

<b>DRUG:</b>	<b>INSULIN HUMAN, NEUTRAL (ACTRAPID / HUMULIN-R)</b>
<b>PRESENTATION:</b>	Vial: 100 units/mL 10mL
<b>ACTION &amp; INDICATION:</b>	A pancreatic hormone. It promotes cellular uptake of glucose, fatty acids and amino acids, and their conversion to storage forms in most tissues. Used in (a) patients with glucose intolerance, and (b) in the reduction of elevated blood potassium levels.
<b>DOSE:</b>	IV/SC: 0.05 – 0.2 units/kg/dose 6 to 12 hourly Infusion: Initial dose: 0.01 – 0.1 units/kg/hour  <b>TITRATE TO PATIENT REQUIREMENTS</b>
<b>PREPARATION:</b>	<i>Use solution prepared by Pharmacy. If unavailable dilute as follows:</i>  Diluent: 0.9% Sodium chloride and Glucose solutions. Albumin 0.3g/100mL may be added to infusion solutions containing insulin to reduce absorption to plastic.  Draw up 0.5mL (50 units) and dilute to 50mL with Water for Injections 50 units in 50mL 1unit in 1mL  Dilute 3mL (3 units) per kilogram of baby's weight of the 1 unit in 1mL insulin dilution to make a final volume of 30mL (0.1unit/kg/mL) 0.5mL/hr = 0.05 units/kg/hr 1 mL/hr = 0.1 units/kg/hr  <b>If a more concentrated solution is required</b> Draw up 0.5mL ( 50 units) and dilute to 10mL with Water for Injections 50 units in 10mL <b>0.5 units in 0.1mL</b>
<b>ADMINISTRATION:</b>	Intravenous injection over 3 – 5 minutes. Intravenous infusion via syringe pump. To prime the line for IV infusion, make up double volume of the concentration required. Prime the line, wait 20 minutes, then discard contents in line. Re-prime the line and infusion is then ready to commence. Subcutaneous: As per NCCU policy.
<b>ADVERSE EFFECTS:</b>	Hypoglycaemia  <b>CLOSE MONITORING OF PLASMA GLUCOSE LEVELS IS MANDATORY</b>
<b>COMMENTS:</b>	Discard excess solution immediately
<b>REFERENCES:</b>	Neofax 2008 Neonatal Pharmacopoeia 2 <sup>nd</sup> Ed Royal Women's Hospital Melbourne
<b>DATE:</b>	January 2011