



# DuPage County Health Department R E V I E W

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### Contact Information

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(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 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, call (630) 682-7400.

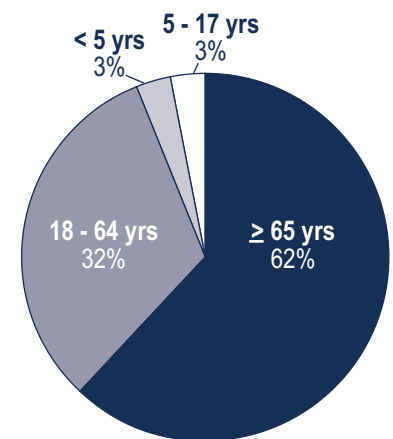
Pneumococcal infection causes an estimated 40,000 deaths annually in the United States, accounting for more deaths than any other vaccine-preventable bacterial disease. **Approximately half of these deaths potentially could be prevented through the use of vaccine.**

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 and older). Among elderly patients (65 years and older), this rate is approximately 30%-40%. In DuPage County (from April 2001 through October 2005), the case-fatality rate in adults is 15.3%, and 18.6% among the elderly.

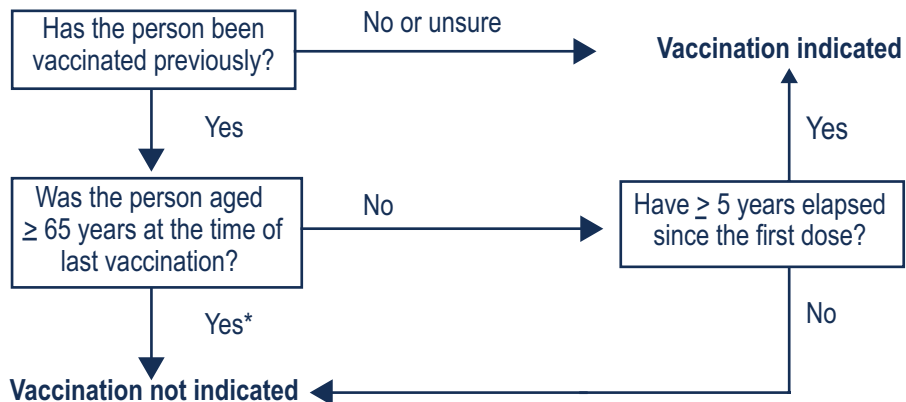
Pneumococcal vaccine may be administered year-round, however, **the time of administration of influenza vaccine should also be used as an opportunity to identify and vaccinate patients with pneumococcal vaccine** (including persons aged  $\geq 65$  years and persons aged  $\geq 2$  years with chronic illness and/or functional or anatomic asplenia, and immunocompromised persons aged  $\geq 2$  years). Further information on pneumococcal disease prevention and vaccine recommendations are available at [www.cdc.gov/mmwr/preview/mmwrhtml/00047135.htm](http://www.cdc.gov/mmwr/preview/mmwrhtml/00047135.htm).

Percentage of Invasive *S. pneumoniae* Deaths in DuPage County by Age Group (n = 40)\*



\* from 4/1/2001 to 10/31/2005

#### ALGORITHM FOR VACCINATING PERSONS AGED $\geq 65$ YEARS



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

DUPAGE COUNTY HEALTH DEPARTMENT

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

Required by the Illinois Department of Public Health (IDPH)

