

HIV Incidence, Prevalence, and Mortality
Epidemic Snapshot, Florida

Florida Consortium for HIV Research

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The Epidemic in Florida, 2010

Population: 18.8 million ----->
(4th in nation)

Cumulative AIDS cases: 121,161
(3rd in nation)

Cumulative pediatric AIDS cases: 1,542
(2nd in nation)

Cumulative HIV (not AIDS) cases: 46,795
(since July 1997)

Persons living with HIV/AIDS: 97,978 --->
(reported cases)

HIV prevalence estimate: 135,000

HIV incidence estimate: 5,550 (2006 est.)

Deaths due to HIV/AIDS: 1,232 (2009)

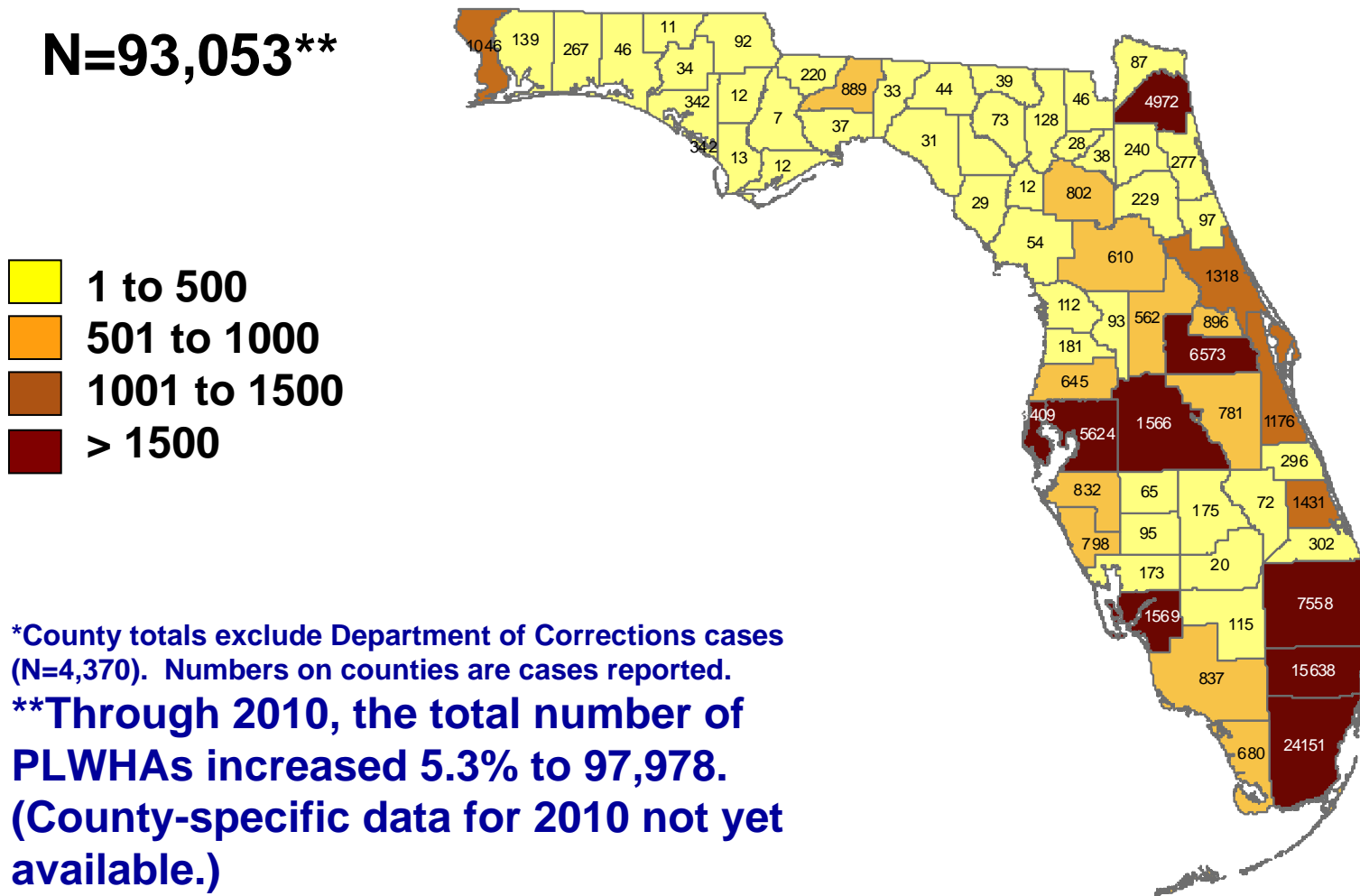
60% White
16% Black
21% Hispanic
3% Other*

30% White
49% Black
19% Hispanic
2% Other*

*Other = Asian/Pacific Islanders; American Indians/Alaskan Natives; multi-racial.

Persons Living with HIV/AIDS (PLWHAs) Reported by County of Residence* Florida, Data Through 2009

N=93,053**



*County totals exclude Department of Corrections cases (N=4,370). Numbers on counties are cases reported.

**Through 2010, the total number of PLWHAs increased 5.3% to 97,978. (County-specific data for 2010 not yet available.)

Figure 1. HIV Incidence Rate Estimates
Florida and the Rest of the US: 2006
(Rates per 100,000 population aged 13+ years)

