

Epidemiological Profile

The Newark EMA Epidemiological Profile for the 2005 Needs Assessment follows guidelines on epidemiological profiles issued by the U.S. Centers for Disease Control and Prevention (CDC). All surveillance data is from the New Jersey Department of Health and Senior Services, Division of HIV/AIDS Services.

People Living with HIV/AIDS

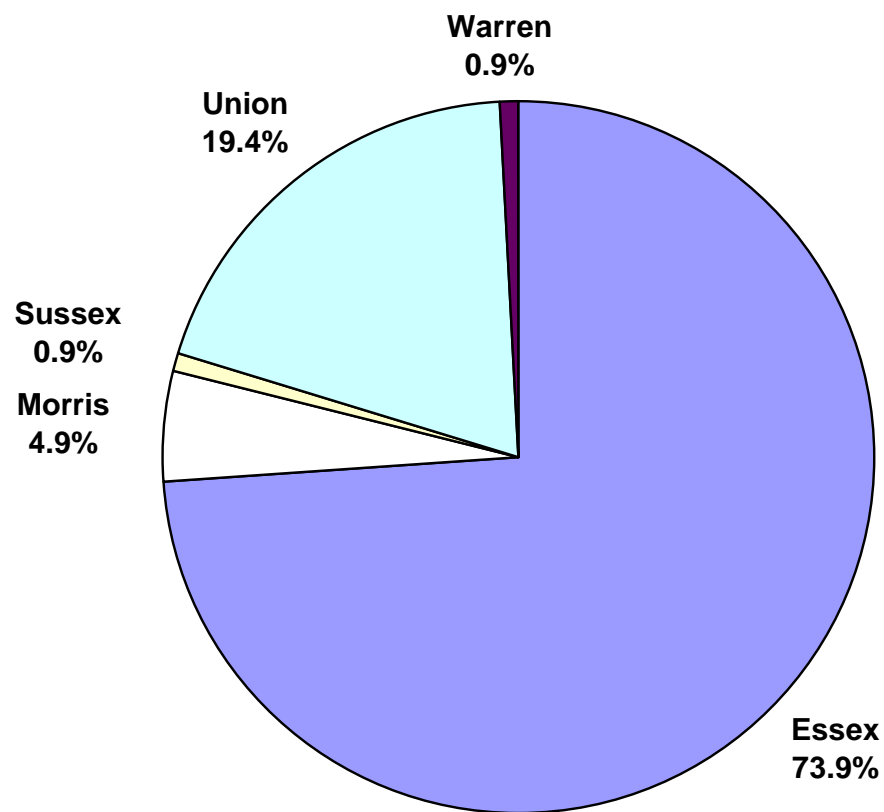
As of December 31, 2004, surveillance data of the New Jersey Department of Health and Senior Services (NJDHSS), Division of HIV/AIDS Services (DHAS) show that there were 12,569 people living with HIV/AIDS (PLWHA) residing in the Newark EMA. This is an increase of 5% or 613 over the 11,956 as of December 31, 2003. Similarly, there were 32,746 PLWHA in New Jersey as of 2004, or a 5% increase over the 31,320 in 2003. The Newark EMA accounts for 38.4% of PLWHA in New Jersey. Table 1-1.

Table 1-1: People Living With HIV or AIDS as of December 31, 2004 - Newark EMA and New Jersey

County	PLWHA			%		%	
	AIDS	HIV	Total	AIDS	HIV	NEMA	NJ
Essex	4,664	4,623	9,287	50.2%	49.8%	73.9%	28.4%
Morris	351	268	619	56.7%	43.3%	4.9%	1.9%
Sussex	59	61	120	49.2%	50.8%	0.9%	0.4%
Union	1,408	1,025	2,433	57.9%	42.1%	19.4%	7.4%
Warren	52	58	110	47.3%	52.7%	0.9%	0.3%
Newark EMA	6,534	6,035	12,569	52.0%	48.0%	100.0%	38.4%
New Jersey	17,401	15,345	32,746	53.1%	46.9%		
Rest of NJ	10,867	9,310	20,177	53.9%	46.1%		
NEMA/NJ	37.5%	39.3%	38.4%				

Within the Newark EMA, most PLWHA (9,287 or 73.9%) reside in Essex County, followed by 2,433 (19.4%) in Union County. A total of 849 or 6.7% reside in the remaining three counties – 619 (4.9%) in Morris, 120 (0.9%) in Sussex, and 110 (0.9%) in Warren County. Figure 1A.

