



DuPage County Health Department R E V I E W

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General Information

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Environmental Health
(630) 682-7400

Immunizations
(630) 682-7400

Sexually
Transmitted Diseases
(630) 221-7553

HIV/AIDS
(630) 221-7553

Tuberculosis
(630) 221-7522

School Health
(630) 221-7300

Travel Clinic
(630) 682-7400

Animal Care & Control
(630) 407-2800

Please contact
Communicable Disease
and Epidemiology at
(630) 221-7553
with suggestions
or to be added to the
distribution list.

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) 221-7553.

World AIDS Day (December 1) draws attention to the current status of the human immunodeficiency virus/acquired immunodeficiency syndrome (HIV/AIDS) epidemic worldwide. The theme for this year's December 1 observance is "Focus, Partner, Achieve: An AIDS-Free Generation."¹

The first cases of AIDS were reported more than 30 years ago in June 1981. Globally, an estimated 35 million persons are currently living with HIV infection. Although AIDS-related deaths have fallen by 35% since 2005, an estimated 1.5 million persons died from AIDS in 2013.¹

Global efforts have resulted in approximately 11.7 million persons in low-income and middle-income countries receiving antiretroviral therapy for HIV infection in 2013. This is nearly 2 million more persons than in 2012.¹

Infection with HIV, if untreated, leads to AIDS and premature death. However, a continuum of services including HIV testing, HIV medical care, and antiretroviral therapy (ART) can lead to viral suppression, improved health and survival of persons infected with HIV, and prevention of HIV transmission.²

According to Centers for Disease Control and Prevention (CDC) surveillance data, in 2011, an estimated 1.2 million persons were living with HIV infection in the United States; an estimated 86% were diagnosed with HIV, 40% were engaged in HIV medical care, 37% were prescribed ART, and 30% achieved viral suppression. The prevalence of viral suppression was significantly lower among persons aged 18–24 years (13%), 25–34 years (23%), and 35–44 years (27%) compared with those aged ≥65 years (37%).²

Improvements are needed across the HIV care continuum to protect the health of persons living with HIV, reduce HIV transmission, and reach prevention and care goals. Health care providers and community partners play essential roles in improving outcomes on the HIV care continuum that increase survival among persons living with HIV and prevent new HIV infections. The greatest opportunities for increasing the percentage of persons with a suppressed viral load are reducing undiagnosed HIV infections and increasing the percentage of persons living with HIV who are engaged in care.²

HIV Testing: Since 2006, CDC has recommended that adults and adolescents between the ages of 13 and 64 years of age get tested for HIV infection in healthcare settings at least once in their lifetimes. CDC also recommends that those with risk factors get tested more frequently. Persons likely to be at high risk include:

- injection-drug users and their sex partners,
- persons who exchange sex for money or drugs,
- sex partners of HIV-infected persons, and
- men who have sex with men (MSM) or heterosexual persons who themselves or whose sex partners have had more than one sex partner since their most recent HIV test.³

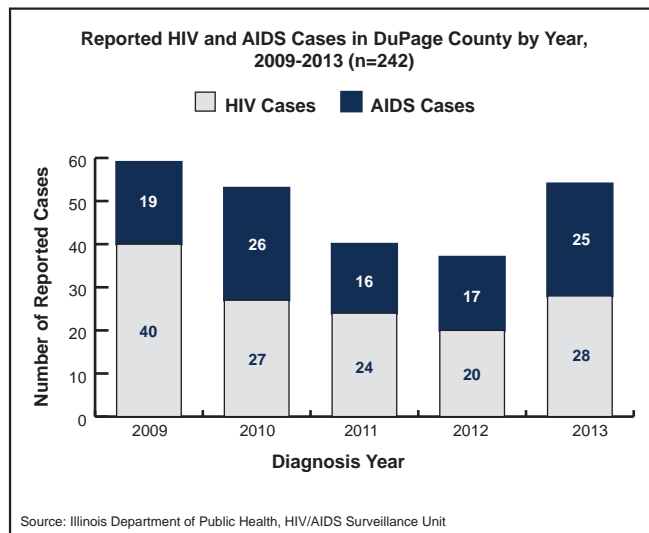
A general rule for those with risk factors is to get tested at least annually. Additionally, CDC has recently reported that gay and bisexual men may benefit from getting an HIV test more often, perhaps every 3-6 months. Pregnant women in the U.S. should be screened for HIV infection as part of their routine prenatal testing.^{3,4}

