

SCOPE: ALS, CCT,																					
MEDICATION:	DEXTROSE																				
INTERVENTION:	<p><u>Classification:</u> Antihypoglycemic, monosaccharide</p> <p><u>Actions:</u> A source of calories and fluid, may decrease body protein and nitrogen losses; promotes glycogen deposition in the liver. When used in the treatment of hyperkalemia (combined with insulin), it stimulates the transient uptake of potassium by cells, especially in muscle tissue, lowering serum potassium.</p> <p><u>Contraindications:</u></p> <ul style="list-style-type: none"> • Hypersensitivity to corn or corn products • Intracranial or intraspinal hemorrhage • Diabetic coma (DKA) • Delirium tremens • Severe dehydration • Glucose-galactose malabsorption syndrome • PREGNANCY RISK FACTOR: C <p><u>Precautions:</u></p> <ul style="list-style-type: none"> • Diabetes • Hyperkalemia • Very low birth weight infants (excessive or rapid dextrose administration in very low birth weight infants has been associated with increased serum osmolality and possible intracerebral hemorrhage) <p><u>Concentration:</u></p> <table border="1" style="width: 100%; border-collapse: collapse; margin: 5px 0;"> <thead> <tr> <th style="text-align: left;">Concentration</th> <th style="text-align: left;">D50 Needed</th> <th style="text-align: left;">IVF Solution Waste</th> <th style="text-align: left;">IVF Solution</th> </tr> </thead> <tbody> <tr> <td>D5 0.45% NS</td> <td>50 ml</td> <td>50 ml</td> <td>500 ml</td> </tr> <tr> <td>D5LR</td> <td>100 ml</td> <td>100 ml</td> <td>1000 ml</td> </tr> <tr> <td>D10</td> <td>50 ml</td> <td>50 ml</td> <td>250 ml</td> </tr> <tr> <td>D12.5</td> <td>5 ml</td> <td>5 ml</td> <td>95 ml D10W</td> </tr> </tbody> </table> <p><u>Dosage:</u></p> <ol style="list-style-type: none"> I. <u>Hypoglycemia:</u> <ol style="list-style-type: none"> a. Adult (BG < 60 mg/dL): <ol style="list-style-type: none"> i. IV/IO: 1 amp D50 b. Pediatric (BG < 60 mg/dL): <ol style="list-style-type: none"> i. IV/IO: 4ml/kg D25 may repeat every 15 minutes x 2 c. Neonate (BG<50 mg/dL): <ol style="list-style-type: none"> i. IV/IO: 2ml/kg D10, at a rate of 1mL/minute, may repeat every 15 minutes x 2 II. <u>Hyperkalemia:</u> <ol style="list-style-type: none"> a. Adult <ol style="list-style-type: none"> i. Check BG (before administration) 25g (1 amp D50) IV push <p><u>Onset of Action:</u> Oral: 10 mins; IV: rapid</p> <p><u>Duration:</u> Time to peak (oral): 40mins; Max effect: treatment of hyperkalemia, IV: 30 mins</p>	Concentration	D50 Needed	IVF Solution Waste	IVF Solution	D5 0.45% NS	50 ml	50 ml	500 ml	D5LR	100 ml	100 ml	1000 ml	D10	50 ml	50 ml	250 ml	D12.5	5 ml	5 ml	95 ml D10W
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If this is a patient care policy, the information contained herein is used to provide guidance in the care of patients, but should not, and does not replace or preclude the use of clinical judgment.

FOR OFFICE USE ONLY	
Originator:	Original Date:
Revised Date:	
Effective Date: 06/01/18	Page 1 of 2

	<p><u>Adverse Effects:</u> Phlebitis, venous thrombosis, confusion, loss of consciousness, dehydration, glycosuria, hyperglycemia, hyperosmolar syndrome, hypervolemia, hypokalemia, pulmonary edema, hypersensitivity reaction (including anaphylaxis)</p> <p><u>Special Considerations:</u></p> <ol style="list-style-type: none">I. Rebound hypoglycemia may be associated with abrupt withdrawalII. Ensure proper catheter or needle size and position prior to and during infusion and avoid extravasation
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