**Class and Action:** Isotonic Crystalloid solution; replaces water and electrolytes.

**Indications:** Rehydration, volume replacement, metabolic acidosis related to renal insufficiency

**Contraindications:** Hyperkalemia, CHF, edema, sodium retention, renal failure

**Side Effects:** Fluid overload

**Drug Interactions:**

**Onset, Duration, and Routes:** Onset is immediate, duration is not applicable. Route of administration is IV or IO

**Adult Dose:**
- Patient Specific

**Pediatric Dose:**
- Patient Specific

**WDM EMS Protocols:**

**Special Considerations:**