



Document Title:	Patient Group Direction for administration of Diphtheria, tetanus, pertussis (whooping cough), polio and Haemophilus influenzae type b (Hib) (DTaP/IPV/Hib – Infanrix/IPV/Hib®)			
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Patient Group Direction for administration of COMBINED DIPHTHERIA, TETANUS, ACELLULAR PERTUSSIS, INACTIVATED POLIO VACCINE AND HIB (DTaP/IPV/Hib – Infanrix® IPV+Hib)

Approved By

NHS England Shropshire and Staffordshire Area Team	Name	Signature
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Date of patient group direction approved	September 2014
Date this patient group direction becomes due for review	September 2016 or in response to new local/national guidelines.

STAFF CHARACTERISTICS

- Provider of NHS services within NHS England (Shropshire & Staffordshire Area Team)
- Registered nurse with current NMC registration

Specialist competencies or qualifications:

- The health care professional must have a good understanding of the <u>NICE Good Practice Guidance on Patient Group Directions</u>¹
- The health care professional should undertake the Public Health England training for healthcare practitioners on the Use of infanrix® -IPV +Hib in the infant primary immunisation schedule² accessed via (https://www.gov.uk/government/publications/use-of-infanrix-ipvhib-in-the-infant-immunisation-schedule)
- The <u>NICE competency framework: For health professionals using Patient Group Directions</u>³ should be used by health care professionals planning to work under this PGD to identify any gaps in their knowledge. The gaps should be addressed before the healthcare professional is authorised to work under this PGD.
- The clinical manager/ lead GP must have evidence that the health care professional has undertaken training to carry out clinical assessment of patient leading to confirmation that the patient requires treatment according to the indications listed in the PGD.
- The healthcare professional must provide evidence of training, appropriate annual updates and continued professional development undertaken to support their competence for administration of this treatment.
- The clinical manager/ lead GP must have assessed the competency of the healthcare professional to work to this Patient Group Direction. The NICE competency framework: For health professionals using Patient Group Directions³ should be used to support this assessment.
- The health care professional must have undertaken training and annual updates in the recognition and treatment of anaphylaxis, including practical in Basic Life Support and has immediate access to an in-date supply of adrenaline 1mg in 1ml (1:1000) at the time of the consultation. (The practitioner must be deemed competent in basic life support and in emergency administration of adrenaline)
- The health care professional must have access to all relevant sources of information e.g. information issued by the Department of Health (Green Book), British National Formulary (BNF), Summary of Product Characteristics (SPC), and the clinical guideline concerning medicine(s) within this Patient Group Direction (PGD).
- The practitioner must be competent and knowledgeable in vaccine cold chain standards.
- The registered health care practitioner is professionally accountable for supply or administration under the PGD as defined in their own profession's Code of Professional Conduct and Ethics.

YOU MUST BE AUTHORISED BY NAME BY YOUR CLINICAL LEAD UNDER THE CURRENT VERSION OF THIS PGD
BEFORE YOU ATTEMPT TO WORK ACCORDING TO IT

PGDs DO NOT REMOVE INHERENT PROFESSIONAL OBLIGATIONS OR ACCOUNTABILITY

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CLINICAL CONDITION Clinical need addressed For active immunisation against diphtheria, tetanus, pertussis, poliomyelitis and Haemophilus influenzae type b (Hib) in children aged from 2 months and up to 10 years of age as recommended in the routine immunisation schedule⁴ NB: Both Infanrix®-IPV+Hib and Pediacel® protect against the same five diseases and so either vaccine can be used in the routine immunisation schedule^{2,5}, but immunisers must refer to the correct PGD (NB: there is a separate PGD for **Inclusion criteria** Any child aged from 2 months and up to 10 years of age where parent/guardian consent has been given to receive the vaccine: As a primary course of diphtheria, tetanus, pertussis, poliomyelitis and Hib in line with routine childhood immunisation schedule or where there is an unreliable history of previous immunisation against diphtheria, tetanus, pertussis, poliomyelitis and Hib To complete a primary course of diphtheria, tetanus, pertussis, poliomyelitis and Hib **Exclusion criteria** Consent not given (for full details refer to current Child under 2 months of age **Summary of Product Characteristics** (SPC) www.medicines.org.uk & BNF) Child aged 10 years or over Acute severe febrile illness (vaccine should be deferred) Evidence of current neurological deterioration, including poorly controlled epilepsy (defer vaccination) Less than 4 weeks since receiving diphtheria, tetanus, pertussis, inactivated polio or Hib containing vaccine. A confirmed anaphylactic reaction to a previous dose of a diphtheria, tetanus, pertussis, polio or Hib-containing vaccine^{2,6,7}. Hypersensitivity to the active substances or to any of the excipients of the vaccine including aluminium hydroxide, neomycin, polymyxin and polysorbate 80^{2,6} Caution/need for further Minor illnesses without fever or systemic upset are not valid reasons to postpone advice immunisation. If an individual is acutely unwell, immunisation may be postponed until they have fully recovered. This is to avoid confusing the differential diagnosis of any acute illness by wrongly attributing any signs or symptoms to the adverse effects of the vaccine As with other vaccines it may be expected that patients receiving immunosuppressive therapy or patients with immunodeficiency, may not achieve an adequate response. In such cases specialist advice should be sought regarding reimmunisation⁷. If a child experiences encephalopathy or encephalitis within 7 days of immunisation, they should be referred to a specialist for investigation. Immunisation should be deferred until the condition has stabilised in children where no underlying cause was found, and the child did not recover completely within 7 days. If a cause is identified or the child recovers within 7 days, immunisation should proceed as recommended⁷. The potential risk of apnoea and the need for respiratory monitoring for 48-72h

