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### General Information

Communicable Disease  
and Epidemiology  
(630) 221-7553

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 Services  
(630) 407-2800

Please contact  
Communicable Disease  
and Epidemiology at  
(630) 221-7553  
with suggestions  
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**, observed each year on **December 1**, draws attention to the status of the human immunodeficiency virus/acquired immunodeficiency syndrome (HIV/AIDS) epidemic worldwide.<sup>1</sup> The federal theme for the 2018 observance is **Saving Lives through Leadership and Partnerships**. Everyone can show leadership by having data-driven conversations on the most effective ways to **close testing and treatment gaps**. These discussions can lead to new partnerships and innovations that save lives, and this type of leadership is essential to achieving national HIV prevention goals. People with HIV who **take HIV medicine as prescribed and get and keep an undetectable viral load** have **effectively no risk of transmitting HIV to their HIV-negative sexual partners**.<sup>2</sup>

The first cases of AIDS were reported in 1981. Today, approximately **36.9 million persons worldwide are living with HIV infection**, including **1.8 million persons newly infected during 2017**. An estimated **940,000 persons worldwide died from AIDS-related illnesses in 2017**. In 2015, an estimated **1.1 million persons in the U.S. were living with HIV infection**, and **86% were aware of their infection**.<sup>1</sup>

The **goals of HIV prevention, care, and treatment in the U.S. are to prevent new HIV infections**, increase the proportion of persons with HIV who are **aware of their infection, prevent HIV-related illness and death, and reduce HIV-related health disparities**.<sup>3</sup> Current CDC guidelines and recommendations on HIV prevention and care are available here: [www.cdc.gov/hiv/guidelines/index.html](http://www.cdc.gov/hiv/guidelines/index.html).

**HIV Testing:** CDC recommends that **everyone between the ages of 13 and 64 years get tested for HIV at least once** as part of routine health care. For those with specific **risk factors**, CDC recommends getting **tested once a year**. Persons likely to be at **high risk include:**

- injection-drug users and their **sex partners**,
- persons who **exchange sex for money or drugs**,
- persons diagnosed with **viral hepatitis or tuberculosis (TB)**,
- persons diagnosed with or who sought treatment for **another sexually transmitted disease**,
- **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**.<sup>4,5</sup>

Additionally, CDC has recently reported that **gay and bisexual men may benefit from getting an HIV test more often, perhaps every 3-6 months**.<sup>5,6</sup> Pregnant women in the U.S. should be screened for HIV infection as part of their **routine prenatal testing**.<sup>4,5</sup>

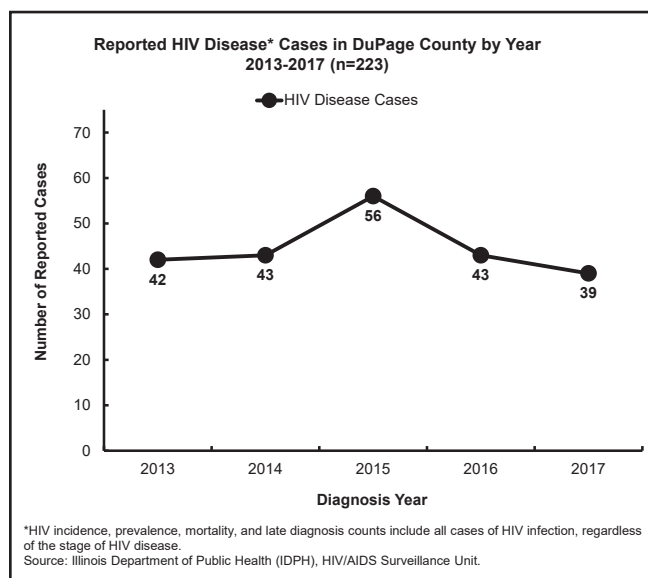
Among persons with HIV infection diagnosed in 2015 in the U.S., the estimated **median interval from infection to diagnosis was 3 years**. Prior year testing increased over time among groups at high risk for HIV infection. However, **29% of MSM, 42% of persons who inject drugs, and 59% of heterosexual persons at increased risk did not report testing in the past 12 months**. Continued efforts to **ensure routine and targeted testing** can help reduce the number of persons who are unaware of their infection, diagnosis delays, missed opportunities for care and treatment, and HIV transmission.<sup>7</sup>

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. 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 previous tests**.<sup>8</sup>