Figure 1-A: PLWHA by County in Newark EMA - 12/31/04



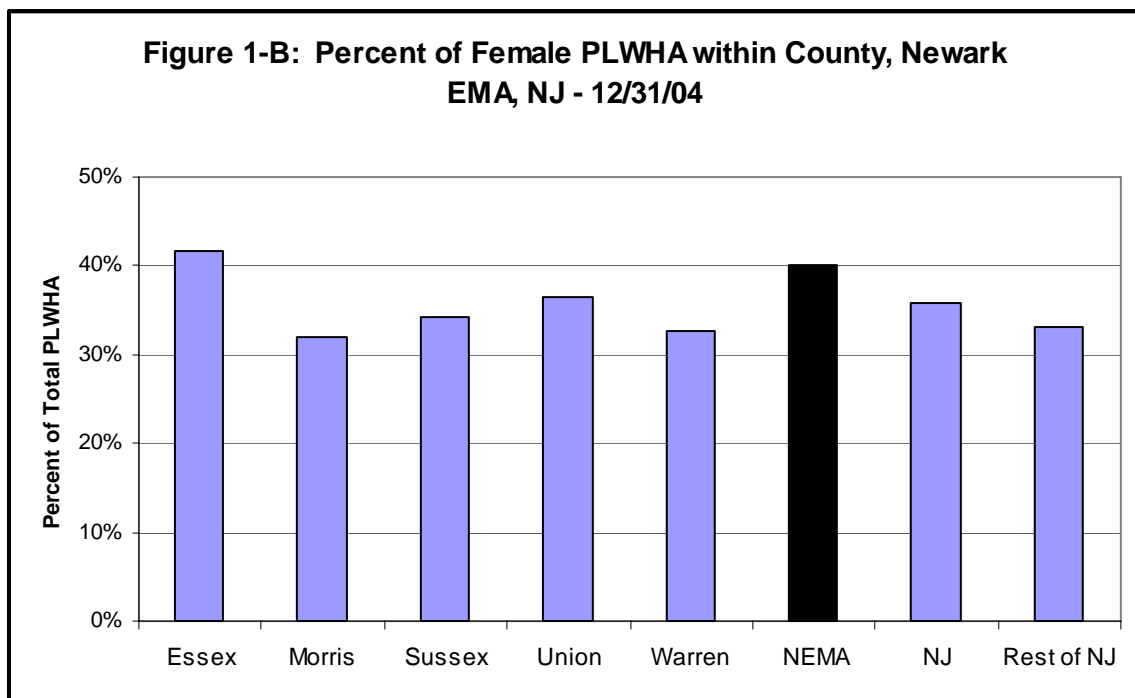
Gender

Of the total PLWHA, 60% or 7,537 were male and 40% or 5,032 were female. This reflects the same distribution as 2003. The epidemic among women in the Newark EMA directly affects the corresponding statewide epidemic. The percent of female PLWHA in New Jersey including the Newark EMA is 35.7%, but in the rest of New Jersey without the Newark EMA the percent of HIV+ women drops to 33.1% of cases. Within the Newark EMA, the highest percent of female PLWHA (41.7%) reside in Essex County, followed by Union County (36.5%) and Sussex County (34.2%). The lowest percent of female PLWHA reside in Warren County (32.7%) and Morris County (32.0%). Table 1-2, Figure 1-B.

Table 1-2: PLWHA as of December 31, 2004 - Gender - Newark EMA & NJ

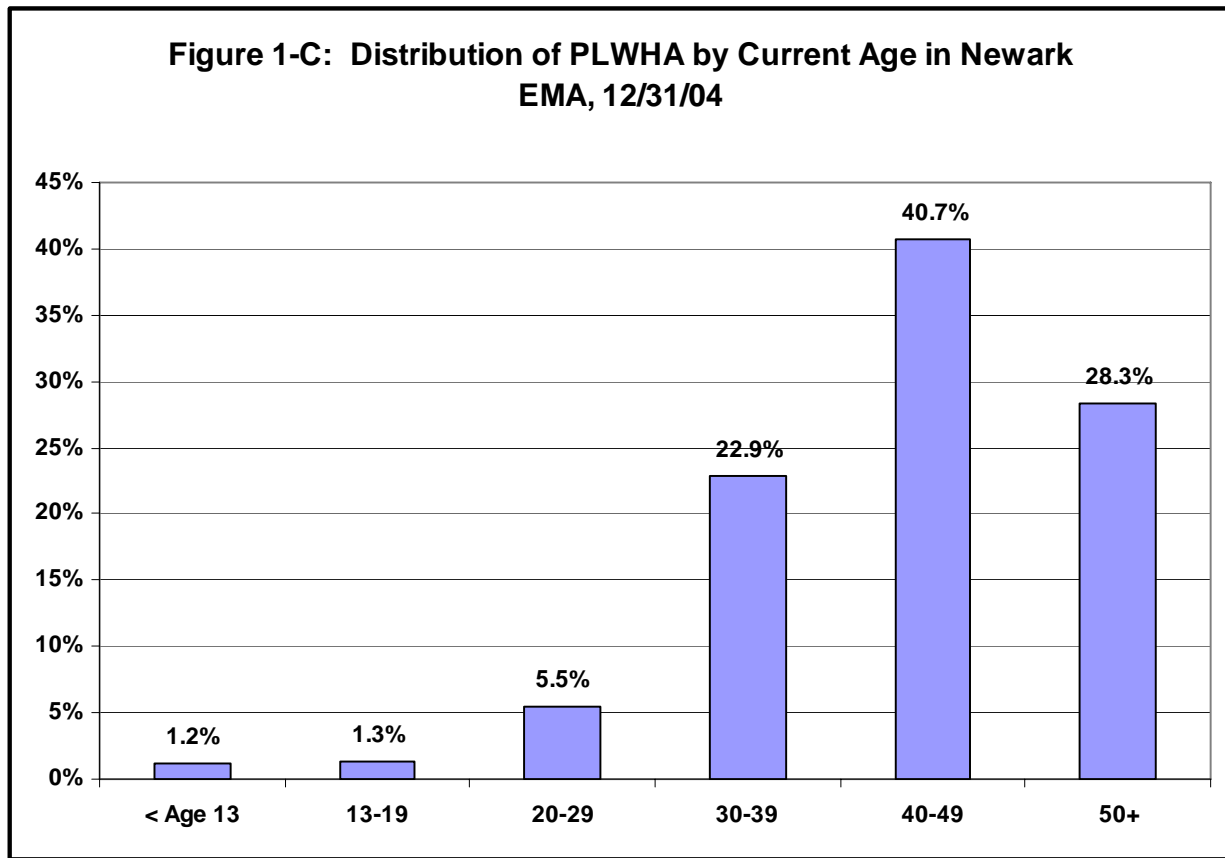
County	Number			Percent		
	Male	Female	Total	Male	Female	Total
Essex	5,417	3,870	9,287	58.3%	41.7%	100.0%
Morris	421	198	619	68.0%	32.0%	100.0%
Sussex	79	41	120	65.8%	34.2%	100.0%
Union	1,546	887	2,433	63.5%	36.5%	100.0%
Warren	74	36	110	67.3%	32.7%	100.0%
NEMA	7,537	5,032	12,569	60.0%	40.0%	100.0%
NJ	21,043	11,703	32,746	64.3%	35.7%	100.0%
Rest of NJ	13,506	6,671	20,177	66.9%	33.1%	100.0%
NEMA/NJ	35.8%	43.0%	38.4%			

