

SUMMARY OF PRODUCT CHARACTERISTICS

1. NAME OF THE MEDICINAL PRODUCT

INFANRIX HEXA™; Combined diphtheria-tetanus-acellular pertussis, hepatitis B, enhanced inactivated polio vaccine and *Haemophilus influenzae* type b vaccine

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

After reconstitution, 1 dose (0.5 ml) contains:

Diphtheria toxoid ¹	not less than 30 International Units (IU)
Tetanus toxoid ¹	not less than 40 International Units (IU)
<i>Bordetella pertussis</i> antigens	
Pertussis toxoid (PT) ¹	25 micrograms
Filamentous Haemagglutinin (FHA) ¹	25 micrograms
Pertactin (PRN) ¹	8 micrograms
Hepatitis B surface antigen (HBs) ^{2,3}	10 micrograms
Poliovirus (inactivated) (IPV)	
type 1 (Mahoney strain) ⁴	40 D-antigen unit
type 2 (MEF-1 strain) ⁴	8 D-antigen unit
type 3 (Saukett strain) ⁴	32 D-antigen unit
<i>Haemophilus influenzae</i> type b polysaccharide (polyribosylribitol phosphate, PRP) ³	10 micrograms
conjugated to tetanus toxoid as carrier protein	approximately 25 micrograms

¹adsorbed on aluminium hydroxide, hydrated (Al(OH)₃) 0.5 milligrams Al³⁺

²produced in yeast cells (*Saccharomyces cerevisiae*) by recombinant DNA technology

³adsorbed on aluminium phosphate (AlPO₄) 0.32 milligrams Al³⁺

⁴propagated in VERO cells

The DTPa-HBV-IPV component is presented as a turbid white suspension. Upon storage, a white deposit and clear supernatant can be observed. This is a normal observation.

The Hib component is presented as a white powder.

For excipients, see *List of Excipients*.

3. PHARMACEUTICAL FORM

Powder and suspension for suspension for injection.

4. CLINICAL PARTICULARS

4.1 Indications

Infanrix hexa™ is indicated for primary and booster vaccination of infants against diphtheria, tetanus, pertussis, hepatitis B, poliomyelitis and *Haemophilus influenzae* type b.

4.2 Dosage and Administration

Posology

The primary vaccination schedule consists of two or three doses (of 0.5 ml) which should be administered according to official recommendations (see *Pharmacodynamic Effects* for schedules evaluated in clinical trials). *Infanrix hexa*[™] can be considered for the booster if the antigen composition is in accordance with the official recommendations.

Primary vaccination	Booster vaccination	General considerations
Full-term infants		
3-dose	A booster dose may be given.	<ul style="list-style-type: none">• There should be an interval of at least 1 month between primary doses.• When giving a booster dose, this should be at least 6 months after the last priming dose and preferably before 18 months of age.
2-dose	A booster dose must be given.	<ul style="list-style-type: none">• There should be an interval of at least 1 month between primary doses.• When giving a booster dose, this should be at least 6 months after the last priming dose and preferably between 11 and 13 months of age.
Preterm infants born after at least 24 weeks of gestational age		
3-dose	A booster dose must be given.	<ul style="list-style-type: none">• There should be an interval of at least 1 month between primary doses.• When giving a booster dose, this should be at least 6 months after the last priming dose and preferably before 18 months of age.

The Expanded Program on Immunisation schedule (at 6, 10, 14 weeks of age) may only be used if a dose of hepatitis B vaccine has been given at birth.

Where a dose of hepatitis B vaccine is given at birth, *Infanrix hexa*[™] can be used as a replacement for supplementary doses of hepatitis B vaccine from the age of 6 weeks. If a second dose of hepatitis B vaccine is required before this age, monovalent hepatitis B vaccine should be used.

Locally established immunoprophylactic measures against hepatitis B should be maintained.

