# NORTH COAST EMERGENCY MEDICAL SERVICES

POLICIES AND PROCEDURES

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Subject: Scope of Practice/Procedure - ALS

**Sodium Bicarbonate** 

### **Associated Policies:**

### I. Class

A. Alkalizing agent, buffer.

#### II. Indications

- A. Prolonged cardiac arrest setting.
- B. Known pre-existing hyperkalemia.
- C. Known or suspected diabetic ketoacidosis.
- D. Tricyclic antidepressant overdose.
- E. Phenobarbital overdose.
- F. Consider use in traumatic crush type chest injuries.

# III. Therapeutic Effects

- A. Acts as a buffer but has several undesirable physiologic effects.
- B. Can reduce hyperkalemia secondary to acid base shifts.

### IV. Contraindications

- A. Absolute:
  - 1. Metabolic or respiratory alkalosis.
  - 2. History prolonged vomiting.
- B. Relative:
  - 1. Congestive heart failure.

### V. Adverse Effects

A. Alkalosis.

## VI. Administration and Dosage

- A. Adult: 1 mEq/kg IV, may repeat 0.5 mEq/kg every 10 minutes.
- B. Pediatric: 1 mEq/kg, IV or IO, may repeat 0.5 mEq/kg, every 10 minutes.
- C. Neonate: (< 5 kg) 4.2% 1 mEq/kg, IV or IO (Dilute 1 to 1 with IV solution) and give over 1 to 2 minutes.

## VII. Special Information

- A. Not recommended for routine use in cardiac arrest setting. Use only after intubation and adequate CPR with continuing arrest.
- B. Use with caution in patients who cannot tolerate a salt load.
- C. Can cause intracerebral hemorrhage especially in the pediatric patient.
- D. Precipitates if mixed with other medications.

Approved: Kartus

Approved as to Form: Cartus All

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