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Contact Information

Communicable Disease
(630) 682-7979, ext. 7553

Environmental Health
(630) 682-7979, ext. 7046

Immunizations
(630) 682-7400

Sexually Transmitted Diseases
(630) 682-7979, ext. 7575

HIV/AIDS
(630) 682-7979, ext. 7310

Tuberculosis
(630) 682-7522

School Health
(630) 682-7979, ext. 7300

Travel Clinic
(630) 682-7979, ext. 7590

Animal Care & Control
(630) 407-2800

Please contact Shaun Nelson, MPH
at (630) 682-7979, ext. 7175 or
snelson@dupagehealth.org to
send 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

Streptococcus pneumoniae

Pneumococcal and influenza vaccinations are being offered at the DuPage County Health Department; for an appointment, please call (630) 682-7400.

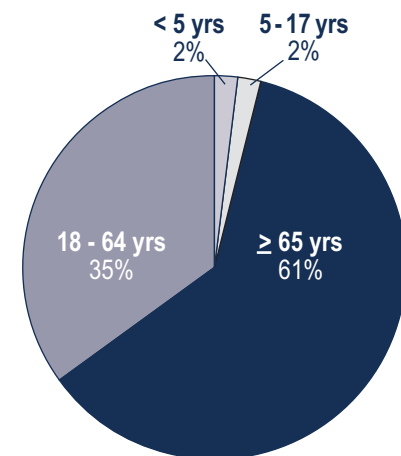
Pneumococcal infection is the leading cause of bacterial pneumonia, meningitis, and otitis media in the United States, and causes an estimated 40,000 deaths annually, accounting for more deaths than any other vaccine-preventable bacterial disease. **Approximately half of these deaths potentially could be prevented through the use of vaccine.**

Case-fatality rates are highest for meningitis and bacteremia, and the highest mortality occurs among the elderly and patients who have underlying medical conditions. Among children, death from pneumococcal infection is relatively uncommon, except among those who a) have meningitis, b) are immunocompromised, or c) have undergone splenectomy and have severe bacteremia.

Despite appropriate antimicrobial therapy and intensive medical care, the overall case-fatality rate for pneumococcal bacteremia is 15%-20% among adults (≥ 18 years). Among elderly patients (≥ 65 years), this rate is approximately 30%-40%. In DuPage County (from January 2002 through October 2006), the case-fatality rate in adults is 14.0%, and 16.5% among the elderly.

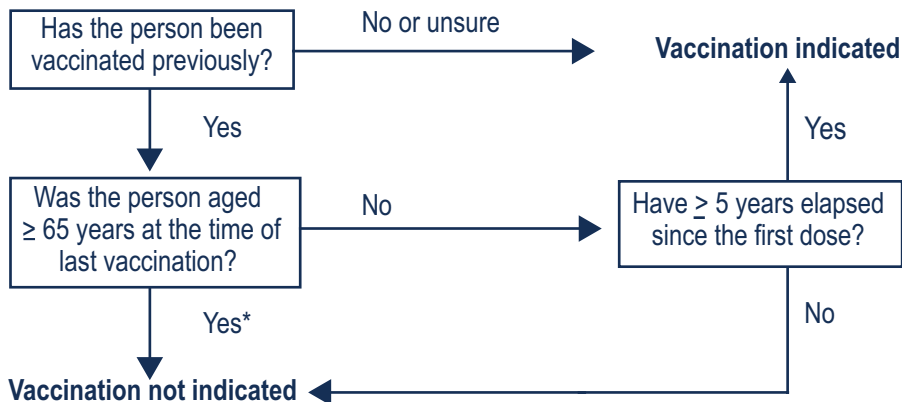
Pneumococcal vaccine may be administered year-round, however, **the time of administration of influenza vaccine should also be used as an opportunity to identify and vaccinate patients with pneumococcal vaccine** (including persons aged ≥ 65 years and persons aged ≥ 2 years with chronic illness and/or functional or anatomic asplenia, and immunocompromised persons aged ≥ 2 years).

