

Initial Date: 07/19/2023

Revised Date:

Section: 9-41R

## ***Sodium Bicarbonate***

**Pharmacological Category:** Alkalinizing Agent; Antacid; Electrolyte Supplement,

### **Indications:**

1. Cardiac arrest in dialysis patient with suspected hyperkalemia
2. Symptomatic tricyclic antidepressant overdose
3. Acidosis related to crush injury
4. Hyperkalemia

### **Contraindications:**

1. Severe pulmonary edema
2. Known Alkalosis

### **Precautions:**

1. Must flush IV line between medications
  - a. Calcium and epinephrine are not compatible with sodium bicarbonate
2. Administer slowly

### **Dosing: GENERAL CRUSH INJURY**

Indication: If extrication is prolonged, and/or hyperkalemia is suspected.

Adults administer:

1. Sodium bicarbonate 100 mEq IVP prior to extrication. May repeat 50 mEq/hr IVPB or slow IVP

Pediatrics administer:

1. Sodium bicarbonate according to MI MEDIC cards
2. If MI MEDIC cards are not available administer Sodium bicarbonate 1 mEq/kg (max dose 50 mEq) IVP

### **Dosing: POSIONING/OVERDOSE/ENVIRONMENTAL EXPOSURE GENERAL CRUSH INJURY**

Indication: symptomatic tricyclic antidepressant ingestions (tachycardia, wide complex QRS)

Adults administer:

1. Sodium bicarbonate 50 mEq IV. Repeat as needed

Pediatrics administer:

1. Sodium bicarbonate according to MI MEDIC cards.
2. If MI MEDIC cards are not available administer Sodium bicarbonate 1 mEq/kg IV.  
Repeat as needed

### **Dosing: ADULT CARDIAC ARREST**

Indications: Cardiac arrest with known or highly suspected tricyclic antidepressant overdose or known or highly suspected hyperkalemia (e.g., dialysis patient, EKG changes)

Adults administer:

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1. Sodium bicarbonate 1 mEq/kg IV/IO

**Dosing: PEDIATRIC CARDIAC ARREST**

Indication: Cardiac arrest with hyperkalemia (renal failure)

Pediatrics administer:

1. Sodium bicarbonate according to MI MEDIC cards
2. If MI MEDIC cards are not available administer Sodium bicarbonate 1 mEq/kg IV/IO

Used in the Following Protocols:

General Crush Injury (Section 2 Trauma and Environmental)

Poisoning/Overdose/Environmental Exposure (Section 2 Trauma and Environmental)

General Cardiac Arrest (Section 5 Adult Cardiac)

Pediatric Cardiac Arrest – General (Section 6 Pediatric Cardiac)