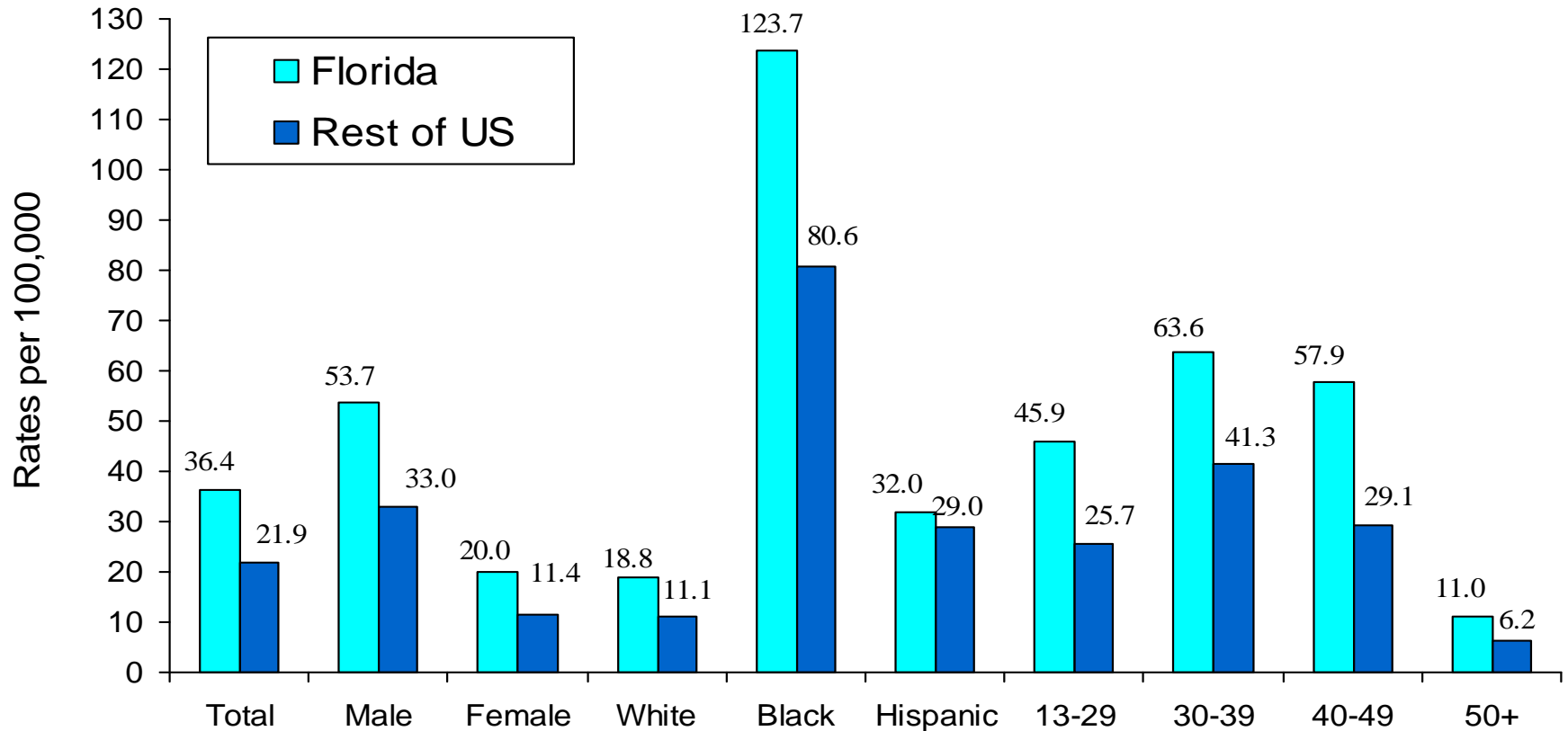
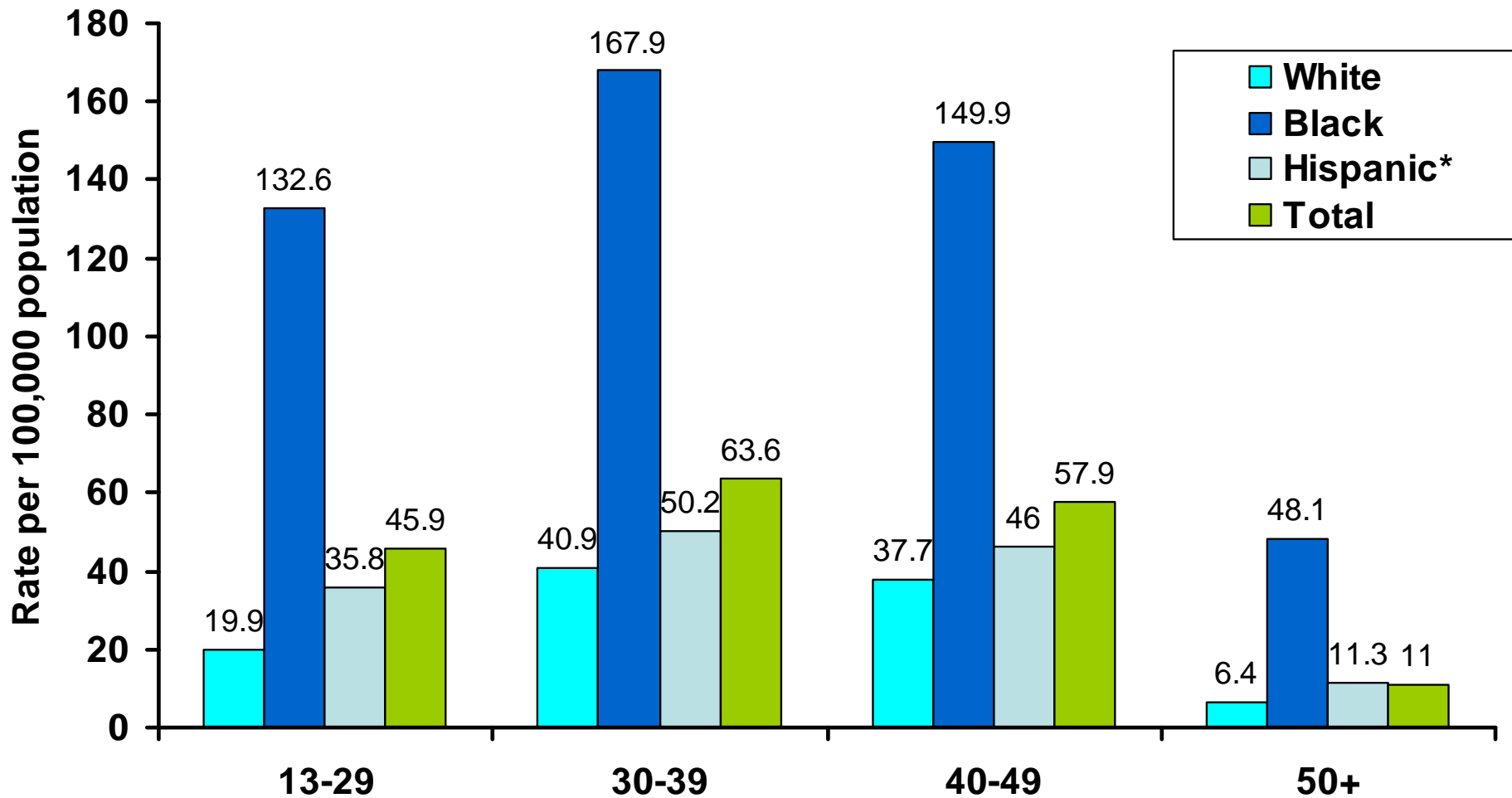
