
Procedure Name: **Upper Extremity Vein Mapping**

Updated: 12/9/15

Indications:

To assess the availability of vessels prior to creation of a permanent dialysis access in patients with chronic renal failure (CRF).

General Description:

Vein mapping of the upper extremity is performed to determine diameter and suitability of the superficial veins of the upper extremity for placement of the dialysis access.

Patient Preparation:

There is no preparation for this exam.

Imaging Sequence:

1. Image patient data demographics page.
2. **The following vessels can be scanned in any order. Be sure to annotate the location of the vessel properly. Write the measurements on the worksheet.**

Right Arm

3. Transverse image of the right upper arm basilic vein proximal or high (by the shoulder), mid and low with anterior to posterior and width measurement.
4. One long image of the right upper arm basilic vein with color and Doppler to document patency.
5. Transverse image of the right forearm basilic vein proximal or high, mid and (low by wrist) with anterior to posterior and width measurement.
6. Long image of the right forearm basilic vein with color and Doppler.
7. Transverse image of the right upper arm cephalic vein high (by the shoulder), mid and low with anterior to posterior and width measurement.
8. Long image of the right upper arm cephalic vein with color and Doppler.
9. Transverse image of the right forearm cephalic vein high, mid and low (by the wrist) with anterior to posterior and width measurement.
10. Long image of the right forearm cephalic vein with color and Doppler.

Left Arm

11. Transverse image of the left upper arm basilic vein high (by the shoulder), mid and low with anterior to posterior and width measurement.
12. One long image of the left basilic vein with color and Doppler.

13. Transverse image of the left forearm basilic vein high, mid and low (by the wrist) with anterior to posterior and width measurement.
14. Long image of the left forearm basilic vein with color and Doppler.
15. Transverse image of the left upper arm cephalic vein high (by the shoulder), mid and low with anterior to posterior and width measurement.
16. Long image of the left upper arm cephalic vein with color and Doppler.
17. Transverse image of the left forearm cephalic vein high, mid and low (by the wrist) with anterior to posterior and width measurement.
18. Long image of the left forearm cephalic vein with color and Doppler.