



DuPage County Health Department R E V I E W

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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.



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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 Care & Control
(630) 407-2800

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



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.

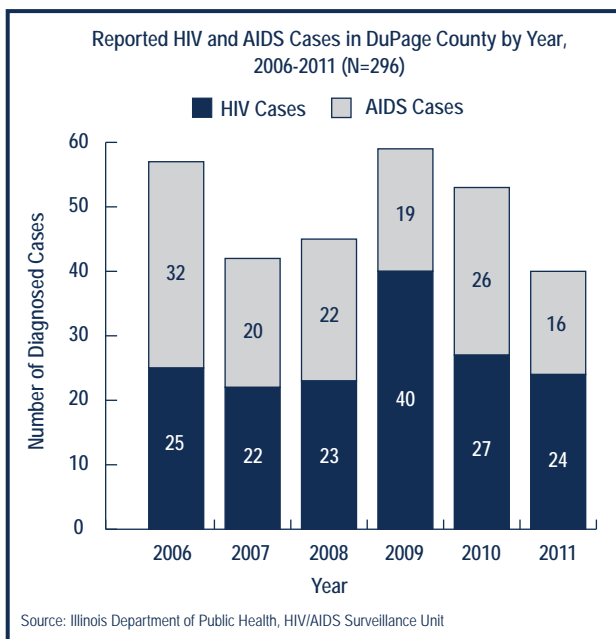
World AIDS Day (December 1) draws attention to the current status of the human immunodeficiency virus/acquired immunodeficiency syndrome (HIV/AIDS) epidemic worldwide. The theme for this year's observance on December 1 is Working Together for an AIDS-Free Generation.¹

Since the first cases of AIDS were reported in 1981, the epidemic has claimed the lives of approximately 30 million persons worldwide, and 34.2 million persons currently are living with HIV infection. In the U.S., approximately 602,000 persons diagnosed with AIDS have died since the first cases were reported 30 years ago, and approximately 50,000 persons become infected with HIV each year. An estimated 1.1 million persons in the U.S. are living with HIV infection.¹

According to 2009-2011 CDC surveillance data, a disproportionate number of new HIV infections occurs among youths, especially blacks/African Americans, Hispanics/Latinos, and men who have sex with men (MSM). The percentage of youths tested for HIV, however, was low, particularly among males.¹

HIV causes a chronic infection that leads to a progressive disease. Without treatment, most persons with HIV develop AIDS within 10 years of infection, which results in substantial morbidity and premature death. A consistently suppressed HIV viral load is associated with reduced morbidity and mortality and a lower probability of transmitting HIV to sex partners.²

HIV testing identifies infected persons and is the entry point to a continuum of HIV health care and social services that improve health outcomes, including survival. This continuum includes diagnosis (HIV testing), linkage to and retention in continuous medical care for HIV, prevention counseling and other services that reduce transmission, and appropriately timed and consistent antiretroviral therapy (ART) for viral suppression.²



Since 2006, CDC has recommended that adults and adolescents between the ages of 13 and 64 years of age be routinely screened for HIV infection in healthcare settings.³ Pregnant women in the U.S. should be screened for HIV infection as part of their routine prenatal testing.³

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.⁴

References:

1. www.cdc.gov/mmwr/PDF/wk/mm6147.pdf
2. www.cdc.gov/mmwr/PDF/wk/mm6047.pdf
3. www.cdc.gov/mmwr/pdf/rr/rr5514.pdf
4. www.cdc.gov/hiv/topics/testing/resources/qa/qa_professional.htm