Other combinations of antigens have been studied in clinical trials following primary vaccination with *Infanrix hexa*[™] and may be used for a booster dose: diphtheria, tetanus, acellular pertussis (DTPa), diphtheria, tetanus, acellular pertussis, *Haemophilus influenzae* type b (DTPa+Hib), diphtheria, tetanus, acellular pertussis, inactivated poliomyelitis, *Haemophilus influenzae* type b (DTPa-IPV+Hib) and diphtheria, tetanus, acellular pertussis, hepatitis B, inactivated poliomyelitis, *Haemophilus influenzae* type b (DTPa-HBV-IPV+Hib).

Method of administration

Infanrix hexa[™] is for deep intramuscular injection.

4.3 Contraindications

Hypersensitivity to the active substances or to any of the excipients or residues (see *Qualitative and quantitative composition* and *List of Excipients*).

Hypersensitivity after previous administration of diphtheria, tetanus, pertussis, hepatitis B, polio or Hib vaccines.

Infanrix hexaTM is contraindicated if the child has experienced an encephalopathy of unknown aetiology, occurring within 7 days following previous vaccination with pertussis containing vaccine. In these circumstances pertussis vaccination should be discontinued and the vaccination course should be continued with diphtheria-tetanus, hepatitis B, inactivated polio and Hib vaccines.

4.4 Warnings and Precautions

As with other vaccines, administration of **Infanrix hexa**TM should be postponed in subjects suffering from acute severe febrile illness. The presence of a minor infection is not a contra-indication.

Vaccination should be preceded by a review of the medical history (especially with regard to previous vaccination and possible occurrence of undesirable events) and a clinical examination.

A protective immune response may not be elicited in all vaccinees (see *Pharmacodynamic Effects*).

Infanrix hexaTM will not prevent disease caused by pathogens other than *Corynebacterium diphtheriae*, *Clostridium tetani*, *Bordetella pertussis*, hepatitis B virus, poliovirus or *Haemophilus influenzae* type b. However, it can be expected that hepatitis D will be prevented by immunisation as hepatitis D (caused by the delta agent) does not occur in the absence of hepatitis B infection.

If any of the following events are known to have occurred in temporal relation to receipt of pertussis-containing vaccine, the decision to give further doses of pertussis-containing vaccines should be carefully considered :

- Temperature of $\geq 40.0^{\circ}\text{C}$ within 48 hours, not due to another identifiable cause.
- Collapse or shock-like state (hypotonic hyporesponsive episode) within 48 hours of vaccination.
- Persistent, inconsolable crying lasting ≥ 3 hours, occurring within 48 hours of vaccination.
- Convulsions with or without fever, occurring within 3 days of vaccination.

There may be circumstances, such as a high incidence of pertussis, when the potential benefits outweigh possible risks.

In children with progressive neurological disorders, including infantile spasms, uncontrolled epilepsy or progressive encephalopathy, it is better to defer pertussis (Pa or Pw) immunization until the condition is corrected or stable. However, the decision to give pertussis vaccine must be made on an individual basis after careful consideration of the risks and benefits.

As with all injectable vaccines, appropriate medical treatment and supervision should always be readily available in case of a rare anaphylactic event following the administration of the vaccine.

Infanrix hexaTM should be administered with caution to subjects with thrombocytopenia or a bleeding disorder since bleeding may occur following an intramuscular administration to these subjects.

Do not administer the vaccine intravascularly or intradermally.

A history of febrile convulsions, a family history of convulsions or Sudden Infant Death Syndrome (SIDS) do not constitute contraindications for the use of *Infanrix hexa*TM. Vaccinees with a history of febrile convulsions should be closely followed up as such adverse events may occur within 2 to 3 days post vaccination.

Data from clinical studies indicate that, when *Infanrix hexa*TM is co-administered with pneumococcal conjugate vaccine, the rate of febrile reactions is higher compared to that occurring following the administration of *Infanrix hexa*TM alone.

Increased reporting rates of convulsions (with or without fever) and hypotonic hyporesponsive episode (HHE) were observed with concomitant administration of *Infanrix hexa*TM and Prevenar 13 (see *Adverse Reactions*).

Antipyretic treatment should be initiated according to local treatment guidelines.

Syncope (fainting) can occur following, or even before, any vaccination as a psychogenic response to the needle injection. It is important that procedures are in place to avoid injury from faints.

