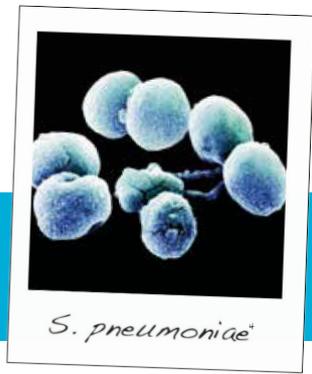
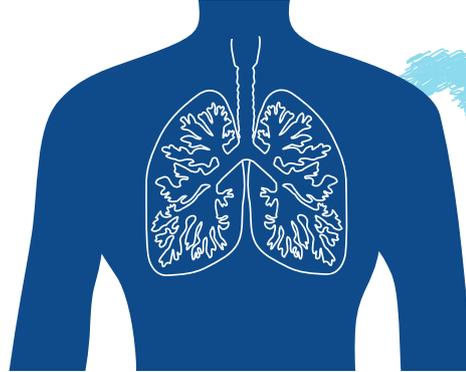


Pneumococcal Disease and Pneumonia: are you at risk?



Pneumococcal disease describes a group of illnesses caused by the bacterium *Streptococcus pneumoniae* (*S. pneumoniae*), some of which can be life-threatening, such as pneumonia, meningitis and septicaemia^{1,2,3}

Pneumococcal pneumonia is the **most common** form of pneumococcal disease seen by doctors in adults¹

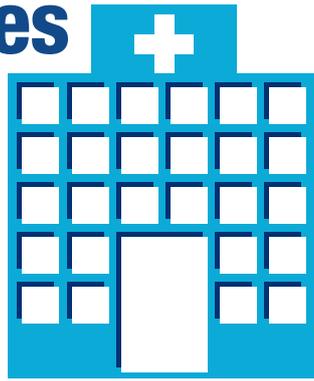


Every year between **600-800,000 adults die worldwide** from pneumococcal disease⁶

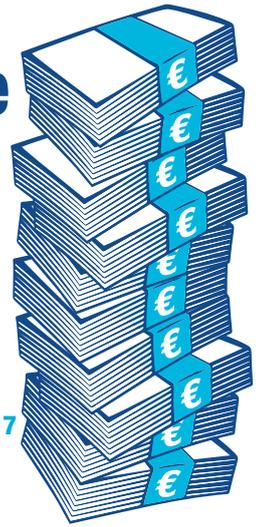
Pneumonia* is the **most frequent** cause of death due to infection in Europe⁵

S. pneumoniae is the main cause of pneumonia* – up to 68% of cases in Europe^{5,7}

There are **3 million cases** of pneumonia* every year in Europe of which about **1 million are hospitalised**⁵



Pneumonia costs Europe **€10.1 billion annually**⁷



The risk of a cardiovascular event...
...is higher after having pneumonia⁸

*Pneumonia acquired in the community



Pneumococcal disease can affect people of all ages, although young children, adults aged over 65, and people with long-term medical conditions or weakened immune systems are at increased risk⁹



Vaccination is a simple preventative measure...



Only **10%**

of adults over 50 in Europe are vaccinated against pneumococcal disease¹¹

References: 1. Centers for Disease Control and Prevention. Pneumococcal Disease. Fast Facts. Available here: <http://www.cdc.gov/pneumococcal/about/facts.html> [Accessed May 2015]. 2. Centers for Disease Control. Pneumococcal Disease. Pink Book. 2012. Accessible at: <http://www.cdc.gov/vaccines/pubs/pinkbook/downloads/pneumo.pdf> Accessed June 2015. 3. World Health Organisation. Pneumococcal vaccines Position Paper. Weekly Epidemiological record. 2012; 87: 129-144. 4. Streptococcus pneumoniae [Image BH4984]. Science Source Photo Researchers Inc. Available at: <http://images.sciencesource.com/search?function=query&key=bh4984> [Accessed June 2015]. 5. ERS Whitebook. Chapter 18. Acute lower respiratory infections. Available at: <http://www.erswhitebook.org/chapters/acute-lower-respiratory-infections/> [Accessed June 2015]. 6. WHO/WPRO Report of biregional meeting on prevention of childhood pneumonia and meningitis by vaccination. March 2006. 7. Welte T, Torres A, Nathwani D. Clinical and economic burden of community-acquired pneumonia among adults in Europe. *Thorax*. 2012;67: 71-79. 8. Corrales-Medina, V F. Association between Hospitalization for Pneumonia and Subsequent Risk of Cardiovascular Disease. *JAMA* 2015. 313: 264-274. 9. Centers for Disease Control and Prevention. Pneumococcal Disease. Risk Factors & Transmission. Available at: <http://www.cdc.gov/pneumococcal/about/risk-transmission.html> [Accessed June 2015]. 10. Schranz, J. Pneumococcal conjugate vaccines: what do we know and what do we need? *Procedia in Vaccinology*. 2009;1:189-205. 11. Lode H, Ludwig E, Kassianos G. Pneumococcal Infection – Low Awareness as a Potential Barrier to Vaccination: Results of a European Survey. *Adv Ther*. 2013;30:387-405.

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