

2008 HIV/AIDS Surveillance Report for Cuyahoga County

Office of Biostatistics, Cleveland Department of Public Health

June 8, 2009

Since 1980, there have been **5,921 Cuyahoga County** residents, **4,242 from Cleveland**, reported to the Cleveland Department of Public Health (CDPH) to have the HIV virus.

Prevalence

3,893 persons are currently living with HIV/AIDS in Cuyahoga County. 2,799, or 72%, are Cleveland residents. This is determined from the last known address on record.

- Prevalence for Cleveland (633.6 per 100,000) is twice that of the county (303 per 100,000).
- AIDS in Cuyahoga County: 1,963 residents, or about 1.5% of the county population, are known to be living with AIDS.

Incidence

199 new diagnoses of HIV and HIV-with-AIDS for 2008 (Chart 1)

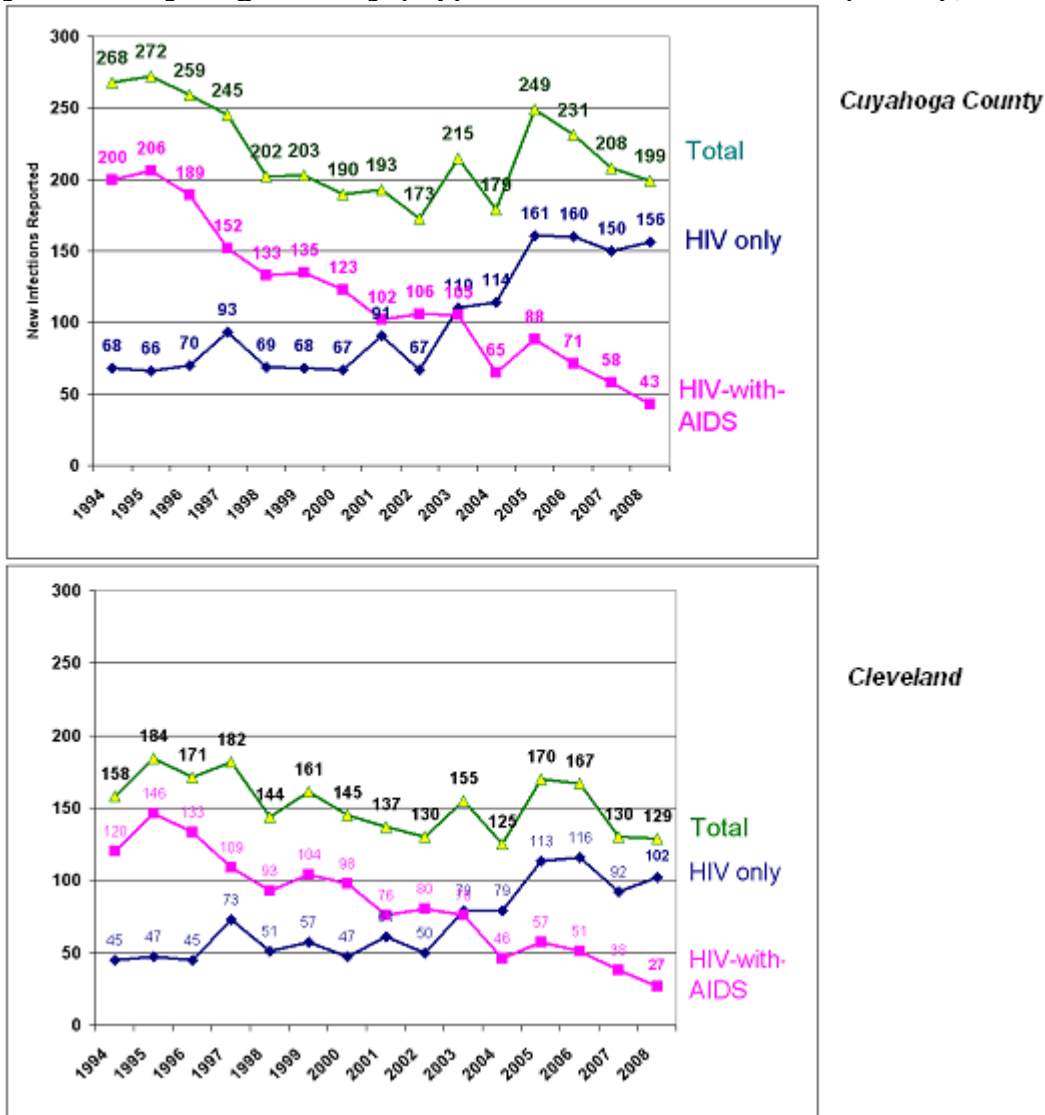
- Definition update: **HIV-with-AIDS** are those diagnosed with AIDS within 12 months of initial HIV-positive diagnosis. This replaces 'doorstep AIDS' used in past reports.
- 129 new HIV and HIV-with-AIDS diagnoses for Cleveland.
- Incident rates per 100,000 population per year
 - Cuyahoga Co. 15.4
 - Cleveland 29.4, nearly twice that of Cuyahoga County
 - Ohio (2007) 9.0
 - US (2006) 18.8
- Demographics are shown in **Table 1**.
- Risk exposure to HIV
 - Males: 62% sex with men, 8% bisexual, 26% heterosexual, 1% IDU, 2% unknown
 - Females: 88% heterosexual, 6% IDU, 2% bisexual, 4% unknown.
 - Injection drug use (IDU) reflects 7% of all incident cases since 2005.

