



# El Dorado County Emergency Medical Services Agency

## Quick Reference

Revised Date: July 1, 2020

### Medication Profile

#### **Normal Saline 0.9%**

##### **Class:**

Isotonic Crystalloid Solution that contains 154mEq/L of sodium ions and approximately 154mEq/L of chloride ions. Because the concentration of sodium is near that of the blood, the solution is considered isotonic.

##### **Action:**

Normal Saline replaced water and electrolytes.

**Onset:** 10-15 minutes

**Peak:** 1-hour

**Duration:** 4-6 hours

##### **Adult Administration:**

- Flow rate dependent on patient's condition
- Titrate to response of vital signs
- Fluid challenge = 250-500mL

##### **Pediatric Administration:**

- Flow rate dependent on patient's condition
- Titrate to response of vital signs
- Fluid challenge = 20mL/kg

##### **Indications:**

Shock  
Crush injury  
Burns  
Hypotension  
Heat illness  
Sepsis  
Tachycardia  
Traumatic cardiac arrest

##### **Contraindications:**

##### **Side Effects:**

Circulatory fluid overload

##### **Pregnancy:**

Category A

##### **Notes:**

- Monitor infusion rate closely and auscultate breath sounds prior to administration