## GUNDERSEN/LUTHERAN ULTRASOUND DEPARTMENT POLICY AND PROCEDURE MANUAL

SUBJECT: Mesenteric Artery SECTION: Vascular Ultrasound ORIGINATOR: Deborah L. Richert, BSVT, RDMS, RVT DATE: September 13, 2013

APPROVED BY:

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- 1. RUQ sonogram per RUQ imaging protocol.
- 2. Longitudinal color of abdominal aorta and angle-corrected spectral Doppler PSV measurements near level of celiac/SMA origins.
- 3. Celiac artery origin and mid with color and angle-corrected spectral Doppler PSV measurements. In patients that median arcuate ligament syndrome is a question, or if the PSV of the celiac artery is > 200 cm/sec with normal respiration, the celiac artery origin PSV should be obtained with the patient in deep inspiration to see if it remains elevated. Evaluating the celiac artery origin with the patient in end expiration may also be an option to evaluate the PSV in these patients.
- 4. Common hepatic and splenic arteries with color and angle-corrected spectral Doppler PSV measurements to document the direction of blood flow.
- 5. SMA origin, proximal, mid and distal with color and angle-corrected spectral Doppler PSV measurements.
- 6. IMA origin, proximal with color and angle-corrected spectral Doppler PSV measurements.

## Criteria

- SMA > 70% stenosis with a PSV > 275 cm/sec.
- Celiac > 70% stenosis with a PSV > 200 cm/sec.
- There are currently no criteria for IMA stenosis.

## Mesenteric Arteries

Name:	Clinic #			
Date:	Ordering MD:			
Reason for Exam:				

	PSV cm/sec			
Aorta		Aorta Diameter		
			SMA >70%	PSV >275
SMA			Stenosis	cm/sec
51111	r		Celiac >70%	PSV >200
			Stenosis	cm/sec
Celiac				
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IMA				

Impression:\_\_\_\_\_

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Sonographer: \_

Radiologist:

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