ABDOMEN DUPLEX MESENTERY (CELIAC/SMA) ULTRASOUND

Patient Prep (recommended):

1. Patients are recommended 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 patient 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 Aorta, Celiac Artery, Hepatic Artery, Splenic Artery, Superior Mesenteric Artery, and Inferior Mesenteric Artery.

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. IMA not well seen).

THIS EXAM WILL ONLY BE PERFORMED WITH THE PATIENT FASTING.

Guidelines for Abdomen Doppler Ultrasound Celiac/SMS:

AORTA

1. All images of the vessel are obtained in the longitudinal plane.

2. Gray Scale image of Proximal Aorta.

3. Document COLOR FLOW of Proximal Aorta.

4. Document DOPPLER FLOW VELOCITY of Proximal Aorta utilizing angle correct.

CELIAC ARTERY (TRUNK)

1. All images of the vessel are obtained in the longitudinal plane.

2. Gray Scale images of Origin and Proximal Celiac Artery.

3. Document COLOR FLOW of Origin and Proximal Celiac Artery.

4. Document DOPPLER FLOW VELOCITY of Origin and Proximal Celiac artery utilizing angle correct.

HEPATIC ARTERY

1. All images of the vessel are obtained in the longitudinal plane.

2. Gray Scale image of Proximal Main Hepatic Artery.

3. Document COLOR FLOW of Proximal Main Hepatic Artery.

4. Document DOPPLER FLOW VELOCITY of Proximal Main Hepatic Artery utilizing angle correct.

5. Verify correct direction of flow in vessel.

SUPERIOR MESENTRIC ARTERY (SMA)

1. All images of the vessels are obtained in the longitudinal plane.

2. Gray Scale images of SMA at:
    a. Origin
    b. Proximal Artery
    c. Mid Artery
    d. Distal Artery

3. Document COLOR FLOW images of SMA at:
    a. Origin
    b. Proximal Artery
    c. Mid Artery
    d. Distal Artery

4. Document DOPPLER FLOW Velocity of SMA utilizing angle correct in the:
    a. Origin
    b. Proximal Artery

c. Mid Artery
d. Distal Artery

INFERIOR MESENTRIC ARTERY (IMA)

1. All images of the vessel are obtained in the longitudinal plane.

2. Gray Scale image of Proximal IMA.

3. Document COLOR FLOW of Proximal IMA.

4. Document DOPPLER FLOW Velocity of Proximal IMA utilizing angle correct.

SPLENIC ARTERY

1. All images of the vessel are obtained in the longitudinal plane.

2. Gray Scale image of Proximal Splenic Artery.

3. Document COLOR FLOW of Proximal Splenic Artery.

4. Document DOPPLER FLOW of Proximal Splenic Artery utilizing angle correct.

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