INFANRIX hexa Newborn Use Only

Alert	Ensure the pre-filled syringe containing the diphtheria, tetanus and pertussis toxoid is mixed with
	the vial containing the HIB component of the vaccine.
	Register the vaccination with the National Immunisation Registry by faxing a copy of the
	immunisation details from "My personal health record" to Anne Allen on 93824309.
Indication	1. Primary immunisation against diphtheria, tetanus, pertussis, hepatitis B, poliomyelitis and
	Haemophilus influenzae type B in infants at 6 weeks/2 months, 4 and 6 months of age.
	2. Catch-up vaccination schedules in children < 10 years of age.
Action	Induces the production of antibodies against diphtheria, tetanus, pertussis, hepatitis B,
	poliomyelitis and Haemophilus influenzae type B infection.
Drug Type	Vaccine. Combined diphtheria and tetanus toxoids, acellular pertussis antigens, hepatitis B
0 //	(recombinant) surface antigen, inactivated polio virus and adsorbed conjugated Haemophilus
	influenzae type b polysaccharide.
Trade Name	INFANRIX hexa
Presentation	Pellets in a vial with suspension for injection in a pre-filled syringe.
Dosage/Interval	0.5 mL
	IM
Proparation /Dilution	See below
ricparation, Bhation	
Administration	 May administer oral sucrose 2 minutes prior to injection (observe local pain policy). Shake well the pre-filled syringe.
	3. Add its contents to the vial of Hib pellet and shake until pellet is completely dissolved.
	4. Administer 0.5 ml of reconstituted suspension by intramuscular injection (IMI) to the
	anterolateral aspect of the thigh (slowly to reduce pain).
	5. Administer on the opposite limb from other concurrently administered vaccines (e.g. Prevenar
	13).
Monitoring	Observe for 15 minutes after vaccination for any Adverse Event Following Immunisation (AEFI).
0	Pain: Refer to local pain relief policy.
	Apnoea and bradycardia in premature infants for up to 48 hours.
	Infants with a history of febrile convulsions should be closely followed up as such adverse events
	may occur within 2 to 3 days post-vaccination.
Contraindications	Anaphylaxis following a previous dose of any DTPa vaccine.
	Hypersensitivity to any vaccine component.
Precautions	Significant acute illness or temperature greater than 38.5°C – postpone vaccine until
	neonatologist approves.
	If the infant has experienced an encephalopathy of unknown aetiology occurring within 7 days
	after previous vaccination with a pertussis containing vaccine.
	The following reactions to a previous dose may preclude further doses: - Convulsions within 3 days.
	- Persistent, severe, inconsolable or crying for three or more hours within 48 hours.
	- Unexplained temperature > 40.5°C within 48 hours.
	Immunosuppressed patients
	Thrombocytopenia or bleeding disorders.
	Children who have had a hypotonic/hyporesponsive episode (HHE) within 48 hours of vaccination
	with a DTPa containing vaccine should receive further doses as advised by the Adverse Events
	after Immunisation Clinics.
Drug Interactions	Tetanus Immune Globulin or Diphtheria Antitoxin, if used, should be given at a separate site, with
	a separate needle and syringe.
	Should not be given to infants or children on anticoagulant therapy unless the potential benefit
	clearly outweighs the risk of administration.
	Immunosuppressive therapies, including irradiation, antimetabolites, alkylating agents, cytotoxic
	drugs and corticosteroids (used in greater than physiologic doses), may reduce the immune
	response to vaccines.

Neonatal Medicines Formulary Consensus GroupINFANRIX hexaPage 1 of 3This RHW document is a modification of Neomed version. Dosage schedules remain the same. However, information on the
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INFANRIX hexa Newborn Use Only