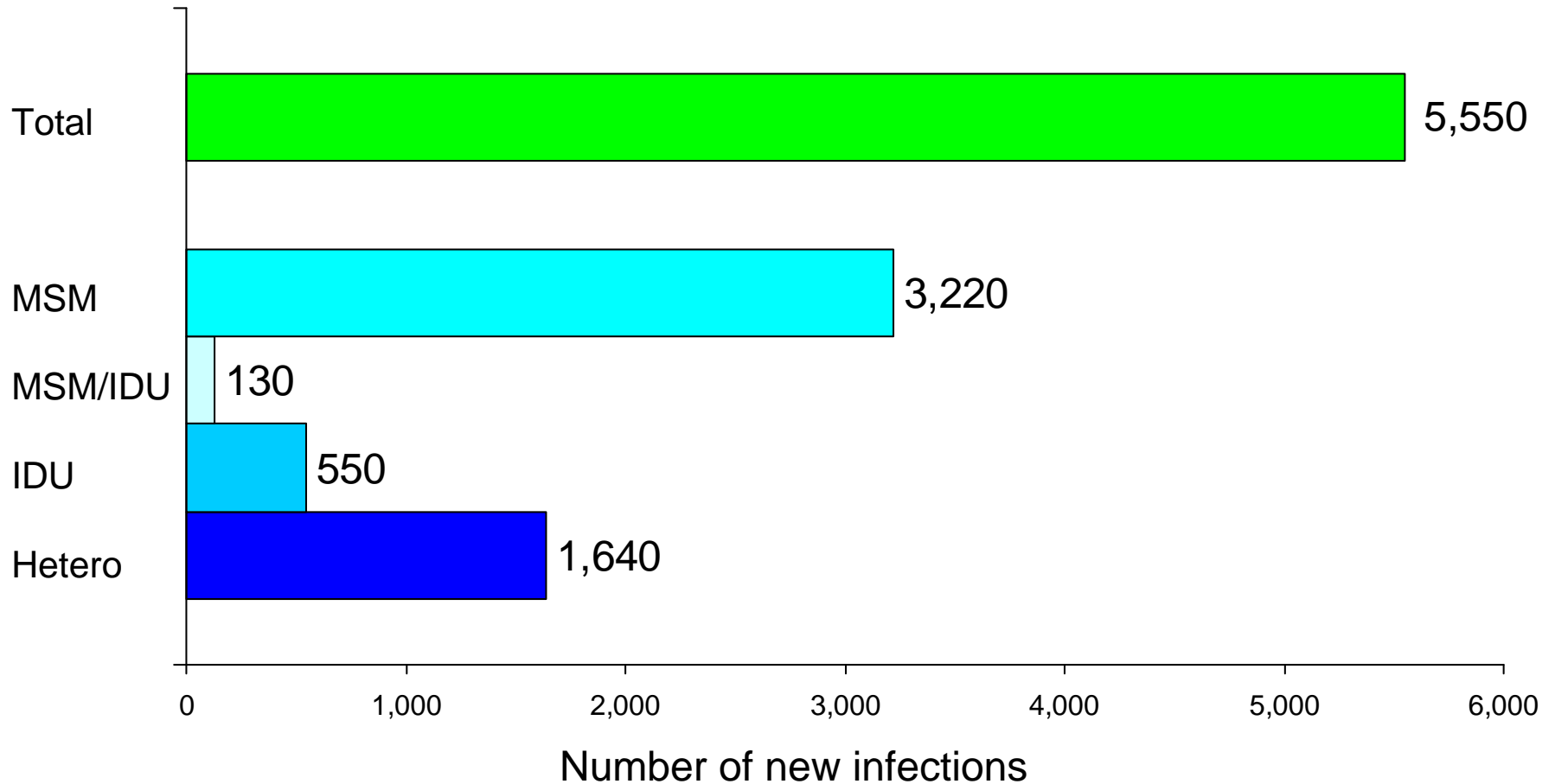


