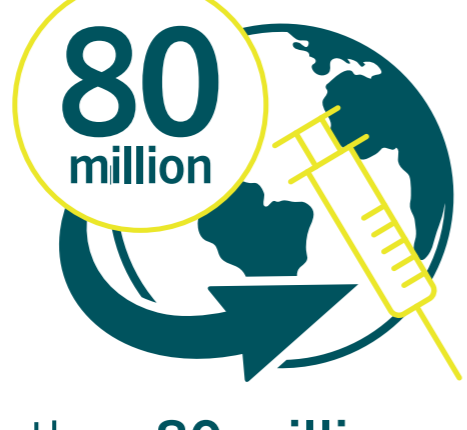
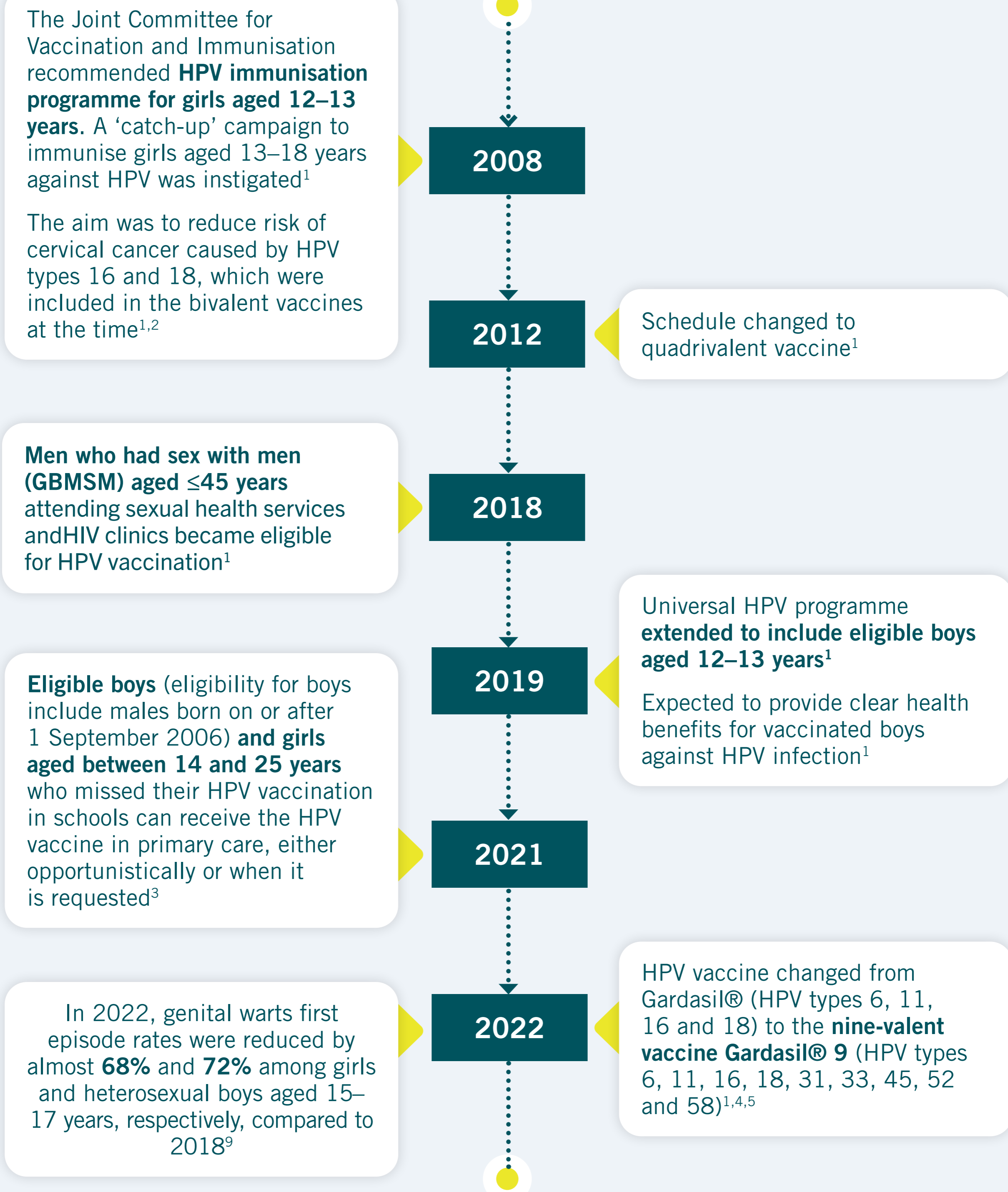


