



UKHSA publications gateway number: GOV-16448

Pertussis Vaccine Patient Group Direction (PGD)

This PGD is for the administration of low dose diphtheria, tetanus and acellular pertussis-containing vaccine, with or without inactivated poliomyelitis (Tdap or dTaP/IPV) to pregnant women from week 16 of pregnancy, in accordance with the national immunisation programme and to pertussis contacts aged 10 years and over in accordance with [Guidelines for the Public Health Management of Pertussis in England](#) and [Guidelines for the Public Health Management of Pertussis Incidents in Healthcare Settings](#).

This PGD is for the administration of Tdap or dTaP/IPV vaccine by registered healthcare practitioners identified in [Section 3](#), subject to any limitations to authorisation detailed in [Section 2](#).

Reference no: Pertussis vaccine PGD
Version no: v7.00
Valid from: 1 July 2024
Review date: 1 January 2027
Expiry date: 1 July 2027

The UK Health Security Agency (UKHSA) has developed this PGD to facilitate the delivery of publicly-funded immunisation in England in line with national recommendations.

Those using this PGD must ensure that it is organisationally authorised and signed in Section 2 by an appropriate authorising person, relating to the class of person by whom the product is to be supplied, in accordance with Human Medicines Regulations 2012 (HMR2012)¹. **The PGD is not legal or valid without signed authorisation in accordance with [HMR2012 Schedule 16 Part 2](#).**

Authorising organisations must not alter, amend or add to the clinical content of this document (sections 4, 5 and 6); such action will invalidate the clinical sign-off with which it is provided. In addition, authorising organisations must not alter section 3 (Characteristics of staff).

Sections 2 and 7 can be edited within the designated editable fields provided, but only for the purposes for which these sections are provided, namely the responsibilities and governance arrangements of the NHS organisation using the PGD. The fields in section 2 and 7 cannot be used to alter, amend or add to the clinical content. Such action will invalidate the UKHSA clinical content authorisation which is provided in accordance with the regulations.

Operation of this PGD is the responsibility of commissioners and service providers. The final authorised copy of this PGD should be kept by the authorising organisation completing Section 2 for 25 years after the PGD expires if the PGD relates to children only, or adults and children. Provider organisations adopting authorised versions of this PGD should also retain copies for the periods specified above.

Individual practitioners must be authorised by name, under the current version of this PGD before working according to it.

Practitioners and organisations must check that they are using the current version of the PGD. Amendments may become necessary prior to the published expiry date. Current versions of UKHSA PGD templates for authorisation can be found from: [Immunisation patient group direction \(PGD\) templates](#)

¹ This includes any relevant amendments to legislation

Any concerns regarding the content of this PGD should be addressed to:
immunisation@ukhsa.gov.uk




Enquiries relating to the availability of organisationally authorised PGDs and subsequent versions of this PGD should be directed to: Contacts listed on page 6 of this PGD

Change history

| Version number | Change details | Date |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| V1.00 to V4.00 | See earlier versions of this PGD for details of change history | 15 December 2015 to 11 January 2019 |
| V5.00 | PHE Pertussis PGD amended to: <ul style="list-style-type: none"> • amend to off-label section to reflect mention of subcutaneous administration in product literature • clarify wording for dose and frequency of administration for contacts • simplify supplies section • include minor rewording, layout and formatting changes for clarity and consistency with other PHE PGD templates | 18 February 2021 |
| V6.00 | UKHSA Pertussis PGD amended to: <ul style="list-style-type: none"> • replace 'Public Health England' and 'PHE' with 'UKHSA', including branding and updated contact details. • replace NHS England and NHS Improvement (NHSE/I) with NHS England (NHSE) following completion of merger on 1 July 2022 • include a reminder of the need for resuscitation facilities in the event of anaphylaxis • clarify management of pregnant women who have been vaccinated with a pertussis-antigen before and after week 16 of pregnancy, or who have already been infected with whooping cough • clarify management for individuals with a prior history of encephalopathy and encephalitis within 7 days of vaccination | 3 March 2023 |
| V7.00 | UKHSA Pertussis vaccine PGD amended to: <ul style="list-style-type: none"> • include details of a new licensed vaccine, ADACEL[®] • recommend ADACEL[®] is preferentially given over Boostrix-IPV[®] and Repevax[®] in the maternal vaccination programme, except where an individual has a history of severe allergy to latex, such as anaphylaxis (see Chapter 6 of the Green Book), or ADACEL[®] is not locally available at the time of vaccination • remove the recommendation to defer vaccination in individuals with a history of developing encephalopathy or encephalitis within 7 days of receiving a vaccine containing either pertussis, diphtheria, polio or tetanus and where resolution of symptoms took longer than 7 days, in line with Chapter 30 of the Green Book • administration in those with a prior history of encephalopathy or encephalitis as outlined above is off-label but in line with Green Book recommendations • include updated temperature excursion information • include minor rewording, formatting and layout changes for clarity and consistency with the UKHSA PGD template | 21 May 2024 |