Table 1: Demographics of incident cases diagnosed in 2008 for Cuyahoga County and selected municipalities

City of residence	N	Sex		Race/ethnicity				Age Group				
		M	F	BNH	WNH	Hispanic	Other	0-13	14-19	20-29	30-49	50+
Cuyahoga County	199	75%	25%	61%	31%	6%	1%	<1%	4%	26%	55%	15%
Cleveland	129	73%	27%	70%	20%	8%	2%	1%	5%	29%	49%	16%
Lakewood	14	86%	14%	29%	64%	0%	7%	0%	0%	22%	64%	14%
East Cleveland	11	45%	45%	82%	18%	0%	0%	0%	9%	9%	64%	18%
Remainder of county	45	82%	18%	42%	53%	4%	0%	0%	0%	20%	67%	13%

BNH=Black, non-Hispanic; WNH=White, non-Hispanic; Other=other race, non-Hispanic.

Chart 1: The number of incident HIV infections reported (HIV-only & HIV-with-AIDS) per year for Cuyahoga County (top) and Cleveland residents (below), 1994-2008



More on incidence: When comparing 2005-06 versus 2007-08 incidence, new cases decreased 23% for Cleveland increased 135% for East Cleveland and 300% for Shaker Heights. (Tables 2 & 3) In both cities, no one single group is responsible for the increases. Case counts increase among MSM males (i.e. men who have sex with men) and heterosexual males and females.

Table 2. Two-Year Incidence Counts of HIV/AIDS Cases for select municipalities for the periods 2005-2006 versus 2007-2008. (Bold red font indicates increase.)

Municipality	Period		Percent change
	2005-06	2007-08	
Cleveland	337	259	23% decrease
Cleveland Hts.	18	7	61% decrease
East Cleveland	8	19	138% increase
Lakewood	28	24	14% decrease
Shaker Hts.	3	12	300% increase
Remainder of Cuyahoga County	86	86	No change

Table 3. Two-Year Incidence Counts of HIV/AIDS Cases for Cleveland Neighborhoods for periods 2005-2006 versus 2007-2008. (Increases in 10 neighborhoods shown in bold.)

