



# DuPage County Health Department R E V I E W

Volume 6, No. 12

December 2010

The purpose of this two-page surveillance update is to promote the control and prevention of communicable disease (CD) by providing clinically relevant information and resources to healthcare professionals in DuPage County.

## Under the Microscope HIV/AIDS

For questions or to report suspect or known cases of HIV/AIDS, please call the DuPage County Health Department at (630) 682-7979, ext. 7553.

World AIDS Day (December 1) draws attention to the human immunodeficiency virus/acquired immunodeficiency syndrome (HIV/AIDS) epidemic worldwide. In the U.S., approximately 56,000 persons become infected with HIV each year. The National HIV/AIDS Strategy calls for 1) educating all persons in the U.S. about the continued risk for HIV, 2) implementing intensive, combined HIV-prevention programs in communities with high HIV prevalence, 3) ensuring access to services, and 4) reducing HIV-related health disparities.<sup>1</sup> The World AIDS Day theme for 2010 is "Universal Access and Human Rights" and is about increasing awareness, fighting prejudice, improving education and stopping the spread of HIV.<sup>2</sup>

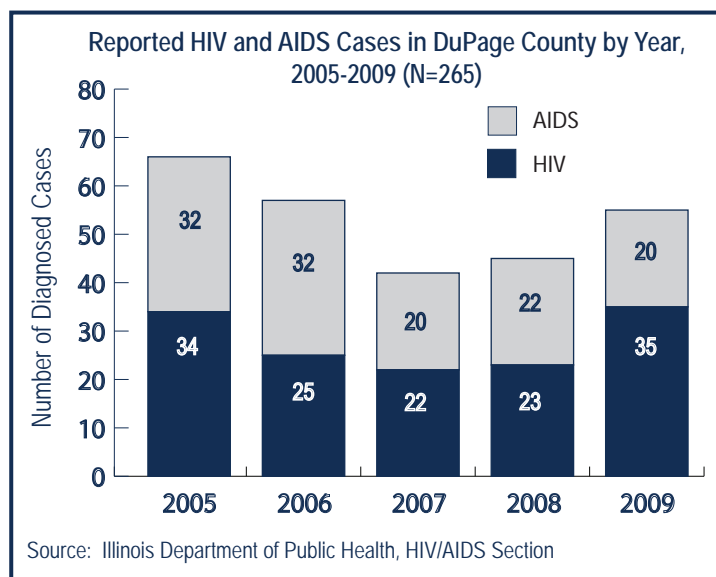
As of September 2010, there were 32,923 (15,163 HIV; 17,760 AIDS) people reported as living with HIV/AIDS in Illinois. The number of cases in Illinois is the eighth highest in the U.S. Youth, men who have sex with men (MSM) and African Americans are the most at risk populations for HIV (human immunodeficiency virus) in the state.<sup>2</sup>

In Illinois, men accounted for 76 percent of all new diagnoses of HIV/AIDS between 2000-2009. During that same time, MSM accounted for 71 percent of all infections among men who reported an HIV risk factor. Women accounted for 24 percent of all new diagnoses of HIV/AIDS in Illinois between 2000-2009. This percent has increased over the years. Of the 24 percent, high-risk heterosexual activity accounted for 65 percent of all infections among women for whom a risk factor was reported.<sup>2</sup>

African Americans accounted for 53 percent of all new diagnoses of HIV between 2000-2009, although they represent only 15 percent of the population in the state. The rate of HIV among African Americans in 2009 was 10 times higher than among Caucasians. Between 2000-2009, people ages 13-19 years at time of diagnosis accounted for four percent of new HIV/AIDS infections in Illinois. The number of new infections among teenagers continues to grow. According to the latest U.S. Centers for Disease Control and Prevention (CDC) Youth Risk Behavioral Survey, 47 percent of high school students reported having had sex and 7.4 percent reported sexual intercourse before age 13 years.<sup>2</sup>