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Drug name: Patient Group Direction for the administration of Infanrix®IPV +Hib

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	should be considered when administering the primary immunisation series to very premature infants (born ≤ 28 weeks of gestation) and particularly for those with a previous history of respiratory immaturity. As the benefit of the vaccination is high in this group of infants, vaccination should not be withheld or delayed ⁶ .
Interaction with other medicinal products	Vaccine can be given at the same time as other vaccines such as MMR, Men C and hepatitis B. The vaccines should be given at a separate site, preferably in a different limb. If given in 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 ⁷
Management of excluded patients	 Document exclusion criteria in the individual's notes. Advise parent/guardian about reasons for exclusion. Inform or refer to GP Specialist advice must be sought on the vaccines and circumstances under which they should be given. The risk to the individual of not being immunised must be taken into account For individuals temporarily excluded due to acute or febrile illness advise when the vaccine may be given and arrange another appointment. For individuals excluded due to evidence of current neurological deterioration, refer to a child specialist for investigation to see if an underlying cause can be identified. If the cause is not identified, immunisation should be deferred until the condition has stabilised. If the cause is identified immunisation should proceed as normal.
Action for patients not wishing to receive care under this PGD	 Advise parent/guardian about protective effects of the vaccine and the risks of infection and disease complications. Document action and advice given (record declined vaccine in the individuals clinical record). Inform or refer to GP as appropriate.
TREATMENT AND DRUG DET	ALLC

TREATMENT AND DRUG DETAILS

Name form	and	strength of
medicine		

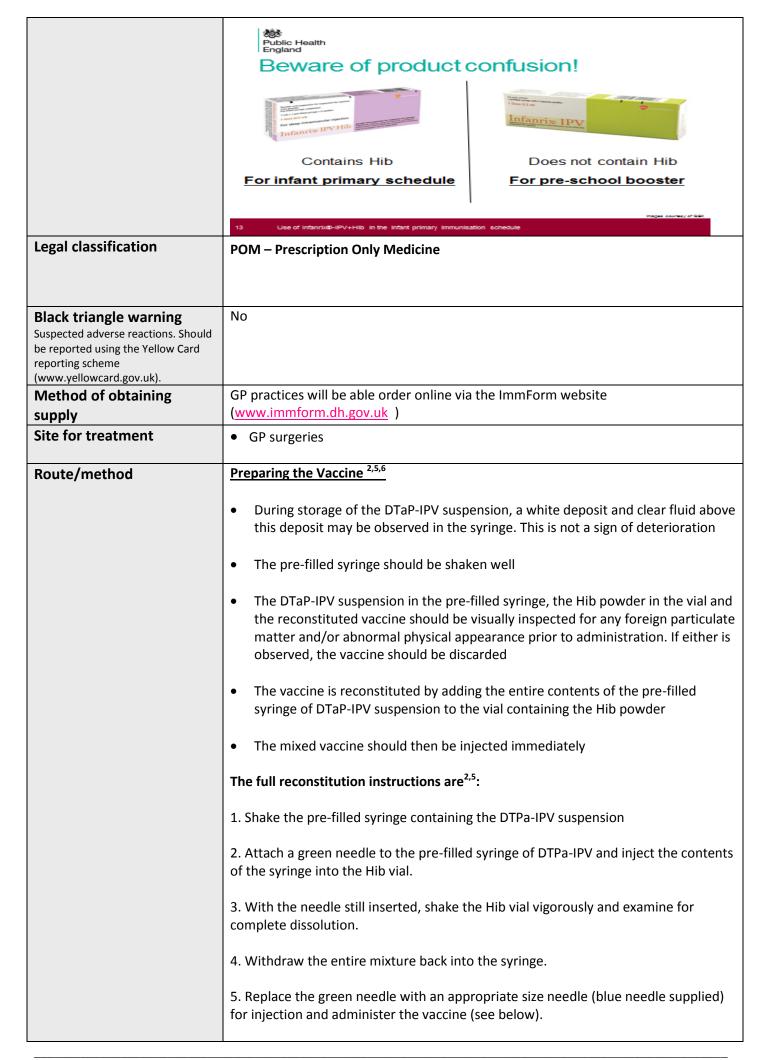
Infanrix®-IPV +Hib (DTaP/IPV/Hib)

