## GUNDERSEN/LUTHERAN ULTRASOUND DEPARTMENT POLICY AND PROCEDURE MANUAL

SUBJECT: Mesenteric Artery SECTION: Vascular Ultrasound

ORIGINATOR: Deborah L. Richert, BSVT, RDMS, RVT

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APPROVED BY:	Jody Riherd MD
	Dave Clayton RDMS RVT

- 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.
- 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:				
· Date:				
Reason for Exa	m:			
		•		
	PSV cm/sec			
			1	
Aorta		Aorta Diameter	3	
			SMA >70%	PSV >275
SMA			Stenosis	cm/sec
			Celiac >70%	PSV >200
Celiac			Stenosis	cm/sec
10.4.0				
IMA				
Impression:			•	
·				
Sonographer:			Radiologist:	