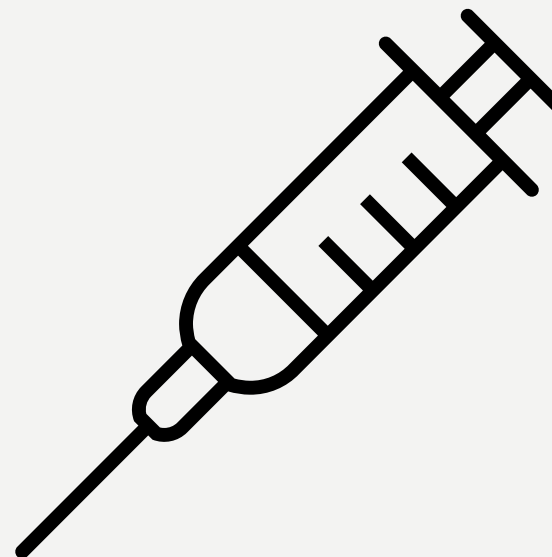


**IS IT A CODING
ISSUE?**

IS IT REALLY IMPORTANT?

WHAT TOOLS DO WE HAVE?



UK Health Security Agency

Vaccination of individuals with uncertain or incomplete immunisation status

For Wales: Green Book. See www.gov.uk/government/uploads/system/uploads/attachment_data/file/447847/green-book_-_for_other_countries_-_schedule_for_immunisation_status.pdf For other countries' schedules, see immunisation.hk.org and aotearoa.govt.nz/immunisation-schedule/

