ULTRASOUND PROTOCOLS



Reviewed 10/30/20

Abdomen Complete Ultrasound

Indication	Cirrhosis or hepatic disease, Fluid collections, Gallstones, Metastatic disease, Obstructive symptoms of the biliary system, Aortic aneurysm, Pancreatitis, Hypertensive renal disease, Renal transplant, Mid-abdominal trauma, Abnormal diagnostic tests, Pain, Additional indications may be used following ICD guideline
Prep	Patient should be NPO
Prep Procedure	
	portal vein, hepatic veins, and liver kidney interface. f. The liver is best examined during held inspiration to bring it beneath the costal margin. 4. RIGHT KIDNEY:

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a. In sagittal, visualize the right kidney in long axis to r/o hydronephrosis or masses. A maximum measurement of renal length should be documented. In transverse, visualize superior, mid, and inferior poles of the right kidney. Measure in the greatest transverse diameter.

5. GALLBLADDER AND BILIARY TRACT:

- a. In sagittal with the patient in a supine position, view the gallbladder including the fundus, body and neck portions.
- b. In transverse, do the same as above.
- c. Change the patient's position to right lateral decubitus, left lateral decubitus, and view gallbladder in both longitudinal and transverse directions to evaluate the gallbladder and its surrounding areas thoroughly, especially if stones or sludge are observed.
- d. Examine the gallbladder wall thickness, with measurements. Test for abdominal tenderness by applying transducer compression to help confirm pathology (Murphy's sign).

6. CBD:

- a. Identify CBD in its longitudinal dimension, documenting the proximal portions of the common bile duct. Measure the intraluminal diameter at its widest point.
- b. In its longitudinal dimension, identify the distal portion of the common bile duct to include the pancreatic portion.
- c. If calculi are identified in the gallbladder, careful examination of the ducts and pancreas should be made.
- d. In transverse, identify the pancreatic head and the common bile duct.

7. Main Portal Vein:

- a. Identify Main Portal Vein in its longitudinal dimension. Measure the intraluminal diameter at its widest point.
- b. Obtain color flow images to document flow

8. SPLEEN:

- a. Move the transducer to the left of the pancreatic tail and view the spleen in long axis and transverse demonstrating the splenic parenchyma.
- b. Include splenic hilus, if possible. Putting the patient in left decubitus may be helpful.
- c. Doppler may be used to determine the presence and direction of flow in the splenic vein and artery.
- d. Splenic enlargement should be documented by measurement.

9. LEFT KIDNEY:

a. Angle transducer medially and scan throughout the left kidney in long axis to rule out hydronephrosis or masses. A maximum measurement of renal length should be documented. Compare echogenicity of left kidney and spleen. In transverse, visualize superior, mid, and inferior poles of left kidney. Measure in the greatest transverse diameter.

10. IVC:

a. Obtain color flow images to document flow