CHILDREN’S NATIONAL MEDICAL CENTER

DEPARTMENT OF RADIOLOGY

ULTRASOUND PROTOCOL

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Issue Date: 05/02/2014 Policy: Lower Extremity VENOUS DOPPLER

Last Revision Date: 10/29/2016 Approved by:

1. Indications for lower extremity venous Doppler include but are not limited to:
* Evaluation for venous obstruction, thromboembolic disease,
* Evaluate for venous insufficiency, varicosities, or reflux.
* Assessment for dialysis or graft access.
* Venous mapping prior to surgery or graft placement.

**B. Protocol:**

Confirm patient identity using standard hospital protocol (2 patient identifiers).

Verify physician order.

Wash hands prior to patient contact, in addition to utilizing standard & or isolation precautions as appropriate.

**Venous Thromboembolic Disease: Lower Extremity**

(Bilateral, Right, or Left)

* Iliac Vein – grayscale, color and spectral Doppler
* CFV transverse – split screen without and with compression
* CFV longitudinal – color and spectral Doppler
* GSV transverse – split screen without and with compression
* Femoral (prox)/ Profunda transverse – split screen without and with compression
* Femoral (prox) /Profunda longitudinal – color and spectral Doppler
* Femoral (mid) transverse – split screen without and with compression
* Femoral (mid) longitudinal – color and spectral Doppler
* Femoral (distal) transverse – split screen without and with compression
* Femoral (distal) longitudinal – color and spectral Doppler
* Popliteal transverse – split screen without and with compression
* Popliteal longitudinal – color and spectral Doppler
* Posterior tibial veins transverse – split screen without and with compression
* Posterior tibial veins longitudinal – color Doppler
* Peroneal veins transverse – split screen without and with compression
* Peroneal veins longitudinal – color Doppler

Reference: American Institute of Ultrasound in Medicine. AIUM-ACR-SRU Practice Parameter for the Performance of Peripheral Venous Ultrasound Examinations. 2015. http://www.aium.org/resources/guidelines/peripheralVenous.pdf Accessed October 29th, 2016.