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Studies have also shown decreased risk of infection and thrombosis (likely due to decreased attempts), but definitely has shown decreased arterial punctures and pneumothorax

Name:

New data has come out supporting use of ultrasound in subclavian vein access. Also US can be used in difficult femoral access, as well as routinely in difficult to obtain peripheral IV access.

Attempting procedure after localizing vein on ultrasound and after blind approach fails have also been studied and shown to be better than blind alone, but dynamic means under direct guidance.

Since the whole needle is visualized well, the risk of posterior vein perforation is less. It actually requires more neck space and harder plane to perform cannulation in general. You are only able to view vein or artery since the plane is not as wide

Venous valves are not found in arteries and can be useful when looking at the subclavian vessels

1. The use of real time ultrasound guidance for central line insertion has been shown to specifically reduce mostly which type of complication?

- A. Infectious
- B. Thrombotic
- C. Mechanical

2. Which of the following vessel has had the most literature support on the use of ultrasound guidance for its cannulation?

- A. Peripheral vein
- B. Internal jugular vein
- C. Subclavian vein
- D. Femoral vein

3. 'Dynamic' approach for line insertion using ultrasound means:

- A. The procedure is done blindly but after having localized the vein prior to procedure
- B. The procedure is done with ultrasound in the Doppler mode to see the dynamic blood flow
- C. The procedure is done with ultrasound after the blind approach fails
- D. The procedure is performed under direct guidance, with real time view of the needle

4. Which of the following is one of the advantage of using the longitudinal (long-axis) view for ultrasound-guided insertion of a catheter

- A. Lower risk of perforating the posterior wall of the vein
- B. Ideal when space is limited
- C. View clarifies position of vein and artery to one another
- D. Easiest plane to perform cannulation

5. Venous valves:

- A. are only found in veins
- B. can sometimes be found in arteries
- C. they are located near the point of entry of major tributary veins
- D. both A and C