Special populations

Human Immunodeficiency Virus (HIV) infection is not considered as a contra-indication. The expected immunological response may not be obtained after vaccination of immunosuppressed patients.

Clinical data indicate that *Infanrix hexa*TM can be given to preterm infants, however, as expected in this population, a lower immune response has been observed for some antigens (see *Adverse Reactions* and *Pharmacodynamic Effects*).

The potential risk of apnoea and the need for respiratory monitoring for 48-72h should be considered when administering the primary immunization series to very preterm infants (born \leq 28 weeks of gestation) and particularly for those with a previous history of respiratory immaturity. As the benefit of vaccination is high in these infants, vaccination should not be withheld or delayed.

Interference with laboratory testing

Since the Hib capsular polysaccharide antigen is excreted in the urine a positive urine test can be observed within 2 weeks following vaccination. Other tests should be performed in order to confirm Hib infection during this period.

4.5 Interactions

*Infanrix hexa*TM can be given concomitantly with pneumococcal conjugate, MenC conjugate, MenACWY conjugate, rotavirus, measles, mumps, rubella and varicella vaccines. Data have shown no clinically relevant interference in the antibody response to each of the individual antigens.

Data from clinical studies indicate that, when *Infanrix hexa*TM is co-administered with pneumococcal conjugate vaccine, the rate of febrile reactions is higher compared to that occurring following the administration of *Infanrix hexa*TM alone (see *Warnings and Precautions* for guidance on pneumococcal conjugate vaccines).

As with other vaccines it may be expected that in patients receiving immunosuppressive therapy, an adequate response may not be achieved.

4.6 Pregnancy and Lactation

As *Infanrix hexa*TM is not intended for use in adults, information on the safety of the vaccine when used during pregnancy or lactation is not available.

4.7 Effects on Ability to Drive and Use Machines

Not relevant.

4.8 Adverse Reactions

- Clinical Trial Data:**

The safety profile presented below is based on data from more than 16,000 subjects.

As has been observed for DTPa and DTPa-containing combinations, an increase in local reactogenicity and fever was reported after booster vaccination with *Infanrix hexa*TM with respect to the primary course.

Adverse reactions reported are listed according to the following frequency

Very common: $\geq 1/10$

Common: $\geq 1/100$ to $< 1/10$

Uncommon: $\geq 1/1000$ to $< 1/100$

Rare: $\geq 1/10000$ to $< 1/1000$

Very rare: $< 1/10000$

System Organ Class	Frequency	Adverse events
Infections and infestations	Uncommon	upper respiratory tract infection
Metabolism and nutrition disorders	Very common	appetite lost
Psychiatric disorders	Very common	irritability, crying abnormal, restlessness
	Common	nervousness
Nervous system disorders	Uncommon	somnolence
	Very rare	convulsions (with or without fever)***
Respiratory, thoracic and mediastinal disorders	Uncommon	cough*
	Rare	bronchitis
Gastrointestinal disorders	Common	vomiting, diarrhoea
Skin and subcutaneous tissue disorders	Common	pruritus*
	Rare	rash
	Very rare	dermatitis, urticaria*
General disorders and administration site conditions	Very common	pain, redness, local swelling at the injection site (≤ 50 mm), fever $\geq 38^{\circ}\text{C}$, fatigue
	Common	local swelling at the injection site (> 50 mm)**, fever $>39.5^{\circ}\text{C}$, injection site reactions, including induration
	Uncommon	diffuse swelling of the injected limb, sometimes involving the adjacent joint**

* observed only with other GSK DTPa-containing vaccines

** Children primed with acellular pertussis vaccines are more likely to experience swelling reactions after booster administration in comparison with children primed with whole cell vaccines. These reactions resolve over an average of 4 days.

*** Analysis of postmarketing reporting rates suggests a potential increased risk of convulsions (with or without fever) and HHE when comparing groups which reported use of *Infanrix hexa*TM with *Prevnar 13*TM / *Prevenar 13*TM to those which reported use of *Infanrix hexa*TM alone.

- **Post Marketing Data:**

The following drug-related adverse reactions were reported during post-marketing surveillance.