1. PGD development

This PGD has been developed by the following health professionals on behalf of UKHSA:

| Developed by: | Name | Signature | Date |
|----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------|
| Pharmacist (Lead Author) | Christina Wilson Lead Pharmacist – Immunisation and Vaccine Preventable Diseases Division, UKHSA |  | 14 May 2024 |
| Doctor | Dr Gayatri Amirthalingam Deputy Director of Public Health Programmes and Consultant Medical Epidemiologist - Immunisation and Vaccine Preventable Diseases Division, UKHSA |  | 14 May 2024 |
| Registered Healthcare Professional (Chair of Expert Panel) | Greta Hayward Consultant Midwife– Immunisation and Vaccine Preventable Diseases Division, UKHSA |  | 14 May 2024 |

This PGD has been peer reviewed by the UKHSA Immunisations PGD Expert Panel in accordance with the UKHSA PGD Policy. It has been ratified by the UKHSA Medicines Governance Committee.

Expert Panel

| Name | Designation |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Nicholas Aigbogun | Consultant in Communicable Disease Control, Yorkshire and Humber Health Protection Team, UKHSA |
| Alison Campbell | Screening and Immunisation Coordinator, Clinical, NHSE Midlands |
| Rosie Furner | Specialist Pharmacist, Medicines Governance, Patient Group Directions and Medicines Mechanisms, NHS Specialist Pharmacy Service |
| Ed Gardner | Advanced Paramedic Practitioner / Emergency Care Practitioner, Primary Care Based, Southbourne Surgery |
| Gemma Hudspeth | Senior Health Protection Practitioner, North East Health Protection Team Regions Directorate, UKHSA |
| Michelle Jones | Principal Medicines Optimisation Pharmacist, NHS Bristol North Somerset and South Gloucestershire Integrated Care Board |
| Jacqueline Lamberty | Medicines Governance Consultant Lead Pharmacist, UKHSA |
| Elizabeth Lockett | Senior Screening and Immunisation Manager, NHSE South West |
| Vanessa MacGregor | Consultant in Communicable Disease Control, East Midlands Health Protection Team, UKHSA |
| Lesley McFarlane | Lead Immunisation Nurse Specialist, Immunisation and Vaccine Preventable Diseases Division, UKHSA |
| Nikki Philbin | Screening and Immunisation Manager, Vaccination and Screening Programmes, NHSE Midlands |
| Tushar Shah | Lead Pharmacy Adviser, NHSE London |
| Leigh-Anne Spinelli | Lead Immunisation Nurse, Maternity Services, Northampton General Hospital, University Hospitals of Northamptonshire NHS Group |

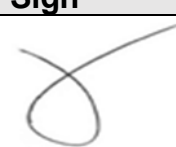
2. Organisational authorisations

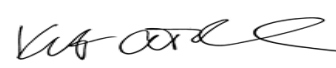

The PGD is not legally valid until it has had the relevant organisational authorisation.

It is the responsibility of the organisation that has legal authority to authorise the PGD, to ensure that all legal and governance requirements are met. The authorising body accepts governance responsibility for the appropriate use of the PGD.

NHSE North East and Yorkshire authorises this PGD for use by the services or providers listed below:

| Authorised for use by the following organisations and/or services |
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| NHS England (NHSE) commissioned immunisation services or NHS Trust providing immunisation services. |
| Limitations to authorisation |
| Authorisation is limited to those registered practitioners listed in Section 3 who are employed by organisations/providers commissioned by NHSE North East and Yorkshire (NEY) to deliver immunisation programmes within the whole of the NHSE region of North East and Yorkshire |

| Organisational approval (legal requirement) | | | |
|---------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------------------------------------------------------------------------|---------------------------|
| Role | Name | Sign | Date |
| Deputy Medical Director: System Improvement and Professional Standards NHS England - North East and Yorkshire | Dr James Gossow |  | 30 th May 2024 |

| Additional signatories according to locally agreed policy | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------------------------------------------------------------------------|------------------------------|
| Role | Name | Sign | Date |
| Medicines Optimisation Pharmacist Lead, NHS NECS NHS England – North East and Yorkshire | Kurt Ramsden |  | 30 th May 2024 |
| Screening and Immunisation Place Lead Public Health Programme Team – Yorkshire and the Humber NHS England (NE and Yorkshire) | Laura Brown |  | 30 th May 2024 |

Local enquiries regarding the use of this PGD may be directed to to your local screening and immunisation teams. See area-specific contacts below:

For North East and North Cumbria Area (i.e. Northumberland, Tyne & Wear, Durham Darlington and Tees and North Cumbria) use the following:

NHS England Screening and Immunisation Team:

email england.cane.screeningimms@nhs.net

or NECS Medicine Optimisation Pharmacists: Kurt Ramsden: kurtramsden@nhs.net

or Sue White: sue.white14@nhs.net

Please note - All North East and North Cumbria PGDs can be found at:

<https://medicines.necsu.nhs.uk/resources/patient-group-directions/>

For Yorkshire and Humber Area use the following:

West Yorkshire - england.wysit@nhs.net

South Yorkshire and Bassetlaw - england.sybsit@nhs.net

North Yorkshire and Humber ENGLAND.NYAHSIT@nhs.net

or the Health Protection Team Acute Response Centre (ARC): Contact Number: 0113 3860 300.