Diphtheria, tetanus, pertussis (acellular, component), poliomyelitis (inactivated) and Haemophilus type b conjugate vaccine (adsorbed) suspension for injection in prefilled syringe.

The vaccine is supplied in single dose packs containing the syringe, vial and two needles. One needle for reconstitution and one for vaccine administration.

- The Hib (Haemophilus influenzae type b) vaccine is supplied as a lyophilized (freeze-dried) white powder in a glass vial.^{2,5}
- The diphtheria, tetanus, acellular pertussis and inactivated poliomyelitis vaccine is supplied as a cloudy white suspension in a pre-filled (0.5 ml) syringe.^{2,5}

The contents of the pre-filled syringe must be combined with the contents of the vial to make a single dose of 0.5ml of cloudy white suspension ²



	6. If the vaccine is not administered immediately, shake	the solution vigorously		
	again before injection.	the solution vigorously		
	Vaccine Administration			
	 Infanrix IPV+Hib should be administered by deep intranterolateral aspect of the thigh⁶ It is preferable that each subsequent dose is given into Infanrix-IPV+Hib should be administered with caution thrombocytopenia or a bleeding disorder since bleed intramuscular administration in these patients. Firm to the injection site (without rubbing) for at least two deep subcutaneous route⁷ can be considered in patienal though there is an increased risk of local reactions of Vaccine can be given at the same time as other vaccine. 	to alternating limbs ⁶ . In in patients with ling may occur following an pressure should be applied o minutes ⁶ . Vaccination by ents with bleeding disorders, via this route ⁸ .		
	different limbs or at least 2.5cms from the concomitant immunisation ⁷ .			
Dose	0.5ml			
Number of times treatment may be administered	A primary course consists of three doses to be administered at one month intervals to children aged 2 months, 3 months and 4 months as part of the routine immunisation schedule ^{4,6}			
	If the primary course is interrupted it should be resumed but not repeated allowing an interval of a month between remaining doses ² .			
	Interchangability of Infanrix-IPV+Hib® and Pediacel® vaccines: Whenever possible the same DTaP containing vaccine should be used for all three doses of the primary vaccine course. If this is not possible, which ever primary vaccine is available (Pediacel® or Infanrix-IPV+Hib® should be used. Vaccination should not be delayed because the vaccine used for the previous dose is unavailable or not known ⁵ . (NB ensure that the PGD relevant to the vaccine available is used)			
Quantity to be supplied or	Single dose to be administered (0.5ml)			
administered				
Side effects Full details of side effects are available in the SPC.	Very common: (≥1/10) Common: (≥ 1/100 to < 1/10)			
<u>www.medicines.org.uk</u> Suspected adverse reactions to drugs	Adverse Reactions ⁶	Frequency		
including vaccines should be	Metabolism and Nutrition Disorders			
reported on the yellow card available at the back of the BNF. Also at	Appetite loss	Very common		
www.yellowcard.gov.uk	Psychiatric Disorders			
	Irritability	Very common		
	Abnormal crying	Very common		
	Restlessness	Very Common		
	Gastrointestinal Disorders			
	Vomiting	Common		
	Diarrhoea	Common		
	Nervous system disorders			
	somnolence	Very common		
	General Disorders and Administration Site Conditions			
	Decreased activity	Very common		
	Injection site pain			