Figure 1-B: Percent of Female PLWHA within County, Newark EMA, NJ - 12/31/04



Age

With respect to age, the highest number (5,119) and percent (40.7%) of PLWHA are age 40-49. The second highest age category is PLWHA age 50 and older (3,561 or 28.3%). The third highest category is individuals age 30-39 at 2,880 or 22.9%. In other words, well over two-thirds (69%) of PLWHA are age 40 and older, an increase of two percentage points over 2003 (67%). This older epidemic contrasts to the younger epidemic prior to development of protease inhibitors and combination therapy (mid-1990's), when the largest numbers of PLWHA were young adults age 25-44. In 2004-2005, more people are being diagnosed later in life, and are living longer with HIV disease due to life sustaining medications. They are "aging into" these older age categories follow a diagnosis at an earlier age. Table 1-3 and Figure 1-C.



Race/Ethnicity

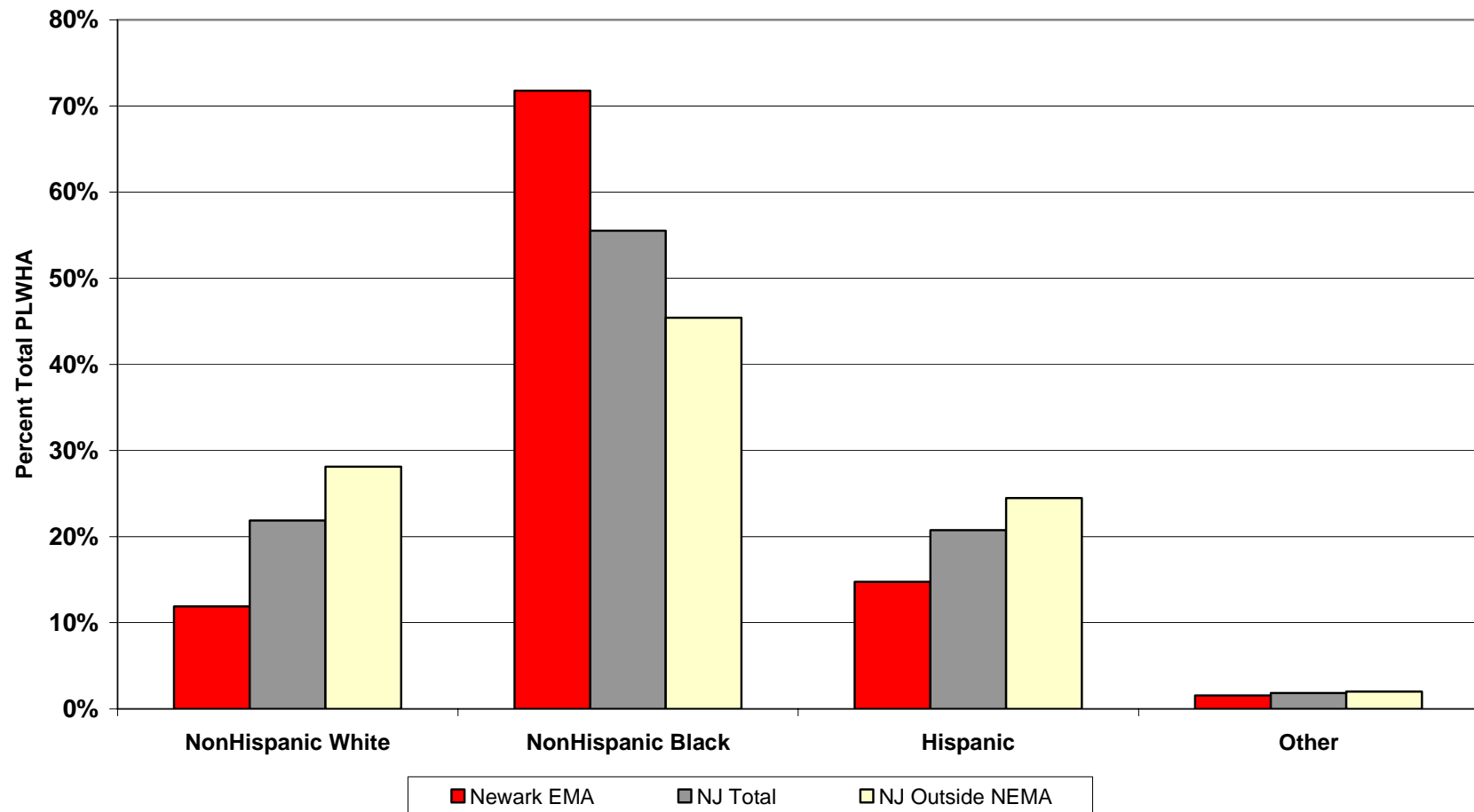
Within the Newark EMA, nearly three quarters of PLWHA (72% or 9,021) are Black, Not Hispanic. An additional 1,855 (15%) PLWHA are Hispanic and 1,494 (12%) are White, Not Hispanic. The remaining 199 PLWHA (1.6%) are of other races. Table 1-4 and Figure 1-D.