Figure 2. HIV Incidence Rate Estimates
Per 100,000 Population,
By Race/Ethnicity and Age, Florida, 2006



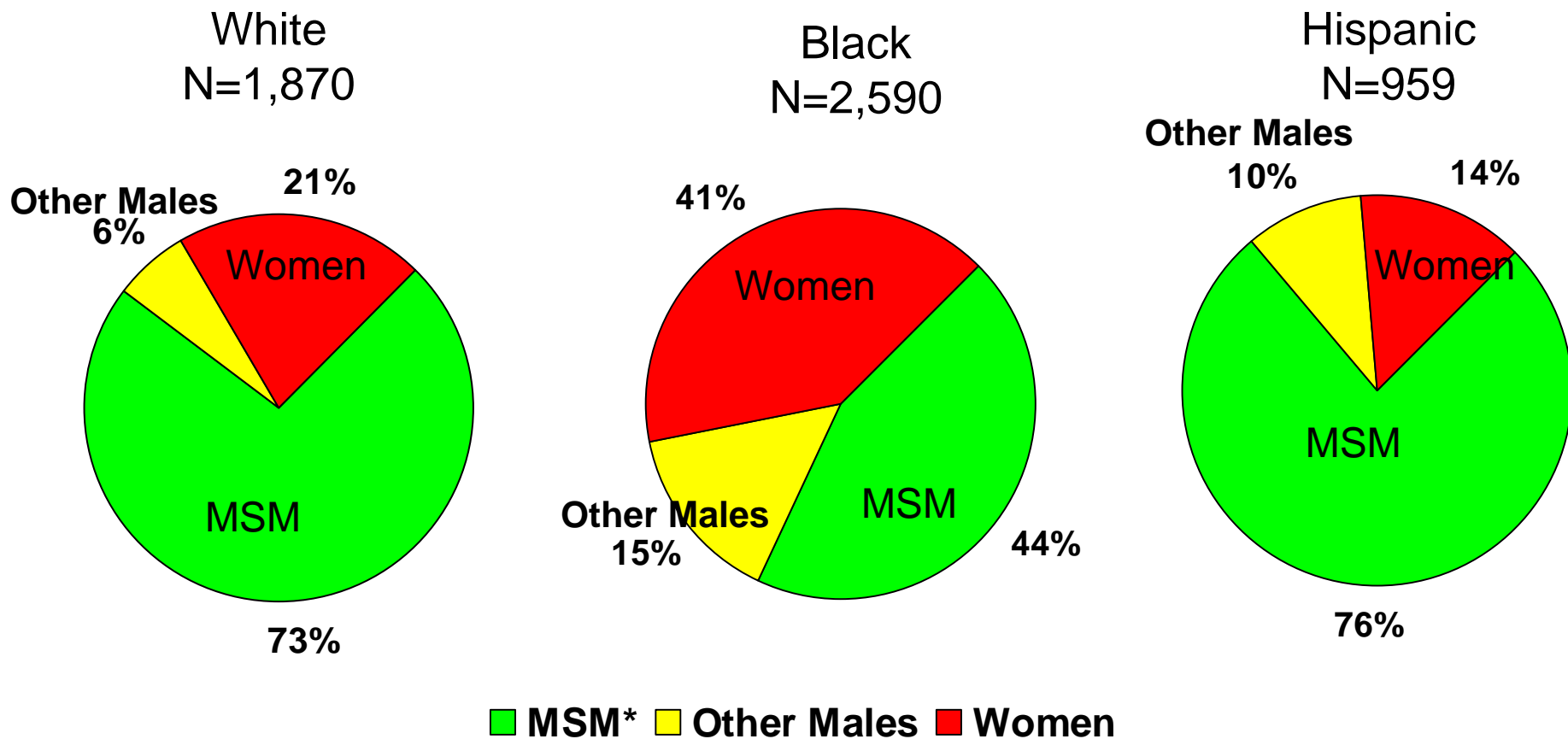
*In Florida, the Hispanic category includes Asian/Pacific Islanders, American Indian/Alaskan Natives, and mixed races. These races/ethnicities represent approximately 6% of the diagnosed cases in this category.

Figure 3. HIV Incidence Estimates,
By Mode of Transmission, Florida, 2006



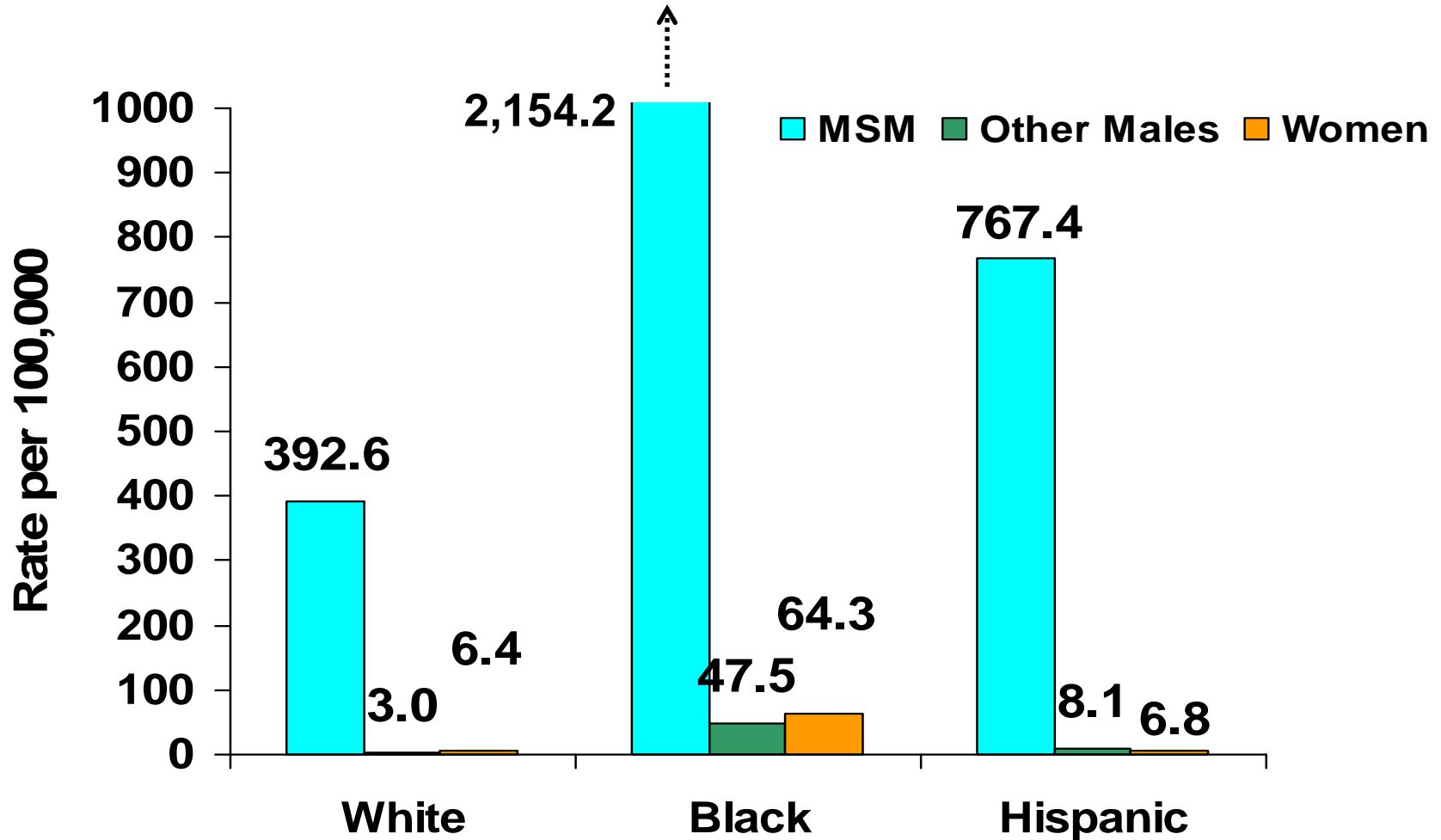
IDU, injection drug user; MSM, men who have sex with men.