In June 2014, CDC published updated recommendations with a new approach for HIV testing in laboratories that capitalizes on the latest technology to improve diagnosis of acute infection, the earliest stage of HIV infection when people are most likely to transmit the virus.⁵ Laboratories should conduct initial testing for HIV with an FDA-approved antigen/antibody combination (4th generation) immunoassay, which can diagnose people several weeks earlier than before.^{5,6} CDC is supporting laboratories to adopt this new approach as quickly as possible.⁵

Prevention: In addition to limiting the number of sexual partners, never sharing needles, and using condoms correctly and consistently, CDC also encourages people who are at high risk but do not have HIV to be aware of new approaches to HIV prevention, such as pre-exposure prophylaxis (PrEP), and post-exposure prophylaxis (PEP).^{7,8}

References:

1. www.cdc.gov/mmwr/pdf/wk/mm6347.pdf
2. www.cdc.gov/mmwr/preview/mmwrhtml/mm6347a5.htm?s_cid=mm6347a5_w
3. www.cdc.gov/mmwr/pdf/rr/r514.pdf
4. www.cdc.gov/hiv/testing/clinical/index.html
5. www.cdc.gov/nchstp/newsroom/2014/NHTD-2014-Statement.html
6. www.cdc.gov/hiv/pdf/HIVTestingAlgorithmRecommendation-Final.pdf
7. www.cdc.gov/hiv/basics/prevention.html
8. www.cdc.gov/features/worldaidsday/



