

## **UPPER EXTREMITY VENOUS (UEV)**

### **Patient Prep:**

- None.

### **Survey:**

- Perform a real time survey of the Upper Extremity Venous System with attention to Internal Jugular Vein, Subclavian Vein, Axillary Vein, Brachial Vein, Basilic Vein and Cephalic Vein.
- The forearm should be scanned and documented on worksheet if: Patient is symptomatic at the antecubital fossa and/or forearm and/or if there is thrombus in the upper arm (above the antecubital fossa) extending beyond the antecubital fossa.
- Limitations with images should be documented.

### **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.

### **General Procedure Description:**

1. If the exam is ordered unilateral the contralateral Subclavian Vein must be evaluated.
2. The patient needs to be in the supine position. The head can be slightly elevated.
3. The Right (RT) or Left (LT) side needs to be documented on each image.
4. The flow of the venous waveform needs to be evaluated for spontaneity and phasicity as needed.
5. The venous system will be evaluated for augmentation as needed. The image will need to have the word augmentation (aug) on the image.
6. The venous system will be evaluated for compression. The image will need to have the word compression (comp) on the image.
7. If the vessel is abnormal the correct labeling needs to be on the image.

## **VENOUS SYSTEM**

1. Longitudinal Color images:
  - a. Internal Jugular Vein
  - b. Subclavian Vein (Proximal, Mid and Distal)
  - c. Axillary Vein
2. Longitudinal Color images with Spectral Doppler Waveform and Augmentation
  - a. Internal Jugular Vein
  - b. Subclavian Vein (Proximal, Mid and Distal)
  - c. Axillary Vein

3. Transverse Compression with grayscale (utilize dual screen with non-compression one side and compression the other screen.
  - a. Internal Jugular Vein
  - b. Subclavian Vein (Proximal, Mid and Distal)
  - c. Axillary Vein
  - d. Brachial Vein (Proximal, Mid and Distal)
  - e. Basilic Vein (Proximal, Mid and Distal)
  - f. Cephalic Vein (Proximal, Mid and Distal)

## **WORKSHEET**

- Information to place in box on worksheet.
  - N=Normal
  - A=Abnormal
  - P= Partial Compression