Figure 4. Estimated HIV Incidence Among Men and Women, by Race/Ethnicity, Florida, 2006



*MSM includes MSM and MSM/IDUs.

Figure 5. Estimated HIV Incidence Rates Among Men and Women, Florida, 2006*



*Rate estimates from Lieb et al., JAIDS (2010). MSM population estimates for the MSM rate denominators from Lieb et al., Journal of Urban Health (2009).

EPIDEMIC DYNAMICS

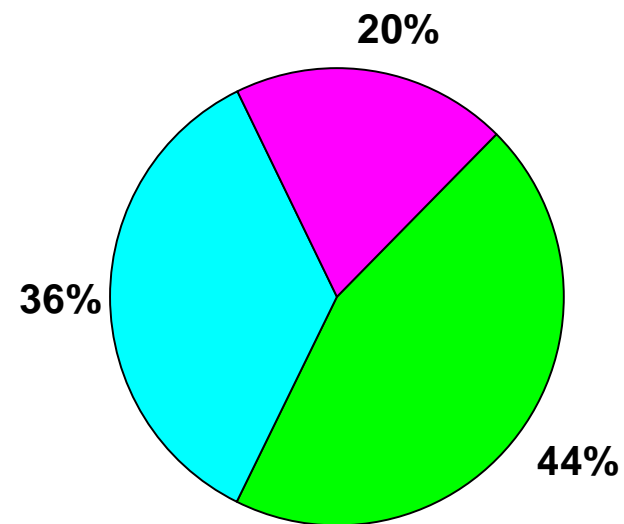
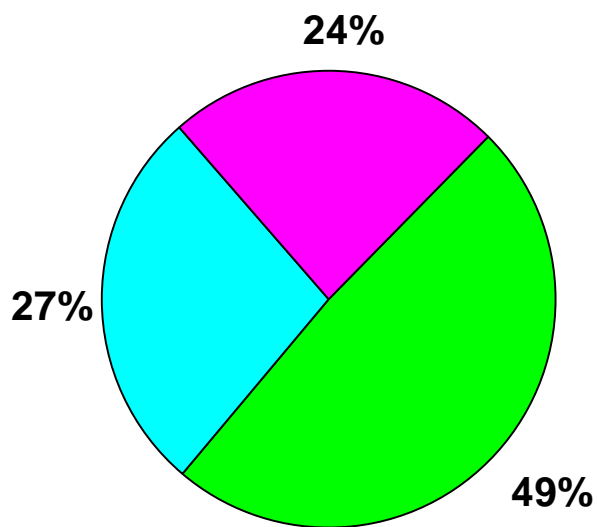
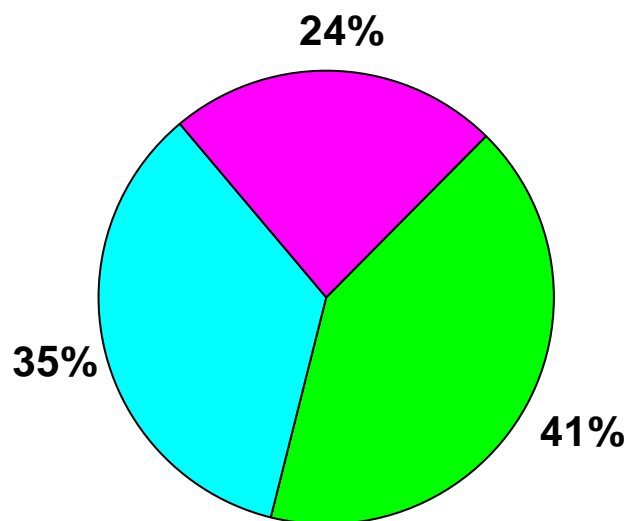
Focus on MSM

Figure 6. HIV Incidence, Prevalence, and Deaths Among MSM, by Race/Ethnicity, Florida*

Incidence ('06)
N=3,340

Prevalence ('06)
N=36,878

Deaths ('06-'07)
N=1,960



■ White ■ Black ■ Hispanic

Table 1a. Estimated HIV Incidence Rates Among MSM and Other Males, Florida, 2006*

Race/Ethnicity	MSM HIV Incidence		
	Number	Rate	Rate Ratio
White	1,360	392.6	--
Black	1,150	2,154.2	5.5
Hispanic	780	767.4	2.0
Total	3,340	656.1	

Race/Ethnicity	Other Males HIV Incidence		
	Number	Rate	Rate Ratio
White	120	3.0	--
Black	390	47.5	15.9
Hispanic	100	8.1	2.7
Total	610	10.0	

*Rates are per 100,000 MSM or per 100,000 other males (all RRs, $p < 0.001$).

Statewide, approximately 64 MSM are infected each week.

Table 1b. Estimated HIV Incidence Rates Among MSM and Other Males, Florida, 2006

Race/Ethnicity	HIV Incidence Rate		
	MSM	Other Males	RR*
White	392.6	3.0	130.9
Black	2,154.2	47.5	45.4
Hispanic	767.4	8.1	94.7
Total	656.1	10.0	65.6

