

Pseudoaneurysm AV fistula

Image Summary

1. Patient Information Screen
2. Transverse CFV dual screen compression
3. Transverse femoral vein dual screen compression
4. Long distal external iliac vein grayscale
5. Long distal external iliac vein color Doppler
6. Long distal external iliac vein with spectral Doppler
7. Long common femoral vein grayscale
8. Long common femoral vein color Doppler
9. Long common femoral vein with spectral Doppler
10. Long femoral vein grayscale
11. Long femoral vein color Doppler
12. Long femoral vein with spectral Doppler
13. Long distal external iliac artery grayscale
14. Long distal external iliac artery color Doppler
15. Long distal external iliac artery with spectral Doppler
16. Long common femoral artery grayscale
17. Long common femoral artery color Doppler
18. Long common femoral artery with spectral Doppler
19. Long proximal superficial femoral artery grayscale
20. Long proximal superficial femoral artery color Doppler
21. Long proximal superficial femoral artery with spectral Doppler.

If a pseudoaneurysm is present, obtain the following images:

1. Transverse and long grayscale & color images of pseudoaneurysm and document if thrombus is present.
2. Maximal transverse diameter of pseudoaneurysm
3. Doppler waveforms proximal to the pseudoaneurysm, at the neck and distal to the neck of the pseudoaneurysm to document to and fro flow.

If an arteriovenous fistula is suspected (presence of arterialized venous signal and possibly increased velocities), identify the artery & vein involved.

1. Doppler waveform of vein demonstrating arterialized flow.
2. Spectral Doppler analysis of the effected artery above the AVF will demonstrate a monophasic continuous waveform with elevated systolic and diastolic velocities. Flow in the injured artery distal to the AVF will generally have normal pulsatility.

If a hematoma is present, obtain the following images:

1. Transverse and long grayscale and color images with measurements of hematoma
2. Repeat above steps for contralateral as indicated.

Refer to Pseudoaneurysm AV fistula criteria for additional information and images.