**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)**.<sup>9,10</sup> Clinical organizations, health departments, and community-based organizations should raise awareness of PrEP among persons with substantial risk for acquiring HIV infection and their health care providers. **Increasing delivery of PrEP and other highly effective HIV prevention services could lower the number of new HIV infections occurring in the U.S. each year**.<sup>11</sup>

### References:

1. [www.cdc.gov/mmwr/volumes/67/wr/pdfs/mm6747-H.pdf](http://www.cdc.gov/mmwr/volumes/67/wr/pdfs/mm6747-H.pdf)
2. [www.cdc.gov/features/worldaidsday/index.html](http://www.cdc.gov/features/worldaidsday/index.html)
3. [www.cdc.gov/hiv/guidelines/recommendations/personswithhiv.html](http://www.cdc.gov/hiv/guidelines/recommendations/personswithhiv.html)
4. [www.cdc.gov/hiv/testing/index.html](http://www.cdc.gov/hiv/testing/index.html)
5. [www.cdc.gov/hiv/testing/clinical/index.html](http://www.cdc.gov/hiv/testing/clinical/index.html)
6. [www.cdc.gov/mmwr/volumes/66/wr/mm6631a3.htm](http://www.cdc.gov/mmwr/volumes/66/wr/mm6631a3.htm)
7. [www.cdc.gov/mmwr/volumes/66/wr/mm6647e1.htm?s\\_cid=mm6647e1\\_w](http://www.cdc.gov/mmwr/volumes/66/wr/mm6647e1.htm?s_cid=mm6647e1_w)
8. [www.cdc.gov/hiv/guidelines/testing.html](http://www.cdc.gov/hiv/guidelines/testing.html)
9. [www.cdc.gov/hiv/basics/prevention.html](http://www.cdc.gov/hiv/basics/prevention.html)
10. [www.cdc.gov/hiv/guidelines/preventing.html](http://www.cdc.gov/hiv/guidelines/preventing.html)
11. [www.cdc.gov/vitalsigns/hivprep/index.html](http://www.cdc.gov/vitalsigns/hivprep/index.html)



