



El Dorado County Emergency Medical Services Agency

Quick Reference

Revised Date: July 1, 2020

Medication Profile

Sodium Bicarbonate

Class:

Alkalotic agent
Electrolyte

Action:

Sodium bicarbonate reacts with hydrogen ions (H^+) to form water and carbon dioxide and acts by buffering metabolic acids present in the body during and after severe hypoxia and/or inadequate tissue perfusion.

Onset: Immediate

Peak: Immediate

Duration: Unknown

Adult Administration:

- Cardiac Arrest/Tricyclic Overdose
 - 1mEq/kg IV/IO push. May repeat $\frac{1}{2}$ initial dose every 10-15 minutes
- Crush Syndrome
 - 1mEq/kg IV/IO push (Max dose 100mEq)

Pediatric Administration:

- Cardiac Arrest
 - 1mEq/kg IV/IO push. May repeat $\frac{1}{2}$ initial dose every 10-15 minutes
- Tricyclic Overdose
 - 1mEq/kg IV/IO push. May repeat $\frac{1}{2}$ initial dose every 10-15 minutes
 - Per Base MD Order
- Crush Syndrome
 - 1mEq/kg IV/IO push (Max dose 100mEq)
 - Per Base MD Order

Indications:

- Crush injury
- Cardio Pulmonary arrest when therapy And/or defibrillation has not been successful
- Overdose of tricyclic antidepressants

Contraindications:

Not significant

CNS: Dizziness, headache, irritability, twitching, weakness, brain cell injury, seizures

RESP: Pulmonary edema, hypoventilation

GI: Gastric distention, anorexia, cramps, nausea, vomiting

Side Effects:

CNS: Dizziness, headache, irritability, twitching, weakness, brain cell injury, seizures

RESP: Pulmonary edema, hypoventilation

GI: Gastric distention, anorexia, cramps, nausea, vomiting

GU: Renal calculi, impaired renal function, dehydration
MS:
Muscle cramps, pain, tetany
INTEG: Tissue sloughing at injection site with extravasation

Notes:

- Flush IV tubing before and after administration