## **SODIUM CHLORIDE 3%**

### **NEWBORN USE ONLY**

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Alert	Osmolarity: 1027 mOsm/L.¹ Sodium supplementation is not always appropriate and fluid	
	restriction may be appropriate in the management of hyponatraemia. Treatment should	
	always be tailored to the cause.	
Indication	Treatment of hyponatraemia.	
Action	Sodium is the major cation of extracellular fluid.	
Drug Type	Sodium chloride 3% contains 30 g/L sodium chloride, equivalent to 0.5 mmol/mL of sodium.	
Trade Name	Sodium chloride 3%	
Presentation	Sodium chloride 3% – 1000 mL.	
Dosage/Interval	Severe hyponatraemia < 120 mmol/L or symptomatic hyponatraemia	
	IV: Give sodium chloride 3% at 0.5 mmol/kg/hour (1 mL/kg/hour) until symptoms	
	abate or sodium ≥ 120 mmol/L.*	
	Then give sodium chloride 3% at 0.15 mmol/kg/hour (0.3 mL/kg/hour) for 48 hours or	
	until desired sodium is achieved.	
	[Therapeutic goal is to increase sodium by 7 mmol/L/day]	
	[Therapeutic goal is to increase socium by 7 minor/L/day]	
	*1 mL/kg sodium chloride 3% will raise serum sodium by approximately 1 mmol/L. <sup>2</sup>	
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	IV supplementation	
	Start at 2–4 mmol/kg/day and increase as required.	
Route	IV IV	
Maximum Dose		
Preparation/Dilution	IV: Sodium chloride 3% can be given undiluted.	
Administration	IV:	
	Sodium chloride 3% – Can be given undiluted as an infusion, preferably through large vein.	
Monitoring	IV: Watch the local site for signs of extravasation.	
	Monitor serum sodium as per clinical team's recommendation.	
Contraindications	IV: No information.	
Precautions	Impaired renal function, cardiac insufficiency, pre-existing oedema with sodium retention.	
Drug Interactions	No information.	
Adverse Reactions	Hypernatraemia, volume overload, congestive heart failure, respiratory distress.	
	Hyperchloraemia, hypercalciuria.	
	Disseminated intravascular coagulation (DIC) is associated with inadvertent injections of	
	sodium chloride into blood vessels of the uterus or placenta due to hypernatraemic shock; not	
	reported in infants.	
	Osmotic demyelinating syndrome.	
	Fever.	
	IV site: Extravasation, phlebitis, venous thrombosis.	
Compatibility	IV Fluids: Glucose 5%, glucose 10%, glucose 5% in sodium chloride 0.9%, glucose 5% in sodium	
	chloride 0.45%, sodium chloride 0.9%, sodium chloride 0.45%.	
	Visitas Na information	
	Y site: No information.	
Incompatibility	IV Fluids: Fat emulsion.	
	Walter No information	
	Y site: No information.	
	Amino acid solutions – No information.	
Stability	Amino acia solutions – No information.	
	Store at room temperature 20–25°C	
Storage Special Comments	Store at room temperature, 20–25°C  Osmolarity of undiluted hypertonic sodium chloride is > 1000 mOsm/L, posing the risk of	
Special comments	extravasation for peripheral IV solutions. <sup>3,4</sup> Monitor for extravasation when infused	
	peripherally at higher rates.	
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	Total body water is traditionally calculated as weight x 0.6 in children. Greater total body water content in newborns should be considered and therefore should be calculated as weight x 0.75. <sup>2,5</sup>	
Evidence summary	Refer to full version.	
References	Refer to full version.	

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