Please note - All Yorkshire and Humber PGDs can be found at: <https://www.england.nhs.uk/north-east-yorkshire/our-work/information-for-professionals/pgds/>.

[Section 7](#) provides a practitioner authorisation sheet. Individual practitioners must be authorised by name to work to this PGD. Alternative practitioner authorisation sheets may be used where appropriate in accordance with local policy, but this should be an individual agreement or a multiple practitioner authorisation sheet as included at the end of this PGD.

3. Characteristics of staff

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| <p>Qualifications and professional registration</p> | <p>Registered professional with one of the following bodies:</p> <ul style="list-style-type: none"> • nurses and midwives currently registered with the Nursing and Midwifery Council (NMC) • pharmacists currently registered with the General Pharmaceutical Council (GPhC) (Note: This PGD is not relevant to privately provided community pharmacy services) • paramedics, physiotherapists and radiographers currently registered with the Health and Care Professions Council (HCPC) <p>The practitioners above must also fulfil the Additional requirements detailed below.</p> <p>Check Section 2 (Limitations to authorisation) to confirm whether all practitioners listed above have organisational authorisation to work under this PGD.</p> |
| <p>Additional requirements</p> | <p>Additionally, practitioners:</p> <ul style="list-style-type: none"> • must be authorised by name as an approved practitioner under the current terms of this PGD before working to it • must have undertaken appropriate training for working under PGDs for supply and administration of medicines • must be competent in the use of PGDs (see NICE Competency framework for healthcare professionals using PGDs) • must be familiar with the vaccine products and alert to changes in their Summary of Product Characteristics (SPC), Immunisation Against Infectious Disease (the Green Book), and national and local immunisation programmes • must have undertaken training appropriate to this PGD as required by local policy and in line with the National Minimum Standards and Core Curriculum for Immunisation Training • must be competent to undertake immunisation and to discuss issues related to immunisation • must be competent in the handling and storage of vaccines and management of the cold chain • must be competent in the recognition and management of anaphylaxis • must have access to the PGD and associated online resources • should fulfil any additional requirements defined by local policy <p>The individual practitioner must be authorised by name, under the current version of this PGD before working according to it.</p> |
| <p>Continued training requirements</p> | <p>Practitioners must ensure they are up to date with relevant issues and clinical skills relating to immunisation and management of anaphylaxis, with evidence of appropriate Continued Professional Development (CPD).</p> <p>Practitioners should be constantly alert to any subsequent recommendations from UKHSA, NHSE and other sources of medicines information.</p> <p>Note: The most current national recommendations should be followed, but a Patient Specific Direction (PSD) may be required to administer the vaccine in line with updated recommendations that are outside the criteria specified in this PGD.</p> |

4. Clinical condition or situation to which this PGD applies

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| <p>Clinical condition or situation to which this PGD applies</p> | <p>Indicated for the</p> <ul style="list-style-type: none"> immunisation of women from 16 weeks² of pregnancy in accordance with the recommendations given in Chapter 24 of Immunisation Against Infectious Disease: The Green Book and immunisation of contacts of pertussis, from 10 years of age, in accordance with Guidelines for the Public Health Management of Pertussis in England or Guidelines for the Public Health Management of Pertussis Incidents in Healthcare Settings |
| <p>Criteria for inclusion</p> | <ul style="list-style-type: none"> pregnant women from 16 weeks of pregnancy mothers with an infant less than 2 months of age who did not receive pertussis vaccination during their pregnancy contacts of pertussis, from 10 years of age for whom pertussis vaccination is recommended in accordance with Guidelines for the Public Health Management of Pertussis in England or Guidelines for the Public Health Management of Pertussis Incidents in Healthcare Settings |
| <p>Criteria for exclusion³</p> | <p>Individuals who have not given valid consent (or for whom a best-interests decision in accordance with the Mental Capacity Act 2005, has not been obtained). For further information on consent, see Chapter 2 of the Green Book. Several resources are available to inform consent (see written information to be given to individual, parent or carer section).</p> <p>Individuals who:</p> <ul style="list-style-type: none"> are less than 16 weeks pregnant (unless identified as a contact at risk of transmitting pertussis to vulnerable individuals) have been given a dose of diphtheria, tetanus, polio and pertussis (DTaP/IPV)/(dTaP/IPV), diphtheria, tetanus and poliomyelitis (Td/IPV) or diphtheria, tetanus and pertussis (Tdap)-containing vaccine in the last 4 weeks have had a confirmed anaphylactic reaction to a previous dose of diphtheria, tetanus, pertussis or poliomyelitis-containing vaccine, including any conjugate vaccines where diphtheria or tetanus toxoid is used in the conjugate have had a confirmed anaphylactic reaction to any vaccine component or residue from the manufacturing process, including latex, formaldehyde, glutaraldehyde, streptomycin, neomycin, polymyxin and bovine serum albumin (refer to relevant SPC) are suffering from acute severe febrile illness (the presence of a minor infection is not a contraindication for immunisation) are defined as a contact of pertussis, aged under 10 years and are unimmunised or partially immunised. Refer to the dTaP/IPV PGD and DTaP/IPV/Hib/HepB PGD as required to bring vaccination up to date. have an unstable neurological condition, including uncontrolled epilepsy, without an identifiable cause require immunisation against pertussis for solely occupational health reasons, as identified in Occupational pertussis vaccination of healthcare workers. Individuals requiring the vaccine for occupational health reasons may only be vaccinated under this PGD if they are also eligible under the criteria for inclusion. |