Neighborhood (SPA)	Period		Neighborhood (SPA)	Period	
	2005-06	2007-08		2005-06	2007-08
BROOKLYN-CENTER	10	6	LEE-MILES	9	7
BUCKEYE-SHAKER	8	2	MT PLEASANT	8	13
CENTRAL	8	13	N BROADWAY	5	1
CLARK-FULTON	10	5	N COLLINWOOD	10	9
CORLETT	8	11	OHIO CITY/NWS	13	8
CUDELL	9	4	OLD BROOKLYN	6	6
DETROIT-SHOREWAY	18	22	PURITAS-LONGMEAD	8	5
DOWNTOWN	25	14	RIVERSIDE	0	5
EDGEWATER	27	14	S BROADWAY	6	5
EUCLID-GREEN	3	2	S COLLINWOOD	4	7
FAIRFAX	6	5	ST CLAIR-SUPERIOR	8	5
FOREST HILLS	9	4	STOCKYARDS	3	2
GLENVILLE	22	17	TREMONT	4	7
GOODRICH-KIRTLAND PK	2	3	UNION-MILES	13	3
HOUGH	12	16	UNIVERSITY	2	1
INDUSTRIAL VALLEY	2	2	WEST BOULEVARD	9	8
JEFFERSON	9	5	WOODLAND HILLS	3	3
KAMMS CORNERS	8	3	CLEVE ADDRESS UNKNOWN	28	12
KINSMAN	2	4	All	337	259 (23% decrease)

Black males continue to be the predominant group among incident cases.

- 45% black males, 17% black females, 25% white males, 6% white females, 4% Hispanic males, 2% Hispanic females (**Chart 2**)
- 33% of black males are age 20-29, the largest proportion of all age groups. (**Chart 3**)

Chart 2: Trends in incident diagnoses by race/ethnicity/sex for Cuyahoga County

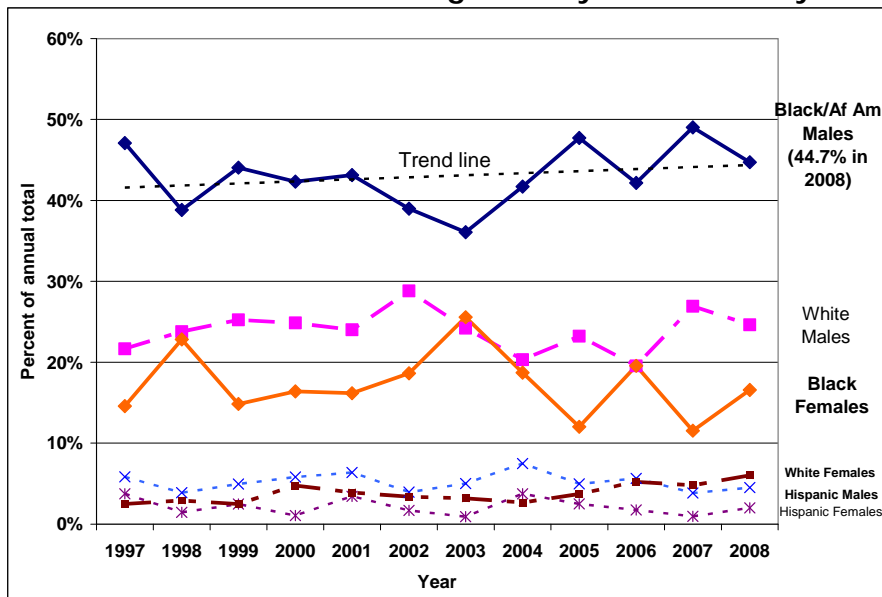
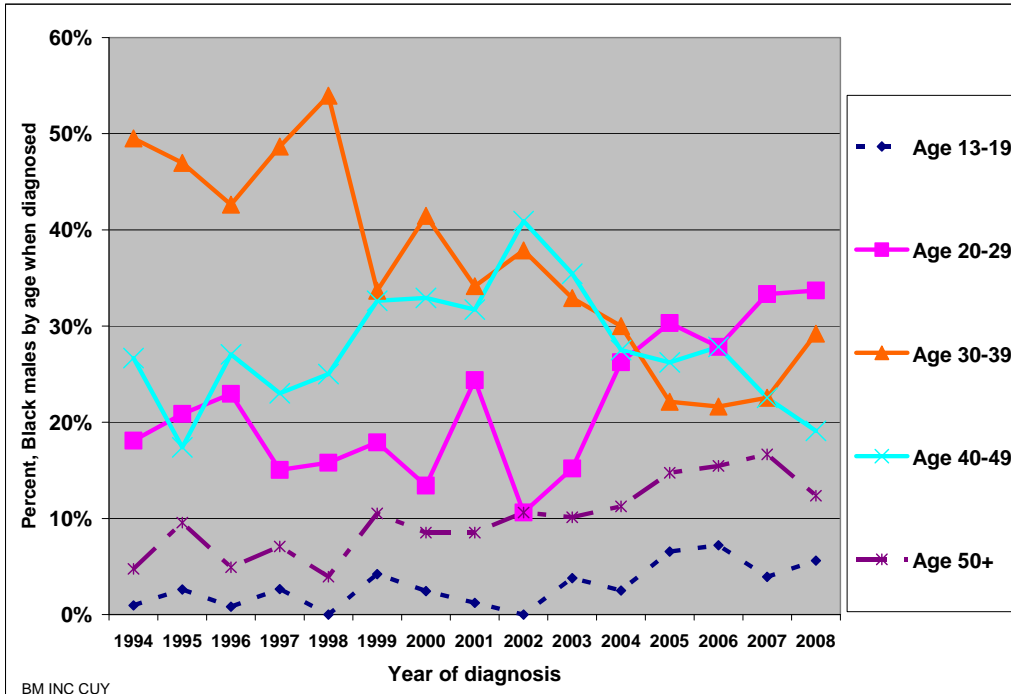