Percentage of Invasive *S. pneumoniae* Deaths in DuPage County by Age Group (n = 43)*



* from 1/1/2002 to 10/31/2006

ALGORITHM FOR VACCINATING PERSONS AGED ≥ 65 YEARS



*Note: For any person who has received a dose of pneumococcal vaccine at age ≥ 65 years, revaccination is not indicated.

Further information on pneumococcal disease prevention and vaccine recommendations is available at: <http://www.cdc.gov/mmwr/PDF/rr/rr4608.pdf> and <http://www.cdc.gov/mmwr/PDF/rr/rr4909.pdf> (among infants and young children).

For questions or to report suspect and known cases of **invasive pneumococcal disease** (e.g., bacteremia, meningitis, or other infection of a normally sterile site), please call **Communicable Disease Services at 630-682-7979, ext. 7553.**

DUPAGE COUNTY HEALTH DEPARTMENT

CASES¹ OF REPORTABLE DISEASES*

Required by the Illinois Department of Public Health (IDPH)

* Last updated July 2002

CD REVIEW

Volume 2, No. 11 November 2006

Vaccine Preventable Diseases	Report Within	2006		2005		2004		2003		2002		Median	
		Oct 2006	Jan-Oct	Jan-Oct	Total	Jan-Oct	Total	Jan-Oct	Total	Jan-Oct	Total	Jan-Oct	Total ('02-'05)
Chickenpox in those < 20 yrs old	7 days	19	171	188	225	226	273	267	342	818	939	226	308
Chickenpox in those ≥ 20 yrs old	24 hrs	1	8	7	7	11	13	10	10	25	28	10	12
Diphtheria	24 hrs	0	0	0	0	0	0	0	0	0	0	0	0
<i>Haemophilus influenzae</i> , invasive disease	24 hrs	1	7	9	10	6	6	4	4	9	11	7	8
Hepatitis A	24 hrs	0	8	8	9	23	27	18	20	9	11	9	16
Hepatitis B	7 days	1	4	5	6	8	8	11	12	7	7	7	8
Hepatitis B (carriers)	7 days	4	121	131	147	119	146	117	136	163	199	121	147
Measles	24 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Mumps	7 days	31	114	0	0	1	1	2	3	3	3	2	2
<i>Neisseria meningitidis</i>	24 hrs	0	2	3	4	1	1	1	1	5	5	2	3
Pertussis	24 hrs	0	21	24	29	114	127	11	13	9	12	21	21
Poliomyelitis	24 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Rubella	7 days	0	0	0	0	0	0	0	0	0	1	0	0
<i>Streptococcus pneumoniae</i> , invasive disease	7 days	2	50	56	64	46	62	66	97	47	65	53	64
Tetanus	7 days	0	0	0	0	0	0	0	0	0	0	0	0
Other Communicable Diseases													
Amebiasis	7 days	0	1	0	0	3	3	2	2	5	5	2	3
Anthrax	3 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Blastomycosis	7 days	0	5	5	5	5	5	7	8	5	5	5	5
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	7 days	0	0	0	0	0	0	0	0	1	1	0	0
Campylobacteriosis	7 days	7	88	132	151	117	143	120	136	140	146	120	145
Cholera	24 hrs	0	0	0	0	0	0	1	1	0	0	0	0
Cryptosporidiosis	7 days	0	9	3	3	2	2	4	4	4	4	4	4
Cyclosporiasis	7 days	0	0	1	2	23	23	0	0	0	0	0	1
Diarrhea of the newborn	24 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Ehrlichiosis	7 days	0	2	0	0	0	0	1	1	0	0	0	0
Encephalitis ²	7 days	0	9	5	7	0	0	1	1	2	2	2	2
Enteric <i>E. coli</i> infections ³	24 hrs	1	9	15	17	9	11	4	4	22	25	9	14
Giardiasis	7 days	2	34	42	47	57	64	74	88	70	79	57	72
Glomerulonephritis	24 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Hantavirus pulmonary syndrome	7 days	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	0	0	0	0
