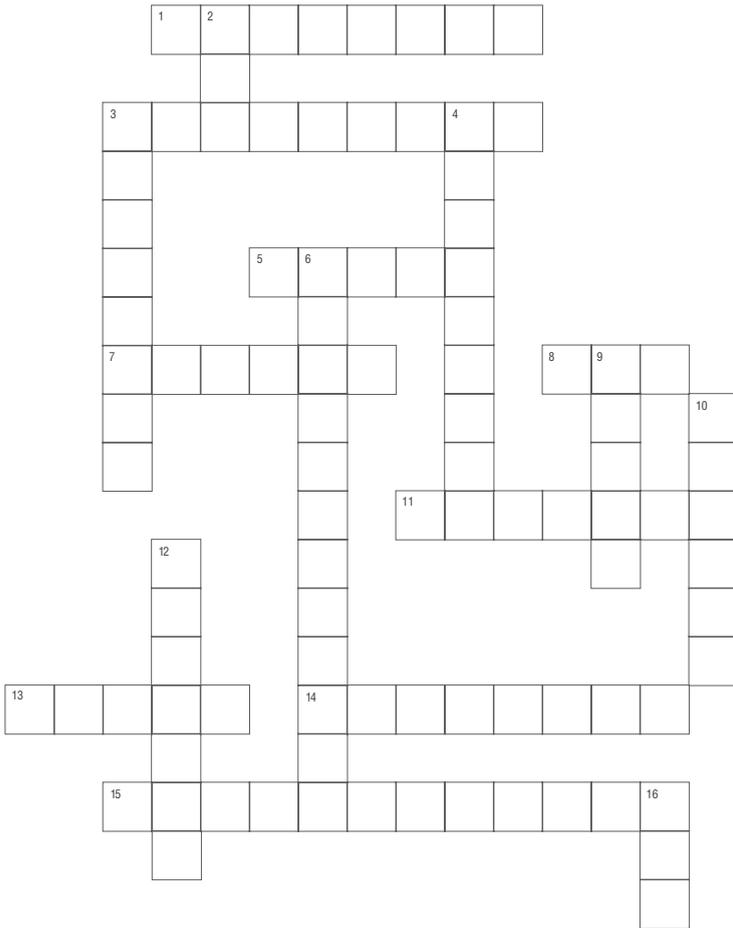


Know Pneumonia Crossword Puzzle

You may already know that pneumococcal pneumonia is a serious lung disease in adults, but did you know your risk increases as you age? Do you know what else puts you at risk? Use the clues below to test your knowledge about pneumonia, including pneumococcal pneumonia, ways to help prevent this serious lung disease and more. And, don't forget to talk to your healthcare provider about your own personal risk this World Pneumonia Day, November 12, and visit <http://worldpneumoniaday.twibbon.com/us/> to share information with your family and friends!



ACROSS

1. Can help reduce your chance of getting certain infectious diseases ¹
3. Acute respiratory infection of the lungs²
5. There are two types of pneumonia, bacterial and _____.¹³
7. Adults 65 and older with this breathing condition can be at almost 6 times greater risk for pneumococcal pneumonia ⁷
8. Another illness commonly mistaken for pneumonia¹²
11. Another name for being tired; a symptom of pneumococcal pneumonia ¹¹
13. Certain symptoms of pneumococcal pneumonia, including cough and fatigue, may last for _____.¹⁴
14. Adults 65 and older are _____ times more likely to be hospitalized from pneumococcal pneumonia than younger adults age 18-49 ¹⁷
15. Most common type of bacterial pneumonia ⁶

DOWN

2. A risk factor for vaccine-preventable diseases ³
3. A convenient place to receive vaccines ⁸
4. _____ and pneumonia, including pneumococcal pneumonia, are a leading cause of death in the U.S. ⁴
6. The body's _____ helps defend against disease and infection.⁵
9. Organs in your chest that allow your body to take in oxygen from the air and also help remove carbon dioxide from your body⁹
10. Shortness of _____ is a symptom of pneumococcal pneumonia which can make it difficult to breathe ¹⁵
12. This habit damages your lungs' ability to fight off bacterial infection and can put adults 65 and older at almost 4 times greater risk for pneumococcal pneumonia⁷
16. Vaccination rates in the U.S. remain _____, lagging behind federal goals¹⁰