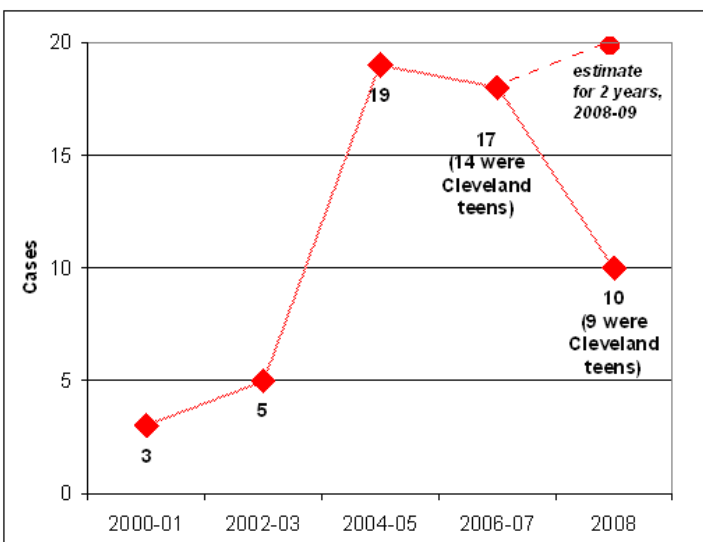
Chart 3: Age when initially diagnosed as HIV-positive (HIV or AIDS) among black males in Cuyahoga County, 1994-2008