The racial/ethnic characteristics of the HIV epidemic in the Newark EMA are much different than the rest of New Jersey outside of the EMA. In both areas, the population most affected by HIV is NonHispanic Black. However, while African Americans comprise 72% of the EMA's epidemic, they comprise less than half (45%) of the epidemic in the rest of New Jersey. NonHispanic Whites outside of the Newark EMA are the second highest racial/ethnic category affected by HIV – at 28% of PLWHA – more than twice as high as the 12% in the Newark EMA. Surprisingly, Hispanics comprise the HIV epidemic outside of the EMA at rates 2/3 greater than the Newark EMA – 25% of PLWHA in the rest of New Jersey versus 15% in the Newark EMA.

Although the Newark EMA accounts for 39% of PLWHA in New Jersey, half (50%) of the state's NonHispanic Black PLWHA reside in the Newark EMA and 40% of New Jersey's African American PLWHA reside in Essex County.

County	NonHispanic White	NonHispanic Black	Hispanic	Other	Total
Number					
Essex	576	7,373	1,215	123	9,287
Morris	351	144	105	19	619
Sussex	93	14	10	3	120
Union	399	1,472	511	51	2,433
Warren	75	18	14	3	110
NEMA	1,494	9,021	1,855	199	12,569
NJ	7,167	18,181	6,795	603	32,746
Rest of NJ	5,673	9,160	4,940	404	20,177
NEMA/NJ	20.8%	49.6%	27.3%	33.0%	38.4%
Percent					
Essex	6.2%	79.4%	13.1%	1.3%	100.0%
Morris	56.7%	23.3%	17.0%	3.1%	100.0%
Sussex	77.5%	11.7%	8.3%	2.5%	100.0%
Union	16.4%	60.5%	21.0%	2.1%	100.0%
Warren	68.2%	16.4%	12.7%	2.7%	100.0%
NEMA	11.9%	71.8%	14.8%	1.6%	100.0%
NJ	21.9%	55.5%	20.8%	1.8%	100.0%
Rest of NJ	28.1%	45.4%	24.5%	2.0%	100.0%

Figure 1-D: PLWHA by Race/Ethnicity within Newark EMA, NJ Total, NJ Outside NEMA as of 12/31/04