System Organ Class	Frequency	Adverse events
Blood and lymphatic system disorders	Rare	Lymphadenopathy, thrombocytopenia
Immune system disorders	Rare	Allergic reactions (including anaphylactic and anaphylactoid reactions)
Nervous system disorders	Rare	Collapse or shock-like state (hypotonic hyporesponsive episode)***
Respiratory, thoracic and mediastinal disorders	Rare	Apnoea*[see Warnings and Precautions for apnoea in very preterm infants (≤ 28 weeks of gestation)]
Skin and subcutaneous tissue disorders	Rare	Angioneurotic oedema*
General disorders and administration site conditions	Rare	Extensive swelling reactions, swelling of the entire injected limb**, vesicles at the injection site

* observed only with other GSK DTPa-containing vaccines

** Children primed with acellular pertussis vaccines are more likely to experience swelling reactions after booster administration in comparison with children primed with whole cell vaccines. These reactions resolve over an average of 4 days.

*** Analysis of postmarketing reporting rates suggests a potential increased risk of convulsions (with or without fever) and HHE when comparing groups which reported use of *Infanrix hexa*TM with *Prevnar 13*TM / *Prevenar 13*TM to those which reported use of *Infanrix hexa*TM alone.

- **Safety in preterm infants**

*Infanrix hexa*TM has been administered to more than 1000 preterm infants (born after a gestation period of 24 to 36 weeks) in primary vaccination studies and in more than 200 preterm infants as a booster dose in the second year of life. In comparative studies, similar rates of symptoms were observed in preterm and full-term infants.

- **Experience with hepatitis B vaccine:**

Paralysis, neuropathy, encephalopathy, encephalitis, meningitis, allergic reactions mimicking serum sickness, neuritis, hypotension, vasculitis, lichen planus, erythema multiforme, arthritis and muscular weakness have been reported during post-marketing surveillance following GlaxoSmithKline Biologicals' hepatitis B vaccine in infants < 2 years old. The causal relationship to the vaccine has not been established.

4.5 Overdose

Insufficient data are available.

5. PHARMACOLOGICAL PROPERTIES

5.1 Pharmacodynamics

Pharmaco-therapeutic group: Bacterial and viral vaccines combined

ATC code J07CA09.

Immunogenicity

The immunogenicity of *Infanrix hexa*[™] has been evaluated in clinical studies from 6 weeks of age. The vaccine was assessed in 2-dose and 3-dose priming schedules, including the schedule for the Expanded Program on Immunisation, and as a booster dose. The results of these clinical studies are summarised in the tables below.

After a 3-dose primary vaccination schedule, at least 95.7% of infants had developed seroprotective or seropositive antibody levels against each of the vaccine antigens. After booster vaccination (post-dose 4), at least 98.4% of children had developed seroprotective or seropositive antibody levels against each of the vaccine antigens.

Percentage of subjects with antibody titres \geq assay cut-off one month after 3-dose primary and booster vaccination with *Infanrix hexa*[™]

Antibody (cut-off)	Post-dose 3				Post-dose 4 (Booster vaccination during the second year of life following a 3-dose primary course)
	2-3-4 months N= 196 (2 studies)	2-4-6 months N= 1693 (6 studies)	3-4-5 months N= 1055 (6 studies)	6-10-14 weeks N= 265 (1 study)	N=2009 (12 studies)
	%	%	%	%	%
Anti-diphtheria (0.1 IU/ml) †	100.0	99.8	99.7	99.2	99.9
Anti-tetanus (0.1 IU/ml) †	100.0	100.0	100.0	99.6	99.9
Anti-PT (5 EL.U/ml)	100.0	100.0	99.8	99.6	99.9
Anti-FHA (5 EL.U/ml)	100.0	100.0	100.0	100.0	99.9
Anti-PRN (5 EL.U/ml)	100.0	100.0	99.7	98.9	99.5
Anti-HBs (10 mIU/ml) †	99.5	98.9	98.0	98.5*	98.4
Anti-Polio type 1 (1/8 dilution) †	100.0	99.9	99.7	99.6	99.9
Anti-Polio type 2 (1/8 dilution) †	97.8	99.3	98.9	95.7	99.9
Anti-Polio type 3 (1/8 dilution) †	100.0	99.7	99.7	99.6	99.9

Anti-PRP (0.15 µg/ml) †	96.4	96.6	96.8	97.4	99.7
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N = number of subjects

* in a subgroup of infants not administered hepatitis B vaccine at birth, 77.7% of subjects had anti-HBs titres ≥ 10 mIU/ml

† cut-off accepted as indicative of protection

After a complete vaccination according to a 2-dose primary and booster schedule with *Infanrix hexa*[™], at least 97.9% of the subjects had developed seroprotective or seropositive antibody levels against each of the vaccine antigens.