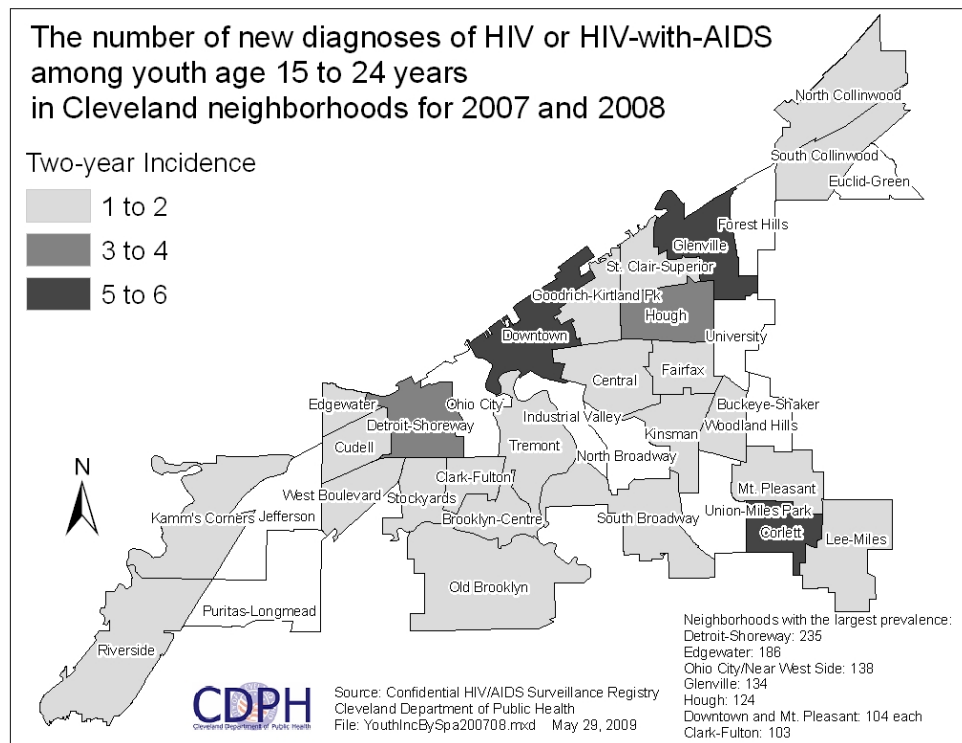
Youth: The trend of new HIV among youth continues. Nearly a third (30.2%, n= 34) of new cases were age 15 to 24 years when diagnosed.

- 26 of 34 (76%) were Cleveland residents.
- Ten teens were diagnosed with HIV in 2008; ages 16 to 19. (Chart 4)
 - Nine teens from Cleveland: 5 male (black, Hispanic), 4 female (black, white)
 - **Map 1** shows residence in Cleveland for 2007-2008 incident cases.
- MSM behavior is the predominant risk factor in exposure to HIV among male youth.

Chart 4. Incident HIV/AIDS Cases Among Teens 13-19y, age at time of diagnosis, for Cuyahoga County



Map 1: Two-year incidence among youth age 15 to 24 in Cleveland neighborhoods



Comments

The decrease in incident case counts for the past two years occurred in an environment of increased HIV testing at CDPH health clinics and some local agencies reporting HIV testing levels to the Ohio Department of Health.

CDPH encourages all sexually active persons to be tested for HIV and other sexually transmitted infections on a regular basis, regardless of age, sex, race/ethnicity and sexual orientation.

The CDPH Office of HIV/AIDS is working closely with the community through the Cuyahoga County Regional Advisory Group (RAG) to develop a comprehensive HIV prevention plan that is based on scientific evidence and community values. Current activities include development of a system-wide Needs Assessment report with assistance from the University of Akron and Kent State University. This report includes community input from HIV/AIDS service providers and current epidemiology to determine which populations are receiving services and better identify those in need of additional prevention support.

This report is available at www.clevelandhealth.info

All medical centers, clinical laboratories and agencies providing HIV testing, and those testing CD4 levels, are mandated by Ohio Administrative Code to report HIV and AIDS diagnoses to their local public health department. CDPH is the reporting agency for Cuyahoga County. All surveillance reports are provided to the HIV Surveillance Program, Ohio Department of Health.

Data provided in this report are derived from all reports received at CDPH as of May 19, 2009 and compiled into the CDPH Confidential HIV/AIDS Surveillance Registry. These data reflect a complete year of 2008 surveillance data, following audits of CDPH clinic surveillance and final 2008 data from reporting agencies. CDPH is responsible for the results presented. The Registry is maintained by the Office of Biostatistics, Cleveland Department of Public Health.