DUPAGE COUNTY HEALTH DEPARTMENT

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

\* Last updated by the Illinois Department of Public Health in April 2016

CD REVIEW

Volume 14, No. 12 December 2018

Vaccine Preventable Diseases	Report Within	2018		2017		2016		2015		2014		Median	
		Nov	Jan-Nov	Jan-Nov	Total	Jan-Nov	Total	Jan-Nov	Total	Jan-Nov	Total	Jan-Nov	Total ('14-'17)
Chickenpox (varicella)	24 hrs	0	34	27	35	54	56	31	36	71	76	34	46
Diphtheria	3 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Haemophilus influenzae, invasive	24 hrs	1	16	8	9	10	13	14	15	4	5	10	11
Hepatitis A	24 hrs	1	6	2	3	2	2	5	5	8	8	5	4
Hepatitis B (acute, chronic, perinatal)	7 days	9	89	93	100	106	124	125	139	107	117	106	120.5
Influenza, deaths in < 18 yrs old	7 days	0	0	0	0	0	0	0	0	0	0	0	0
Influenza, ICU admissions	24 hrs	1	114	77	121	65	69	41	43	69	152	69	95
Measles (rubeola)	24 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Mumps	24 hrs	0	11	8	8	10	11	6	8	2	2	8	8
Neisseria meningitidis, invasive	24 hrs	0	0	0	0	1	1	1	1	0	0	0	0.5
Pertussis (whooping cough)	24 hrs	6	28	32	36	96	105	35	49	20	22	32	42.5
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	1	1	2	2	0	0	3	3	2	1.5
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	1	1	1	1	3	3	3	3	1	2
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 <sup>3</sup>	7 days	0	0	0	0	0	0	0	0	0	0	0	0
Campylobacteriosis	7 days	20	153	157	161	166	173	NR	NR	NR	NR	157	167
Chikungunya virus disease <sup>3</sup>	7 days	1	2	0	0	3	4	2	2	0	0	2	1
Cholera	24 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Creutzfeldt-Jakob disease	7 days	0	0	2	2	3	3	1	1	2	2	2	2
Cryptosporidiosis	7 days	1	31	18	18	17	18	4	5	2	2	17	11.5
Cyclosporiasis	7 days	0	141	7	7	4	5	1	1	0	1	4	3
Dengue fever <sup>4</sup>	7 days	0	2	1	1	2	3	3	3	1	1	2	2
Ehrlichiosis <sup>2</sup>	7 days	0	0	0	0	2	2	1	1	0	0	0	0.5
Enteric E. coli infections <sup>4</sup>	24 hrs	0	37	22	23	24	24	13	14	18	18	22	20.5
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	0	0	0	0	2	2	0	0
Hepatitis C (acute, chronic, perinatal)	7 days	17	175	267	294	237	255	223	237	226	242	226	248.5
Hepatitis D	7 days	0	0	0	0	0	0	0	0	0	0	0	0
Histoplasmosis	7 days	0	5	9	9	8	8	3	3	6	7	6	7.5
Influenza A, novel virus	3 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Legionellosis	7 days	0	35	27	28	30	34	17	18	25	26	27	27
Leprosy	7 days	0	0	0	0	0	0	0	0	0	0	0	0
Leptospirosis	7 days	0	0	1	1	0	0	0	0	0	0	0	0
Listeriosis	7 days	0	0	4	4	0	0	2	2	2	2	2	2
Lyme disease <sup>2</sup>	7 days	0	27	35	36	33	34	30	30	21	22	30	32
Malaria	7 days	0	4	2	3	10	10	4	4	2	2	4	3.5
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	8	12	12	10	10	16	16	6	6	10	11
Rabies, human case	24 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Rabies, potential exposure	24 hrs	8	159	78	84	55	59	70	73	51	51	70	66
Reye syndrome	7 days	0	0	0	0	0	0	0	0	0	0	0	0
Rheumatic fever <sup>5</sup>	24 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Rocky Mountain spotted fever <sup>2</sup>	7 days	0	2	1	1	3	3	0	0	0	0	1	0.5
Salmonellosis	7 days	7	115	100	105	116	119	126	133	103	115	115	117
Severe Acute Respiratory Syndrome	3 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Shigellosis	7 days	3	9	14	14	20	21	22	27	17	18	17	19.5
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	0	0	0	0	0	0
St. Louis encephalitis <sup>3</sup>	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	2	10	3	3	10	11	8	10	7	9	8	9.5
Staphylococcus aureus, methicillin resistant (MRSA), community cluster <sup>6</sup>	24 hrs	0	0	1	1	1	1	0	0	0	0	0	0.5
Staphylococcus aureus (vancomycin-resistant)	24 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Streptococcal infections, group A invasive disease <sup>7</sup>	24 hrs	2	29	22	24	17	18	20	22	27	29	22	23
Toxic shock syndrome <sup>8</sup>	7 days	0	1	0	0	0	0	0	0	0	0	0	0
Trichinosis	7 days	0	0	0	0	0	0	0	0	0	0	0	0
Tuberculosis	7 days	9	45	30	43	35	42	25	39	26	34	30	40.5
Tularemia	3 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Typhoid fever	24 hrs	0	3	3	4	0	0	2	3	4	5	3	3.5
Typhus	24 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Vibriosis (non-cholera)	7 days	1	14	6	6	6	6	4	4	3	3	6	5
West Nile virus disease <sup>3</sup>	7 days	0	18	6	6	10	10	9	9	5	5	9	7.5
Yersiniosis	7 days	0	2	1	1	3	4	1	1	3	3	2	2
Zika virus disease <sup>3</sup>	7 days	0	1	1	1	11	11	NR	NR	NR	NR	1	6
<b>STDs, HIV and AIDS</b>													
AIDS <sup>9</sup> (October - December)	7 days	--	12	12	12	12	12	13	13	17	17	12	12.5
Chancroid	7 days	0	0	0	0	0	0	0	0	0	0	0	0
Chlamydia	7 days	121	1957	2192	2495	2239	2417	2169	2382	1870	2056	2169	2399.5
Gonorrhea	7 days	18	313	389	451	359	390	281	307	209	242	313	348.5
HIV infection <sup>9,10</sup> (October - December)	7 days	--	21	39	39	43	43	56	56	43	43	43	43
Syphilis <sup>11</sup>	7 days	5	52	48	55	55	59	35	42	36	41	48	48.5

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

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

<sup>7</sup> Includes streptococcal toxic shock syndrome and necrotizing fasciitis

<sup>8</sup> Due to *Staphylococcus aureus*

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

<sup>10</sup> HIV counts reflect all newly diagnosed HIV cases regardless of stage of disease at diagnosis.

<sup>11</sup> Cases are provisional, based on test date per local health department investigation.

NR = Not reported

**Websites**

**CDC:**

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

**IDPH:**

[www.dph.illinois.gov](http://www.dph.illinois.gov)

**DuPage:**

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

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[www.dupagehealth.org/publications](http://www.dupagehealth.org/publications)