Exposure Category/Mode of Transmission

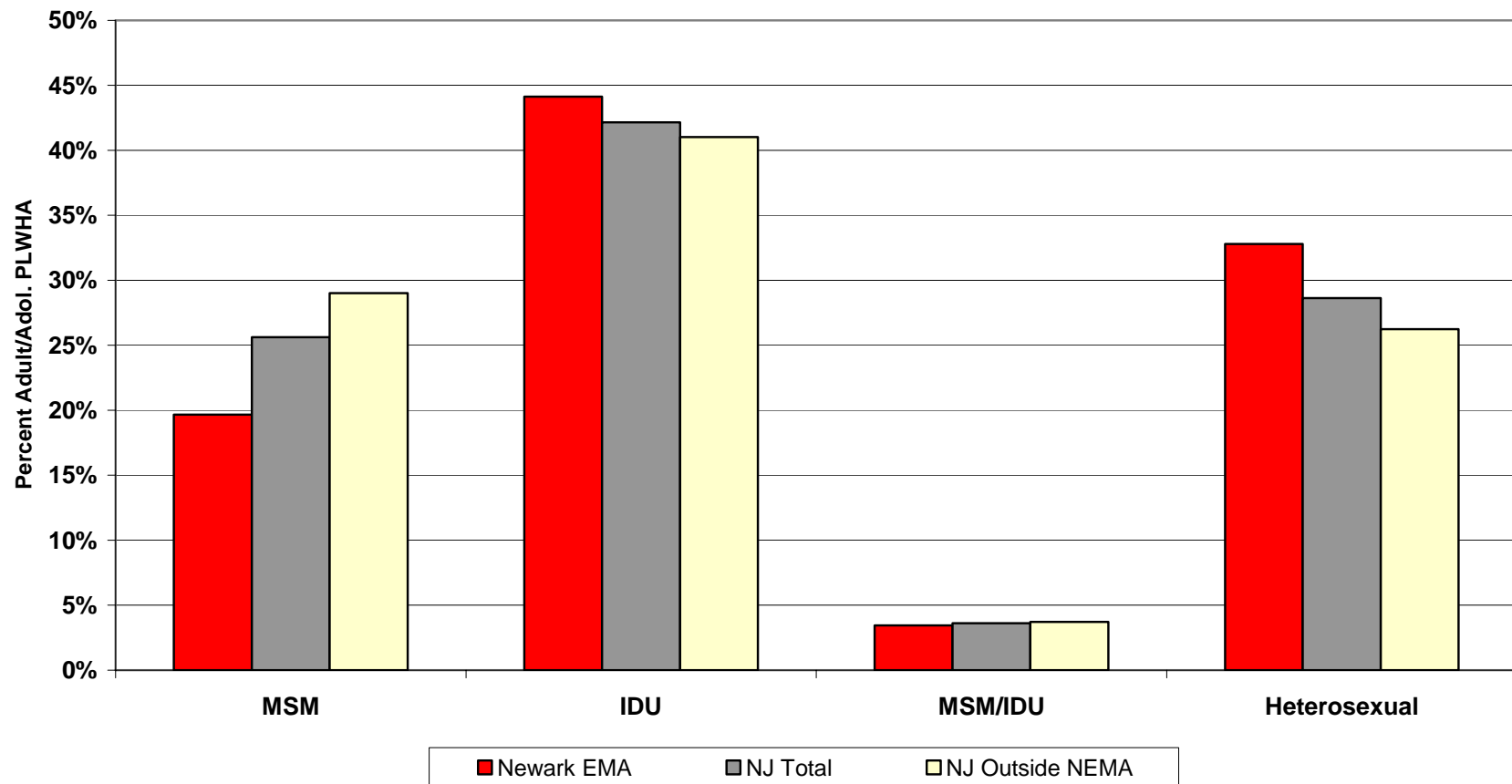
Exposure category or mode of transmission is tabulated separately for Adult/Adolescent exposure categories and Pediatric exposure. Within the Newark EMA, Injecting Drug Use (IDU) continues to be the leading exposure category among adult/adolescents, at nearly one third of all diagnoses. Heterosexual transmission is the second leading cause of HIV infection, at 23% of PLWHA. Men having Sex with Men (MSM), is the third leading cause at 14% of PLWHA. MSM/IDU is the fourth exposure category, at 3% of all HIV infection. The leading cause of pediatric HIV is a parent infected with HIV (95%). Table 1-5.

IDU is the leading cause of HIV infection for the rest of New Jersey as well. Outside of the Newark EMA, however, MSM is the second leading cause of HIV infection at 22% of PLWHA. Heterosexual transmission is a close third at 20% of HIV. MSM/IDU is fourth at 3% of HIV.

Within New Jersey, the Newark EMA accounts for more than its proportionate share of two exposure categories – heterosexual transmission (42% of NJ HIV) and pediatric HIV infection (47%).

The “Other Risk or Unknown Risk” category reflects individuals who do not report the cause of their HIV infection. This category accounts for one quarter of PLWHA – from 23% outside of the EMA to 29% of PLWHA within the Newark EMA. To better display the relative proportions of adult/adolescent exposure category, Figure 1-E shows the percent distribution of PLWHA among the four adult exposure categories. From this figure, the differences between the Newark EMA and rest of New Jersey are more apparent within the categories of MSM and exposure by heterosexual contact.

**Figure 1-E: PLWHA by Adult/Adolescent Exposure Category
(Estimated by removing Unknown) - Newark EMA, NJ, NJ outside of
NEMA as of 12/31/04**