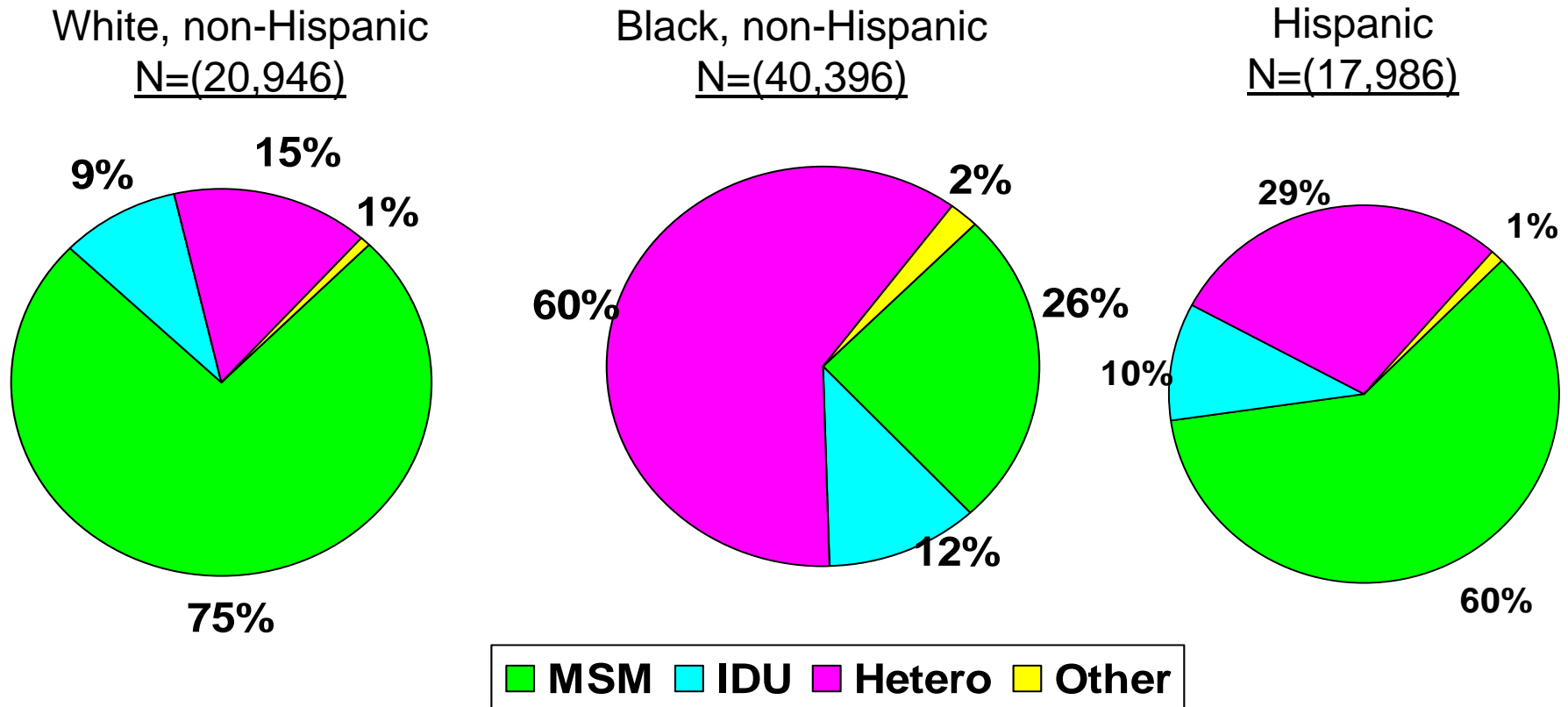
RR = rate ratio.

***Rate ratios compare MSM rates and other male rates (all $p < 0.001$).**

Rates are per 100,000 MSM or per 100,000 other males.

Here, the data in Table 1a are re-organized to directly compare MSM with other males.

Figure 7. HIV Prevalence, by Race/Ethnicity, and Mode of Transmission, Florida, Through 2009*



*Data shown for men and women combined.

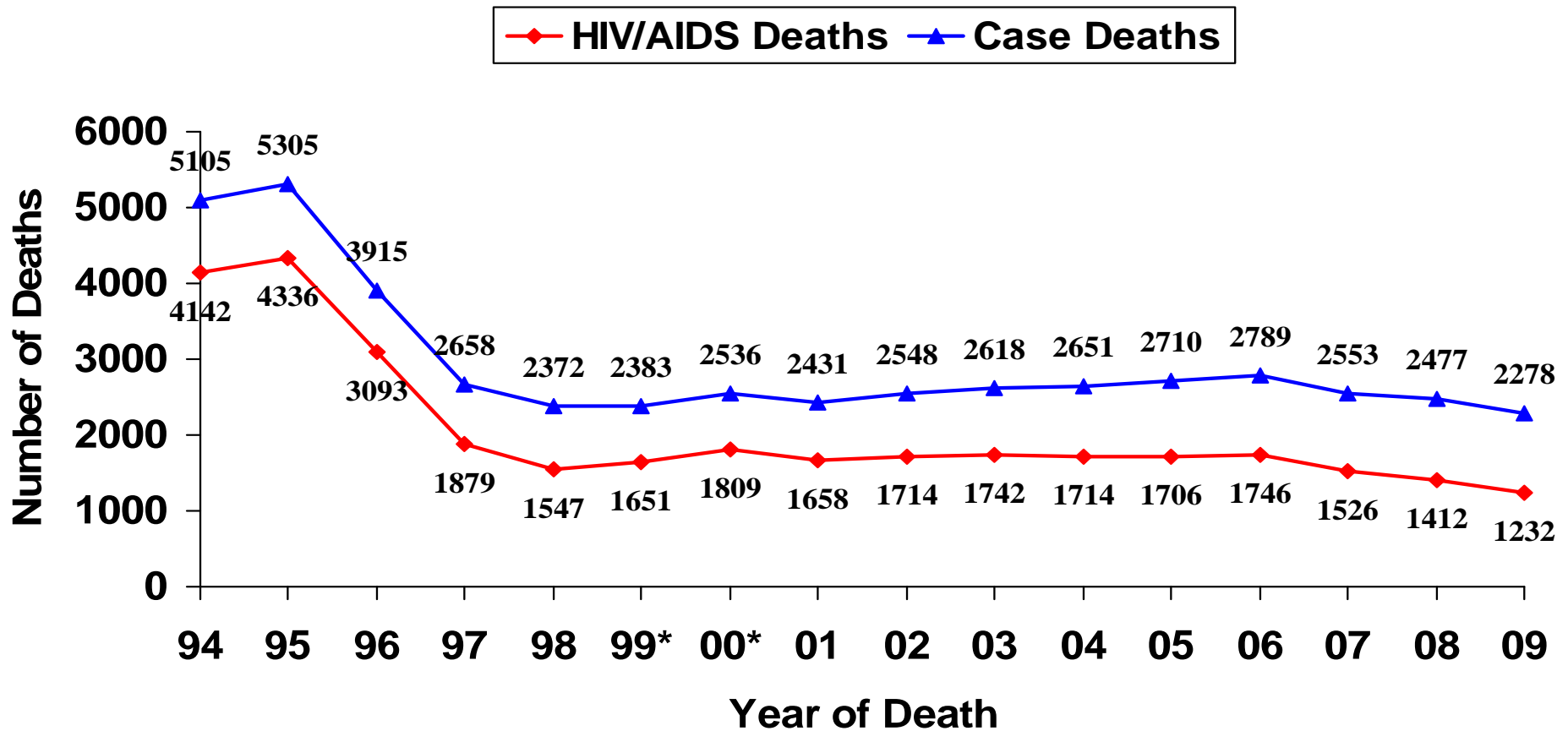
Table 2. Estimated HIV Prevalence (PLWHA) Rates Among MSM, by Race/Ethnicity, Florida, 2006-2007*