DUPAGE COUNTY HEALTH DEPARTMENT
CASES¹ OF REPORTABLE DISEASES*

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

CD REVIEW
 Volume 8, No. 12 December 2012

| Vaccine Preventable Diseases | Report Within | 2012 | | 2011 | | 2010 | | 2009 | | 2008 | | Median | |
|---|---------------|------|-----------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|-------------------|
| | | Dec | Jan - Dec | Jan - Dec | Total | Jan - Dec | Total | Jan - Dec | Total | Jan - Dec | Total | Jan - Dec | Overall ('08-'11) |
| Chickenpox (varicella) | 24 hrs | 9 | 92 | 69 | 82 | 87 | 95 | 138 | 146 | 206 | 236 | 92 | 120.5 |
| Diphtheria | 24 hrs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Haemophilus influenzae, invasive | 24 hrs | 0 | 9 | 14 | 15 | 7 | 7 | 9 | 11 | 5 | 6 | 9 | 9 |
| Hepatitis A | 24 hrs | 0 | 7 | 6 | 8 | 3 | 3 | 6 | 6 | 10 | 11 | 6 | 7 |
| Hepatitis B | 7 days | 0 | 4 | 0 | 0 | 3 | 4 | 7 | 8 | 3 | 3 | 3 | 3.5 |
| Hepatitis B (carriers) | 7 days | 9 | 89 | 105 | 113 | 103 | 108 | 114 | 127 | 113 | 128 | 105 | 120 |
| Influenza, deaths in < 18 yrs old | 7 days | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |
| Influenza ICU admissions | 24 hrs | 2 | 13 | 24 | 24 | 0 | 3 | NR | NR | NR | NR | 13 | 13.5 |
| Measles (rubeola) | 24 hrs | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 14 | 14 | 0 | 0.5 |
| Mumps | 24 hrs | 0 | 1 | 2 | 4 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Neisseria meningitidis, invasive | 24 hrs | 0 | 0 | 2 | 2 | 1 | 1 | 5 | 6 | 4 | 4 | 2 | 3 |
| Pertussis (whooping cough) | 24 hrs | 8 | 188 | 231 | 268 | 75 | 92 | 23 | 26 | 8 | 13 | 75 | 59 |
| 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 | 0 | 5 | 13 | 13 | 7 | 8 | 8 | 8 | 4 | 6 | 7 | 8 |
| Tetanus | 7 days | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other Communicable Diseases | | | | | | | | | | | | | |
| Anaplasmosis ² | 7 days | 1 | 2 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 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 |
| Cholera | 24 hrs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |
| Creutzfeldt-Jakob disease | 7 days | 0 | 1 | 2 | 3 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 1 |
| Cryptosporidiosis | 7 days | 0 | 2 | 5 | 5 | 5 | 5 | 4 | 5 | 1 | 1 | 4 | 5 |
| Cyclosporiasis | 7 days | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |
| Dengue fever ³ | 7 days | 0 | 1 | 1 | 1 | 4 | 4 | 4 | 4 | 0 | 0 | 1 | 2.5 |
| Ehrlichiosis ² | 7 days | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Enteric E. coli infections ⁴ | 24 hrs | 1 | 17 | 21 | 22 | 18 | 18 | 11 | 12 | 21 | 21 | 18 | 19.5 |
| Giardiasis | 7 days | 0 | 31 | 42 | 44 | 45 | 49 | 36 | 40 | 51 | 53 | 42 | 46.5 |
| 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 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0.5 |
| Hepatitis C (cases & carriers) | 7 days | 12 | 163 | 175 | 189 | 175 | 187 | 202 | 213 | 229 | 246 | 175 | 201 |
| Hepatitis D | 7 days | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Histoplasmosis | 7 days | 0 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 6 | 6 | 2 | 2 |
| Influenza A, novel virus | 3 hrs | 0 | 0 | 0 | 0 | 11 | 11 | 172 | 181 | 0 | 0 | 0 | 5.5 |
| Legionellosis | 7 days | 0 | 24 | 11 | 14 | 11 | 11 | 13 | 13 | 5 | 5 | 11 | 12 |
| Leprosy | 7 days | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |
