

Provider Led Entity

CDI Quality Institute AUC Questions: Hematuria and Flank Pain including Renal Calculus

01/10/18

Patient/Problem: Appropriateness of advanced imaging procedures in patients with the following clinical presentations:

- Hematuria with or without pain
- Flank pain with suspected renal calculus
- Flank pain with suspected recurrent renal calculus
- Preoperative planning for known nephrolithiasis/urolithiasis
- Flank pain with suspected infection (Acute pyelonephritis)
- Incidental/indeterminate renal mass or cyst
- Incidental/indeterminate adrenal mass or nodule

For patients > 18 years of age, in a community outpatient setting, without pregnancy, and for the purposes of diagnosis.

Interventions: Advanced testing – MRI with and/or w/o IV contrast, CT with and/or w/o IV contrast, dual energy CT, MRA, CTA, Nuclear medicine studies (Tc-99m DMSA renal scan, Tc-99m MAG3 renal scan) and PET scanning.

Comparison: Gold standard (Image findings, biopsy results, surgical findings, angiographic findings or patient outcome)

Outcome: Diagnostic accuracy, effect on patient management, and/or patient outcome.

Exclusions:

- Renal transplant evaluation
- Renal or bladder cancer staging or follow-up
- Prostate cancer detection, staging or follow-up
- Lower urinary tract symptoms
- Renal failure
- Renovascular hypertension
- Renal trauma
- Suspicious renal mass