Year	Race/Ethnicity	HIV Prevalence Among MSM		
		Cases	Rate	Rate Ratio
2006	White	17,948	5,181.5	--
	Black	10,160	19,031.6	3.7
	Hispanic	8,770	8,628.2	1.7
	Total	36,878	7,354.8	
2007	White	19,059	5,476.0	--
	Black	10,829	19,790.9	3.6
	Hispanic	9,559	9,044.5	1.7
	Total	39,447	7,758.3	

*Rates are per 100,000 MSM (all rate ratios, $p < 0.001$).

Trends in HIV/AIDS Mortality

Figure 8. Resident HIV/AIDS Deaths* and Deaths Among HIV/AIDS Cases**, By Year, Florida, 1994 – 2009



*Source: Office of Vital Statistics, death certificates coded to HIV/AIDS as underlying cause.

**Source: HIV/AIDS case deaths, due to any underlying cause, from the HIV/AIDS Reporting System.

Florida HIV/AIDS Death Rates

Per 100,000 Population

Deaths	Rate	% change
1994	32.0	
1995	33.5	5%
1996	23.9	-29%
1997	14.5	-39%
1998	10.1	-30%
1999	10.5	4%
2000	11.3	8%
2001	10.1	-11%
2002	10.2	1%
2003	10.1	-1%
2004	9.7	-4%
2005	9.5	-2%
2006	9.5	0%
2007	8.1	-15%
2008	7.5	-7%
2009	6.5	-13%

There has been an 80% decline from 1995, (the peak of HIV resident death rates) to 2009

Figure 9. Resident HIV/AIDS Death Rates
Per 100,000 Population, by Sex and Race/Ethnicity, Florida, 2009

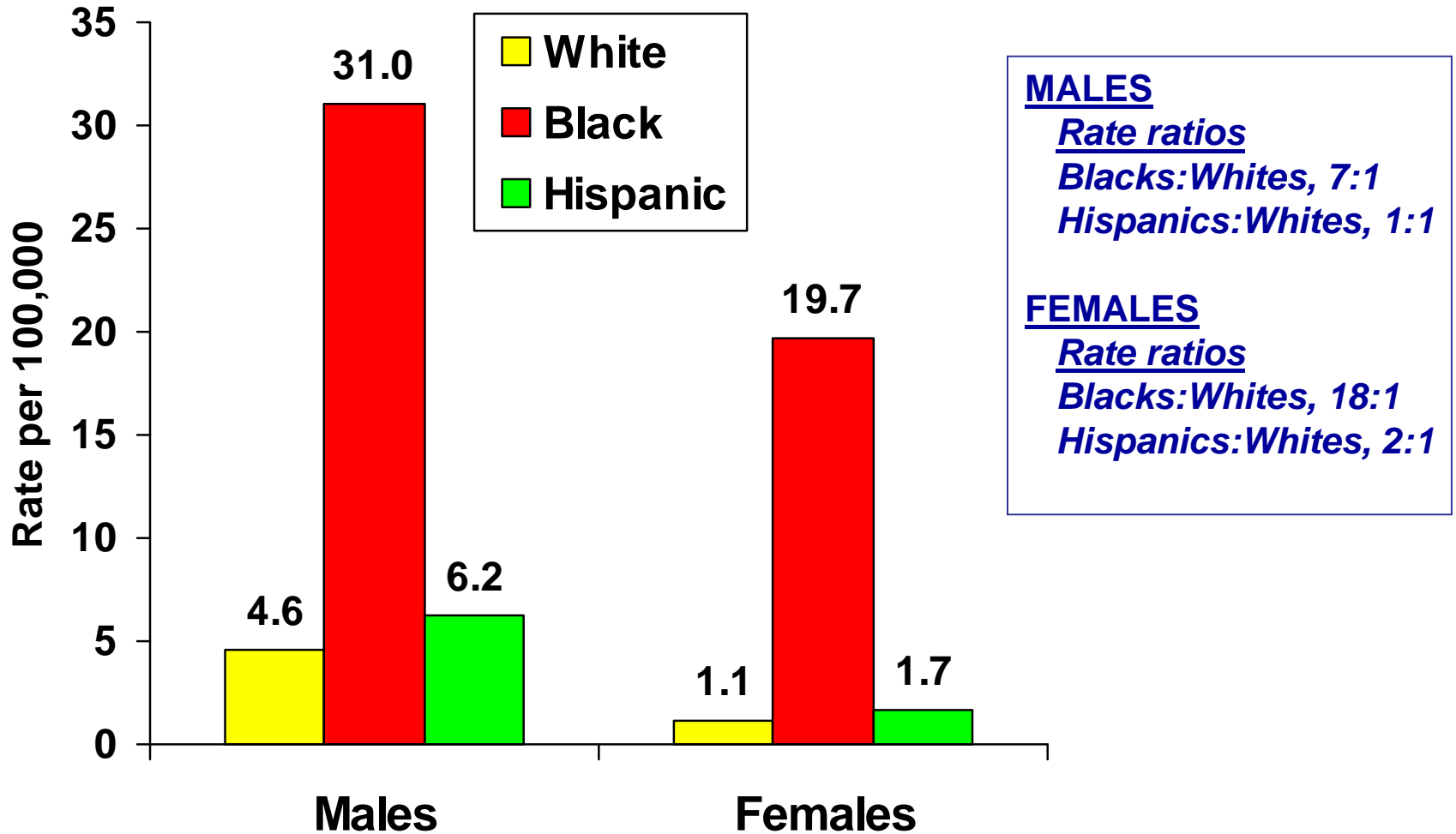


Figure 10. Median Age at Death of HIV/AIDS Cases, By Year of Death, Florida, 1980-2009

