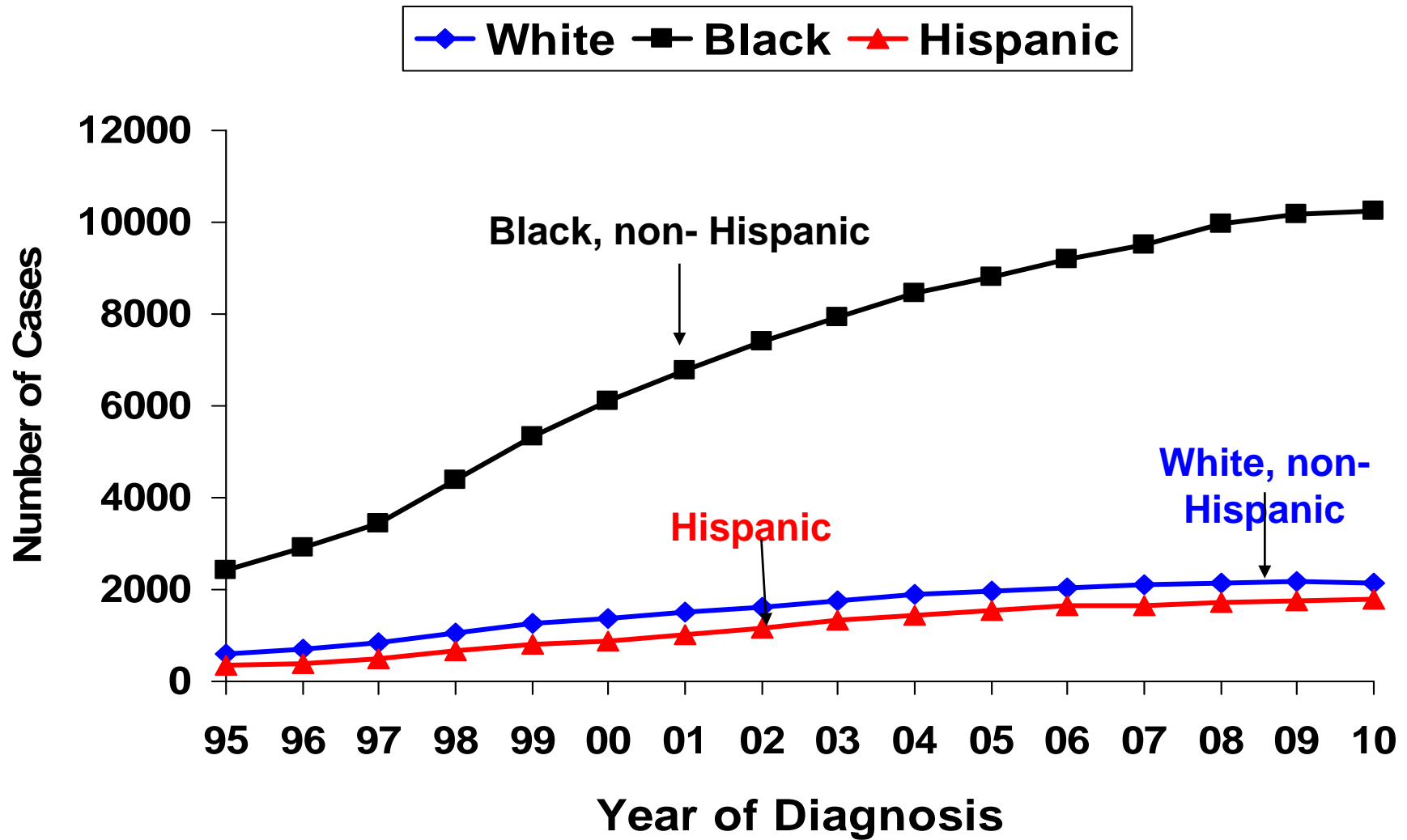
Decreases in newly diagnosis HIV/AIDS cases among women ages 15-44 have been observed by all age groups.

HIV/AIDS Cases Among Women of Childbearing Age (Ages 15-44) by Mode of Exposure and Year of Diagnosis Florida, 2001-2010



Note: NIRs redistributed.

Annual HIV/AIDS Prevalence Among Women of Childbearing Age (Ages 15-44) By Race/Ethnicity, Florida, 1995-2010





For Florida HIV/AIDS Surveillance Data

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Julia Fitz, MPH Ext. 2373

Internet <http://www.floridaaids.org>

Intranet <http://dohiws.doh.state.fl.us>

CDC's Internet site for HIV/AIDS Slides:
<http://www.cdc.gov/hiv/graphics.htm>