² From 16 weeks of pregnancy means a gestation of 16 weeks plus 0 days (16⁺⁰) or more.

³ Exclusion under this PGD does not necessarily mean the vaccine is contraindicated, but it would be outside its remit and another form of authorisation will be required.

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| <p>Cautions including any relevant action to be taken</p> | <p>Facilities for management of anaphylaxis should be available at all vaccination sites (see Chapter 8 of the Green Book and advice issued by the Resuscitation Council UK).</p> <p>Women who are less than 16 weeks pregnant, requiring protection without delay, such as following a tetanus-prone wound, or in the management of a diphtheria or poliomyelitis exposure should be given Td/IPV instead. Ensure a minimum 4 week gap is observed prior to offering their pertussis vaccine, from week 16 of pregnancy.</p> <p>In cases of inadvertent administration of Revaxis® (Td/IPV), a dose of Tdap (or dTaP/IPV if Tdap is not suitable or otherwise available) should be given as soon as the error is realised, and local procedures for medicines error reporting should be followed. More information can be found in Pertussis (whooping cough) vaccination programme for pregnant women: information for healthcare practitioners.</p> <p>The immunogenicity of the vaccine could be reduced in immunosuppressed subjects. However, vaccination should proceed in accordance with the national recommendations.</p> <p>The tip caps of ADACEL® prefilled syringes contain a natural rubber latex derivative. ADACEL® must not be given to those with a history of severe allergy to latex, such as anaphylaxis-see Green Book Chapter 6. Either Boostrix-IPV® or Repevax® should be offered as an alternative, whichever is available.</p> <p>Syncope (fainting) can occur following, or even before, any vaccination especially in adolescents as a psychogenic response to the needle injection. This can be accompanied by several neurological signs such as transient visual disturbance, paraesthesia and tonic-clonic limb movements during recovery. It is important that procedures are in place to avoid injury from faints.</p> |
| <p>Action to be taken if the patient is excluded</p> <p>(continued over page)</p> | <p>If less than 16 weeks pregnant, delay vaccination until indicated, unless post-exposure vaccination is required (as outlined elsewhere in this PGD).</p> <p>In case of postponement due to acute severe febrile illness, advise when the individual can be vaccinated and ensure another appointment is arranged.</p> <p>Individuals with an unstable neurological condition should have immunisation deferred to avoid incorrect attribution of any change, whilst balancing the risk of deferral against the risk of preventable infection, Vaccination should be given promptly once the diagnosis is clear, the expected course of the condition is known, or both. In both instances, a PSD must be used.</p> <p>Individuals identified as requiring immunisation against pertussis for solely occupational health reasons, in line with Occupational pertussis vaccination of healthcare workers, should be referred back to their employer for appropriate management, as occupational health schemes are not an NHS commissioned service. Should the individual subsequently become eligible under the criteria for inclusion, they may be immunised under this PGD</p> <p>Seek appropriate advice from the local Screening and Immunisation Team, the local Health Protection Team or the individual's clinician where appropriate.</p> <p>The risk to the individual of not being immunised must be taken into account.</p> |

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| <p>Action to be taken if the patient is excluded (continued)</p> | <p>Document the reason for exclusion and any action taken in the individual's clinical records.</p> <p>Inform or refer to the GP or a prescriber as appropriate.</p> |
| <p>Action to be taken if the patient or carer declines treatment</p> | <p>Informed consent from the individual, or a person legally able to act on the individual's behalf, must be obtained for each administration.</p> <p>Advise the individual, parent or carer about the protective effects of the vaccine, the risks of infection and potential complications.</p> <p>Document advice given and the decision reached.</p> <p>Inform or refer to the GP or a prescriber as appropriate.</p> |
| <p>Arrangements for referral for medical advice</p> | <p>As per local policy.</p> |