Percentage of subjects with antibody titres ≥ assay cut-off one month after 2-dose primary and booster vaccination with *Infanrix hexa*[™]

Antibody (cut-off)	Post-dose 3 (Vaccination at 2-4-12 months of age) N=196 (1 study)	Post-dose 3 (Vaccination at 3-5-11 months of age) N=532 (3 studies)
	%	%
Anti-diphtheria (0.1 IU/ml) †	100.0	100.0
Anti-tetanus (0.1 IU/ml) †	100.0	100.0
Anti-PT (5 EL.U/ml)	99.5	100.0
Anti-FHA (5 EL.U/ml)	100.0	100.0
Anti-PRN (5 EL.U/ml)	100.0	99.2
Anti-HBs (10 mIU/ml) †	99.8	98.9
Anti-Polio type 1 (1/8 dilution) †	98.4	99.8
Anti-Polio type 2 (1/8 dilution) †	98.4	99.4
Anti-Polio type 3 (1/8 dilution) †	97.9	99.2
Anti-PRP (0.15 µg/ml) †	100.0	99.6

N = number of subjects

† cut-off accepted as indicative of protection

Serological correlates of protection have been established for diphtheria, tetanus, polio, Hepatitis B and Hib. For pertussis there is no serological correlate of protection. However, as the immune response to pertussis antigens following *Infanrix hexa*[™] administration is equivalent to that of *Infanrix*[™], the protective efficacy of the two vaccines is expected to be equivalent.

Efficacy in protecting against pertussis

The protective efficacy of the pertussis component of **Infanrix™** against WHO-defined typical pertussis (≥ 21 days of paroxysmal cough) was demonstrated after 3-dose primary immunisation in the studies tabulated below:

Study	Country	Schedule	Vaccine efficacy	Considerations
Household contact study (prospective blinded)	Germany	3,4,5 months	88.7%	Based on data collected from secondary contacts in households where there was an index case with typical pertussis
Efficacy study (NIH sponsored)	Italy	2,4,6 months	84%	In a follow-up of the same cohort, the efficacy was confirmed up to 60 months after completion of primary vaccination without administration of a booster dose of pertussis.

Immunogenicity in preterm infants

The immunogenicity of **Infanrix hexa™** was evaluated across three studies including approximately 300 preterm infants (born after a gestation period of 24 to 36 weeks) following a 3-dose primary vaccination course at 2, 4 and 6 months of age. The immunogenicity of a booster dose at 18 to 24 months of age was evaluated in approximately 200 preterm infants.

One month after primary vaccination at least 98.7% of subjects were seroprotected against diphtheria, tetanus and poliovirus types 1 and 2; at least 90.9% had seroprotective antibody levels against the hepatitis B, PRP and poliovirus type 3 antigens; and all subjects were seropositive for antibodies against FHA and PRN while 94.9% were seropositive for anti-PT antibodies.

One month after the booster dose at least 98.4% of subjects had seroprotective or seropositive antibody levels against each of the antigens except against PT (at least 96.8%) and hepatitis B (at least 88.7%). The response to the booster dose in terms of fold increases in antibody concentrations (15- to 235-fold), indicate that preterm infants were adequately primed for all the antigens of **Infanrix hexa™**.

In a follow-up study, approximately 2.5 to 3 years after the booster dose, 85.3% of the children were still seroprotected against hepatitis B and at least 95.7% were seroprotected against the three poliovirus types and PRP.

