



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 *Chlamydia trachomatis*

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

April is STD Awareness Month, an annual observance by Centers for Disease Control and Prevention (CDC) to raise public awareness about the impact of sexually transmitted diseases (STDs) on the lives of Americans and the importance of discussing sexual health with clinicians and sex partners. STD Awareness campaign activities and materials for clinicians and patients may be accessed at www.cdc.gov/std/sam/default.htm and www.dupagehealth.org/additiona-resources. CDC's recently released *Sexually Transmitted Disease Treatment Guidelines, 2010* may be accessed at www.cdc.gov/mmwr/pdf/rr/rr5912.pdf.

Statistics: STDs remain a major public health challenge in the U.S. *Chlamydia trachomatis* infections are not only the **most commonly reported** notifiable disease in the U.S. as well as in Illinois and DuPage County, they are among the **most prevalent** of all STDs. In the U.S., a total of 1,244,180 cases were reported in 2009. This case count corresponds to a rate of 409.2 cases per 100,000 population, which is an **increase of 2.8%** compared with the rate of 398.1 in 2008.¹ Illinois ranked 11th by rate, with 60,542 cases reported in 2009, and a corresponding rate of 469.3 cases per 100,000 population (up from 59,169 and 460.4 in 2008, respectively).¹ Many infections are asymptomatic and not detected; including undiagnosed cases, an estimated 2.8 million infections occur each year in the U.S.²

Disparities: The burden of infection is greatest among sexually active adolescents and young adults; chlamydia prevalence among sexually active persons aged 14-24 years in the U.S. is nearly three times the prevalence among those aged 25-39 years.² **Substantial racial/ethnic disparities in chlamydial infection exist**, with prevalence among non-Hispanic blacks approximately five times the prevalence among non-Hispanic whites. Among sexually active females aged 14-19 years, chlamydia prevalence is 6.8% overall (4.4% among non-Hispanic whites and 16.2% among non-Hispanic blacks).²

Sequelae: Chlamydial infections in women, which are usually asymptomatic, can result in **pelvic inflammatory disease (PID)**, which is a major cause of **infertility, ectopic pregnancy, and chronic pelvic pain**. As with other inflammatory STDs, chlamydial infection can **facilitate the transmission of human immunodeficiency virus (HIV) infection**. In addition, **pregnant women infected with chlamydia can pass the infection to their infants during delivery**, potentially resulting in **neonatal ophthalmia and pneumonia**.¹

Screening: CDC recommends **annual chlamydia screening of all sexually active women aged <26 years**, as well as screening of older women with risk factors (e.g., those who have a new sex partner or multiple sex partners).^{1,3} To break the cycle of

chlamydia transmission in the U.S., clinicians should maximize use of effective partner treatment services, and rescreen infected females and males 3 months after treatment.^{2,3}

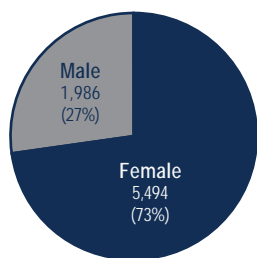
EPT: Effective January 1, 2010, Illinois health care professionals have another option for ensuring effective partner treatment for the sex partners of patients diagnosed with *Chlamydia trachomatis* and *Neisseria gonorrhoeae*. On August 24, 2009, Governor Pat Quinn signed Senate Bill 212 into law (PA 96-613) authorizing the use of **expedited partner therapy (EPT)**. EPT is the general term for the practice of treating sexual partners of patients diagnosed with chlamydia and/or gonorrhea without an intervening medical evaluation, thus reducing the likelihood of re-infection, potential complications, and further dissemination of these diseases within the community.⁴ The Illinois Department of Public Health (IDPH) STD Section staff have developed **EPT guidelines that provide information on appropriate patients, medications, counseling procedures and fact sheets in both English and Spanish for infected patients and their sex partners** (available at www.idph.state.il.us/health/std/ept_cg.htm).