| Leptospirosis | 7 days | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Listeriosis | 7 days | 0 | 2 | 2 | 2 | 6 | 6 | 3 | 3 | 1 | 1 | 2 | 2.5 |
| Lyme disease ² | 7 days | 1 | 27 | 32 | 32 | 19 | 19 | 17 | 17 | 15 | 16 | 19 | 18 |
| Malaria | 7 days | 0 | 2 | 7 | 7 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 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 ⁶ | 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 | 1 | 43 | 30 | 30 | 54 | 54 | 15 | 15 | 45 | 45 | 43 | 37.5 |
| 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 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Salmonellosis | 7 days | 15 | 117 | 89 | 95 | 129 | 136 | 82 | 89 | 102 | 105 | 102 | 100 |
| Severe Acute Respiratory Syndrome | 3 hrs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Shigellosis | 7 days | 2 | 20 | 20 | 22 | 270 | 277 | 12 | 12 | 24 | 24 | 20 | 23 |
| 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 | 6 | 6 | 6 | 6 | 1 | 3 | 6 | 4.5 |
| Staphylococcus aureus, methicillin resistant (MRSA), community cluster ⁷ | 24 hrs | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 3 | 4 | 1 | 1 |
| Staphylococcus aureus (vancomycin-resistant) | 24 hrs | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0.5 |
| Streptococcal infections, group A invasive disease ⁸ | 24 hrs | 1 | 18 | 28 | 30 | 16 | 20 | 14 | 14 | 13 | 16 | 16 | 18 |
| Toxic shock syndrome ⁹ | 7 days | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0.5 |
| Trichinosis | 7 days | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tuberculosis ¹⁰ | 7 days | 2 | 20 | 15 | 23 | 22 | 26 | 23 | 29 | 42 | 43 | 22 | 27.5 |
| Tularemia | 3 hrs | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Typhoid fever | 24 hrs | 1 | 2 | 3 | 3 | 3 | 3 | 5 | 5 | 3 | 3 | 3 | 3 |
| Typhus | 24 hrs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Vibriosis (non-cholera) | 7 days | 0 | 4 | 3 | 3 | 1 | 1 | 2 | 2 | 0 | 0 | 2 | 1.5 |
| West Nile disease ³ | 7 days | 1 | 56 | 2 | 2 | 17 | 17 | 0 | 0 | 1 | 1 | 2 | 1.5 |
| Yersiniosis | 7 days | 0 | 3 | 2 | 3 | 0 | 0 | 5 | 5 | 1 | 1 | 2 | 2 |
| STDs, HIV and AIDS | | | | | | | | | | | | | |
| AIDS ¹¹ (October - December) | 7 days | -- | 12 | 13 | 16 | 24 | 26 | 12 | 19 | 14 | 22 | 13 | 20.5 |
| Chancroid | 7 days | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Chlamydia ¹² | 7 days | 79 | 1537 | 1476 | 1599 | 1419 | 1539 | 1445 | 1555 | 1459 | 1587 | 1459 | 1571 |
| Gonorrhea ¹² | 7 days | 9 | 180 | 222 | 241 | 203 | 223 | 209 | 225 | 247 | 268 | 209 | 233 |
| HIV infection ¹¹ (October - December) | 7 days | -- | 15 | 19 | 24 | 24 | 27 | 28 | 40 | 16 | 23 | 19 | 25.5 |
| Syphilis | 7 days | 0 | 10 | 24 | 24 | 24 | 25 | 29 | 33 | 14 | 18 | 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 Q fever case in 2004 not related to any suspected bioterrorism threat or event

⁷ Two or more laboratory-confirmed cases of community onset MRSA infection during a 14 day period

⁸ Includes streptococcal toxic shock syndrome and necrotizing fasciitis

⁹ Due to *Staphylococcus aureus*

¹⁰ Provisional cases, based on count date per IDPH

¹¹ HIV/AIDS data are provided quarterly by IDPH and are provisional, based on date of diagnosis

¹² Provisional cases, based on date of test

NR = Not reported

** = Count of less than 5 cases

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