Persistence of the immune response

The persistence of the immune response to a 3-dose primary and booster schedule with **Infanrix hexa™** was evaluated in children 4-8 years of age. Protective immunity against the three poliovirus types and PRP was observed in at least 91.0% of children and against diphtheria and tetanus in at least 64.7% of children. At least 25.4% (anti-PT), 97.5% (anti-FHA) and 87.0% (anti-PRN) of children were seropositive against the pertussis components.

With regards to hepatitis B, protective immunity following a 3-dose primary and booster schedule with **Infanrix hexa™** has been shown to persist in $\geq 85\%$ of subjects 4-5 years of age and in $\geq 72\%$ of subjects 7-8 years of age. Additionally, following a 2-dose primary and booster schedule, protective immunity against hepatitis B persisted in $\geq 48\%$ of subjects 11-12 years of age.

Hepatitis B immunological memory was confirmed in children 4 to 12 years of age. These children had received **Infanrix hexa™** as primary and booster vaccination in infancy, and when an additional

dose of monovalent HBV vaccine was administered, protective immunity was induced in at least 96.8% of subjects.

Post marketing experience

Results of long term follow-up in Sweden demonstrate that acellular pertussis vaccines are efficacious in infants when administered according to the 3 and 5 months primary vaccination schedule, with a booster dose administered at approximately 12 months. However, data indicate that protection against pertussis may be waning at 7-8 years of age. This suggests that a second booster dose of pertussis vaccine is warranted in children aged 5-7 years who have previously been vaccinated following this schedule.

The effectiveness of the Hib component of *Infanrix hexa*[™] was investigated via an extensive post-marketing surveillance study conducted in Germany. Over a seven year follow-up period, the effectiveness of the Hib components of two hexavalent vaccines, of which one was *Infanrix hexa*[™], was 89.6% for a full primary series and 100% for a full primary series plus booster dose (irrespective of the Hib vaccine used for priming).

Infanrix hexa[™] has been the principal Hib-containing vaccine available in Italy since 2006. The vaccine is administered at 3, 5 and 11 months of age and coverage has exceeded 95%. Hib disease has continued to be well controlled, with no more than three confirmed Hib cases reported annually between 2006 and 2011 in Italian children aged less than 5 years.

5.2 Pharmacokinetics

Evaluation of pharmacokinetic properties is not required for vaccines.

Clinical Studies

See *Pharmacodynamics*.

5.3 Pre-clinical Safety Data

Preclinical data reveal no special hazard for humans based on conventional studies of safety, specific toxicity, repeated dose toxicity and compatibility of ingredients.

6. PHARMACEUTICAL PARTICULARS

6.1 List of Excipients

Lactose, sodium chloride (NaCl), Medium 199 (as stabilizer containing amino acids, mineral salts and vitamins), water for injections.

Potassium chloride, disodium phosphate, monopotassium phosphate, polysorbate 20 and 80, glycine, formaldehyde, neomycin sulphate, polymyxin B sulphate are present as residuals from the manufacturing process.

6.2 Incompatibilities

Infanrix hexa[™] should not be mixed with other vaccines in the same syringe.

6.3 Shelf Life

3 years

After reconstitution: an immediate use is recommended. However the stability has been demonstrated for 8 hours at 21°C after reconstitution.

6.4 Special Precautions for Storage

Infanrix hexa[™] should be stored at +2°C to +8°C.

The DTPa-HBV-IPV suspension and the reconstituted vaccine must not be frozen. Discard if it has been frozen.

Protect from light.

During transport, recommended conditions of storage must be respected.

Stability data indicate that the vaccine components are stable at temperatures up to 25°C for 72 hours. These data are intended to guide healthcare professionals in case of temporary temperature excursion only.

6.5 Nature and Contents of Container

The DTPa-HBV-IPV component is presented in a pre-filled syringe or vial.

The Hib component is presented in a glass vial.

The vials and pre-filled syringes are made of neutral glass type I, which conforms to European Pharmacopoeia Requirements.

6.6 Instructions for Use/Handling

Vial and pre-filled syringe presentation

The DTPa-HBV-IPV suspension should be well shaken in order to obtain a homogeneous turbid white suspension. The DTPa-HBV-IPV suspension and the Hib powder should be inspected visually for any foreign particulate matter and/or variation of physical aspect. In the event of either being observed, discard the vaccine.