5. Description of treatment

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| <p>Name, strength and formulation of drug</p> | <p>Low dose diphtheria, tetanus and pertussis (acellular component) vaccine (adsorbed):</p> <ul style="list-style-type: none"> • ADACEL[®] suspension for injection in pre-filled syringe (reduced antigen content), Tdap <p>Low dose diphtheria, tetanus, pertussis (acellular, component) and poliomyelitis (inactivated) vaccine (adsorbed):</p> <ul style="list-style-type: none"> • Boostrix-IPV[®], suspension for injection in pre-filled syringe (reduced antigen content), dTaP/IPV • Repevax[®], suspension for injection in pre-filled syringe (reduced antigen content), dTaP/IPV <p>Except for individuals with a documented history of severe allergy to latex, ADACEL[®] is the preferred vaccine to offer in the maternal pertussis programme, in line with JCVI advice to offer a non IPV-containing pertussis vaccine.</p> <p>Otherwise, if ADACEL[®] is not locally available to offer at the time of the appointment, Boostrix-IPV[®] or Repevax[®] may be given.</p> |
| <p>Legal category</p> | <p>Prescription only medicine (POM).</p> |
| <p>Black triangle ▼</p> | <p>No.</p> |
| <p>Off-label use</p> | <p>Vaccines should be stored according to the conditions detailed in the storage section below. However, in the event of an inadvertent or unavoidable deviation of these conditions, refer to Vaccine Incident Guidance. Where vaccines are assessed in accordance with these guidelines as appropriate for continued use, this would constitute off-label administration under this PGD.</p> <p>ADACEL[®], Boostrix[®] and Repevax[®] SPCs all advise vaccination is contraindicated for individuals who developed encephalopathy within 7 days of receiving a vaccine containing pertussis antigen. In line with advice outlined in Chapter 30: neurological conditions (update to Chapter 24 pending), deferral of vaccination should be considered where there is evidence of current neurological deterioration of the condition, to avoid incorrect attribution of any change, whilst balancing the risk of deferral against the risk of preventable infection. Vaccination should be given promptly once the diagnosis is clear, the expected course of the condition is known, or both.</p> <p>Where a vaccine is recommended off-label, as part of the consent process, consider informing the individual, parent or carer that the vaccine is being offered outside of product licence but in accordance with national guidance.</p> |
| <p>Route and method of administration</p> <p>(continued over page)</p> | <p>Administer by intramuscular injection, preferably into the deltoid muscle of the upper arm.</p> <p>When administering at the same time as other vaccines, care should be taken to ensure that the appropriate route of injection is used for all the vaccinations. The vaccines should be given at separate sites, preferably into different limbs. If given into the same limb, they should be given at least 2.5cm apart. The site at which each vaccine was given should be noted in the individual's records.</p> <p>Individuals with bleeding disorders may be vaccinated intramuscularly if, in the opinion of a doctor familiar with the individual's bleeding risk, vaccines</p> |

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| <p>Route and method of administration (continued)</p> | <p>or similar small volume intramuscular injections can be administered with reasonable safety by this route. If the individual receives medication or other treatment to reduce bleeding, for example treatment for haemophilia, intramuscular vaccination can be scheduled shortly after such medication or treatment is administered. Individuals on stable anticoagulation therapy, including individuals on warfarin who are up to date with their scheduled INR testing and whose latest INR was below the upper threshold of their therapeutic range, can receive intramuscular vaccination. A fine needle (equal to 23 gauge or finer calibre such as 25 gauge) should be used for the vaccination, followed by firm pressure applied to the site (without rubbing) for at least 2 minutes. The individual or carer should be informed about the risk of haematoma from the injection.</p> <p>If the intramuscular route is unsuitable, the vaccine may be administered by deep subcutaneous injection in line with Chapter 4.</p> <p>ADACEL[®], Boostrix-IPV[®] and Repevax[®] appear as uniform, cloudy white suspensions which may sediment during storage. Shake the prefilled syringe well to uniformly distribute the suspension before administering the vaccine.</p> <p>The vaccine should be visually inspected for foreign particulate matter and other variation of expected appearance prior to preparation and administration. Should either occur, do not administer the dose and discard the vaccine in accordance with local procedures.</p> <p>The vaccine SPC provides further guidance on preparation and administration.</p> |
| <p>Dose and frequency of administration</p> <p>(continued over page)</p> | <p>Single 0.5ml dose per administration.</p> <p>Routine immunisation in pregnancy schedule</p> <p>A single dose of Tdap (or dTaP/IPV if ADACEL[®] is unsuitable or otherwise unavailable) should be administered between 16 weeks and 32 weeks of pregnancy to maximise the likelihood that the baby will be protected from birth. For operational reasons, vaccination is best offered on or after the fetal anomaly scan at around 20 weeks.</p> <p>Women may still be immunised after week 32 of pregnancy but this may not offer as high a level of passive protection to the baby. Vaccination late in pregnancy may, however, directly protect the mother against disease and thereby reduce the risk of exposure to her infant.</p> <p>Vaccination is indicated in each pregnancy.</p> <p>For women who have not received the vaccine in pregnancy, pertussis-containing vaccine can be offered to mothers in the 2 months following birth, up until their child receives their first dose of pertussis-containing vaccine. This is to reduce the risk of the mother contracting pertussis in the post-partum period and passing it on to her infant.</p> <p>If a pregnant woman receives a dose of pertussis-containing vaccine after week 16 of pregnancy for occupational or contact purposes, this dose is considered valid for the maternity vaccine schedule, and no further doses are required in that pregnancy.</p> <p>Public health management of pertussis</p> <p>A single dose of dTaP/IPV should be administered to contacts recommended immunisation in accordance with Guidelines for the Public Health Management of Pertussis in England or Guidelines for the Public Health Management of Pertussis Incidents in Healthcare Settings who have not received a dose of pertussis-containing vaccine in the last 5 years and no Td/IPV vaccine in the preceding 4 weeks.</p> |

