

## NEONATAL MEDICATION PROTOCOLS

**HEPATITIS B VACCINE**  
Created by: NCCU  
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NCCU Clinical Guidelines  
KEMH/PMH  
Perth, Western Australia

<b>DRUG:</b>	<b>HEPATITIS B VACCINE</b>
<b>PRESENTATION:</b>	Unit dose syringe: H-B-Vax II Preservative-free 0.5mL (5 micrograms ) <b>or, if this is unavailable</b> ENGERIX-B Thiomersal-free 0.5mL ( 10 micrograms )
<b>ACTION &amp; INDICATION:</b>	Hepatitis B surface antigen induces protective antibody formation to Hepatitis B virus (Anti-HBs). Used as prophylaxis for all infants and for the management of babies born to HBs Ag positive mothers.
<b>DOSE:</b>	0.5mL The different brands may be interchanged. <b>For preterm infants &lt;32 weeks of age :</b> 1 <sup>st</sup> dose at birth or no later than 7 days of age 2 <sup>nd</sup> dose at 2 months 3 <sup>rd</sup> dose at 4 months 4 <sup>th</sup> dose at 6 months 5 <sup>th</sup> dose at 12 months if antibody titre low  <b>If infant less than 1000g omit birth dose and give first dose at 2 months of age.</b>  <b>All other infants :</b> 1 <sup>st</sup> dose at birth or in the first 7 days of life 2 <sup>nd</sup> dose at 2 months of age 3 <sup>rd</sup> dose at 4 months of age 4 <sup>th</sup> dose at either 6 or 12 months
<b>ADMINISTRATION:</b>	Intramuscular injection: As per NCCU policy. Withhold dose if there is a known or suspected coagulopathy <b>DO NOT GIVE INTRAVENOUSLY OR INTRADERMALLY</b> Administer in anterolateral thigh
<b>ADVERSE EFFECTS:</b>	Swelling, erythema, soreness at injection site
<b>COMMENTS:</b>	<b>Hepatitis B vaccine is now recommended for all children. If the monovalent dose at birth is missed, vaccination against Hepatitis B should be continued with a multivalent vaccine following the routine schedule.</b>  <b>Hepatitis B vaccine is a component of Infanrix Hexa, and is administered in this form at 2,4 and 6 month doses.</b>  <b>When available, it is preferable to administer H-B-Vax II PRESERVATIVE-FREE.</b>  <b>For infants of Hepatitis B positive mothers on the day of birth:</b> IM Hepatitis B immunoglobulin 100 IU to be given in conjunction with initial Hepatitis B vaccine. These products must be administered separately and in different sites. Current information from the Health Department regarding the different manufacturers of the vaccine states that although ENGERIX B Vaccine = 10microgram/0.5mL and H-B –VAX 11 = 5microgram/0.5mL the required dose is still 0.5mL
<b>REFERENCES:</b>	The Australian Immunisation Handbook 10 <sup>th</sup> Ed 2013 NH&MRC National Immunisation Program Schedule 1 <sup>st</sup> July 2013
<b>DATE:</b>	September 2013