

# Vanquishing Vessels: How to Master Vascular Access

By:

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# Learning Objectives

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- List strengths and weaknesses of various types and locations of vascular access
- Demonstrate various methods of obtaining vascular access on task trainers
- Enhance their ability to gain vascular access through the use of ultrasound

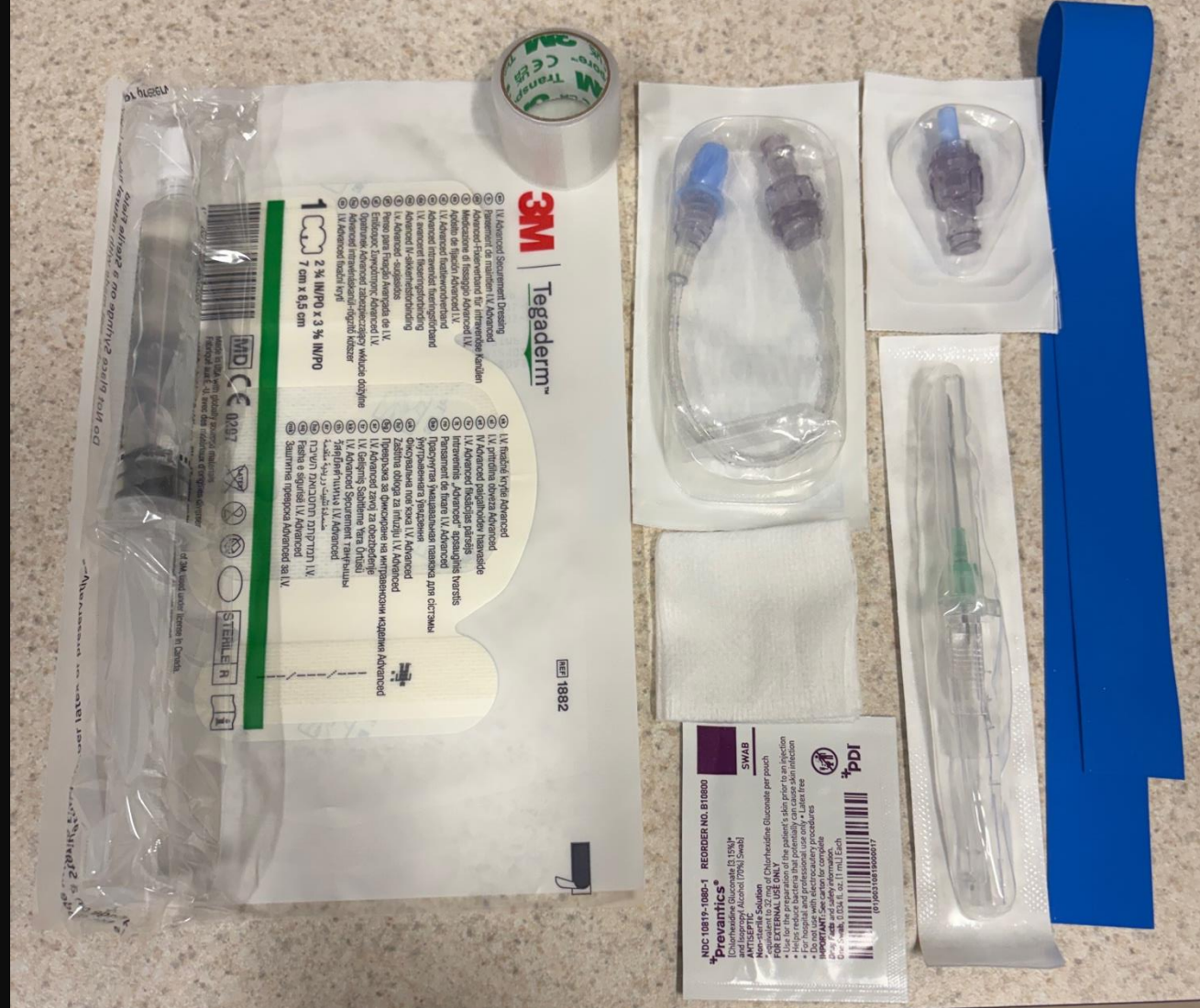
# Peripheral IV

- Blood draws, hydrations, medication
- Various kinds and sizes
- Sometimes rate limiting step