Advarca Basations	Common: Pain, inflammation, redness, injection site mass persisting for up to a few days.
Adverse Reactions	Uncommon: Headache, fever, lethargy, malaise, myalgia.
	Rare: Anaphylaxis, urticaria and peripheral neuropathy.
	Any serious or unexpected adverse event following immunisation should be reported promptly.
	Providers should use clinical judgment in deciding which adverse events to report and
	parents/carers should be encouraged to notify the immunisation service provider or health
	authorities of any untoward medical occurrence that follows immunisation. Each State/Territory
	has its own contact details for notification. Contact telephone number for NSW Public Health Unit
	is 1300 066 055.
Compatibility	NA
Incompatibility	Do not mix with any other vaccines in the same syringe.
Stability	After reconstitution, the vaccine should be injected promptly.
-	However, the vaccine is stable for up to eight hours at room temperature.
Storage	Store between 2 and 8°C. Do NOT freeze. Discard if the vaccine has been frozen.
	Protect from light.
Special Comments	1. Do not give INFANRIX hexa at birth.
	2. Preterm infants should be vaccinated according to their chronological age from birth.
	3. Immune response to some Hib conjugate vaccines has been reduced in infants born
	prematurely.
	4. The first dose of INFANRIX hexa can be given at 6 weeks of age due to the high morbidity and
	occasional mortality associated with pertussis in very young infants. If the first dose is given at
	6 weeks of age, the next scheduled doses should still be at 4 and 6 months.5. Paracetamol may be prescribed (15 mg/kg/dose) for administration at 4 hourly intervals after
	immunisation (maximum of 4 doses in a 24 hour period) for a fever > 38.5°C or significant
	pain if the child is miserable. Prophylactic administration of paracetamol at the time of, or
	immediately after, vaccination to reduce the risk of fever is not routinely recommended, with
	the exception of children < 2 years of age receiving meningococcal B vaccine and whole cell
	pertussis (DTPa).
	6. The vastus lateralis muscle in the anterolateral thigh is the recommended site for IM
	vaccination in infants < 12 months of age. The deltoid muscle or ventrogluteal area is the
	recommended site for IM vaccination in children > 12 months of age.
	7. Children with congenital limb malformation(s) should receive their vaccines in an unaffected
	limb where possible. The ventrogluteal area can also be considered.
	8. NSW Health has provided free antenatal pertussis vaccinations for every woman during every
	pregnancy.
	9. There is currently no evidence to suggest infants require an extra DTPa vaccine at 18 months
	of age if their mother received antenatal pertussis vaccine.
	10. Interruption of the recommended schedule with a delay between doses should not interfere
	with the final immunity achieved with Infanrix hexa. Refer to The Australian Immunisation
	Handbook for catch-up schedule.
Evidence summary	Efficacy Infanrix hexa was highly immunogenic for the vaccine antigens diphtheria and tetanus toxoids,
	poliovirus type 1, 2 and 3 antigens, pertussis antigens (PT, FHA and PRN), HBsAg and the Hib
	antigen (polyribosylribitol phosphate [PRP]) both as primary and booster vaccination in healthy
	infants aged < 2 years, with antibodies against these antigens persisting in the long term. ⁶
	mants aged < 2 years, with antibodies against these antigens persisting in the long term.
	Seroprotective titres against these antigens were achieved in 95–100% of Infanrix hexa
	recipients. ⁶
	Wall astablished corplagical correlates of protection exist for antibadies against tataque
	Well-established serological correlates of protection exist for antibodies against tetanus, diphtheria, hepatitis B, polio and Hib. ⁷
	Infanrix hexa was administered concomitantly with a rotavirus vaccine (Rotarix) in a randomised,
	double-blind, placebo-controlled trial and with a 13-valent-pneumococcal vaccine (Prevenar-13) in
Neonatal Medicines For	mulary Consensus Group INFANRIX hexa Page 2 of 3

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	several studies. Limited data from these studies suggest that co-administration of these vaccines with Infanrix hexa does not affect the immunogenicity of either co-administered vaccine. ⁶ Infanrix hexa can be co-administered with other live or inactivated vaccines without interference on the immune response. ⁷ Safety
	In 2007 the Committee for Medicinal Products for Human Use reviewed cases of apnoea in preterm infants following vaccination and concluded that the apnoea occurred due to immaturity of the immune system. Hence, their recommendation to monitor very preterm infants for up to 48–72 hours after vaccination. ⁷
	Historical concerns about potential temporal association between sudden unexpected death (SUD) and hexavalent vaccines has been extensively investigated and in 2003 the European Medicines Agency concluded absence of a cause-effect relationship and no change in the benefit-risk profile of then available hexavalent vaccines. ⁷
	Available clinical data from more than 10 years' experience with the vaccine suggest that Infanrix hexa as primary and booster vaccination is a safe and useful option for providing protection against the common childhood diseases of diphtheria, tetanus, poliomyelitis, pertussis, hepatitis B and invasive Hib disease. ⁶
	Infanrix hexa was generally well tolerated as primary and booster vaccination in infants aged < 2 years, with most adverse local and general symptoms being mild to moderate in intensity. ⁸
References	 Australian Government Department of Health. The Australian Immunisation Handbook, 10th Edition 2013 (Updated June 2015) www.immunise.health.gov.au NSW Health. Antenatal Pertussis Vaccination: NSW Public Hospital Antenatal Clinic Guidelines. August 2015. Australian Government Department of Health and Aging. National Vaccine Storage Guideline- Strive for Five. 2nd Edition. 2013.
	 4. MIMS online available via CIAP. Accessed 9/3/16 5. Product Monograph: INFANRIX® hexa. ©2015 GlaxoSmithKline Inc., All Rights Reserved 6. Dhillon S. DTPa-HBV-IPV/Hib Vaccine (Infanrix hexa): A Review of its Use as Primary and Booster Vaccination. Drugs 2010; 70(8): 1021-58.
	 7. Baldo V, Bonnani P, Castro M & et al. Combined hexavalent diphtheria-tetanus-acellular pertussis-hepatitis B-inactivated poliovirus-Haemophilus influenzae type b vaccine – Infanrix hexa. Human Vaccines & Immunotherapeutics 2014; 10 (1): 129-137. 8. European Medicines Agency. Infanrix hexa: summary of product characteristics [online]. 9. New South Wales Immunisation schedule April 2016.

Original version Date: 15/11/2016	Author: Neonatal Medicines Formulary Consensus Group
Current Version number: 1.0	Current Version Date: 15/11/2016
Risk Rating: Medium	Due for Review: 15/11/2019
Approval by: As per Local policy	Approval Date:

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