<p>Infants from two months of age up to first birthday</p> <p>DTaP/IPV/Hib/HepB^{III} + MenB^{III} + rotavirus^{II} <i>Four week gap</i> DTaP/IPV/Hib/HepB^{III} + PCV13^I + rotavirus^{II} <i>Four week gap</i> DTaP/IPV/Hib/HepB^{III} + MenB^{III} <i>Four week gap</i></p> <p>^IA child who has already received 1 or more doses of primary diphtheria, tetanus, polio and pertussis should complete the 3 dose course with DTaP/IPV/Hib/HepB^{III}. Any missing doses of Hib and/or HepB can be given as Hib/MenC and/or, monovalent hepatitis B, at 4 week intervals</p> <p>^{II}Doses of MenB should ideally be given 8 weeks apart. They can be given 4 weeks apart in order for the primary MenB immunisation schedule to be completed before the first birthday if possible (i.e. if schedule started after 10m of age)</p> <p>^{III}First dose of rotavirus vaccine to be given only if infant is more than 6 weeks and under 16 weeks and second dose to be given only if infant is less than 24 weeks old</p> <p>Infants who are aged 12 weeks or over when starting their primary schedule can be given their single infant priming dose of PCV13 with their first set of primary immunisations. If a child has received PCV13 vaccine abroad, they should be offered 1 dose of PCV13 (at least 4 weeks after PCV13 was given)</p> <p>Boosters + subsequent vaccination</p> <p>As per UK schedule ensuring at least a 4 week interval between primary DTaP/IPV/Hib/HepB and the booster Hib/MenC dose, and a minimum 4 week interval between MenB and PCV13 priming and booster doses.</p>	<p>Children from first up to second birthday</p> <p>DTaP/IPV/Hib/HepB^{III} + PCV13^I + Hib/MenC^{II} + MenB^{III} + MMR <i>Four week gap</i> DTaP/IPV/Hib/HepB^{III} <i>Four week gap</i> DTaP/IPV/Hib/HepB^{III} + MenB^{III} <i>Four week gap</i></p> <p>^IDTaP/IPV/Hib/HepB is now the only suitable vaccine containing high dose tetanus, diphtheria and pertussis antigen for primary children of this age. Children born from D1/D17 who received primary vaccines without HepB should be opportunistically offered a 3-dose course of monovalent HepB vaccine. If they are in a high risk group or are exposed to hepatitis B, they should be proactively offered a hepatitis B vaccine course</p> <p>^{II}All un- or incompletely immunised children only require 1 dose of Hib, Men C (with teenage booster) and PCV13 over the age of 1 year. It does not matter if 2 Hib-containing vaccines are given at the first appointment or if the child receives additional Hib at subsequent appointments if DTaP/IPV/Hib/HepB vaccine is given. If a child has received PCV13 vaccine abroad, they should be offered 1 dose of PCV13 (at least 4 weeks after PCV13 was given)</p> <p>^{III}Children who received less than 2 doses of MenB in the first year of life should receive 2 doses of MenB in their second year of life at least 6 weeks apart. Doses of MenB can be given 4 weeks apart if necessary to ensure the 2 dose schedule is completed (i.e. if schedule started at 20m of age)</p> <p>Boosters + subsequent vaccination</p> <p>As per UK schedule</p>	<p>Children from second up to tenth birthday</p> <p>DTaP/IPV/Hib/HepB^{III} + Hib/MenC^{II} + MMR <i>Four week gap</i> DTaP/IPV/Hib/HepB^{III} + MMR <i>Four week gap</i> DTaP/IPV/Hib/HepB^{III} <i>Four week gap</i></p> <p>^IDTaP/IPV/Hib/HepB is now the only suitable vaccine containing high dose tetanus, diphtheria and pertussis antigen for primary children of this age. Children born from D1/D17 who received primary vaccines without HepB should be opportunistically offered a 3-dose course of monovalent HepB vaccine. If they are in a high risk group or are exposed to hepatitis B, they should be proactively offered a hepatitis B vaccine course</p> <p>^{II}All un- or incompletely immunised children only require 1 dose of Hib and Men C (with teenage booster) over the age of 1 year. It does not matter if 2 Hib-containing vaccines are given at the first appointment or if the child receives additional Hib at subsequent appointments if DTaP/IPV/Hib/HepB vaccine is given</p> <p>Boosters + subsequent vaccination</p> <p>First booster of dTaP/IPV can be given as early as 1 year following completion of primary course to re-establish on routine schedule. Additional doses of dTaP-containing vaccines given under 3 years of age in some other countries do not count as a booster to the primary course in the UK and should be discounted. Subsequent vaccination – as per UK schedule</p>	<p>From tenth birthday onwards</p> <p>Td/IPV^I + MenACWY^{II} + MMR <i>Four week gap</i> Td/IPV + MMR <i>Four week gap</i> Td/IPV <i>Four week gap</i></p> <p>^IThose aged 10 years up to 25 years who have never received a MenC-containing vaccine should be offered MenACWY</p> <p>^{II}Those aged 10 years up to 25 years may be eligible or may shortly become eligible for MenACWY usually given around 14y of age. Those born on/after 1/8/1986 remain eligible for MenACWY until their 25th birthday</p> <p>Boosters + subsequent vaccination</p> <p>First booster of Td/IPV: Preferably 5 years following completion of primary course</p> <p>Second booster of Td/IPV: Ideally 10 years (minimum 5 years) following first booster</p> <p>HPV vaccine</p> <ul style="list-style-type: none"> • all females (born on/after 01/09/95) and males (born on/after 01/09/06) remain eligible for HPV vaccine up to their 25th birthday on the accelerated programme • eligible immunocompetent individuals aged 11 to 20 years only require a single dose of HPV vaccine • eligible individuals who are HIV positive or immunosuppressed should be offered a 3-dose schedule (i.e. 1, 4, 6 months) • for details of GB/MSM HPV vaccination programme, please see GreenBook.BEV.attracta.net • any dose of Cervarix, Gardasil or Gardasil 9 should be considered valid if previously vaccinated or vaccinated abroad <p>Shingles vaccine</p> <ul style="list-style-type: none"> • severely immunosuppressed individuals from 50 years of age (eligibility as defined in the GreenBook Shingles chapter 218) 1 dose of Shingrix vaccine 8 weeks to 6 months apart; no upper age limit to start or complete the course • immunocompetent individuals from the 65th and 70th birthday (see GreenBook Shingles chapter 218) 2 doses of Shingrix vaccine 6 months to 12 months apart. Once these individuals have become eligible, they remain eligible until their 80th birthday. The second dose of Shingrix vaccine can be given up to 180 days to those who have commenced but not completed the course • immunocompetent individuals aged from 70 years who were previously eligible for shingles vaccination before 01/09/21 should receive Zostavax (unless contraindicated) until stocks of this vaccine are exhausted, after which Shingrix should be offered
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General principles

- unless there is a documented or reliable verbal vaccine history, individuals should be assumed to be unimmunised and a full course of immunisations planned
- individuals coming to UK part way through their immunisation schedule should be transferred onto the UK schedule and immunised as appropriate for age
- if the primary course has been started but not completed, resume the course – no need to repeat doses or restart course
- plan catch-up immunisation schedule with minimum number of visits and within a minimum possible time-scale – aim to protect individual in shortest time possible

Flu vaccine (during flu season)

- those aged 65yrs and older although recommendations may change annually so always check [Annual Flu Letter](http://Annual.Flu.Letter)
- children eligible for the current season's catch-up programme (see [Annual Flu Letter](http://Annual.Flu.Letter) for date of first range)
- those aged 6 months and older in the defined clinical risk groups (see [GreenBook Influenza chapter](http://GreenBook.Influenza.chapter))

