

The Economic and Social Impact of Vaccines



Vaccinating children against flu protects them, their family and their community¹¹



HPV vaccination provides long-term protection against cervical cancer¹²



Vaccination against pneumococcal disease and shingles supports healthy ageing⁹



Before vaccination was introduced, rotavirus affected nearly every child under 5¹³

Vaccination supports good health at all stages of life^{9,14}

Vaccination can result in savings to the health budget.²

1947-2007:
The value to society of NHS immunisation programmes was £6.6 billion per year.²



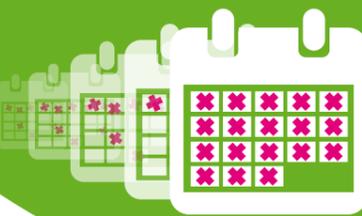
Immunisation is one of most cost-effective ways to save lives, improve health and ensure long-term prosperity.¹



Very high vaccine uptake is needed to control the most infectious diseases⁴



It's important to keep vaccinating⁴ to stop a disease from spreading.



6 million working days lost in the UK due to seasonal influenza every year.⁷

Vaccination has economic and social benefits beyond the prevention of specific diseases^{3,8}



The yearly global return on vaccination investment is estimated at 12%-18%.³

When vaccination rates fall outbreaks can occur^{4,5,6}



The 2012-13 measles outbreak in Wales resulted in^{5,6}:

- 1,202 reported cases
- 88 hospital admissions and 1 death
- 77,805 vaccine doses given in 8 months
- Over 100 schools and childcare establishments affected
- Costs of £470,000 for one health board



By promoting good health in children, vaccines help to increase cognitive skills, physical strength and performance at school.⁸



Vaccines help reduce the risk of catching infectious diseases when travelling.³



Costs associated with failure to effectively immunise include lost working days and expenditure on disability payments and social services.⁹

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1. Gavi. Value of Vaccination – cost-effective. Updated 2018. <https://www.gavi.org/about/value/cost-effective/> Last accessed June 2018.
2. Department of Health. Jenner's Legacy; Chief Medical Officer's Annual Report 2007 Chapter 5. Available at: http://webarchive.nationalarchives.gov.uk/20130105021745/http://www.dh.gov.uk/en/Publicationsandstatistics/Publications/AnnualReports/DH_086176 Last accessed June 2018.

3. Andre, FE et al; Bulletin of the World Health Organisation, Volume 8, Number 2, February 2008: 81-160: WHO bulletin: <http://www.who.int/bulletin/volumes/86/2/07-040089/en/> Last accessed March 2018.
4. NHS Choices. How vaccines work. Last reviewed April 2016. Available at: <https://www.nhs.uk/conditions/vaccinations/how-vaccines-work/> Last accessed June 2018.

5. Outbreak of Measles in Wales November 2012-July 2013, Report of the agencies which responded to the outbreak: <http://www.wales.nhs.uk/sitesplus/888/news/29688> Last accessed March 2018.
6. National Assembly for Wales, Health and Social Care Committee: Inquiry into Measles Outbreak 2013. Evidence from Abertawe Bro Morgannwg University Health Board: <http://www.senedd.assembly.wales/documents/s19074/Paper%201.pdf> Last accessed March 2018.

7. Economic Impact of seasonal influenza. European Scientific Working Group on Influenza (ESWI). Available at: <http://eswi.org/knowledge-center/economic-impact/> Last accessed March 2018.
8. Gavi. Value of Vaccination. Last updated 2018. Available at: <https://www.gavi.org/about/value/> Last accessed June 2018.

9. Sinclair D, Walker T. Immune response. adult immunisation in the UK. The International Longevity Centre Nov 2013. Available at: http://www.ilcuk.org.uk/index.php/publications/publication_details/immune_response_adult_immunisation_in_the_uk Last accessed June 2018.
10. Constenla D, Assessing the economic benefits of vaccines based on the health investment life course framework: a review of a broader approach to evaluate malaria vaccination. Vaccine 2015 Mar 24;33 (13):1527-40

11. NHS Choices. Children's flu vaccine. last updated April 2016. Available at: <https://www.nhs.uk/conditions/vaccinations/child-flu-vaccine/> Last accessed June 2018.
12. NHS Choices. HPV vaccine. last updated Oct 2017. Available at: <https://www.nhs.uk/conditions/vaccinations/hpv-human-papillomavirus-vaccine/> Last accessed June 2018.

13. Rotavirus. Oxford Vaccine Group last updated Jan 2018. Available at: <http://vk.ovg.ox.ac.uk/rotavirus> Last accessed: June 2018.
14. NHS Choices. UK Vaccine Schedule. Available at: <https://www.nhs.uk/conditions/vaccinations/?tabname=nhs-vaccination-schedule> Last accessed: July 2018