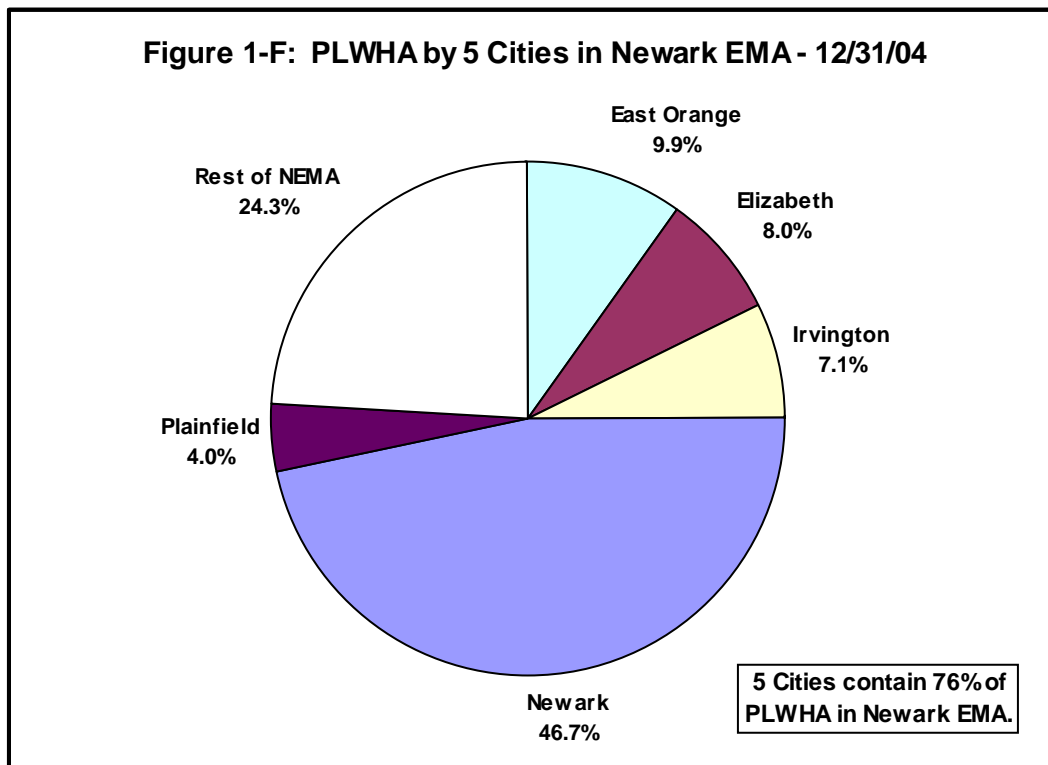


Geographical Distribution

In addition to county of residence, the Newark EMA HIV epidemic is further concentrated in its five largest cities – East Orange, Irvington and Newark in Essex County and Elizabeth and Plainfield in Union County. Over three fourths (76%) of PLWHA reside in these five cities. With 5,603 PLWHA, Newark accounts for 47% of PLWHA in the EMA and 18% of PLWHA in New Jersey. Table 1-6 and Figure 1-F.

Table 1-6: PLWHA as of December 31, 2004 - 5 Cities, Newark EMA and NJ

City	#			%		Distn in 5 Cities	% 5 Cities of	
	AIDS	HIV	Total	AIDS	HIV		NEMA	NJ
East Orange	654	587	1,241	52.7%	47.3%	13.0%	9.9%	3.8%
Elizabeth	585	420	1,005	58.2%	41.8%	10.6%	8.0%	3.1%
Irvington	464	433	897	51.7%	48.3%	9.4%	7.1%	2.7%
Newark	2,878	2,987	5,865	49.1%	50.9%	61.6%	46.7%	17.9%
Plainfield	294	214	508	57.9%	42.1%	5.3%	4.0%	1.6%
Total 5 Cities	4,875	4,641	9,516	51.2%	48.8%	100.0%	75.7%	29.1%
NEMA	6,534	6,035	12,569	52.0%	48.0%			
Rest of NEMA	1,659	1,394	3,053	54.3%	45.7%			
NJ	17,401	15,345	32,746	53.1%	46.9%			
Cities/NEMA	74.6%	76.9%	75.7%					



Disproportionate Impact

Disproportionate impact means that the HIV/AIDS epidemic affects the total population of the Newark EMA or subpopulations within the EMA at proportions or percentage which are greater than the percent of the total general population. Disproportionate impact is important because it indicates where the HIV/AIDS epidemic is affecting residents more seriously.

The following areas indicate a disproportionate impact of HIV/AIDS in the Newark EMA.

- The entire Newark EMA is disproportionately impacted by the HIV epidemic – with 38% of the state’s PLWHA, but only 24% of New Jersey’s total residents.
 - Among counties in the EMA, Essex County is most impacted with 74% of PLWHA but only 39% of the EMA’s general population.
 - All five cities are disproportionately impacted with 76% of PLWHA, but only 28% of the EMA’s total residents. However, Newark bears with greatest burden with 47% of the EMA’s PLWHA but only 13% of its population, and 18% of New Jersey’s PLWHA but only 3% of the state’s population.
- Women in the Newark EMA are most affected by HIV, at 40% of PLWHA. As of June 30, 2004, the CDC reported that the Newark EMA contains the highest percent (36.76%) of women, infants, children and youth living with AIDS among the 51 EMAs in the United States.
 - Women represent a higher proportion of the HIV epidemic in urban areas – Essex County (42%) and three cities of Irvington (46%), East Orange (44%) and Newark (42%).
- HIV disproportionately affects African Americans in the Newark EMA. African Americans account for 22% of the EMA’s general population but 72% of its HIV.
- Exposure to HIV via heterosexual contact continues to increase disproportionately in the EMA compared to the rest of New Jersey. The increase is concentrated in the five large cities within the EMA, and Irvington has the highest percent.
- Children in the Newark EMA continue to be disproportionately affected by HIV – the EMA accounts for 47% of New Jersey’s PLWHA exposed by an HIV-infected parent.

HIV Prevalence

Prevalence of HIV disease, or number of PLWHA per 100,000 population, is another means of assessing the impact of HIV disease. It is computed by dividing PLWHA by the population, and can be adapted to total populations and populations within a geographical area.

