ULTRASOUND PROTOCOLS



Reviewed: 01/11/2024; 01/12/23; 01/29/22; 10/30/20

Renal Doppler Ultrasound

Indication	Renal artery stenosis, uncontrolled HTN, Malignant HTN
Prep	Patient Supine
Special	Use the highest frequency curvilinear transducer; obtain 2D gray scale and Doppler
Instruction	images.
Procedure	 Obtain routine sagittal and transverse images of the kidneys including appropriate measurements. Obtain routine images of the urinary bladder and volume calculation if possible. Document any renal abnormality/pathology seen with appropriate measurements and color flow analysis.
	Renal Doppler interrogation requires color and spectral analysis of the following renal vessels • Main RA from Ao origin to renal hilum • Proximal at RA origin from Ao • Mid portion • Distal • Renal hilum • Segmental arteries • Interlobar arteries • Interlobar arteries • Intracortical vessels -if possible **Angle correction to ≤ 60° is required for all vessels except for arcuate and cortical vessels Aorta - spectral trace of the mid aorta proximal to the renal arteries is required for ratio calculation. This should also be obtained with the appropriate Doppler Technique.