

Southern Illinois Regional EMS System

JJ-13 FUROSEMIDE (LASIX)

1. Class:
 - 1.1. Loop diuretic.
2. Description:
 - 2.1. Furosemide is a potent diuretic that inhibits the reabsorption of sodium and chloride in the proximal tubule and loop Henle. Intravenous doses also can reduce cardiac preload by increasing venous capacitance.
3. Onset and Duration:
 - 3.1. Onset: IV diuretic effects within 15-20 minutes; vascular effects with 5 minutes.
 - 3.2. Duration: 2 hours.
4. Indications:
 - 4.1. Pulmonary edema associated with:
 - 4.1.1. Congestive heart failure.
 - 4.1.2. Hepatic or renal disease.
 - 4.1.3. Hyperkalemia.
5. Contraindications:
 - 5.1. Anuria (though loop diuretics can be used in patients reduced creatinine clearance).
 - 5.2. Hypersensitivity.
 - 5.3. Hypovolemia/dehydration.
 - 5.4. Known hypersensitivity to sulfonamides.
 - 5.5. Severe electrolyte depletion (Hypokalemia).
6. Adverse Reactions:
 - 6.1. Hypotension.
 - 6.2. ECG changes associated with electrolyte disturbances.
 - 6.3. Dry mouth.
 - 6.4. Hypochloremia.
 - 6.5. Hypokalemia.
 - 6.6. Hyponatremia.
 - 6.7. Hypercalcemia.
 - 6.8. Hyperglycemia.
 - 6.9. Hearing loss can occur rarely after too rapid infusion of large doses especially in patients with renal impairment.
7. Drug Interactions:
 - 7.1. Digitalis toxicity may be potentiated because of potassium depletion.
 - 7.2. Furosemide increases ototoxic potential of aminoglycoside antibiotics.
 - 7.3. Lithium toxicity may be potentiated because of sodium depletion.
 - 7.4. Furosemide may potentiate therapeutic effect of other antihypertensive drugs.
8. How Supplied:
 - 8.1. Parenteral: 10mg/ml in 2, 4, 8ml ampule, 10mg/ml in 10ml vial.

Southern Illinois Regional EMS System

JJ-11 FUROSEMIDE (LASIX)

(continued)

9. Dosage and Administration:

9.1. CHF:

9.1.1. Adult:

9.1.1.1. 20-40mg (0.5-1mg/kg) slow IV over 1-2 minutes (not to exceed 20mg/minute)

9.1.1.1.1. May repeat in 1-2 hours.

9.1.2. Pediatric:

9.1.2.1. 1mg/kg/dose (maximum total dose 6mg/kg)

9.1.3. Hyperkalemia (adult) 40-80mg IV.

10. Special Considerations:

10.1. Pregnancy Category C.

10.2. Furosemide has been known to cause fetal abnormalities.

10.3. Furosemide should be protected from light and stored at room temperature.

10.4. Do not use of solution is discolored or yellow.