

Seminole Community College
Paramedic II
Medication Handout #16
Furosemide / Bumetadine

Name / Classification- Furosemide (Lasix) Loop Diuretic

Description- Furosemide is a rapid-acting, potent sulfonamide loop diuretic and antihypertensive that inhibits sodium re-absorption by the kidney. Its vasodilating effects reduce venous return and cardiac workload. Onset of diuresis following IV administration is 5 minutes with peak effects occurring in the first 30 minutes of the 2-hour duration of action. Renal vascular resistance drops, increasing renal blood flow, inhibits re-absorption of sodium in the Loop of Henle and also in the proximal and distal renal tubules.

Vasodilation 5- 10 minutes
Diuresis 5 to 30 minutes
Peak Vasodilation is 30 minutes.
Peak Diuresis in 20 to 60 minutes
Vasodilation Duration- < 2 hours
Diuretic Duration- 6 hours
Half Life- 30 minutes

Indications- Congestive Heart Failure and Pulmonary Edema.

Contraindications- Hypersensitivity to Furosemide or the sulfonamides, hypotension, anuria, fluid and electrolyte depletion states, hepatic coma, pregnancy (except in life-threatening circumstances.)

Precautions- Infants, elderly, hepatic impairment, nephritic syndrome, cardiogenic shock associated with AMI, gout, or patients receiving digitalis or potassium depleting steroids.

Dosage / Route- Adult: 40 to 120 mg Slow IV
Pediatric: 1 mg/ kg Slow IV

Name / Classification: Bumetadine (Bumex) Loop Diuretic

Description: Bumetadine is related to furosemide, though it has a faster rate of onset, a greater diuretic potency (40 times), shorter duration, and produces only mild hypotension.

IV Onset: Rapid
Peak Effect: 15 to 30 Minutes
Duration: 3.5 to 4.0 Hours
Half Life: 60 to 90 Minutes

Indications: To promote diuresis in CHF and Pulmonary edema.

Contraindications: Hypersensitivity to bumetadine and other sulfonamides.

Precautions: Pregnancy (use only for life threatening conditions).

Dosage: 0.5 to 1.0 IM / IV over 1 to 2 minutes, repeat in 2 to 3 hours as needed.