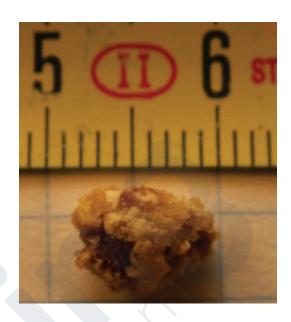
# **RENAL CALCULI PATHOCHART**

## **PATHOPHYSIOLOGY**

Renal calculi, or kidney stones, are stones that form within the kidneys due to a buildup of concentrated calcium deposits or other crystallized chemicals like uric acid. This could be due to a diet high in calcium or purines, dehydration, or urinary stasis. This causes severe pain and can obstruct the flow of urine, leading to signs and symptoms of a UTI, including hematuria, fever, and urinary urgency.



#### **ASSESSMENT FINDINGS**

- Severe pain with sudden onset
- Dull flank pain
- Urinary urgency
- Signs of UTI
- Hematuria (blood in urine)

- Radiates from lumbar to flank, testicles, groin, or bladder
- Unable to start stream, indicates urethral obstruction

#### **DIAGNOSTICS**

- Renal Ultrasound
- IV Pyelogram

CT Scan

### **NURSING PRIORITIES**

- Promote Comfort
- Prevent Infection

- Manage Elimination Needs
- THERAPEUTIC MANAGEMENT
- Patient usually has to pass stone in urine
- Strain urine to catch stone
- Lithotomy
- Nephrostomy

- Extracorporeal Shock-wave Lithotripsy (ESWL)
- Uroscopy

#### **MEDICATION THERAPY**

- Opioid analgesics
- NSAIDs

Diuretics