HIV testing is critical to the fight against HIV. An estimated 1.1 million people are living with HIV in the U.S.<sup>3</sup> According to estimates by CDC, one in five persons living with HIV in the U.S. is unaware of his or her infection and may be unknowingly transmitting the virus to others. Since anyone can be at risk for HIV, CDC recommends that adults and adolescents between the ages of 13 and 64 years of age be routinely screened for HIV infection in healthcare settings.<sup>4</sup> Pregnant women in the U.S. should be screened for HIV infection as part of their routine prenatal testing.<sup>4</sup> With these CDC recommendations and the move toward HIV testing as a routine part of care, CPT® coding guidelines for routine HIV testing in healthcare settings have been developed for provider reimbursement.<sup>5</sup>

Once tested and HIV status is known, individuals can take steps to protect their health through risk reduction or, if infected, they can gain access to clinical care, and help prevent the spread of HIV to others. Earlier diagnosis of HIV infection will enable more persons to receive life-saving treatment, resulting in improved health and extended life. In addition, the majority of persons who learn they have HIV infection adopt safer behaviors, thereby reducing HIV transmission to others. Finally, making HIV testing a routine part of medical care might help reduce the stigma that some associate with an HIV test.<sup>6</sup>



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### General Information

Communicable Disease  
and Epidemiology  
(630) 682-7979, ext. 7553

Environmental Health  
(630) 682-7400

Immunizations  
(630) 682-7400

Sexually  
Transmitted Diseases  
(630) 682-7979, ext. 7553

HIV/AIDS  
(630) 682-7979, ext. 7553

Tuberculosis  
(630) 682-7979, ext. 7522

School Health  
(630) 682-7979, ext. 7300

Travel Clinic  
(630) 682-7400

Animal Care & Control  
(630) 407-2800

Please contact  
Communicable Disease  
and Epidemiology at  
(630) 682-7979, ext. 7553 or  
ebarajas@dupagehealth.org  
to send suggestions  
or to be added to the  
distribution list.

### References:

1. www.cdc.gov/mmwr/PDF/wk/mm5946.pdf
2. www.idph.state.il.us/public/press10/12.1.10WorldAIDSday.htm
3. www.cdc.gov/Features/WorldAIDSday/
4. www.cdc.gov/mmwr/pdf/rr/rr5514.pdf
5. www.ama-assn.org/ama1/pub/upload/mm/36/hiv\_cpt\_guidance.pdf
6. www.cdc.gov/hiv/topics/testing/resources/qa/qa\_professional.htm