DUPAGE COUNTY HEALTH DEPARTMENT

CASES¹ OF REPORTABLE DISEASES*

* Last updated by the Illinois Department of Public Health in February 2014

CD REVIEW

Volume 10, No. 12 December 2014

Vaccine Preventable Diseases	Report Within	2014		2013		2012		2011		2010		Median	
		Nov	Jan-Nov	Jan-Nov	Total	Jan-Nov	Total	Jan-Nov	Total	Jan-Nov	Total	Jan-Nov	Total ('10-'13)
Chickenpox (varicella)	24 hrs	8	70	72	78	92	93	69	82	87	95	72	87.5
Diphtheria	3 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Haemophilus influenzae, invasive	24 hrs	0	3	9	10	9	11	14	15	7	7	9	10.5
Hepatitis A	24 hrs	0	8	4	4	7	8	6	8	3	3	6	6
Hepatitis B	7 days	1	4	3	3	4	5	1	1	4	4	4	3.5
Hepatitis B (carriers)	7 days	13	99	106	110	91	101	105	113	103	108	103	109
Influenza, deaths in < 18 yrs old	7 days	0	0	1	1	0	0	0	0	0	0	0	0
Influenza ICU admissions	24 hrs	19	64	57	78	13	64	24	24	0	3	24	44
Measles (rubeola)	24 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Mumps	24 hrs	0	1	0	0	1	1	2	3	1	2	1	1.5
Neisseria meningitidis, invasive	24 hrs	0	0	0	0	0	0	2	2	1	1	0	0.5
Pertussis (whooping cough)	24 hrs	1	20	41	43	192	195	231	268	75	92	75	143.5
Polio	3 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	0	3	4	4	5	5	13	13	7	8	5	6.5
Tetanus	7 days	0	0	0	0	0	0	0	0	0	0	0	0
Other Communicable Diseases													
Anaplasmosis ²	7 days	0	2	0	0	2	2	3	3	0	0	2	1
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	0	0	0	0	0	0
Brucellosis	3 hrs	0	0	0	0	0	0	0	0	0	0	0	0
California encephalitis ³	7 days	0	0	0	0	0	0	0	0	0	0	0	0
Chikungunya fever ³	7 days	0	0	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Cholera	24 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Creutzfeldt-Jakob disease	7 days	0	2	0	0	1	1	2	3	1	1	1	1
Cryptosporidiosis	7 days	0	2	6	7	2	2	5	5	5	5	5	5
Cyclosporiasis	7 days	0	0	4	4	0	0	0	0	0	0	0	0
Dengue fever ³	7 days	0	1	3	3	1	1	1	1	4	4	1	2
Ehrlichiosis ²	7 days	0	0	0	0	0	0	0	0	0	0	0	0
Enteric E. coli infections ⁴	24 hrs	0	16	53	54	19	19	21	22	19	19	19	20.5
Glomerulonephritis ⁵	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	2	0	0	1	1	1	1	0	0	1	0.5
Hepatitis C (cases & carriers)	7 days	18	219	161	182	170	171	175	189	175	187	175	184.5
Hepatitis D	7 days	0	0	0	0	0	0	1	1	0	0	0	0
Histoplasmosis	7 days	0	6	0	1	2	2	1	1	2	2	2	1.5
Influenza A, novel virus	3 hrs	0	0	0	0	0	0	0	0	11	11	0	0
Legionellosis	7 days	1	25	38	39	24	25	11	14	11	11	24	19.5
Leprosy	7 days	0	0	0	0	0	0	0	0	0	0	0	0
Leptospirosis	7 days	0	0	0	0	0	0	0	0	0	0	0	0
Listeriosis	7 days	0	2	2	2	2	2	2	2	6	6	2	2
Lyme disease ²	7 days	0	20	39	39	27	27	32	32	19	19	27	29.5
Malaria	7 days	0	1	7	7	2	2	7	7	4	4	4	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	3 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Rabies, animal case	24 hrs	0	6	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Rabies, human case	24 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Rabies, potential exposure	24 hrs	0	51	44	44	43	43	30	30	54	54	44	43.5
Reye syndrome	7 days	0	0	0	0	0	0	0	0	0	0	0	0
Rheumatic fever ⁵	24 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Rocky Mountain spotted fever ²	7 days	0	0	0	0	1	1	0	0	0	0	0	0
Salmonellosis	7 days	10	103	123	128	120	123	89	95	129	136	120	125.5
Severe Acute Respiratory Syndrome	3 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Shigellosis	7 days	1	17	18	18	20	20	20	22	270	277	20	21
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	0	0	0	0	0	0
St. Louis encephalitis ³	7 days	0	0	0	0	0	0	0	0	0	0	0	0
Staphylococcus aureus, methicillin resistant (MRSA), in those < 61 days old	24 hrs	1	7	3	3	7	7	3	3	6	6	6	4.5
Staphylococcus aureus, methicillin resistant (MRSA), community cluster ⁶	24 hrs	0	0	0	0	1	1	0	0	1	1	0	0.5
Staphylococcus aureus (vancomycin-resistant)	24 hrs	0	0	0	0	0	0	1	1	1	1	0	0.5
Streptococcal infections, group A invasive disease ⁷	24 hrs	1	27	21	21	18	20	28	30	16	20	21	20.5
Toxic shock syndrome ⁸	7 days	0	0	1	1	0	0	1	1	0	0	0	0.5
Trichinosis	7 days	0	0	0	0	0	0	0	0	0	0	0	0
Tuberculosis	7 days	4	25	30	35	21	26	15	18	22	26	22	26
Tularemia	3 hrs	0	0	0	0	1	1	0	0	0	0	0	0
Typhoid fever	24 hrs	0	4	2	2	2	2	3	3	3	3	3	2.5
Typhus	24 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Vibriosis (non-cholera)	7 days	0	3	2	2	4	4	3	3	1	1	3	2.5
West Nile disease ³	7 days	0	5	6	6	56	56	2	2	17	17	6	11.5
Yersiniosis	7 days	0	2	2	2	3	3	2	3	0	0	2	2.5
STDs, HIV and AIDS													
AIDS ⁹ (October-December)	7 days	--	14	25	25	17	17	16	16	26	26	4.5	21
Chancroid	7 days	0	0	0	0	0	0	0	0	0	0	0	0
Chlamydia	7 days	87	1631	1740	1883	1724	1861	1476	1599	1419	1542	1631	1730
Gonorrhea	7 days	11	174	240	258	220	239	222	241	203	223	220	240
HIV infection ⁹ (October-December)	7 days	--	18	28	28	20	20	24	24	27	27	8.5	25.5
Syphilis ¹⁰	7 days	1	31	31	34	15	19	24	24	24	25	24	24.5

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) 221-7553

24 hours: (630) 682-7400

Tuberculosis

(630) 221-7522

STDs

(630) 221-7553

HIV/AIDS:

(630) 221-7553

¹ Provisional cases, based on date of onset

² Listed in CD Rules and Regulations under "Tickborne Disease"

³ Listed in CD Rules and Regulations under "Arboviral Infections"

⁴ O157:H7, STEC, EIEC, ETEC, EPEC

⁵ Listed in CD Rules and Regulations under "Streptococcal infections, group A invasive disease sequelae"

⁶ Two or more laboratory-confirmed cases of community onset MRSA infection during a 14 day period

⁷ Includes streptococcal toxic shock syndrome and necrotizing fasciitis

⁸ Due to *Staphylococcus aureus*

⁹ HIV/AIDS data are provided quarterly by IDPH and are provisional, based on date of diagnosis.

¹⁰ Cases are provisional based on test date per local health department investigation.

NR = Not reported

** = Count of 5 cases or less

Websites

CDC:

www.cdc.gov

IDPH:

www.idph.state.il.us

DuPage:

www.dupagehealth.org

Archived issues of *CD Review* are available at:

www.dupagehealth.org/publications