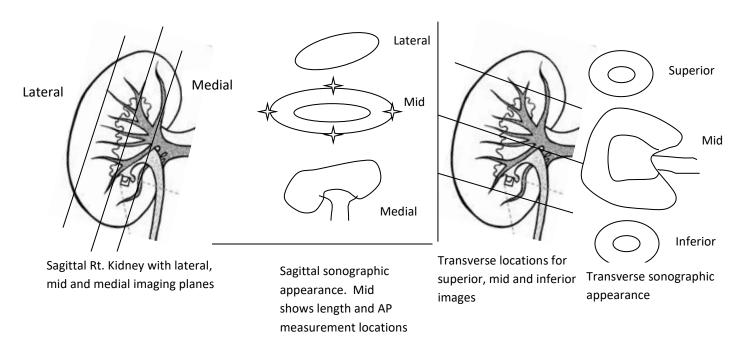
## **Renal US- US RETROPERITONEAL B-SCAN/REAL TIME**

Kidneys								
Organ/ Order	Scan Plane	Key Landmarks Identified						
Rt/Lt Kidney	Sagittal	<ul> <li>Mid</li> <li>Measurement-Length measurement from superior to inferior pole</li> <li>Medial</li> <li>Renal sinus at hilum</li> <li>If mild collecting system dilatation is present, please confirm with color Doppler</li> <li>Lateral</li> </ul>						
	Transverse	<ul> <li>Upper</li> <li>Mid</li> <li>Renal sinus at hilum to include renal vessels</li> <li>Measure AP and transverse</li> <li>Measure renal cortex</li> <li>If mild collecting system dilatation is present, please confirm with color Doppler</li> <li>Lower</li> </ul>						
Bladder	Sagittal/ Transverse	Mid Include bladder walls- measure if abnormally thickened						

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Post Void	Sagittal/	•	Pre-void length, width and AP Measurement-calculate fluid volume	
<b>exam</b> Transverse		•	Post-void length, width and AP Measurement-calculate fluid volume	



Normal Measurement Ranges								
Structure	Area of Interest	Plane	Measurement	Comments				
Kidney	Mid	Sagittal	<ul><li>Length 10-12cm</li><li>AP 2-3 cm</li></ul>	<ul> <li>Measure from superior pole to inferior pole through the kidney</li> <li>Measure anterior to posterior mid-section</li> </ul>				
Kidney	Mid	Transverse	Width 5-7.5cm	<ul> <li>Measure in a transverse plane though the mid kidney</li> </ul>				
Bladder Wall	Area of thickening	Transverse	3-6 mm	This is a measurement for a distended bladder wall				

Common Laboratory Values to be Reviewed prior to Examination							
Lab Value	Organ	Level	Indication or Association				
Blood urea nitrogen (Bun)	• Kidneys	Increased	Renal failure or renal disease				
Creatinine	<ul> <li>Kidneys</li> </ul>	Increased	Renal failure or renal disease				
White blood cell count (WBC)	<ul><li>Kidneys</li><li>Bladder</li></ul>	Increased	Indicates infection				