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| <p>Dose and frequency of administration (continued)</p> | <p>As outlined in the above guidelines, a single dTaP/IPV dose is recommended at any stage of pregnancy for pertussis contacts (in Groups 2b, 2c or 2d)⁴, at increased risk of transmitting to vulnerable individuals (in Group 1)⁵, who have not received a pertussis-containing vaccine in the last 5 years, and who happen to be pregnant as well. Tdap may also be offered for pregnant individuals, where immunisation is recommended in line with these guidelines.</p> <p>Where such vaccination of pregnant contacts occurs before 16 weeks of pregnancy, a further dose of pertussis-containing vaccine will be required after 16 weeks of pregnancy in accordance with the routine immunisation schedule and at least 4 weeks after the preceding dose.</p> |
| <p>Duration of treatment</p> | <p>See Dose and frequency of administration above.</p> |
| <p>Quantity to be supplied and administered</p> | <p>Single 0.5ml dose per administration.</p> |
| <p>Supplies</p> | <p>Centrally purchased vaccines for the national immunisation programme for pregnant women can only be ordered via ImmForm and are provided free of charge.</p> <p>Though ADACEL[®] as a non-IPV containing pertussis vaccine is preferred for the maternal programme, if ADACEL[®] is not available or otherwise unsuitable, such as in individuals with a severe allergy to latex, offer either Boostrix-IPV[®] or Repevax[®]. It is imperative to ensure the individual is offered a suitable and available vaccine containing a pertussis-containing antigen, rather than risk not being immunised against pertussis.</p> <p>Infanrix-hexa[®] or Infanrix-IPV+Hib[®] should not be given in the maternity programme as the higher antigenic content increases the likelihood of localised adverse reactions.</p> <p>Supplies for the vaccination of contacts of pertussis should be sourced directly from manufacturers or their wholesalers. Where vaccine cannot be directly sourced from manufacturers or wholesalers, please contact the national immunisation team for further advice.</p> <p>Protocols for the ordering, storage and handling of vaccines should be followed to prevent vaccine wastage (see Green Book Chapter 3).</p> |
| <p>Storage (continued over page)</p> | <p>Store at +2°C to +8°C. Store in original packaging to protect from light. Do not freeze.</p> <p>Following a single occurrence of a temperature excursion, stability data indicates the vaccine components of both ADACEL[®] and Repevax[®] remain stable at temperatures up to +25°C for 72 hours. Upon removal from refrigeration, Boostrix-IPV[®] is stable for 8 hours at +21°C. If the vaccines are unused during this period, they should be discarded.</p> <p>This information is only intended to guide healthcare professionals in the event of temporary temperature excursions.</p> |

⁴ **Group 2b:** healthcare workers working with infants and pregnant women **Group 2c:** people whose work involves regular, close or prolonged contact with infants too young to be fully vaccinated **Group 2d:** people who share a household with an infant too young to be fully vaccinated

⁵ **Group 1 -Individuals at increased risk of severe complications ('vulnerable'):** • unimmunised infants (born after 32 weeks) less than 2 months of age whose mothers did not receive pertussis vaccine after 16 weeks of pregnancy and at least 2 weeks prior to delivery • unimmunised infants (born < 32 weeks) less than 2 months of age regardless of maternal vaccine status • unimmunised and partially immunised infants (less than 3 doses of vaccine) aged 2 months and above regardless of maternal vaccine status