HIV prevalence in the Newark EMA is 618 PLWHA per 100,000 population, or nearly twice as high as the rest of New Jersey with a rate of 316 PLWHA per 100,000 population. Within the EMA, HIV prevalence is highest in Essex County, at 1,170 PLWHA per 100,000 population, nearly three times as high as the next county, Union at 466 PLWHA per 100,000 population. The remaining three counties have much lower HIV prevalence rates, with PLWHA spread out over larger geographical areas, which present additional challenges in ensuring access to medical care and other services. Table 1-7.

HIV prevalence rates demonstrate the disproportionate impact of HIV disease on racial/ethnic minority populations within counties of the EMA. Table 1-7 and Figure 1-G.

NonHispanic Blacks are affected by HIV at extraordinary rates. Within the EMA, HIV prevalence of 1,996 NonHispanic Black PLWHA per 100,000 African American residents is three times greater than the EMA-wide rate for all residents. HIV prevalence among Blacks in Essex County is the highest, at 2,245 per 100,000, followed by Union at 1,368 per 100,000 and Morris County at 1,368 per 100,000.

Hispanics are also disproportionately affected by HIV in the EMA. The EMA-wide rate of 686 Hispanic PLWHA per 100,000 Hispanics/Latinos residing in the EMA, is higher than the rate for the rest of New Jersey at 583 per 100,000. Essex County also has the highest HIV prevalence rates among Latinos at 993 per 100,000. The remaining counties have lower rates.

The HIV epidemic in the EMA does not spare NonHispanic Whites. The EMA's NonHispanic Whites are affected by HIV at the same rates as the rest of New Jersey – 123 PLWHA per 100,000 population compared with 128 in the rest of New Jersey.

Within the EMA's five cities, the impact of HIV described above is more dramatic. HIV prevalence for the total of the five cities is 1,662 per 100,000 residents, nearly three times as high as the EMA-wide rate, and eight times as high as the rest of the EMA. HIV prevalence rates for all racial and ethnic categories in the five cities (total) exceed those of the rest of the EMA. Table 1-8 and Figure 1-H.

Comparison of Newark EMA and Counties/Regions

Appendix A contains additional figures comparing epidemiological data of the Newark EMA with that of the three counties/regions – Essex County, Union County, Morris/Sussex/Warren county region. Topics covered include which HIV versus AIDS, gender, race/ethnicity, age, and exposure category (total, male and female).

Table 1-7: HIV/AIDS Prevalence as of 12/31/04 - Newark EMA and NJ

PLWHA by Race/Ethnicity as of 12/31/04

	NonHispanic White	NonHispanic Black	Hispanic	Other	Total
Essex	576	7,373	1,215	123	9,287
Morris	351	144	105	19	619
Sussex	93	14	10	3	120
Union	399	1,472	511	51	2,433
Warren	75	18	14	3	110
NEMA	1,494	9,021	1,855	199	12,569
Rest of NJ	5,673	9,160	4,940	404	20,177
NJ	7,167	18,181	6,795	603	32,746

General Population, 2000 Census*

	NonHispanic White	NonHispanic Black	Hispanic	Other	Total
Essex	304,939	328,361	122,347	37,986	793,633
Morris	389,110	12,642	36,626	31,834	470,212
Sussex	135,716	1,466	4,822	2,162	144,166
Union	288,104	107,636	103,011	23,790	522,541
Warren	95,183	1,888	3,751	1,615	102,437
NEMA	1,213,052	451,993	270,557	97,387	2,032,989
Rest of NJ	4,421,288	666,817	846,634	446,622	6,381,361
NJ	5,634,340	1,118,810	1,117,191	544,009	8,414,350

HIV/AIDS Prevalence Rates (per 100,000 population) as of 12/31/04

	NonHispanic White	NonHispanic Black	Hispanic	Other	Total
Essex	189	2,245	993	324	1,170
Morris	90	1,139	287	60	132
Sussex	69	955	207	139	83
Union	138	1,368	496	214	466
Warren	79	953	373	186	107
NEMA	123	1,996	686	204	618
Rest of NJ	128	1,374	583	90	316
NJ	127	1,625	608	111	389

*"Other" includes American Indian, Alaska Native, Native Hawaiian, and Other Pacific Islander.
 Persons who reported two or more races in the 2000 Census are apportioned to one of the three categories (NonHispanic White, NonHispanic Black, Hispanic).

Figure 1-G: HIV/AIDS Prevalence by Race/Ethnicity and County within Newark EMA as of 12/31/04