DUPAGE COUNTY HEALTH DEPARTMENT

CASES<sup>1</sup> OF REPORTABLE DISEASES\*

\* Last updated by the Illinois Department of Public Health in March 2008

CD REVIEW

Volume 6, No. 12 December 2010

Vaccine Preventable Diseases	Report Within	2010		2009		2008		2007		2006		Median	
		Nov	Jan - Nov	Jan - Nov	Total	Jan - Nov	Total	Jan - Nov	Total	Jan - Nov	Total	Jan - Nov	Total ('06-'09)
Chickenpox (varicella)	24 hrs	5	88	138	146	206	236	157	177	230	252	157	206.5
Diphtheria	24 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Haemophilus influenzae, invasive	24 hrs	1	6	9	11	5	6	5	5	7	7	6	6.5
Hepatitis A	24 hrs	1	6	14	14	15	16	23	26	10	12	14	15
Hepatitis B	7 days	0	3	7	8	4	4	8	9	3	4	4	6
Hepatitis B (carriers)	7 days	8	91	114	129	113	128	155	168	148	159	114	144
Influenza, deaths in < 18 yrs old	7 days	0	0	1	1	0	0	NR	NR	NR	NR	0	0.5
Measles (rubeola)	24 hrs	0	0	1	1	15	15	0	0	0	0	0	0.5
Mumps	24 hrs	1	1	2	2	2	2	13	13	123	130	2	7.5
Neisseria meningitidis, invasive	24 hrs	0	1	5	6	4	4	1	1	2	2	2	3
Pertussis (whooping cough)	24 hrs	22	65	23	26	8	13	9	9	23	26	23	19.5
Poliomyelitis	24 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Rubella	24 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Streptococcus pneumoniae, invasive disease, in those < 5 yrs old	7 days	1	7	8	8	4	6	8	10	7	8	7	8
Tetanus	7 days	0	0	0	0	0	0	0	0	0	0	0	0
<b>Other Communicable Diseases</b>													
Anaplasmosis <sup>2</sup>	7 days	0	0	0	0	0	0	NR	NR	NR	NR	0	0
Anthrax	3 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Botulism, foodborne	3 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Botulism, other	24 hrs	0	0	0	0	0	0	1	1	0	0	0	0
Brucellosis	3 hrs	0	0	0	0	0	0	0	0	0	0	0	0
California encephalitis <sup>3</sup>	7 days	0	0	0	0	0	0	NR	NR	NR	NR	0	0
Cholera	24 hrs	0	0	0	0	1	1	0	0	0	0	0	0
Creutzfeldt-Jakob disease	7 days	0	0	0	0	0	0	NR	NR	1	1	0	0
Cryptosporidiosis	7 days	0	5	4	5	2	2	4	5	9	9	4	5
Cyclosporiasis	7 days	0	0	1	1	0	0	0	0	0	0	0	0
Dengue fever <sup>3</sup>	7 days	0	3	4	4	0	0	1	1	2	2	2	1.5
Ehrlichiosis <sup>2</sup>	7 days	0	0	0	0	0	0	1	1	2	2	0	0.5
Enteric E. coli infections <sup>4</sup>	24 hrs	3	20	11	12	21	21	7	7	8	8	11	10
Giardiasis	7 days	2	44	38	42	55	57	68	68	44	47	44	52
Glomerulonephritis <sup>5</sup>	24 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Hantavirus pulmonary syndrome	24 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Hemolytic uremic syndrome	24 hrs	0	0	0	0	1	1	0	0	0	0	0	0
Hepatitis C (cases & carriers)	7 days	6	175	224	238	243	261	285	301	248	272	243	266.5
Hepatitis D	7 days	0	0	0	0	0	0	NR	NR	NR	NR	0	0
Histoplasmosis	7 days	0	2	2	2	6	6	4	6	1	1	2	4
Influenza A, novel virus	3 hrs	0	11	172	181	0	0	NR	NR	NR	NR	11	90.5
Legionellosis	7 days	1	11	13	13	5	5	12	13	8	9	11	11
Leprosy	7 days	0	0	1	1	0	0	0	0	1	1	0	0.5
Leptospirosis	7 days	0	1	0	0	0	0	1	1	0	0	0	0
Listeriosis	7 days	1	6	3	3	1	1	1	1	5	6	3	2
Lyme disease <sup>2</sup>	7 days	0	18	18	18	16	17	16	16	10	10	16	16.5
Malaria	7 days	0	4	4	4	5	5	7	7	5	6	5	5.5
Ophthalmia neonatorum	7 days	0	0	0	0	0	0	0	0	0	0	0	0
Plague	3 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Psittacosis	7 days	0	0	0	0	0	0	0	0	0	0	0	0
Q fever <sup>6</sup>	3 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Rabies, human case	24 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Rabies, potential exposure	24 hrs	0	54	15	15	46	46	51	52	28	28	46	37
Reye syndrome	7 days	0	0	0	0	0	0	0	0	0	0	0	0
Rheumatic fever <sup>7</sup>	24 hrs	0	0	0	0	0	0	0	0	1	1	0	0
Rocky Mountain spotted fever <sup>2</sup>	7 days	0	0	0	0	0	0	0	0	1	1	0	0
Salmonellosis	7 days	8	134	83	90	105	108	132	140	96	103	105	105.5
Severe Acute Respiratory Syndrome	3 hrs	0	0	0	0	0	0	NR	NR	NR	NR	0	0
Shigellosis	7 days	0	269	13	13	28	28	18	18	26	27	26	22.5
Smallpox	3 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Smallpox vaccination, complications	24 hrs	0	0	0	0	0	0	NR	NR	NR	NR	0	0
St. Louis encephalitis <sup>3</sup>	7 days	0	0	0	0	0	0	NR	NR	NR	NR	0	0
Staphylococcus aureus, methicillin resistant (MRSA), in those < 61 days old	24 hrs	0	6	6	6	1	3	NR	NR	NR	NR	6	4.5
Staphylococcus aureus, methicillin resistant (MRSA), community cluster <sup>7</sup>	24 hrs	0	1	1	1	3	4	NR	NR	NR	NR	1	2.5
Staphylococcus aureus (vancomycin-resistant)	24 hrs	0	1	0	0	0	0	1	1	0	0	0	0
Streptococcal infections, group A invasive disease <sup>8</sup>	24 hrs	2	17	14	14	13	16	11	11	18	18	14	15
Toxic shock syndrome <sup>8</sup>	7 days	0	0	0	0	1	1	2	2	1	1	1	1
Trichinosis	7 days	0	0	0	0	0	0	0	0	0	0	0	0
Tuberculosis	7 days	1	22	23	29	42	43	27	27	39	44	27	36
Tularemia	3 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Typhoid fever	24 hrs	0	3	5	5	3	3	7	7	2	2	3	4
Typhus	24 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Vibriosis (non-cholera)	7 days	0	1	2	2	0	0	1	1	1	2	1	1.5
West Nile disease <sup>3</sup>	7 days	0	17	0	0	1	1	10	10	43	43	10	5.5
Yersiniosis	7 days	0	0	5	5	1	1	1	1	0	0	1	1
<b>STDs, HIV and AIDS</b>													
AIDS <sup>10</sup> (January - September)	7 days	--	18	20	20	14	22	17	20	24	32	18	21
Chancroid	7 days	0	0	0	0	0	0	0	0	0	0	0	0
Chlamydia	7 days	65	1236	1445	1555	1459	1587	1311	1522	1263	1346	1311	1538.5
Gonorrhea	7 days	10	189	209	225	247	268	209	251	180	192	209	238
HIV infection <sup>10</sup> (January - September)	7 days	--	25	26	35	16	23	15	22	20	25	20	24
Syphilis	7 days	0	20	29	33	14	18	15	18	23	24	20	21