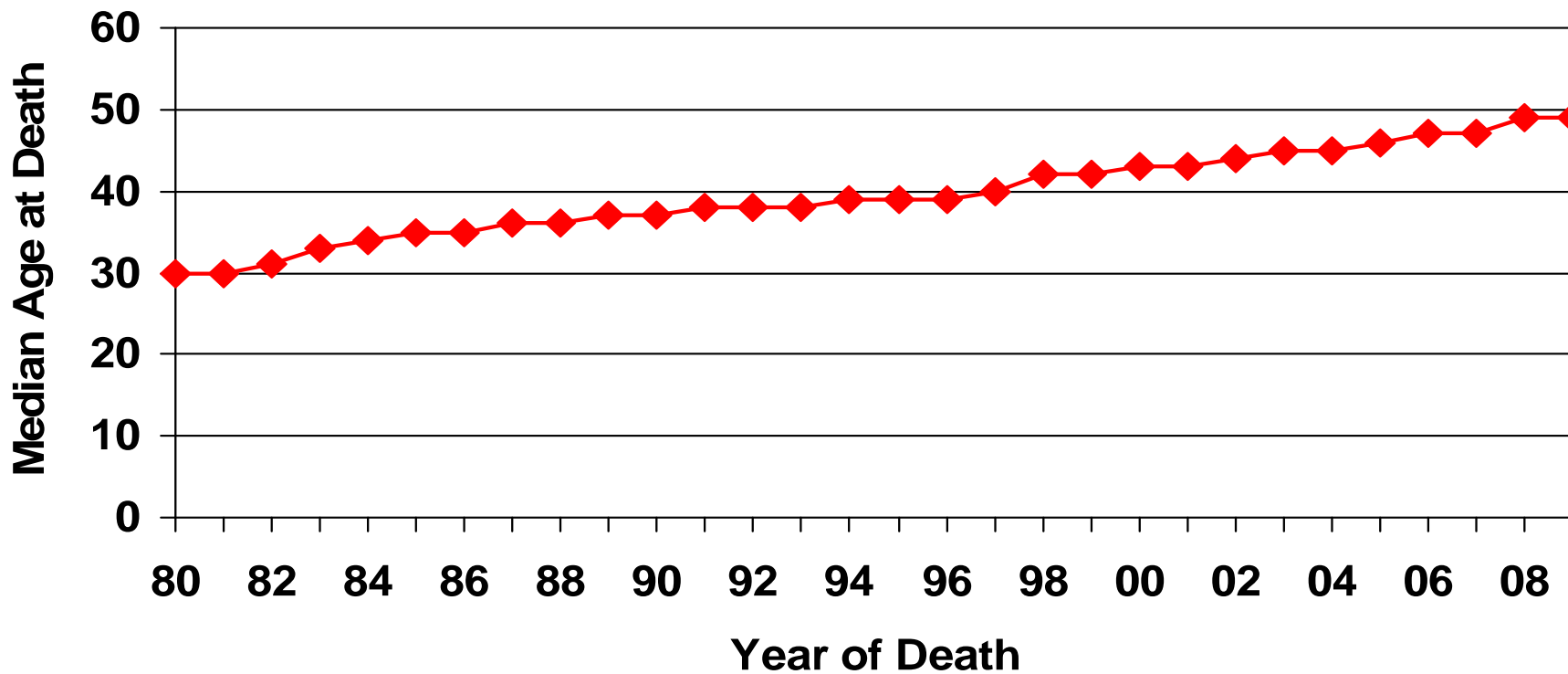


Table 3. Estimated Mortality Rates Among MSM with HIV, Florida, 2006-2007*

Year	Race/Ethnicity	Deaths Among MSM with HIV		
		Number	Rate	Rate Ratio
2006	White	437	126.2	--
	Black	361	676.2	5.4
	Hispanic	204	200.7	1.6
	Total**	1,002	199.8	
2007	White	437	125.6	--
	Black	338	617.7	4.9
	Hispanic	183	173.2	1.4
	Total**	958	188.4	

Rates are per 100,000 MSM (all rate ratios, $p < 0.001$).

Statewide, approximately 19 MSM with HIV die each week.

Underlying Factors for Disparities

- ❖ Pre-existing HIV in community
- ❖ Unprotected anal or vaginal intercourse between serodiscordant or untested partners
- ❖ Multiple partners, concurrent partners
- ❖ Late diagnosis and treatment
- ❖ Homophobia
- ❖ Stigma, discrimination, racism

Underlying Factors for Disparities

- ❖ Homelessness
- ❖ Binge drinking
- ❖ Depression, partner violence, childhood sexual abuse, substance use
- ❖ Prevention burnout, HIV/AIDS complacency
- ❖ STDs
- ❖ Social/sexual mixing patterns of high- and low-risk persons

REFERENCES

Lieb S, Thompson DR, Misra S, et al. Estimating populations of men who have sex with men in the southern United States. *Journal of Urban Health*. 2009;86:887-901. Available at:
http://www.floridaaids.org/Southern_MSM_report.pdf.

Lieb S, White S, Grigg BL, et al. Estimated HIV incidence, prevalence, and mortality rates among racial/ethnic populations of men who have sex with men, Florida. *Journal of Acquired Immune Deficiency Syndromes*. 2010;54:398-405. Available at:
<http://www.floridaaids.org/Docs/LiebRacialMsmFI10plus.pdf>

Florida HIV incidence estimates available at:
http://www.doh.state.fl.us/Disease_ctrl/aids/IncidenceSurv/IncidenceSurv.html.

This present slide set is available at : <http://www.floridaaids.org>, entitled Florida Epidemic Snapshot, 2010.

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