Sources

1. Centers for Disease Control and Prevention (CDC). Vaccine Information for Adults. Why Vaccines are Important for You. <http://cdc.gov/vaccines/adults/reasons-to-vaccinate.html> Updated March 26, 2014. Accessed August 11, 2016.
2. World Health Organization. Pneumonia. <http://www.who.int/mediacentre/factsheets/fs331/en/>. Updated November 2015. Accessed August 11, 2016.
3. Weinberger B, Herndler-Brandstetter D, Schwanninger A, et al. Biology of immune responses to vaccines in elderly persons. *Clin Infect Dis*. 2008; 46:1078-1084
4. CDC. Leading Causes of Death 2015 (v1.0) [CDCLeadingCausesofDeath/pg1/para1/bullet8\(p.1\)](http://www.cdc.gov/data/assets/PDF/11/111111.pdf) Updated April 27, 2016. Accessed August 31, 2016.
5. CDC. Your Immune System. <http://www.cdc.gov/bam/diseases/immune/immunesys.html> Updated April 17, 2014. Accessed August 11, 2016.
6. CDC. Pneumococcal Disease. In: Hamborsky J, Kroger A, Wolfe C, eds. *Epidemiology and Prevention of Vaccine-Preventable Diseases (The Pink Book)*. 13th ed. Washington DC: Public Health Foundation; 2015:279-296.
7. Shea KM, Edelsberg J, Weycker D, Farkough RA, Strutton DR, Pleton SI. Rates of pneumococcal disease in adults with chronic medical conditions. *Open Forum Infect Dis*. 2014; 1(1):ofu024.
8. National Foundation for Infectious Diseases. Adult Vaccination FAQs. Available at <http://www.adultvaccination.org/resources/adult-faq.pdf>. Accessed August 11, 2016
9. National Health, Lung and Blood Institute (NHLBI). What are the Lungs? <https://www.nhlbi.nih.gov/health/health-topics/topics/hlw>. Accessed August 11, 2016
10. Williams WW, Lu PJ, O'Halloran A, et al. Vaccination coverage among adults, excluding influenza vaccination - United States, 2013. *MMWR Morb Mortal Wkly Rep*. 2015;64(4):95-102
11. CDC. Pneumococcal disease. In: Hamborsky J, Kroger A, Wolfe C, eds. *Epidemiology and Prevention of Vaccine-Preventable Diseases (The Pink Book)*. 13th ed. Washington DC: Public Health Foundation; 2015: 279-296
12. NHLBI. Pneumonia. <http://www.nhlbi.nih.gov/health/health-topics/topics/pnu/diagnosis>. Accessed August 11, 2016.
13. World Health Organization. Pneumonia. <http://www.who.int/mediacentre/factsheets/fs331/en/>. Updated November 2015. Accessed August 11, 2016.
14. CDC. Pneumococcal Disease. In: Hamborsky J, Kroger A, Wolfe C, eds. *Epidemiology and Prevention of Vaccine-Preventable Diseases (The Pink Book)*. 13th ed. Washington DC: Public Health Foundation; 2015: 279-296.
15. CDC. Pneumococcal Disease. In: Hamborsky J, Kroger A, Wolfe C, eds. *Epidemiology and Prevention of Vaccine-Preventable Diseases (The Pink Book)*. 13th ed. Washington DC: Public Health Foundation; 2015: 279-296.
16. Jain S, Self WH, Wunderink RG, et al. CDC EPIC Study Team. Community-acquired Pneumonia Requiring Hospitalization among US adults. *N Engl J Med* 2015;373(5):415-427
17. Jain S, Self WH, Wunderink RG, et al. CDC EPIC Study Team. Community-acquired Pneumonia Requiring Hospitalization among US adults. *N Engl J Med* 2015;373(5):415-427

Answer Key