Hepatitis C (cases & carriers)	7 days	5	208	198	238	150	189	164	193	187	223	187	208
Hepatitis, viral, other ⁴	7 days	0	0	0	0	1	1	0	0	0	0	0	0
Histoplasmosis	7 days	0	1	0	0	5	6	1	2	4	4	1	3
Legionnaires' disease	7 days	2	9	4	4	4	5	6	8	2	5	4	5
Leprosy	7 days	0	1	0	0	0	0	0	0	0	0	0	0
Leptospirosis	7 days	0	0	1	1	0	0	0	0	1	1	0	1
Listeriosis	7 days	1	3	2	2	2	2	1	2	0	0	2	2
Lyme disease	7 days	0	10	11	12	9	9	6	8	6	6	9	9
Malaria	7 days	0	3	5	5	7	8	4	4	3	3	4	5
Meningitis, aseptic ²	7 days	10	83	110	123	105	116	152	174	106	122	106	123
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 ⁵	3 hrs	0	0	0	0	1	1	0	0	1	1	0	1
Rabies, human case	24 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Rabies, potential exposure	24 hrs	0	27	23	24	17	18	10	10	26	26	23	21
Reye syndrome	7 days	0	0	0	0	0	0	0	0	0	0	0	0
Rheumatic fever	24 hrs	0	1	1	1	0	0	0	0	0	0	0	0
Rocky Mountain spotted fever	7 days	0	1	0	0	1	1	0	0	0	0	0	0
Salmonellosis	7 days	3	80	102	119	86	107	90	99	93	111	90	109
Shigellosis	7 days	2	24	26	29	10	15	41	44	36	44	26	37
Smallpox	3 hrs	0	0	0	0	0	0	0	0	0	0	0	0
<i>Staphylococcus aureus</i> (in those < 28 days old)	7 days	0	4	2	3	3	4	2	2	1	1	2	3
<i>Staphylococcus aureus</i> (vancomycin-resistant)	24 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Streptococcal infections, group A invasive	24 hrs	0	15	6	10	13	15	18	23	11	12	13	14
Streptococcal infections, group B invasive (in those < 3 mos old)	7 days	0	1	3	5	2	3	3	3	1	1	2	3
Toxic shock syndrome ⁶	24 hrs	0	1	2	3	6	6	4	4	2	2	2	4
Trichinosis	7 days	0	0	0	0	0	0	0	0	0	0	0	0
Tuberculosis	7 days	4	41	26	29	37	46	46	62	21	32	37	39
Tularemia	3 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Typhoid fever	24 hrs	0	2	2	2	2	2	1	1	1	3	2	2
Typhus	24 hrs	0	0	0	0	0	0	0	0	0	0	0	0
West Nile disease	7 days	0	41	47	47	5	5	3	3	51	51	41	26
Yersiniosis	7 days	0	0	2	2	2	2	0	0	0	1	0	2
STDs, HIV and AIDS													
AIDS (Jan - Sept) ⁷	7 days	---	18	23	30	16	20	20	22	19	28	19	25
Chancroid	7 days	0	0	0	0	0	0	0	0	0	0	0	0
Chlamydia	7 days	118	1125	1077	1215	776	948	769	939	766	904	776	944
Gonorrhea	7 days	19	153	171	205	184	210	169	209	194	234	171	210
HIV infection (Jan - Sept) ⁷	7 days	---	22	25	37	23	29	20	31	16	22	22	30
Syphilis	7 days	2	21	11	15	8	9	17	18	8	10	11	13

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) 682-7522

STDs
(630) 682-7979, ext. 7575

HIV/AIDS:
(630) 682-7979, ext. 7310

¹ Provisional cases, based on date of onset

² Excludes West Nile disease

³ O157:H7, STEC, EHEC, ETEC, EPEC

⁴ Includes hepatitis D and E

⁵ Q fever cases in 2002 and 2004 not related to any suspected bioterrorism threat or event

⁶ Includes streptococcal (reportable within 24 hours) and presumed staphylococcal (reportable within 7 days)

⁷ HIV/AIDS data are provided quarterly by IDPH and are provisional, based on date of diagnosis

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/health_data/cd-review.html