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Sexually Transmitted Diseases
(630) 682-7400, ext. 7575

HIV/AIDS
(630) 682-7400, ext. 7310

Tuberculosis
(630) 682-7522

School Health
(630) 682-7400, ext. 7300

Travel Clinic
(630) 682-7400

Animal Care & Control
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to send suggestions
or to be added to the
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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.



Under the Microscope *Streptococcus pneumoniae*

For questions or to report suspect or known cases of invasive pneumococcal disease in children < 5 years of age, please call the DuPage County Health Department at 630-682-7979, ext. 7553.

Streptococcus pneumoniae is a leading cause worldwide of illness and death for young children, persons with underlying medical conditions, and the elderly.¹ Pneumococcal infection is a **major cause of meningitis, pneumonia, bacteremia, and otitis media** in the U.S., especially among **young children and older adults**.

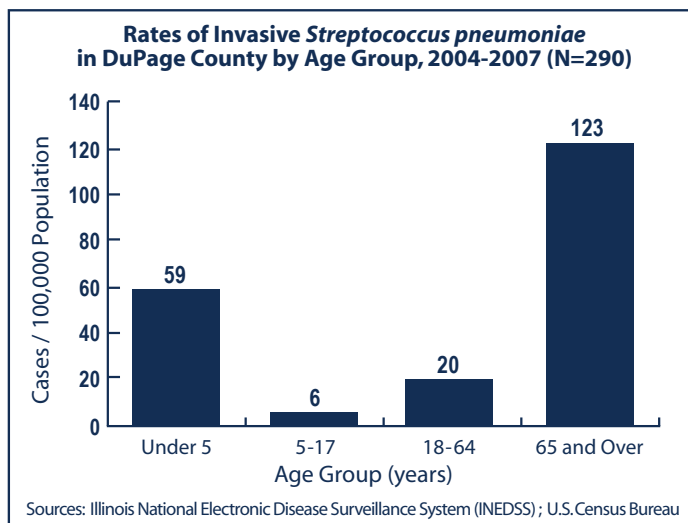
More than 40,000 cases and more than 4,400 deaths from **invasive pneumococcal disease (IPD, e.g., bacteremia, meningitis, or other infection of a normally sterile site)** are estimated to have occurred in the U.S. in 2005; more than half of these cases occurred in adults who had an indication for the **23-valent pneumococcal polysaccharide vaccine (PPV23)**.²

PCV23 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)**.³

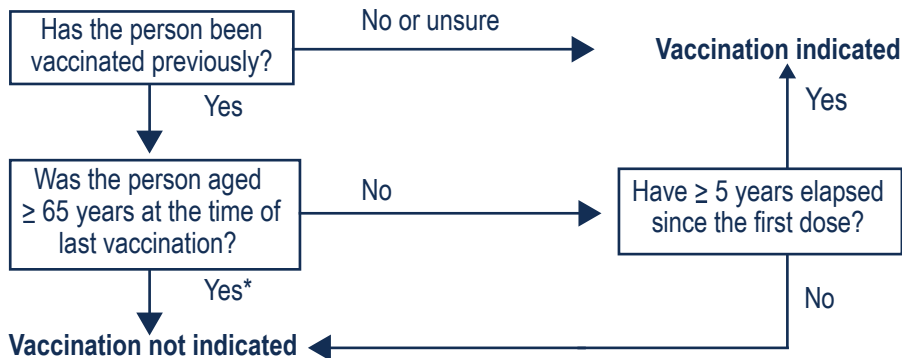
Introduction of the **7-valent pneumococcal conjugate vaccine (PCV7)** in the U.S. in October 2000 led to **substantial reductions in the incidence of invasive pneumococcal disease (IPD) among the target population of children aged < 5 years**. Use of the vaccine also **reduced IPD among unvaccinated populations (i.e., adults)** through reductions in nasopharyngeal colonization and transmission of vaccine-type pneumococci from vaccinated children (i.e., indirect, or herd, effects of PCV7).⁴

PCV7 is recommended for **all children less than 24 months old and for children age 24-59 months with a high-risk medical condition** (e.g., sickle cell disease, asplenia, cochlear implant, chronic illness, immunocompromising condition).^{5,6}

With recent increases in **pneumococcal disease caused by nonvaccine serotypes (i.e., replacement disease)**, **continued disease reporting by physicians and laboratories is crucial** to support ongoing surveillance, which is needed to inform future vaccine development and to monitor the impact of continued vaccine use on disease.^{1,4}



ALGORITHM FOR VACCINATING PERSONS AGED ≥ 65 YEARS³



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

References:

- www.cdc.gov/vaccines/pubs/surv-manual/chpt11-pneumo.htm
- www.cdc.gov/vaccines/pubs/pinkbook/downloads/pneumo.pdf
- www.cdc.gov/mmwr/PDF/rr/rr4608.pdf
- www.cdc.gov/mmwr/PDF/wk/mm5706.pdf
- www.cdc.gov/mmwr/PDF/rr/rr4909.pdf
- www.cdc.gov/vaccines/vpd-vac/pneumo/default.htm

