



NEONATAL MEDICATION PROTOCOLS

CALCIUM GLUCONATE
Created by: NCCU
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NCCU Clinical Guidelines
KEMH/PMH
Perth, Western Australia

DRUG:	CALCIUM GLUCONATE
PRESENTATION:	Ampoule: 1g in 10mL, (10%). (contains 0.22mmol Calcium per mL)
ACTION & INDICATION:	Intravenous electrolyte for the treatment of hypocalcaemia Ionized calcium less than 0.65mmol/l (<0.75mmol/l if symptomatic) Hyperkalaemia
DOSE:	Usual dose: 500mg (5mL of 10% ampoule solution) /kg/24 hours Maximum dose: 800mg/kg/24hours In hypocalcaemia seizures: Withdraw 2mL/kg of 10% solution and dilute with an equal amount of compatible fluid. Slow infusion over 10 minutes with ECG monitoring. Stop infusion if bradycardia occurs.
PREPARATION:	For continuous infusion: Withdraw 5mL/kg of 10% calcium gluconate. Dilute to 25mL with appropriate diluent. Compatible fluids: 5% and 10% Glucose, sodium chloride 0.9%, 7.5% glucose in sodium chloride 0.18%
ADMINISTRATION:	For intravenous use only Infuse at 1mL/hour Give via a central line, if available. If giving through UVC make sure the tip of the UVC is not in the heart or the liver.
ADVERSE EFFECTS:	Extravasation causes tissue necrosis. Rapid infusion may cause bradycardia, hypotension, and peripheral vasodilation.
COMMENTS:	Monitor serum calcium and ionized calcium concentrations. Monitor ECG when bolus doses are given. DO NOT MIX WITH SODIUM BICARBONATE
REFERENCES:	Paediatric Pharmacopoeia 13 th Ed Royal Children's Hospital Melbourne Pediatric Dosage Handbook 17 th Ed
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