



**Cook County Department
of Public Health**

CD UPDATE

March 2011

Pertussis Update - Suburban Cook County

**Cook County
Department of Public Health**
1010 Lake St. • Oak Park, IL • 60301

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General CD Program
708-492-2150
Fax: 708-492-2932

HIV Prevention Program
708-492-2190
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STI Program
708-492-2154
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TB Program
708-836-8660
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VPD Program
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Cook County Department of Public Health
www.cookcountypublichealth.org

Chicago Department of Public Health
www.cityofchicago.org/city/en/depts/cdph.html

Illinois Department of Public Health
www.idph.state.il.us

Centers for Disease Control and Prevention
www.cdc.gov

To report a communicable disease,
please call 708-492-2150 during regu-
lar business hours (8:30 AM - 4:30 PM).

To reach communicable disease staff
after hours (4:30 PM - 8:30 AM), please
call 708-492-2150 and press '3' when
prompted.

In 2010, 142 cases of pertussis were reported to the Cook County Department of Public Health (CCDPH). This is the highest yearly total since 2004 in which 298 cases were reported, mainly as a result of a large outbreak at a high school. Of the 142 cases reported last year, the highest proportion was in adolescents 10-14 years of age, who accounted for 47% of all cases. The increase in cases was first noted in September 2010 when CCDPH received reports of outbreaks in two middle schools.

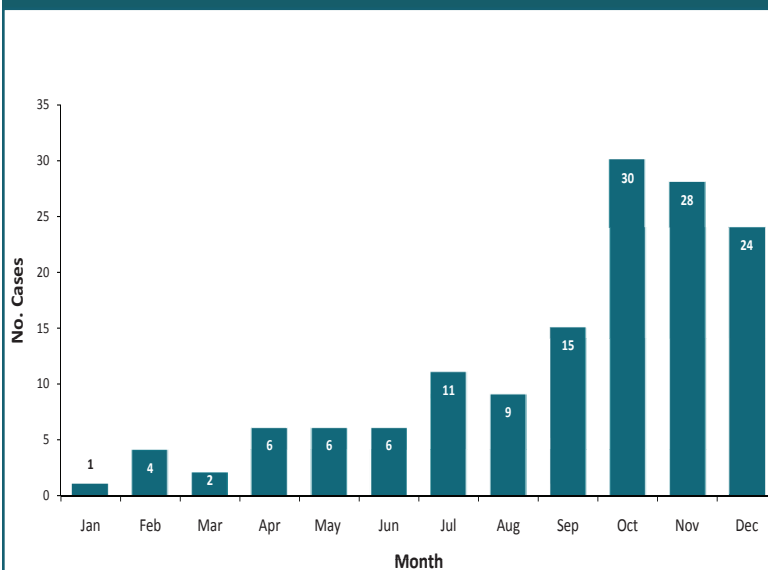
Pertussis outbreaks in middle and high schools are largely due to waning immunity from the last dose of DTaP vaccine administered to children upon entry to kindergarten. Since 2005, a booster vaccine, Tdap, has been available and is recommended by the Advisory Committee on Immunization Practices (ACIP) for adolescents (ages 11-18 years) and adults (ages 19-64 years).

The recent resurgence of pertussis cases in several states, most notably California, but also including Illinois, prompted the ACIP to make additional recommendations for use of Tdap in October, 2010. The new recommendations included: 1) administration of Tdap regardless of the interval since last tetanus- or diphtheria-toxoid containing vaccine; 2) use of Tdap in adults 65 years and older (e.g. grandparents, child-care providers, and health-care practitioners) who have, or who anticipate having, close contact with an infant less than 12 months of age; and 3) use of Tdap in undervaccinated children aged 7 through 10 years.

Polymerase chain reaction (PCR) testing of nasopharyngeal (NP) Dacron® swabs or nasopharyngeal aspirates in Regan-Lowe® transport medium is commonly used to diagnose pertussis. PCR is more sensitive than culture for detection of pertussis. Consult with CCDPH for approval prior to submitting specimens to the Illinois Department of Public Health's (IDPH) laboratory for PCR testing.

Early treatment with antibiotics is very important. Antimicrobial agents of choice for

**Reported Pertussis Cases by Month,
2010, Suburban Cook County**



treatment or chemo-
prophylaxis of pertus-
sis are azithromycin,
clarithromycin, and
erythromycin. Persons
diagnosed with pertus-
sis should be excluded
from school or work
until 5 days on appro-
priate antibiotic. Ad-
ministration of antibi-
otic chemoprophylaxis
to close contacts and
household members of
a pertussis case is also
recommended.

In Illinois, pertussis
cases must be reported
to the Local Health
Department within 24
hours of diagnosis. □

Morbidity for Selected Infectious Diseases, Suburban Cook County*, 2006-2010¶

Vaccine Preventable	2006	2007	2008	2009	2010¶	5 yr Median
Diphtheria	0	0	0	0	0	0
<i>Haemophilus influenzae</i> (type B)	3	0	0	2	0	0
Hepatitis B						
Acute	17	39	66	26	25	26
Chronic	513	511	383	293	309	383
Measles	0	0	11	0	0	0
Mumps	70	21	19	14	4	19
Pertussis (Whooping cough)	122	45	92	94	142	94
Rubella	0	0	0	0	0	0
Tetanus	0	1	0	0	1	0
Selected Diseases						
Cryptosporidiosis	16	21	14	15	26	16
<i>E. coli</i> O157:H7	14	17	10	33	9	14
Giardiasis	101	94	72	79	75	79
<i>Haemophilus influenzae</i>	21	21	30	28	31	28
Hepatitis A	43	35	46	36	32	36
Hepatitis C	1,137	1,141	811	806	819	819
Histoplasmosis	9	10	19	3	10	10
Legionnaires' disease	31	14	38	30	39	31
Listeriosis	3	7	11	10	6	7
Lyme Disease	22	18	9	23	31	22
Malaria	19	11	21	19	10	19
Meningococcal disease	9	14	22	8	3	9
Pneumococcal disease (invasive)†	209	172	32	23	17	32
Salmonellosis	280	371	282	285	345	285
Shigellosis	89	95	120	90	125	95
Streptococcal Invasive (Group A)	50	47	38	46	47	47
Tuberculosis						
Active	116	139	100	100	93	100
Latent	1,323	947	783	n/a	650	865
Typhoid Fever	4	7	5	3	3	4
WNV (neuroinvasive)	33	16	3	0	15	15
Sexually Transmitted Infections						
Chlamydia	7,574	8,110	8,219	8,204	7,496	8,110
Gonorrhea	2,530	2,782	2,560	2,196	1,892	2,530
HIV	162	189	201	162¶	n/a	176
AIDS	129	185	112	80¶	n/a	121
Syphilis§	80	69	89	133	115	89

* Excludes Evanston, Oak Park, Skokie and Stickney Township (except for tuberculosis)

† As of 3/08, reportable only in those < 5 years of age

¶ Provisional cases (as of 2/15/2011)

§ Early syphilis (i.e., primary, secondary and early latent)