Prevention: In addition to screening and appropriate partner notification and management, the most reliable way to avoid transmission of STDs is to **abstain from sexual contact** (i.e., oral, vaginal, or anal sex) or to be in a **long-term, mutually monogamous relationship with an uninfected partner**. Latex male condoms, when used consistently and correctly, can reduce the risk of transmission of chlamydia.^{3,5} As part of the clinical interview, **clinicians should routinely and regularly obtain sexual histories from their patients and address risk reduction strategies**. Counseling skills, characterized by respect, compassion, and a nonjudgmental attitude toward all patients, are essential to obtaining a thorough sexual history and to delivering prevention messages effectively.³

References:

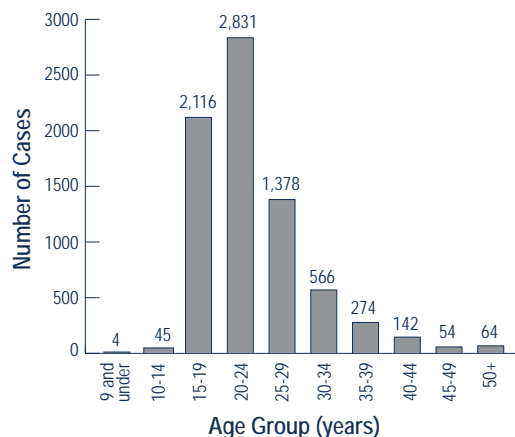
- www.cdc.gov/std/chlamydia/stats.htm
- www.cdc.gov/mmwr/preview/mmwrhtml/mm6012a2.htm?s_cid=mm6012a2_w
- www.cdc.gov/mmwr/pdf/rr/rr5912.pdf
- www.idph.state.il.us/health/std/ept_cg.htm
- www.cdc.gov/std/chlamydia/STDFact-Chlamydia.htm

Reported DuPage County Cases of Chlamydia by Sex, 2006-2010* (n=7,482)†



Source: Illinois Department of Public Health, STD Section and Illinois-National Electronic Disease Surveillance System
* 2010 data are provisional
† 2 cases had unknown sex listed

Reported DuPage County Cases of Chlamydia by Age Group, 2006-2010* (n=7,482)†



Source: Illinois Department of Public Health, STD Section and Illinois-National Electronic Disease Surveillance System
* 2010 data are provisional
† 8 cases had unknown age listed

DUPAGE COUNTY HEALTH DEPARTMENT

111 North County Farm Road
Wheaton, IL 60187
(630) 682-7400
www.dupagehealth.org

Linda Kurzawa
President, Board of Health

Maureen McHugh
Executive Director

Rashmi Chugh, MD, MPH
Medical Officer

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.