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| Storage (continued) | <p>In the event of an inadvertent or unavoidable deviation of these conditions, vaccines that have been stored outside the conditions stated above should be quarantined and risk assessed for suitability of continued off-label use or appropriate disposal. Refer to Vaccine Incident Guidance and contact the manufacturer if specific advice on management of the temperature excursion is required.</p> |
| Disposal | <p>Equipment used for immunisation, including used vials, ampoules, or discharged vaccines in a syringe or applicator, should be disposed of safely in a UN-approved puncture-resistant sharps box, according to local authority arrangements and NHSE guidance (HTM 07-01: safe and sustainable management of healthcare waste).</p> |
| Drug interactions | <p>Immunological response may be diminished in those receiving immunosuppressive treatment. Vaccination is recommended for eligible individuals even if the antibody response may be limited.</p> <p>Being inactivated vaccines, ADACEL[®], Boostrix-IPV[®] and Repevax[®] may be given at the same time as other vaccines.</p> <p>A detailed list of drug interactions associated with the vaccines are available from the product's SPC.</p> |
| Identification and management of adverse reactions | <p>Local reactions following vaccination are very common, such as pain, swelling or redness at the injection site. Headache and fatigue are also very commonly reported.</p> <p>Nausea, arthralgia and myalgia are very commonly reported side effects of Repevax[®].</p> <p>Generalised aching or muscle weakness and diarrhoea are very commonly reported side effects specific to ADACEL[®].</p> <p>Common adverse reactions include fever and gastrointestinal disturbances (diarrhoea and vomiting). Injection-site haematoma, pruritus, warmth and numbness have also been commonly reported with Boostrix-IPV[®].</p> <p>A detailed list of adverse reactions is available from the product's SPC.</p> |
| Reporting procedure of adverse reactions | <p>Healthcare professionals and individuals, parents and carers are encouraged to report suspected adverse reactions to the Medicines and Healthcare products Regulatory Agency (MHRA) using the Yellow Card reporting scheme or by searching for MHRA Yellow Card in the Google Play or Apple App Store.</p> <p>Any adverse reaction to a vaccine should be documented in the individual's record and the individual's GP should be informed.</p> |
| Written information to be given to individual, parent or carer | <p>Offer the marketing authorisation holder's patient information leaflet (PIL) provided with the vaccine. Immunisation promotional material may be provided as appropriate:</p> <ul style="list-style-type: none"> • Pregnancy: how to help protect you and your baby • Whooping cough: vaccination in pregnancy programme resources <p>For resources in accessible formats and alternative languages, please visit Home – Health Publications.</p> <p>Where applicable, inform the individual, parent or carer that large print, Braille or audio CD PILs may be available from emc accessibility (freephone 0800 198 5000) by providing the medicine name and product code number, as listed on the product SPC.</p> |

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| <p>Advice and follow up treatment</p> | <p>As these vaccines also contain antigens against diphtheria and tetanus, vaccination against pertussis offers additional protection against these other diseases. Boostrix-IPV® and Repevax® additionally offer protection against polio.</p> <p>Inform the individual, parent or carer of possible side effects and their management</p> <p>The individual, parent or carer should be advised to seek medical advice in the event of an adverse reaction and report this via the Yellow Card scheme.</p> <p>When administration is postponed, advise the individual, parent or carer when to return for vaccination.</p> |
| <p>Special considerations and additional information</p> | <p>Ensure there is immediate access to adrenaline (epinephrine) 1 in 1000 injection and access to a telephone at the time of vaccination.</p> <p>Pertussis vaccination is recommended after the fetal anomaly scan to prevent any identified anomalies being inappropriately attributed to vaccination. The fetal anomaly scan usually takes places between 18⁺⁰ and 20⁺⁶ weeks gestation. Mothers declining the anomaly scan should continue to be offered pertussis vaccination.</p> <p>If a pregnant woman received pertussis-containing vaccine before week 16 of her pregnancy, either in error or for occupational or contact reasons, then she should be offered a second dose when she reaches 16 weeks of pregnancy, or around the time of her antenatal fetal anomaly scan. The dose should be repeated to maximise the antibodies that are transferred across the placenta to her unborn baby. If a repeat dose is required, there should be an interval of at least 4 weeks from the previous dose to minimise the risk of local reaction.</p> <p>If a pregnant woman has received a dose of pertussis-containing vaccine after week 16 of pregnancy for occupational or contact reasons, this should be counted as a valid dose and she would not need a repeat dose during that pregnancy.</p> <p>Women who have never received (or not completed) a primary schedule of vaccination against diphtheria, tetanus and polio should be offered a single dose of dTaP/IPV in accordance with this PGD. They should then be offered Td/IPV (Revaxis®) at appropriate intervals if any subsequent doses of vaccine are needed to complete a 3 dose primary course. See Vaccination of individuals with uncertain or incomplete immunisation status.</p> <p>If a woman has had confirmed or suspected whooping cough during pregnancy, she should still be offered the pertussis vaccine. Not all women produce sufficiently high levels of antibodies after an infection, to pass on across the placenta to the infant.</p> |
| <p>Records</p> <p>(continued over page)</p> | <p>The practitioner must ensure the following is recorded:</p> <ul style="list-style-type: none"> • that valid informed consent was given or a decision to vaccinate was made in the individual's best interests, in accordance with the Mental Capacity Act 2005. • name of individual, address, date of birth and GP with whom the individual is registered • name of immuniser • name and brand of vaccine • date of administration • dose, form and route of administration of vaccine • quantity administered |

