

# Southern Illinois Regional EMS System

## JJ-13 FUROSEMIDE (LASIX)

### Class:

- Loop diuretic

### Description:

- 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.

### Onset and Duration:

- Onset: IV diuretic effects within 15-20 minutes; vascular effects with 5 minutes.
- Duration: 2 hours.

### Indications:

- Pulmonary edema associated with:
- Congestive heart failure.
- Hepatic or renal disease.
- Hyperkalemia.

### Contraindications:

- Anuria (though loop diuretics can be used in patients reduced creatinine clearance).
- Hypersensitivity.
- Hypovolemia/dehydration.
- Known hypersensitivity to sulfonamides.
- Severe electrolyte depletion (Hypokalemia).

### Adverse Reactions:

- Hypotension.
- ECG changes associated with electrolyte disturbances.
- Dry mouth.
- Hypochloremia.
- Hypokalemia.
- Hyponatremia.
- Hypercalcemia.
- Hyperglycemia.
- Hearing loss can occur rarely after too rapid infusion of large doses especially in patients with renal impairment.

### Drug Interactions:

- Digitalis toxicity may be potentiated because of potassium depletion.
- Furosemide increases ototoxic potential of aminoglycoside antibiotics.
- Lithium toxicity may be potentiated because of sodium depletion.
- Furosemide may potentiate therapeutic effect of other antihypertensive drugs.

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## JJ-11 FUROSEMIDE (LASIX) (continued)

### How Supplied:

- Parenteral: 10mg/mL in 10ml vial

### Dosage and Administration:

- Adult:
  - Patient that does NOT take a diuretic daily:
    - 40mg slow IV/IO, over 1-2 minutes
  - Patient that does take a daily diuretic:
    - 80mg slow IV/IO, over 1-2 minutes
- Pediatric:
  - 1mg/kg slow IV/IO (maximum total dose 6mg/kg)

### Special Considerations:

- Pregnancy Category C.
- Be prepared for the patient to void bladder soon.
- Furosemide has been known to cause fetal abnormalities.
- Furosemide should be protected from light and stored at room temperature.
- Do not use of solution is discolored or yellow.