

SCOPE: ALS, CCT	
<b>MEDICATION:</b>	<b>CALCIUM CHLORIDE</b>
<b>INTERVENTION:</b>	<p><u>Classification:</u> Electrolyte</p> <p><u>Actions:</u> Cation essential for maintenance of the functional integrity of nervous, muscular and skeletal systems, cell membranes, capillary permeability, enzymatic reactions; transmission of nerve impulses; contraction of cardiac, smooth and skeletal muscles; renal function; blood coagulation, and endocrine/exocrine gland secretion activity</p> <p><u>Contraindications:</u></p> <ul style="list-style-type: none"> <li>• Ventricular fibrillation during cardiac resuscitation</li> <li>• Digitalis toxicity</li> <li>• Hypercalcemia</li> </ul> <p><u>Precautions:</u></p> <ul style="list-style-type: none"> <li>• Concomitant use of digitalis drugs</li> <li>• Injection rate greater than 0.5-1ml/min not recommended</li> <li>• May antagonize the effects of Verapamil</li> <li>• <b>PREGNANCY RISK FACTOR: C</b></li> </ul> <p><u>Dosage:</u></p> <p>I. <u>Hyperkalemia (i.e. Crush injury):</u></p> <ol style="list-style-type: none"> <li>a. Adult:           <ol style="list-style-type: none"> <li>i. IV/IO: 500-1000 mg IV/IO SLOW IVP</li> </ol> </li> <li>b. Pediatric:           <ol style="list-style-type: none"> <li>i. IV/IO: Consult Medical Control</li> <li>ii. For arrhythmias 20 mg/kg IV/IO over 3 minutes (dilute 1:1 with sterile water or NS)</li> </ol> </li> </ol> <p>II. <u>Beta Blocker, Magnesium Sulfate and Calcium Channel Blocker overdose:</u></p> <ol style="list-style-type: none"> <li>a. Adult:           <ol style="list-style-type: none"> <li>i. IV/IO: 1 amp               <ol style="list-style-type: none"> <li>1. Primary agent in Calcium Channel Blocker OD</li> </ol> </li> </ol> </li> <li>b. Pediatrics:           <ol style="list-style-type: none"> <li>i. IV/IO: Consult Medical Control</li> </ol> </li> </ol> <p><u>Onset of Action:</u> 5-15 minutes</p> <p><u>Duration:</u> Dose dependent (Effects may persist for four hours following IV administration)</p> <p><u>Adverse Effects:</u> Decreased HR, asystole, hypotension, ventricular fibrillation, coronary &amp; cerebral artery spasm, nausea/vomiting</p> <p><u>Special Considerations:</u></p> <ol style="list-style-type: none"> <li>I. Precipitates with Sodium Bicarbonate, Epinephrine, and Potassium Phosphate</li> <li>II. When given with Digoxin, can cause elevated Digoxin levels and possible digitalis toxicity</li> </ol>

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.

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Revised Date:		
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	III. May cause a “metallic taste”, burning sensation, “heat waves”, bradycardia, hypotension, cardiac arrhythmias, extravasation may cause tissue necrosis, vasospasm in coronary and cerebral arteries, nausea/vomiting
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