Infanrix hexa[™] must be reconstituted by adding the entire content of the pre-filled syringe to the vial containing the Hib powder. The mixture should be well shaken until the powder is completely dissolved in the suspension.

It is good clinical practice to only inject a vaccine when it has reached room temperature. In addition, a vial at room temperature ensures sufficient elasticity of the rubber closure to minimise any coring of rubber particles. To achieve this, the vial should be kept at room temperature (25 ± 3 °C) for at least five minutes before connecting the pre-filled syringe and reconstituting the vaccine.

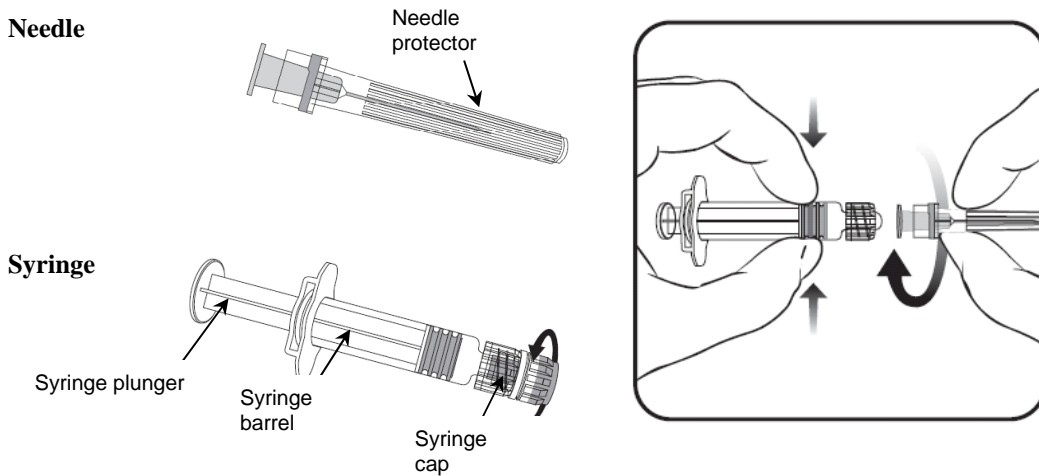
The reconstituted vaccine presents as a slightly more cloudy suspension than the liquid component alone. This is a normal observation.

The reconstituted vaccine should be inspected visually for any foreign particulate matter and/or abnormal physical appearance. In the event of either being observed, discard the vaccine.

After reconstitution, the vaccine should be injected immediately. However the vaccine may be kept for up to 8 hours at room temperature (21°C).

Withdraw the entire content of the vial.

- **Specific instructions for the pre-filled syringe with a luer lock adaptor (PRTC)**



1. Holding the syringe **barrel** in one hand (avoid holding the syringe plunger), unscrew the syringe cap by twisting it anticlockwise.
2. To attach the needle to the syringe, twist the needle clockwise into the syringe until you feel it lock (see picture).
3. Remove the needle protector, which on occasion can be a little stiff.
4. Administer the vaccine.

Vial and vial presentation

Infanrix hexa[™] must be reconstituted by adding the entire content of the vial containing the DTPa-HBV-IPV suspension to the vial containing the Hib powder. To do so, draw up the suspension with a syringe and add the suspension to the powder. The mixture should be well shaken until the powder is completely dissolved in the suspension.

The reconstituted vaccine presents as a slightly more cloudy suspension than the liquid component alone. This is normal and does not impair the performance of the vaccine.

The reconstituted vaccine should be inspected visually for any foreign particulate matter and/or abnormal physical appearance. In the event of either being observed, discard the vaccine.

A new needle should be used to administer the vaccine.

After reconstitution, the vaccine should be used immediately.

Withdraw the entire content of the vial.

Any unused product or waste material should be disposed of in accordance with local requirements.

For further information, please contact the manufacturer.

Not all presentations are available in every country.

Infanrix hexa is a trademark of the GlaxoSmithKline group of companies.

7. MANUFACTURER

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8. MARKETING AUTHORISATION HOLDER

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9. DATE OF FINAL REVISION OF THE TEXT

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