DUPAGE COUNTY HEALTH DEPARTMENT

CASES¹ OF REPORTABLE DISEASES*

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

CD REVIEW

Volume 7, No. 4 April 2011

Vaccine Preventable Diseases	Report Within	2011		2010		2009		2008		2007		Median	
		Mar	Jan - Mar	Jan - Mar	Total	Jan - Mar	Total	Jan - Mar	Total	Jan - Mar	Total	Jan - Mar	Total ('07-'10)
Chickenpox (varicella)	24 hrs	8	16	26	96	34	146	66	236	66	177	34	161.5
Diphtheria	24 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Haemophilus influenzae, invasive	24 hrs	1	3	2	6	1	11	1	6	1	5	1	6
Hepatitis A	24 hrs	0	2	2	6	4	14	3	16	7	26	3	15
Hepatitis B	7 days	0	0	0	3	4	8	0	4	4	9	0	6
Hepatitis B (carriers)	7 days	4	15	25	96	36	129	46	128	35	168	35	128.5
Influenza, deaths in < 18 yrs old	7 days	0	0	0	0	0	1	0	0	NR	NR	0	0
Measles (rubeola)	24 hrs	0	0	0	0	1	1	0	15	0	0	0	0.5
Mumps	24 hrs	0	1	0	1	0	2	1	2	8	13	1	2
Neisseria meningitidis, invasive	24 hrs	1	1	0	1	2	6	1	4	0	1	1	2.5
Pertussis (whooping cough)	24 hrs	8	32	4	88	4	26	1	13	6	9	4	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	5	4	8	3	8	1	6	1	10	3	8
Tetanus	7 days	0	0	0	0	0	0	0	0	0	0	0	0
Other Communicable Diseases													
Anaplasmosis ²	7 days	0	0	0	0	0	0	0	0	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	0	0	0	1	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	NR	NR	0	0
Cholera	24 hrs	0	0	0	0	0	0	0	1	0	0	0	0
Creutzfeldt-Jakob disease	7 days	0	1	0	0	0	0	0	0	NR	NR	0	0
Cryptosporidiosis	7 days	0	0	0	5	1	5	0	2	0	5	0	5
Cyclosporiasis	7 days	0	0	0	0	0	1	0	0	0	0	0	0
Dengue fever ³	7 days	0	0	1	4	0	4	0	0	0	1	0	2.5
Ehrlichiosis ²	7 days	0	0	0	0	0	0	0	0	0	1	0	0
Enteric E. coli infections ⁴	24 hrs	1	4	2	20	2	12	3	21	1	7	2	16
Giardiasis	7 days	2	8	19	50	10	42	8	57	18	68	10	53.5
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	0	0	0	0	0	0	1	0	0	0	0
Hepatitis C (cases & carriers)	7 days	3	33	48	182	76	238	73	261	78	301	73	249.5
Hepatitis D	7 days	0	0	0	0	0	0	0	0	NR	NR	0	0
Histoplasmosis	7 days	0	0	1	2	1	2	2	6	0	6	1	4
Influenza A, ICU admissions	3 hrs	5	23	0	3	NR	NR	NR	NR	NR	NR	NR	NR
Influenza A, novel virus	3 hrs	0	0	11	11	0	181	0	0	NR	NR	0	11
Legionellosis	7 days	0	0	2	11	1	13	1	5	0	13	1	12
Leprosy	7 days	0	0	0	0	1	1	0	0	0	0	0	0
Leptospirosis	7 days	0	0	0	0	0	0	0	0	0	1	0	0
Listeriosis	7 days	0	1	1	6	1	3	0	1	0	1	1	2
Lyme disease ²	7 days	0	0	0	18	0	18	0	17	1	16	0	17.5
Malaria	7 days	0	0	0	4	1	4	1	5	2	7	1	4.5
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 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	2	2	7	54	0	15	1	46	2	52	2	49
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	0	0	0	0	0	0	0	0
Salmonellosis	7 days	4	12	25	139	19	90	18	108	23	140	19	123.5
Severe Acute Respiratory Syndrome	3 hrs	0	0	0	0	0	0	0	0	NR	NR	0	0
Shigellosis	7 days	1	5	255	277	4	13	7	28	2	18	5	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	NR	NR	0	0
St. Louis encephalitis ³	7 days	0	0	0	0	0	0	0	0	NR	NR	0	0
Staphylococcus aureus, methicillin resistant (MRSA), in those < 61 days old	24 hrs	0	1	1	6	2	6	0	3	NR	NR	1	6
Staphylococcus aureus, methicillin resistant (MRSA), community cluster ⁷	24 hrs	0	0	1	1	0	1	1	4	NR	NR	0.5	1
Staphylococcus aureus (vancomycin-resistant)	24 hrs	0	0	1	1	0	0	0	0	0	1	0	0.5
Streptococcal infections, group A invasive disease ⁸	24 hrs	6	11	3	20	6	14	4	16	3	11	4	15
Toxic shock syndrome ⁹	7 days	0	1	0	0	0	0	0	1	0	2	0	0.5
Trichinosis	7 days	0	0	0	0	0	0	0	0	0	0	0	0
Tuberculosis	7 days	2	7	6	26	9	29	9	43	7	27	7	28
Tularemia	3 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Typhoid fever	24 hrs	1	2	2	3	2	5	1	3	0	7	2	4
Typhus	24 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Vibriosis (non-cholera)	7 days	0	0	0	1	0	2	0	0	0	1	0	1
West Nile disease ³	7 days	0	0	0	17	0	0	0	1	0	10	0	5.5
Yersiniosis	7 days	1	1	0	0	2	5	0	1	0	1	0	1
STDs, HIV and AIDS													
AIDS ¹⁰ (January - March)	7 days	**	**	10	26	**	19	6	22	**	20	4.5	21
Chancroid	7 days	0	0	0	0	0	0	0	0	0	0	0	0
Chlamydia	7 days	77	291	370	1472	421	1555	362	1587	288	1522	362	1538.5
Gonorrhea	7 days	10	42	49	221	61	225	63	268	48	251	49	238
HIV infection ¹⁰ (January - March)	7 days	**	**	13	27	11	40	6	23	**	22	8.5	25
Syphilis	7 days	3	7	3	23	11	33	8	18	4	18	7	20.5

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) 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

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 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

IDPH:

www.idph.state.il.us

DuPage:

www.dupagehealth.org

Archived issues of *CD Review* are available at:

www.dupagehealth.org/publications