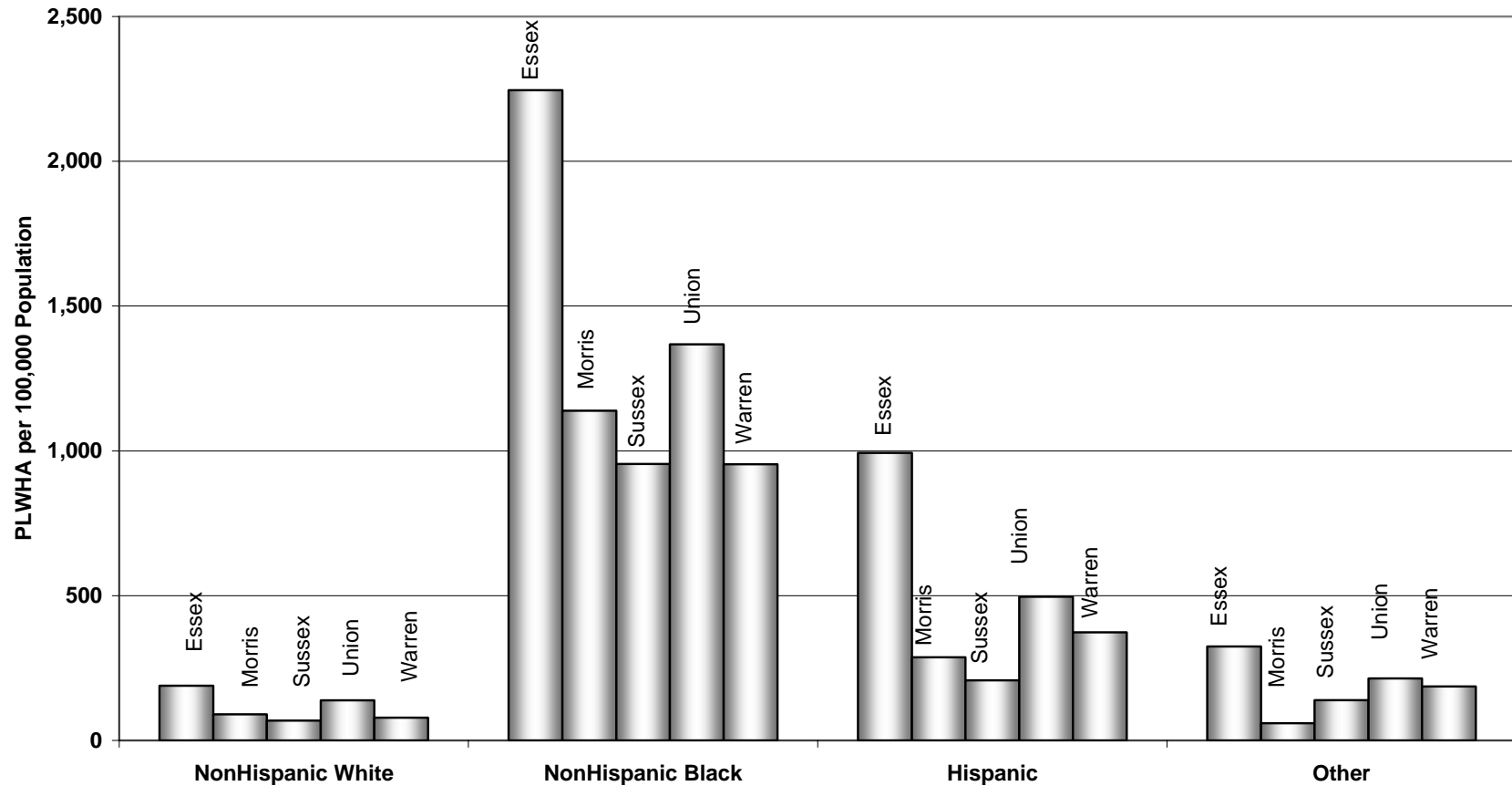


Table 1-8: HIV/AIDS Prevalence as of 12/31/04 – Five Cities in Newark EMA

PLWHA by Race/Ethnicity as of 12/31/04

	NonHispanic White	NonHispanic Black	Hispanic	Other	Total
East Orange	27	1,157	34	23	1,241
Elizabeth	115	511	365	14	1,005
Irvington	21	825	39	12	897
Newark	198	4,628	987	52	5,865
Plainfield	52	392	53	11	508
Total 5 Cities	413	7,513	1,478	112	9,516
Rest of EMA	1,081	1,508	377	87	3,053
NEMA	1,494	9,021	1,855	199	12,569

General Population, 2000 Census*

	NonHispanic White	NonHispanic Black	Hispanic	Other	Total
East Orange	1,878	61,743	3,284	2,919	69,824
Elizabeth	32,459	22,412	59,627	6,070	120,568
Irvington	3,471	48,938	5,086	3,200	60,695
Newark	39,024	142,353	80,622	11,547	273,546
Plainfield	5,538	28,853	12,033	1,405	47,829
Total 5 Cities	82,370	304,299	160,652	25,141	572,462
Rest of EMA	1,130,682	147,694	109,905	72,246	1,460,527
NEMA	1,213,052	451,993	270,557	97,387	2,032,989

HIV/AIDS Prevalence Rates (per 100,000 population) as of 12/31/04

	NonHispanic White	NonHispanic Black	Hispanic	Other	Total
East Orange	1,438	1,874	1,035	788	1,777
Elizabeth	354	2,280	612	231	834
Irvington	605	1,686	767	375	1,478
Newark	507	3,251	1,224	450	2,144
Plainfield	939	1,359	440	783	1,062
Total 5 Cities	501	2,469	920	445	1,662
Rest of EMA	96	1,021	343	120	209
NEMA	123	1,996	686	204	618

*"Other" includes American Indian, Alaska Native, Native Hawaiian, and Other Pacific Islander.
 Persons who reported two or more races in the 2000 Census are apportioned to one of the three categories (NonHispanic White, NonHispanic Black, Hispanic).

Figure 1-H: HIV/AIDS Prevalence by Race/Ethnicity and City within Newark EMA as of 12/31/04

