

Renal Transplant

Imaging Protocol: Although only specific images are documented, the transplant kidney and urinary tract are to be scanned in detail. The following images will represent the normal renal ultrasound exam, but additional images may be necessary for appropriate documentation.

- **Transplant Kidney- RLQ/LLQ**

- Longitudinal

- Mid with & without measurement (max length and cortex)

- Lateral

- Medial

- Transverse

- Upper

- Mid (include renal pelvis)

- Lower

- **Color/Doppler**

- Long Transplant Kidney with color and power doppler (look for areas of hypoperfusion)

- Arcuate Arteries- *Do not angle correct,*
Measure RI

- Upper

- Mid

- Lower

- Renal Artery- *Angle Correct,*
Measure PSV

- At Iliac Artery Anast

- Proximal

- Mid

- Distal

- Renal Vein

- At Iliac Vein Anastomosis

- Mid

- Iliac Artery

- Prox to Anastomosis

- Distal to Anastomosis

- **Bladder**

- Long

- Trans



Additional Information:

- ❖ Renal Transplant Arcuate Artery RI Values:
RI values are nonspecific; they just indicate transplant dysfunction

Normal: <.80

Probably Abnormal: .80-.90

Definitely Abnormal: >.90

- ❖ If hydronephrosis is found, document jet. After patient empties bladder, reimage kidney to look for change in size of renal pelvis/hydro.
- ❖ Post void residual bladder volume is measured on all male patients over 40 years of age, on pediatric patients, when possible, on any patient with voiding symptoms, and on any other patient as requested.

Scheduling & Prep:

40-minute time slot.

Equipment:

Ultrasound unit with 3.5 MHz transducer.

It may be necessary to have a unit with 2.5 or 5.0 MHz transducers.

Order & Procedure Code:

US KIDNEY TRANSPLANT *IMG11537*

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