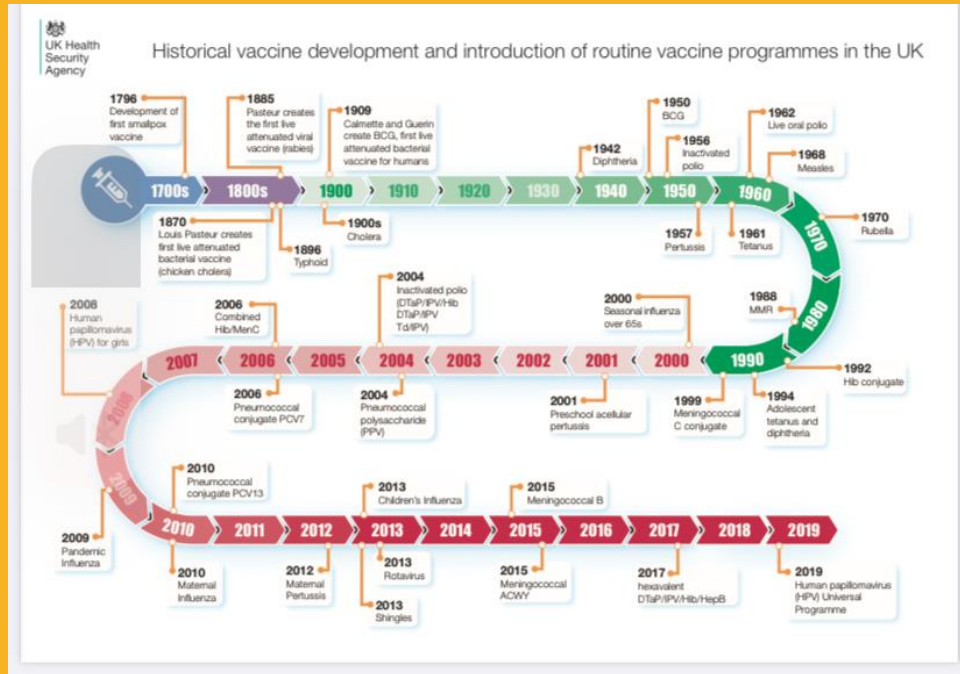
Pneumococcal polysaccharide vaccine (PPV)

- those aged 65yrs and older
- those aged 2yrs and older in the defined clinical risk groups (see [GreenBook Pneumococcal chapter](http://GreenBook.Pneumococcal.chapter))

* If an individual has received any IPV in another country since April 2016, these doses should be discounted as it is unlikely that they will protect against all 3 polio types. Effective from 1 September 2021

Most countries who still use OPV have a mixed OPV schedule as all 3 polio IPV doses have been removed for risk, no additional IPV doses are needed. BDG and Hepatitis B vaccines for those at high risk should be given as per Green Book recommendations. Individuals in clinical risk groups may require additional vaccinations. Please check [GreenBook chapters](http://GreenBook.chapters).

ROUTINE VACCINATION TIMELINE





**SHOULD WE MAKE
ASSUMPTIONS?
MOST PEOPLE
WILL BE UP TO
DATE, SURELY?**

REGIONAL VARIATIONS

London and the SE have routinely given MMR2 at 18/12

There was a polio catch-up campaign in London in 2022-23 giving additional protection to children <11y

INTERNATIONAL VARIATIONS

- Many countries give a dose of multivalent vaccine at 18m, with a further dose intended at 6y. How are these doses coded?



**QUALITY OUTCOME
FRAMEWORK: HAS THIS
HELPED OR HINDERED?**



ARDEN'S PROMPTS

THESE ARE USEFUL, BUT YOU CAN'T RELY
ON THEM



GP2GP CODING FROM SYSTMONE TO EMIS

A hand is shown holding a syringe with a vial attached. The background is a blurred image of a person's face, suggesting a medical or healthcare setting. The text is overlaid on the top left of the image.

- Automatically codes Pneumococcal polysaccharide vaccine as the first pneumococcal conjugate vaccine, resulting in potential revaccination.

UP TO DATE WITH IMMUNISATIONS...

- When this code is implemented, it will reduce prompts for any vaccines which have been missed. Patients' perception is that they are up to date, but are they as informed as we are?



IS CURRENT CODING ACCURATE?

- Could there be a legacy effect if patients' immunisation records are not checked on registering with a new practice?

**UKHSA GUIDANCE
ON DISCOUNTING
ORAL POLIO
VACCINE GIVEN
SINCE APRIL 2016**

**SO EVEN THE CHILDREN THAT SEEM
TO BE UP TO DATE MAY NEED
FURTHER VACCINES.**



SO WHO DOES YOUR CODING?

AND IS THERE ANY ROOM FOR
IMPROVEMENT?

