**Calcium Gluconate**

### Description of Use:
- Essential for the function and integrity of the nervous, muscular, and skeletal systems. Plays an important role in normal cardiac and renal functions, respiration, blood coagulation, cell membrane and capillary permeability. Assists in regulating the release and storage of neurotransmitters and hormones.

### Pharmacokinetics: (Route: IV)
- Onset: Unknown
- Duration: Unknown
- Half-life: Unknown

### Special Populations:
- Pregnancy Category: C
- Children: Extreme irritation, possible tissue necrosis or sloughing with IV. Restrict IV use due to small vasculature.
- Elderly: Oral absorption may be decreased.

### Contraindications:
- Hypercalcemia, ventricular fibrillation.
- Cautions: Digoxin toxicity, dehydration, history of renal calculi, chronic renal impairment, decreased cardiac function.

### Adverse reactions:
- Peripheral Vasodilation, local “burning” sensation, decreased BP

### Hydrofluoric Acid Exposures and Burns

<table>
<thead>
<tr>
<th>B</th>
<th>2.5% Calcium Gluconate Gel</th>
<th>Adult</th>
<th>After thorough irrigation, apply to burned area q 15 minutes</th>
</tr>
</thead>
<tbody>
<tr>
<td>P</td>
<td>Calcium Gluconate Nebulized (mix 1mL of CG with 3mL’s of NS)</td>
<td>Adult</td>
<td>2.5% as mixed above nebulized</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pediatric</td>
<td>Same (monitor closely) <a href="#">Weight Based Pediatric Dosing Chart Link</a></td>
</tr>
<tr>
<td>P</td>
<td>Calcium Gluconate IV/IO</td>
<td>Adult</td>
<td>0.1 ml/kg up to 10 ml IV</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pediatric</td>
<td>Not indicated</td>
</tr>
</tbody>
</table>

### Adult Medical - Hyperkalemia
- Adult Cardiac Arrest
- Adult Medical - Drug Overdose

### Adult
- 3 Gram IV/IO

### Pediatric
- Not indicated