# Assemble Your Equipment

- IV
- Tourniquet
- Alcohol wipe
- Tegaderm and/or tape
- Saline lock or extension set
- Flush
- Patient



# Positioning

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- Use gravity
  - Height of patient
  - Make space
  - Position you
- 



# Positioning

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NO!

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# Site selection

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- Distal to proximal
  - Visible and palpable
    - Wipe and tap
  - Straight path
  - Confluence
  - Successful
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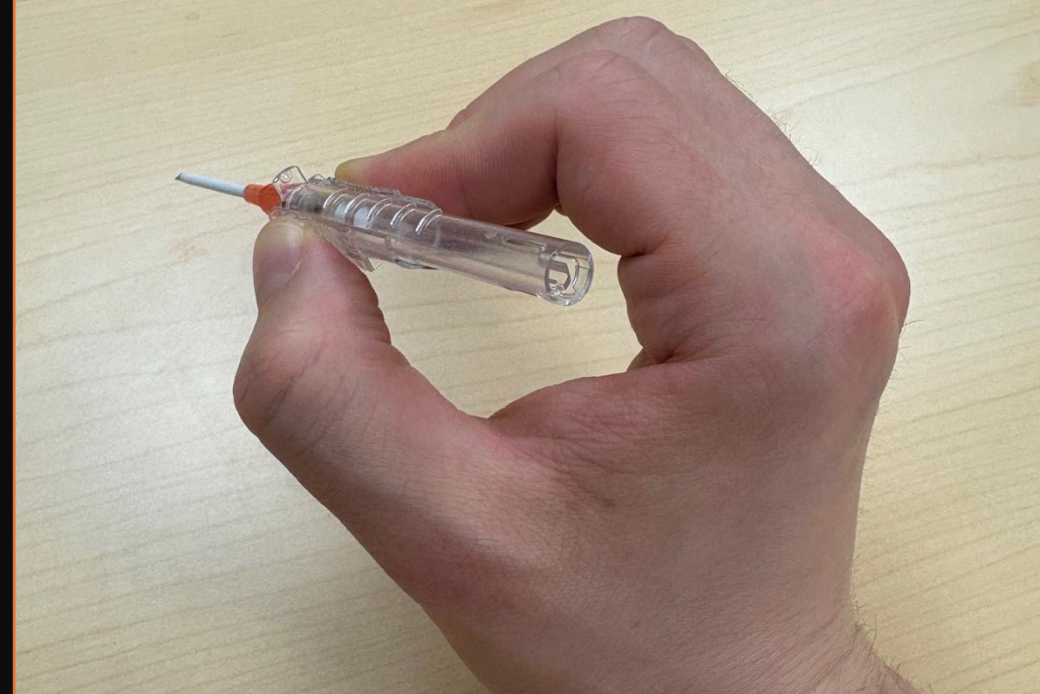
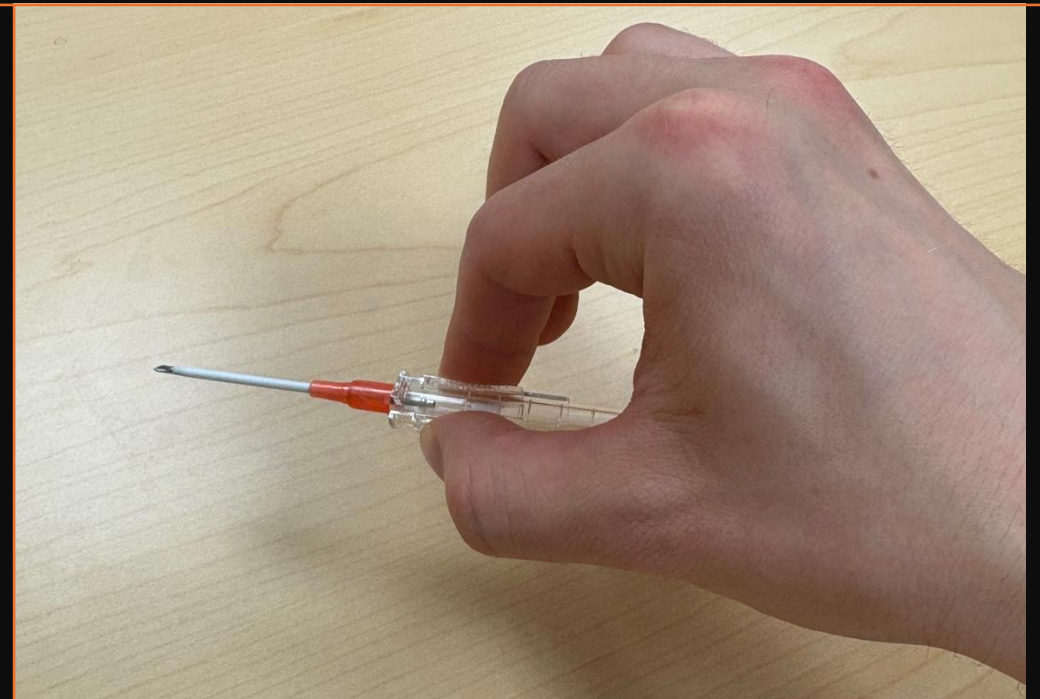