DuPage County healthcare providers and hospitals **must report any suspected or confirmed case of these diseases** to the local health authorities within the number of hours or days indicated.

**REPORTING NUMBERS:**

**Communicable Diseases**  
(630) 682-7979, ext. 7553  
24 hours: (630) 682-7400

**Tuberculosis**  
(630) 682-7979, ext. 7522

**STDs**  
(630) 682-7979, ext. 7553

**HIV/AIDS:**  
(630) 682-7979, ext. 7553

- <sup>1</sup> Provisional cases, based on date of onset
  - <sup>2</sup> Listed in CD Rules and Regulations under "Tickborne Disease"
  - <sup>3</sup> Listed in CD Rules and Regulations under "Arboviral Infections"
  - <sup>4</sup> O157:H7, STEC, EIEC, ETEC, EPEC
  - <sup>5</sup> Listed in CD Rules and Regulations under "Streptococcal infections, group A invasive disease sequelae"
  - <sup>6</sup> Q fever case in 2004 not related to any suspected bioterrorism threat or event
  - <sup>7</sup> Two or more laboratory-confirmed cases of community onset MRSA infection during a 14 day period
  - <sup>8</sup> Includes streptococcal toxic shock syndrome and necrotizing fasciitis
  - <sup>9</sup> Due to *Staphylococcus aureus*
  - <sup>10</sup> HIV/AIDS data are provided quarterly by IDPH and are provisional, based on date of diagnosis
- NR = Not reported  
\*\* = Count of 5 cases or less

**Websites**

**CDC:**  
[www.cdc.gov](http://www.cdc.gov)

**IDPH:**  
[www.idph.state.il.us](http://www.idph.state.il.us)

**DuPage:**  
[www.dupagehealth.org](http://www.dupagehealth.org)

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