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| <p>Records (continued)</p> | <ul style="list-style-type: none"> • batch number and expiry date • anatomical site of vaccination • advice given, including advice given if the individual is excluded or declines immunisation • details of any adverse drug reactions and actions taken • supplied via PGD <p>Records should be signed and dated (or password-controlled on e-records).</p> <p>All records should be clear, legible and contemporaneous.</p> <p>This information should be recorded in the individual's GP record and both the electronic and hand-held maternity records (if available). Where vaccine is administered outside the GP setting, appropriate health records should be kept and the individual's GP informed.</p> <p>The local Child Health Information Services team (Child Health Records Department) must be notified using the appropriate documentation or pathway as required by any local or contractual arrangement.</p> <p>A record of all individuals receiving treatment under this PGD should also be kept for audit purposes in accordance with local policy.</p> |
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6. Key references

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| <p>Key references</p> <p>(continued over page)</p> | <p>Tdap and dTaP/IPV vaccines</p> <ul style="list-style-type: none">• Immunisation Against Infectious Disease: The Green Book. Chapter 15 and Chapter 26, last updated 19 April 2013. Chapter 30, last updated 6 June 2022. Chapter 24, last updated 7th April 2016 https://www.gov.uk/government/collections/immunisation-against-infectious-disease-the-green-book• Summary of Product Characteristic for Boostrix-IPV[®], GlaxoSmithKline. Updated 8 August 2023 http://www.medicines.org.uk/emc/medicine/28679• Summary of Product Characteristic for Repevax[®], Sanofi Pasteur. Updated 23 February 2023 https://www.medicines.org.uk/emc/product/5580• Summary of Product Characteristics for ADACEL[®], Sanofi Pasteur. Updated 15 March 2024. Accessed via https://www.medicines.org.uk/emc/product/15553• Vaccination against pertussis (whooping cough) for pregnant women: information for healthcare practitioners, UKHSA, last updated 6 September 2021 https://www.gov.uk/government/publications/vaccination-against-pertussis-whooping-cough-for-pregnant-women• Vaccination of individuals with uncertain or incomplete immunisation status, UKHSA, updated 6 September 2023 https://www.gov.uk/government/publications/vaccination-of-individuals-with-uncertain-or-incomplete-immunisation-status• Guidelines for the Public Health Management of Pertussis in England. Published May 2018 https://www.gov.uk/government/publications/pertussis-guidelines-for-public-health-management• Guidelines for the Public Health Management of Pertussis Incidents in Healthcare Settings. Updated 2 November 2016 https://www.gov.uk/government/publications/pertussis-guidelines-for-public-health-management-in-a-healthcare-setting• Pertussis: occupational vaccination of healthcare workers, published 16 July 2019 https://www.gov.uk/government/publications/pertussis-occupational-vaccination-of-healthcare-workers/pertussis-occupational-vaccination-of-healthcare-workers <p>General</p> <ul style="list-style-type: none">• NHSE Health Technical Memorandum 07-01: safe and sustainable management of healthcare waste, updated 7 March 2023 https://www.england.nhs.uk/publication/management-and-disposal-of-healthcare-waste-hm-07-01/• National Minimum Standards and Core Curriculum for Immunisation Training. Published February 2018 https://www.gov.uk/government/publications/national-minimum-standards-and-core-curriculum-for-immunisation-training-for-registered-healthcare-practitioners• NICE Medicines Practice Guideline 2 (MPG2): Patient Group Directions, updated 27 March 2017 https://www.nice.org.uk/guidance/mpg2• NICE MPG2 Patient group directions: competency framework for health professionals using patient group directions, updated 4 January 2018 https://www.nice.org.uk/guidance/mpg2/resources• UKHSA Immunisation Collection https://www.gov.uk/government/collections/immunisation |
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| Key references (continued) | <ul style="list-style-type: none"><li data-bbox="414 100 1530 235">• Vaccine Incident Guidance: responding to errors in vaccine storage, handling and administration, updated 7 July 2022 https://www.gov.uk/government/publications/vaccine-incident-guidance-responding-to-vaccine-errors |
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7. Practitioner authorisation sheet

Pertussis PGD v7.00 Valid from: 1 July 2024 Expiry: 1 July 2027

Before signing this patient group direction (PGD), check that the document has had the necessary authorisations in [section 2](#). Without these, this PGD is not lawfully valid.

Practitioner

By signing this PGD you are indicating that you agree to its contents and that you will work within it.

PGDs do not remove inherent professional obligations or accountability.

It is the responsibility of each professional to practise only within the bounds of their own competence and professional code of conduct.

| I confirm that I have read and understood the content of this PGD and that I am willing and competent to work to it within my professional code of conduct. | | | |
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| Name | Designation | Signature | Date |
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Authorising manager

| I confirm that the practitioners named above have declared themselves suitably trained and competent to work under this PGD. I give authorisation on behalf of insert name of organisation for the above named health care professionals who have signed the PGD to work under it. | | | |
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| Name | Designation | Signature | Date |
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Note to authorising manager

Score through unused rows in the list of practitioners to prevent practitioner additions post managerial authorisation.

This authorisation sheet should be retained to serve as a record of those practitioners authorised to work under this PGD