A story by numbers

Meningococcal Disease





Every 8 minutes

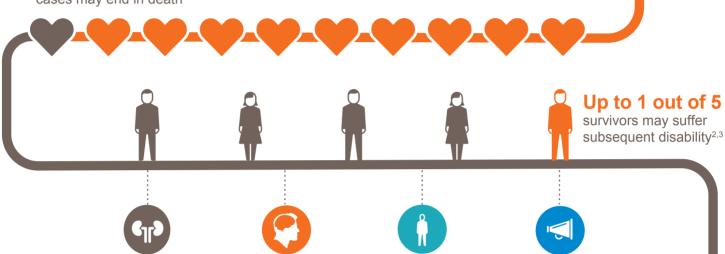
1 person dies of meningococcal meningitis worldwide1

> Meningococcal disease can kill within 24 hours and is easily misdiagnosed2,3



Up to 1 out of 10

cases may end in death2



Infants in whom protective antibodies have not yet developed are at highest risk of contracting meningococcal disease3,5

kidney failure4



brain damage³



Adolescents and young adults

hearing loss^{2,3}

can also be at risk of contracting meningococcal disease due to social factors, such as living in college dormitories⁶

The most vulnerable populations: infants and adolescents 5.6











loss of limb³



Six serogroups of Neisseria meningitidis cause the majority of cases of meningococcal disease around the world.^{7,8}





THE







Australia⁸ BC



Europe⁸ BCY



North America⁸ BCY



South America®









Five serogroups are vaccine-preventable and are included on many countries' vaccination schedules or are currently being integrated into vaccination schedules 9,10,11

- Naghavi, Mohsen, et al. Global, regional, and national age-sex specific all-cause and cause-specific mortality for 240 causes of death,
 1990-2013: a systematic analysis for the Global Burden of Disease Study 2013. The Lancet 2015, 385: 117-171.
- World Health Organization (WHO). Meningococcal meningitis. Factsheet #141. November 2015 update. Available at:
- http://www.who.int/ mediacentre/factsheets/fs141/en/. Accessed
- Rosenstein NE, et al. Meningococcal disease. N Engl J Med 2001; 344:1378-88. NMA, (2015). Statistics and Disease Facts NMA. [online] Available at: http://www.nmaus.org/disease-prevention-information/statistics -and-disease-facts/. Accessed November 2015.
- Jafri, Rabab Z., et al. Global epidemiology of invasive meningococcal disease. Population Health Metrics, 2013; 11: 17. Available at:
- http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3848799/. Accessed November 2015.
 Centers for Disease Control and Prevention (CDC). Prevention and Control of Meningococcal Disease; Recommendations of the Advisory Committee on Immunization Practices (ACIP). Morbidity and Mortality Weekly Report (MMWR). 2013; 62(2):1-13. Available at: http://www.cdc.gov/mmwr/odf/trufrs/202 pdf. Accessed November 2015.
- Weekly Report (MMWR). 2013; 62(2):1-13. Available at: http://www.cdc.gov/mmwr/pdf/irr/m6202.pdf. Accessed November 2015.

 7. World Health Organization (WHO). Meningococcal vaccines position paper. Weekly Epidemiological Record No. 47, 2011, 86, 521-540. Available at: http://www.who.int/wer/2011/wer8647.pdf. Accessed November 2015.

 8. Dbaibo, G., Khinkarly, R. and Hedari, C. (2014). Meningococcal serogroups A, C, W-135, and Y tetanus toxoid conjugate vaccine: a new conjugate vaccine: a new conjugate vaccine: a new conjugate vaccine against invasive meningococcal disease.
- a new conjugate vaccine against invasive meningococcal disease
- ⁹ European Centre for Disease Prevention and Control (ECDC). Annual Epidemiological Report—Vaccine-preventable diseases—invasive bacterial diseases 2014. Published 11 Feb 2015. Available at: http://www.ecdc.europa.eu/en/publications/Publications/AER-VPDIBD-2014.pdf. Accessed November 2015.
- 2014. pdf. Accessed November 2015.

 European Centre for Disease Prevention and Control (ECDC). Vaccine
 Schedule: Recommended immunisations for meningococcal disease.

 Available at: http://vaccineschedule.ecdc.europa.eu/Pages/Scheduler.aspx.

 Accessed November 2015.

 Terranella, A., et al. Infect Drug Resist. 2011; 4: 161-169.

 doi:10.2147/IDR.S21545

 https://www.dovepress.com/meningococcal-conjugate-vaccines-
- tot. 10.2 F4/mbi.25 1349 https://www.dovepress.com/meningococcal-conjugate-vaccines-optimizing-global-impact-peer-reviewed-article-IDR Accessed February 2016.

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