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	Injection site redness		
	fever (≥38.0°C)		
	Injection site swelling (≤50 mm)		
	Injection site induration	Common	
	For further details about adverse effects see product SPC <u>www.medicines.org.uk</u>		
Additional Information	• Store in a refrigerator (+2°C to +8°C) 2,6		
(including storage and		ne should he discarded)	
disposal)	 Do not freeze (If the vaccine has been frozen, the vaccine should be discarded) Protect from light (store in original packaging) ^{2,6} 		
		of by placing in a proper	
	 Equipment used for vaccination should be disposed of by placing in a proper, puncture-resistant 'sharps' box according to local authority regulations and guidance in Health Technical Memorandum 07-01: Safe management of healthcare waste (Department of Health, 2013)⁷ 		
Advice to patient/carer	Before Treatment:		
	 Advise parent/guardian of possible side effects. For full details see product's summary of product characteristics. Advise action to be taken if side effects are experienced 		
	After Treatment:		
	Provide information leaflet for parent/guardian		
	Advise on next scheduled immunisation if appropriate		
	Any serious adverse reaction to the vaccine should be documented in the		
	patient's GP medical records and the MHRA should be informed using the yellow card scheme. GP should also be informed.		
Follow up	No routine follow up required		
Suspected adverse reactions	Patient presenting with suspected adverse drug reaction should be referred to a doctor for further investigations.		
	As with all vaccines, healthcare professionals and parents/carers are encouraged to report suspected adverse reactions to the Medicines and Healthcare products Regulatory Agency (MHRA) using the Yellow Card reporting scheme on: http://yellowcard.mhra.gov.uk		
	Any serious adverse reaction to the vaccine should be documented in the patient's medical record.		
Error reporting	Any incidents or near-miss issues must be reported to the Screening and Immunisation Team via PHE.sssit@nhs.net		
RECORD KEEPING			
Documentation	Patient's name, address, date of birth and registered (GP	
needed/treatment records	Manufacturer/brand of product, batch number, expire	y date	
to be kept for audit	Record of informed consent		
purposes	Dose administered		
	Date of administration		
	Anatomical site of vaccination		
A computer or manual record of all individuals receiving treatment under	Route of administration		
this Patient Group Direction should	 Advice given to patient (including advice given if vaccination is declined) Details of staff who administered (sign and print name) 		
also be kept for audit purposes.			

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- Details of any adverse drug reactions, and action taken including informing GP
- Record as supplied via Patient Group Direction (PGD) in patient's clinical record

All records should be clear, legible and contemporaneous. This information should be recorded as appropriate in the patient's General Practitioner record or other patient record.

A computerised or manual record of all individuals receiving treatment under this Patient Group Direction should also be kept for audit purposes.

Clinical records must be kept for at least 8 years following completion of treatment. In patients who are aged under 17 years, clinical records must be kept until the patient's 25th birthday.

Data must be stored in accordance with Caldicott guidance and the Data Protection

Reconciliation – stock balances should be reconcilable with receipts, administration records and disposal.

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Register of practitioners qualified to administer

COMBINED DIPHTHERIA, TETANUS, ACELLULAR PERTUSSIS, INACTIVATED POLIO VACCINE AND HIB (DTaP/IPV/Hib – Infanrix® IPV+Hib)

under this PATIENT GROUP DIRECTION

Name of clinical manager/GP Lead			
Signature of clinical manager/GP Lead	Date:		
A copy of this page should be retained by the authorising manager for 2 years for audit purposes			
Please state clinical area where this PGD			
is in use			

Healthcare professional individual declaration

I have read and understood the Patient Group Direction and agree to supply this medicine only in accordance with this PGD

- PGDs DO NOT REMOVE INHERENT PROFESSIONAL OBLIGATIONS OR ACCOUNTABILITY.
- It is the responsibility of each professional to practice only within the bounds of their own competence.
- All practitioners operating in accordance with this PGD should have a current, signed copy of it readily available for reference.
- If a practitioner is asked to supply, or administer a medicine not covered by this or any other PGD then a patient specific direction is required from a doctor, dentist or independent prescriber.

Name of professional (please print)	Signature	Authorising Manager (Must sign against each entry)	Date of authorisation

The clinical lead should review competency of authorised practitioners annually.

Authorisation to use this PGD does not remove inherent professional responsibility and accountability

Acknowledgement: Medicines Management Team, Telford & Wrekin CCG for developing the PGD.

¹ National Institute for Health and Care Excellence. <u>Good Practice Guidance: Patient Group Directions</u>. August 2013 ² Public Health England: <u>Use of Infanrix® -IPV+Hib in the infant primary immunisation schedule Training Slides</u>

³ National Institute for Health and Care Excellence. Competency Framework for healthcare professionals using PGDs. Implementing the NICE good practice guidance on patient group directions (GPG2). Published January 2014

⁴ Vaccines for the routine immunisation schedule from summer 2014 The complete routine immunisation schedule

⁵ Public Health England. <u>Use of Infanrix® -IPV+Hib in the infant schedule Information for Healthcare Professionals</u>

⁶ Summary of Product Characteristics Infanrix ® IPV + Hib <u>www.medicines.org.uk</u> (last accessed August 2014)

⁷ Public Health England. Immunisation against infectious disease (The Green Book) Diphtheria, Tetanus, Pertussis, Polio and Hib chapters. Available at: https://www.gov.uk/government/collections/immunisation-against-infectious-disease-the-green-book

disease-the-green-book

8 Patient Group Direction for the administration of DTaP/IPV/Hib – Infanrix/IPV/Hib. Public Health England/NHS England July 2014