Renal Transplant

<u>Imaging Protocol:</u> 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

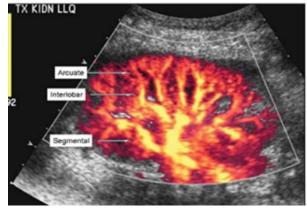
Iliac Artery

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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