

ABDOMEN ULTRASOUND COMPLETE

Patient Prep (recommended):

1. Patients are recommended (including those who have had a cholecystectomy) to be NPO for 6 hours prior to an abdominal ultrasound examination.
 - a. If a patient has not been NPO (or tube feeding not stopped) for 6 hours, the technologist will scan the patients and document patient preparation.
 - b. Patients who are inadequately prepped may be required to undergo a second limited examination to view the organ that was unable to be imaged.
2. Patient may take water with medications up to exam time (small volumes only).

Survey:

Perform a real-time survey of the abdomen with attention to Pancreas, Liver, Gallbladder, CHD/CBD, Spleen, Kidneys, Aorta and IVC.

Use Doppler or color flow to distinguish vessels and on any abnormalities.

Image Documentation:

Each image must be labeled with the patient's full name, medical record number, accession number, initials of the imaging technologist, organ/area identification, scanning plane and patient orientation if different from supine.

If an image of a structure is not well seen, take an image of the structure and annotate the purpose of the image (i.e. pancreas not well seen).

General Procedure description:

1. The pancreas, liver, gallbladder, CHD/CBD, spleen and kidneys should be surveyed for abnormalities with real-time imaging. Representative images of normal organs in two planes should be obtained (longitudinal plane and transverse plane).
2. Aorta and IVC surveyed in longitudinal plane.
3. The important vasculature of the organs should be examined and documented. It is advisable to document color flow of major vessels for patency.
4. Kidney measurements, spleen length, gallbladder wall thickness and CHD/CBD diameter are to be recorded.
5. The gallbladder must also be examined in the supine position and in decubitus (LLD) or upright position.
6. Masses should be imaged in two planes with measurements in three orthogonal planes. Color flow images should be documented of any masses.

Guidelines for abdomen ultrasound:

LIVER

1. Complete documentation in longitudinal plane of the liver (to include the right and left lobe). Scan planes demonstrating the IVC, head of pancreas, the right kidney and main portal vein.
2. Complete documentation in transverse plane or subcostal images thru the liver (to include the right and left lobe). Scan planes should include the main portal vein, its bifurcation, the hepatic veins and their confluence to the IVC.
3. Color flow images demonstrating patency of the main portal vein. Color flow images demonstrating patency of the hepatic veins and their junction with the IVC.

GALLBLADDER

1. Three images in longitudinal plane with patient supine to include neck, body and fundus.
2. Three images in transverse plane with patient supine to include neck, body and fundus.
3. Three images in longitudinal plane with patient in left lateral decubitus or upright to include neck, body and fundus.
4. Three images in transverse plane with patient in left lateral decubitus or upright to include neck, body and fundus.
5. Transverse image of GB wall with measurement.
6. If GB removed provide images showing GB fossa.

COMMON BILE DUCT:

1. Images in longitudinal plane of CBD/CHD with and without measurement
2. One image in transverse plane of CBD/CHD.

PANCREAS:

1. Complete documentation in transverse plane to include uncinata process, head, body and tail.
2. Complete documentation in longitudinal plane to include uncinata process, head, body and tail.

SPLEEN:

1. Complete documentation in longitudinal plane with measurement and one with left kidney
2. Complete documentation in transverse plane.

KIDNEYS:

1. Images longitudinal plane (lateral, mid and medial).
2. Longitudinal plane image with measurements.
3. Images transverse plane (superior, mid and inferior).
4. Transverse plane image with measurement.

IVC

1. Proximal image in longitudinal plane through liver.

AORTA

1. Images in longitudinal plane (proximal, mid and inferior).
2. Measure aorta at level of SMA (AP measurement)

If organs cannot be seen or organ removed, documentation should be noted on images and worksheet.

All color Doppler images should be with and without color.

All measurement images should be with and without measurement.

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