# What is the impact of HPV vaccination in the UK?

**GARDASIL 9**  
Human Papillomavirus  
9-valent Vaccine, Recombinant



## The history of Human Papillomavirus (HPV) vaccination



More than **80 million** people have been vaccinated against HPV worldwide since 2006<sup>6</sup>



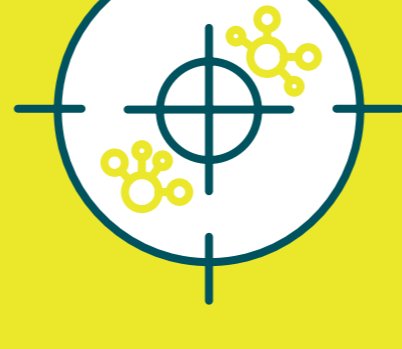
Over **10 million** doses of HPV vaccines have been given in the UK in over 10 years<sup>6</sup>



Cervical cancer rates have been **reduced by almost 90%** in women in their 20s who were offered the HPV vaccination at age 12 and 13 years in England, when compared with an unvaccinated population<sup>7\*</sup>



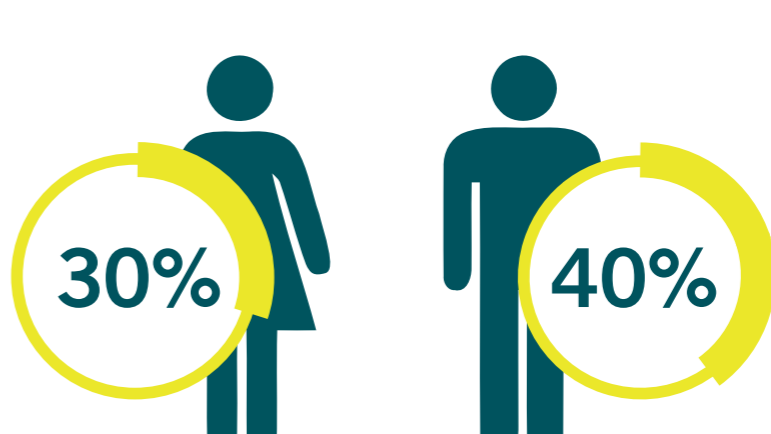
the national uptake of HPV vaccination in England for girls aged 12–13 years was consistently over 85%, with over **40% of Primary Care Trusts in England achieving at least 90%**<sup>10</sup>



## HPV vaccination: Why is there still an unmet need?



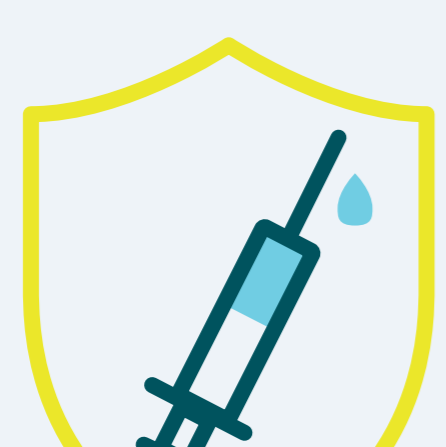
HPV vaccine uptake in the UK declined since the start of the **SARS-CoV-2 pandemic** in early 2020 due to school closures<sup>11</sup>



In the UK during 2022, over **30% of girls** and almost **40% of boys** aged 12–13 years have not received their HPV vaccine<sup>13</sup>

### HPV vaccine first dose uptake rates in Year 8 pupils aged 12–13 years:<sup>11,12,13,14</sup>

2019–2020	2020–2021	2021–2022	2022–2023
59.2% of girls 54.4% of boys <sup>11</sup>	76.6% of girls 71.0% of boys <sup>12</sup>	69.6% of girls 62.4% of boys <sup>13</sup>	71.3% of girls 65.2% of boys <sup>14</sup>



## Vaccination protects against certain HPV-related cancers and diseases



### Want to learn more?

Click on the link below to access more resources on HPV including:

- What is HPV and its associated risks?
- How can you improve HPV vaccination uptake?
- What strategies can GP practices implement to increase HPV vaccination rates?

