Ultrasound-guided Vascular Access
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Ultrasound-guided Central Venous Cannulation
Ultrasound-guided Internal Jugular Vein Cannulation
Out-of-Plane Technique
STEP 1

Find Intern Jugular Vein (IJV) and Carotid Artery (CA)
STEP 2

A) Steep needle angle
B) Confirm your wire before dilation
In-Plane Technique
STEP 1

Hand stabilization

+ Follow the needle
Oblique View Technique
STEP 1  Find IJ and Carotid - then Rotate
STEP 2

Follow the Needle In-plane
Ultrasound-guided Femoral Vein Cannulation
STEP 2

Middle of the Probe with Steep Angle
Ultrasound-guided Axillary Vein Cannulation
STEP 1 Anatomy

- Subclavian Vein
- Internal Jugular Vein
- Axillary Vein
- Brachiocephalic Vein
- Clavicle
STEP 2

Deltopectoral groove
find vein and artery
STEP 3

A) Rotate probe cephalad
B) In-plane needle technique
Ultrasound-guided Supraclavicular Subclavian Vein Cannulation
Anatomy

- Subclavian Vein
- Internal Jugular Vein
- Brachiocephalic Vein
STEP 2  Patient and system positioning
STEP 3

Slide down the neck to the clavicle
STEP 4

Tilt the probe to see the SCV
STEP 5

In-plane needle technique