**INDICATIONS FOR TESTING**
Flank pain, nausea/emesis, symptoms of a stone

**ORDER**
Urinalysis, Complete

Hematuria

- No
  - High suspicion of stone
    - No
      - Perform other testing
    - Yes
      - Helical CT scan
        - Negative
          - Strain urine for stone; send for Calculi (Stone) Analysis; consider 24 hour urine analysis, particularly if not first stone
          - For first stone, usually no workup initially necessary
        - Positive
          - Nephrolithiasis likely
            - If confirmation required, do CT scan; otherwise, treat symptomatically
            - Strain urine for stone; send for stone analysis

- Yes
  - Fever
    - No
      - CBC with Platelet Count and Automated Differential
      - Leukocytosis and leukocytes on urinalysis
        - No
          - Pyelonephritis less likely; obstruction possible
            - Strain urine for stone; send for stone analysis
        - Yes
          - Suspect pyelonephritis or concomitant infection
            - Consider CT scan, however may consider treatment with close observation
            - CT scan to rule out obstruction