\* Last updated July 2002

CD REVIEW

Volume 1, No. 2 November 2005

Vaccine Preventable Diseases	Report Within	2005		2004		2003		2002		2001		Median	
		Oct 2005	Jan-Oct	Jan-Oct	Total	Jan-Oct	Total	Jan-Oct	Total	Jan-Oct	Total	Jan-Oct	Total ('01-'04)
Chickenpox in those < 20 yrs old	7 days	13	188	226	273	267	342	818	939	580	934	267	638
Chickenpox in those ≥ 20 yrs old	24 hrs	0	8	11	13	10	10	25	27	NR <sup>2</sup>	NR <sup>2</sup>	11	13
Diphtheria	24 hrs	0	0	0	0	0	0	0	0	0	0	0	0
<i>Haemophilus influenzae</i>	24 hrs	0	9	5	5	4	4	9	11	6	7	6	6
Hepatitis A	24 hrs	0	8	23	27	17	20	9	11	30	32	17	24
Hepatitis B	7 days	0	5	8	8	11	12	14	14	13	15	11	13
Hepatitis B (carriers)	7 days	17	133	119	144	117	136	163	199	221	268	133	172
Measles	24 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Mumps	7 days	0	0	2	2	2	3	3	3	2	3	2	3
<i>Neisseria meningitidis</i>	24 hrs	0	3	1	1	1	1	5	5	3	3	3	2
Pertussis	24 hrs	3	23	114	127	11	13	9	12	9	12	11	13
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	1	0	0	0	0
<b><i>Streptococcus pneumoniae</i>, invasive disease<sup>3</sup></b>	<b>7 days</b>	<b>3</b>	<b>54</b>	<b>46</b>	<b>62</b>	<b>66</b>	<b>97</b>	<b>47</b>	<b>65</b>	<b>33</b>	<b>54</b>	<b>51</b>	<b>65</b>
Tetanus	7 days	0	0	0	0	0	0	0	0	0	0	0	0
<b>Other Communicable Diseases</b>													
Amebiasis	7 days	0	0	3	5	2	2	2	2	3	4	2	3
Anthrax	3 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Blastomycosis	7 days	0	4	5	6	6	7	5	6	3	4	5	6
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	1	0	0	0	0	1	1	0	0	0	0
Campylobacteriosis <sup>3</sup>	7 days	7	130	94	120	120	146	133	153	122	143	122	145
Cholera	24 hrs	0	0	0	0	1	1	0	0	0	0	0	0
Cryptosporidiosis	7 days	0	3	2	2	3	4	4	4	12	12	3	4
Cyclosporiasis	7 days	0	1	26	26	0	0	0	0	0	0	0	0
Diarrhea of the newborn	24 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Ehrlichiosis	7 days	0	0	0	0	1	1	0	0	0	0	0	0
Encephalitis <sup>4</sup>	7 days	0	4	0	0	1	1	2	2	3	6	2	2
Enteric <i>E. coli</i> infections <sup>5</sup>	24 hrs	0	16	19	21	5	5	21	24	12	16	16	17
Giardiasis	7 days	1	39	52	59	74	88	60	71	58	74	58	73
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) <sup>3</sup>	7 days	7	174	150	189	164	193	187	223	104	157	164	191
Hepatitis, viral, other <sup>6</sup>	7 days	0	0	1	1	0	0	0	0	0	0	0	0
Histoplasmosis	7 days	0	0	5	6	1	2	4	4	2	3	2	4
Legionnaires' disease	7 days	0	4	4	5	6	8	2	5	3	3	4	5
Leprosy	7 days	0	0	0	0	0	0	0	0	0	0	0	0
Leptospirosis	7 days	0	1	0	0	0	0	1	1	0	0	0	0
Listeriosis	7 days	0	2	2	2	1	2	0	0	1	1	1	2
Lyme disease	7 days	0	10	9	9	6	9	7	8	2	3	7	9
Malaria	7 days	0	4	7	8	4	4	3	3	2	2	4	4
Meningitis, aseptic <sup>4</sup>	7 days	13	106	136	158	152	174	106	122	126	137	126	148
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 <sup>7</sup>	3 hrs	0	0	1	1	0	0	1	1	0	0	0	1
Rabies, human case	24 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Rabies, potential exposure	24 hrs	1	23	17	18	10	10	26	26	10	11	17	15
Reye syndrome	7 days	0	0	0	0	0	0	0	0	0	0	0	0
Rheumatic fever	24 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Rocky Mountain spotted fever	7 days	0	0	0	1	0	0	0	0	0	0	0	0
Salmonellosis	7 days	4	97	86	107	90	99	93	111	84	93	90	103
Shigellosis	7 days	2	28	10	15	41	44	36	41	29	32	29	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	2	3	4	2	2	1	1	0	0	2	2
<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	6	13	15	21	22	11	12	18	21	13	18
Streptococcal infections, group B invasive (in those < 3 mos old)	7 days	0	3	1	1	3	3	1	1	0	0	1	1
Toxic shock syndrome <sup>8</sup>	24 hrs	0	2	0	0	4	4	2	2	2	2	2	2
Trichinosis	7 days	0	0	0	0	0	0	0	0	0	0	0	0
Tuberculosis	7 days	4	30	42	50	51	67	31	33	38	46	38	48
Tularemia	3 hrs	0	0	0	0	0	0	0	0	0	0	0	0
Typhoid fever	24 hrs	0	2	2	2	1	1	1	3	3	3	2	3
Typhus	24 hrs	0	0	0	0	0	0	0	0	0	0	0	0
West Nile disease	7 days	3	47	5	5	4	4	44	44	0	0	5	5
Yersiniosis	7 days	0	2	2	2	0	0	0	1	2	2	2	2
<b>STDs, HIV and AIDS</b>													
AIDS <sup>9</sup>	7 days	3	21	18	21	19	20	22	28	28	30	21	25
Chancroid	7 days	0	0	0	0	0	0	0	0	0	0	0	0
Chlamydia	7 days	111	1059	776	948	769	939	766	904	681	837	769	922
Gonorrhea	7 days	22	168	184	210	169	209	194	234	197	230	184	220
HIV infection <sup>9</sup>	7 days	2	18	23	25	24	28	18	23	24	29	23	27
Syphilis	7 days	1	11	8	9	17	18	8	10	7	10	8	10

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 onset dates
- 2 Not reported
- 3 Disease not reportable until April 2001; data do not include cases from Jan 1, 2001 through March 31, 2001.
- 4 Excludes West Nile disease
- 5 0157:H7, STEC, EHEC, ETEC, EPEC
- 6 Includes hepatitis D and E
- 7 Q fever cases in 2002 and 2004 not related to any suspected bioterrorism threat or event
- 8 Includes streptococcal (reportable within 24 hours) and presumed staphylococcal (reportable within 7 days)
- 9 Provisional cases, based on date of diagnosis

**Websites:**

**CDC**

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

**IDPH**

[www.idph.state.il.us](http://www.idph.state.il.us)

**DuPage**

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