

Kidney SPECT (Single Photon Emission Computed Tomography)

CPT: 78710

Evaluation of known or clinically suspected Acute or Chronic Pyelonephritis

Unspecified Kidney Infection

Evaluation of renal perfusion and function in the clinical setting of renal insufficiency or failure

Evaluation of renal or urinary tract abnormality due to recent trauma or surgery

Evaluation of reno-vascular hypertension in a patient with any of the following signs or symptoms:

failure to respond to at least 3 antihypertensive medications

- accelerated or malignant hypertension
- epigastric bruit
- impaired renal function after treatment with an ACE inhibitor
- progressive renal failure
- recurrent pulmonary edema
- sudden development of worsening of hypertension
- unilateral small kidney discovered with any clinical study.

Evaluation of renal collecting system obstruction

Diagnosis of acute tubular necrosis

Diagnosis of renal transplant complications

Evaluation of renal or urinary tract abnormality due to recent trauma or surgery

Additional Indications for the Pediatric Population (under age 18):

- Renal screening in a child with congenital heart disease
- Dehydration
- Failure to thrive
- Septicemia of the newborn
- Severe hemolytic anemia
- Recurrent urinary tract infection
- Vesicoureteral reflux

References

1. American College of Radiology. (2014). ACR Appropriateness Criteria® Retrieved from <https://acsearch.acr.org/list>.
2. Society of Nuclear Medicine Procedure Standards. <http://www.snmmi.org/ClinicalPractice/content.aspx?ItemNumber=6414>