

### Overview

- potent diuretics
- Medications: **bumetanide, ethacrynic acid, furosemide, torsemide**

### Indications

- manage edema associated with heart failure and hepatic or renal disease
- control hypertension

### Mechanism of Action and Drug Effects

- |  |  |
|--|--|
| - inhibit resorption of sodium and chloride in the thick ascending limb of the loop of Henle | - useful when rapid diuresis is needed due to rapid onset                  |
| - activate renal prostaglandins -> dilation of blood vessels of kidneys, lungs, and ody      | - diuretic action continues even when creatinine decreases below 25 mL/min |
| - reduction in both preload and central venous pressure                                      | - major adverse effect: electrolyte disturbances                           |



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