

2007 Indiana HIV Incidence Estimation

The 2007 Indiana HIV Incidence Estimation is now available from the Office of Clinical Data and Research. 2007 saw some changes in the nature of the HIV epidemic. It appears that from 2006 to 2007 that there was an overall 20% increase in new HIV infections in Indiana. New infections increased from 639 in 2006 to 771 in 2007. It also appears that women are increasingly diagnosed from 20% (n=105) of those newly diagnosed to 24% (n=121.) In 2006 the racial disparity for the rate of newly acquired HIV infection was nearly 6 times higher for non white (45.8/100,000) compared to (8.2/100,000) for white individuals. Racial disparities have grown in 2007. In 2007 those considered non white have a rate of new infection of (62.3/100,000) or nearly 9 times higher than those who identify themselves as white (7.2/100,000.)

Persons in all age categories increased in new HIV infections in 2007 compared to 2006. However the age group of 40+ had the largest percentage increase at 46% (2006 n=158; 2007 n=231)

There is also an apparent change in the mode of transmission of new HIV infection. While in 2006, Men that Have Sex with Men (MSM) accounted for 352 of new infections. In 2007 MSM accounted for only 293 new infections, a decrease of 17%. While in 2006 those in the "Other" risk transmission category (Injection drug users, high risk heterosexual, and no reported risk) accounted for 287 new infections. In 2007 "Other" accounted for 478 new infections or an increase of 67%.

The charts that follow give 2006 and 2007 HIV incidence estimation with rates per 100,000 and reported diagnosis for sex (gender), race/ethnicity, diagnosis age, and mode of transmission. It is worth noting that incidence estimation of new infections is 771 while the number diagnosed and reported is 506. That is to say for 2007 34% (n=265) of those infected were not diagnosed in 2007. While for 2006 only 19% (n=120) of people with new infection were not diagnosed in 2006. Early diagnosis is effective in limiting the spread of HIV disease. The need for early diagnosis is clearly present in Indiana and apparently growing.

Overall for 2007 compared to 2006 new infections of HIV are increasing as are the numbers of those who do not know their status and remained undiagnosed. Racial disparities are widening and transmission by means of other than MSM is apparently greatly increasing. Women and those over 40 appear to be at increasing risk for new HIV infection.

The 2006 HIV incidence estimation highlighted the extraordinary risk to the young black MSMs. The 2007 HIV incidence estimation appears to be highlighting the increasing risk to black females over 40 with "Other" risk factors who remain as yet untested.

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STRATA	HIV Incidence Estimate*			Std. Dev.**	HIV/AIDS Diagnosis***	HIV Incidence Estimate*			Std. Dev.**	HIV/AIDS Diagnosis***
	Count	%	Rate/100,000	Count	Count	Count	%	Rate/100,000	Count	Count
Sex										
Male	478	62.0	17.1	102	386	452	70.7	17.5	104	414
Female	293	38.0	10.3	55	121	187	29.3	6.9	63	105
Race/Ethnicity										
White	339	44.0	7.2	71	235	380	59.5	8.2	77	280
Other†	432	56.0	62.3	78	272	259	40.5	45.8	74	239
Diagnosis Age										
13-29	285	37.0	17.5	52	173	261	40.8	17.3	51	176
30-39	254	32.9	26.8	52	145	220	34.5	26.3	55	155
40+	232	30.1	7.6	80	189	158	24.7	5.6	68	188
Transmission										
MSM	289	37.5	N/A	71	222	352	55.1	N/A	67	271
Other† (IDU, NRR)	482	62.5	N/A	51	285	287	44.9	N/A	91	248
Total ±	771	100.0	14.9	126	507	639	100.0	12.3	126	519

‡Source: Indiana State Department of Health, Office of Clinical Data and Research, January 1, 2007 to December 31, 2007; Reported through December 31, 2008

‡‡Source: Indiana State Department of Health, Office of Clinical Data and Research, January 1, 2006 to December 31, 2006; Reported through August 1, 2008

*Incidence Estimate-Estimated Number of New HIV Infections.

**Std. Dev-Standard Deviation of Incidence Estimate 'Count'

***HIV/AIDS Diagnosis-Newly Reported HIV/AIDS Cases to ISDH through December 31, 2008 and diagnosed January 1, 2007 – December 31, 2007

±Total-Non-Stratified (includes all variables) HIV Incidence Estimation. Each set of STRATA separately equals the number represented in the 'Total' with the exception of 'Std. Dev.'.

†Other categories-Represent All Race/Ethnicity's other than Whites and All Transmissions other than MSM. Categories represented in 'Other' were too small separately to accurately estimate Incidence when stratifying.

2007 Estimate rates based on 2007 Census Projection; 2006 Estimate rates based on 2006 Census Projection

MSM-Men who have sex with men

IDU-Injection drug user

HET-Heterosexual High Risk

NRR-No Reported Risk