Clicking the link above will take you to a promotional MSD webpage

\*2021 observational study by Falcaro et al. This observational study used modelling data from a total of 13.7 million years of follow up of women aged 20 to younger than 30 years old, across three different cohorts<sup>7</sup>

Gardasil® 9 is indicated for active immunisation of individuals from the age of 9 years against the following HPV diseases:<sup>4,5</sup>

- Premalignant lesions and cancers affecting the cervix, vulva, vagina and anus caused by vaccine HPV types
- Genital warts (*Condyloma acuminata*) caused by specific HPV types

Please refer to the Summary of Product Characteristics for further information prior to making any prescribing decisions.<sup>4,5</sup>

Adverse events should be reported. Reporting forms and information can be found at <https://yellowcard.mhra.gov.uk/> or search MHRA Yellow Card in the Google Play or Apple App Store. Adverse events should also be reported to Merck Sharp & Dohme Limited (Tel: 0208 154 8000). By clicking the above link, you will leave the MSD website and be taken to the MHRA website.

References: 1. UK Health Security Agency. Human Papillomavirus (HPV): the green book, chapter 18a. March 2022. Available at: <https://www.gov.uk/government/publications/human-papillomavirus-hpv-the-green-book-chapter-18a>. Last accessed: November 2024. 2. Cervarix® (Human Papillomavirus vaccine [Types 16, 18]) (Recombinant, adjuvanted, adsorbed). Summary of Product Characteristics. Available at: <https://www.ema.europa.eu/en/medicines/human/EPAR/cervarix>. Last accessed: November 2024. 3. NHS England and NHS Improvement. GP letter on vaccination and immunisation changes for 2021/22. March 2021. Available at: [https://www.england.nhs.uk/wp-content/uploads/2021/03/B0434\\_Update-on-vaccination-and-immunisation-changes-for-202122-v4.pdf](https://www.england.nhs.uk/wp-content/uploads/2021/03/B0434_Update-on-vaccination-and-immunisation-changes-for-202122-v4.pdf). Last accessed: November 2024. 4. Gardasil® 9 (Human Papillomavirus 9-valent Vaccine (Recombinant, adsorbed). Summary of Product Characteristics (SPC) for GB. Available at: <https://www.emcpi.com/pi/32240>. Last accessed: November 2024. 5. Gardasil® 9 (Human Papillomavirus 9-valent Vaccine (Recombinant, adsorbed). Summary of Product Characteristics (SPC) for NI. Available at: <https://www.emcpi.com/pi/ni/496>. Last accessed: November 2024. 6. UK Health Security Agency. Information on HPV vaccination: Available at: <https://www.gov.uk/government/publications/hpv-vaccine-vaccination-guide-leaflet/information-on-hpv-vaccination#:~:text=More%20than%20280%20million%20doses,10%20million%20in%20the%20UK>. Last accessed: November 2024. 7. Falcaro M, et al. Lancet. 2021; 399:2084–2092. 8. Public Health England. Surveillance of type-specific HPV in sexually active young females in England, to end 2018. January 2020. Available at: [https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment\\_data/file/858872/hpr0220\\_HPV\\_2018.pdf](https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/858872/hpr0220_HPV_2018.pdf). Last accessed: November 2024. 9. Public Health England. Sexually Transmitted Infections and Chlamydia Screening in England Report. 2022. Available at: <https://www.gov.uk/government/statistics/sexually-transmitted-infections-stis-annual-data-tables/sexually-transmitted-infections-and-screening-for-chlamydia-in-england-2022-report>. Last accessed: November 2024. 10. Public Health England. Human papillomavirus (HPV) immunisation programme review: 2008 to 2014. March 2015. Available at: <https://www.gov.uk/government/publications/human-papillomavirus-hpv-immunisation-programme-review-2008-to-2014>. Last accessed: November 2024. 11. UK Health Security Agency. Human papillomavirus (HPV) vaccine coverage estimates in England: 2019 to 2020. December 2021. Available at: [https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment\\_data/file/927694/hpr1920\\_HPV-vc.pdf](https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/927694/hpr1920_HPV-vc.pdf). Last accessed: November 2024. 12. UK Health Security Agency. Human papillomavirus (HPV) vaccine coverage estimates in England: 2020 to 2021. December 2021. Available at: <https://www.gov.uk/government/statistics/human-papillomavirus-hpv-vaccine-coverage-estimates>. Last accessed: November 2022. 13. UK Health Security Agency. Human papillomavirus (HPV) vaccine coverage estimates in England: 2021 to 2022. December 2022. Available at: <https://www.gov.uk/government/statistics/human-papillomavirus-hpv-vaccine-coverage-estimates-in-england-2021-to-2022>. Last accessed: August 2023. 14. UKHSA Human papillomavirus (HPV) vaccination coverage in adolescents in England: 2022 to 2023. Human papillomavirus (HPV) vaccination coverage in adolescents in England: 2022 to 2023 - GOV.UK (www.gov.uk) Last accessed May 2024