# Sneaky Choices

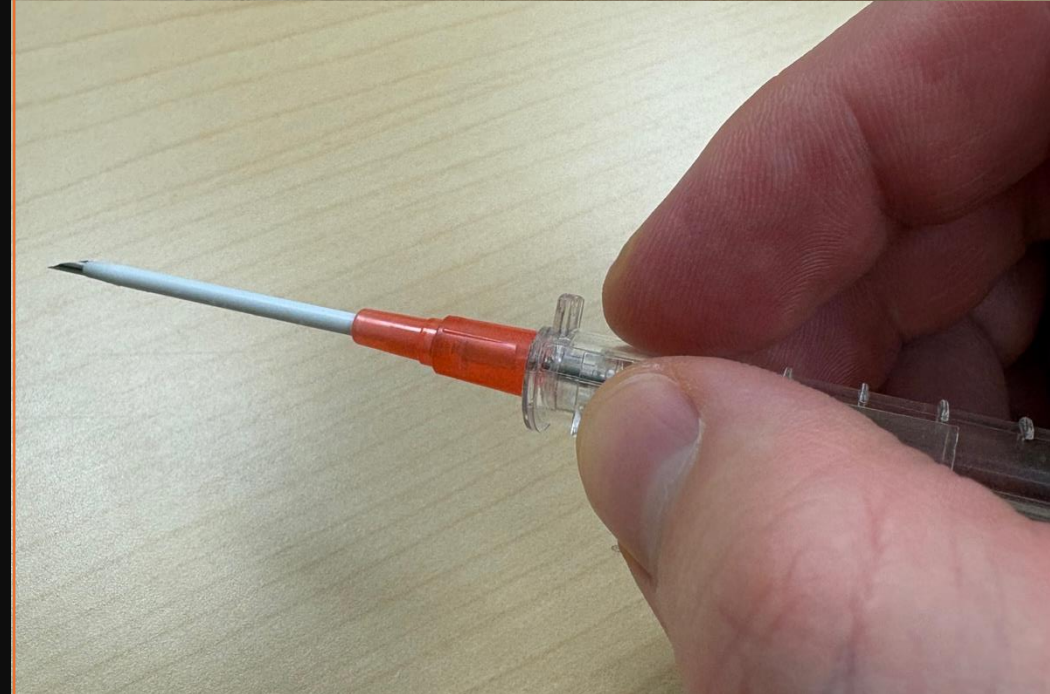
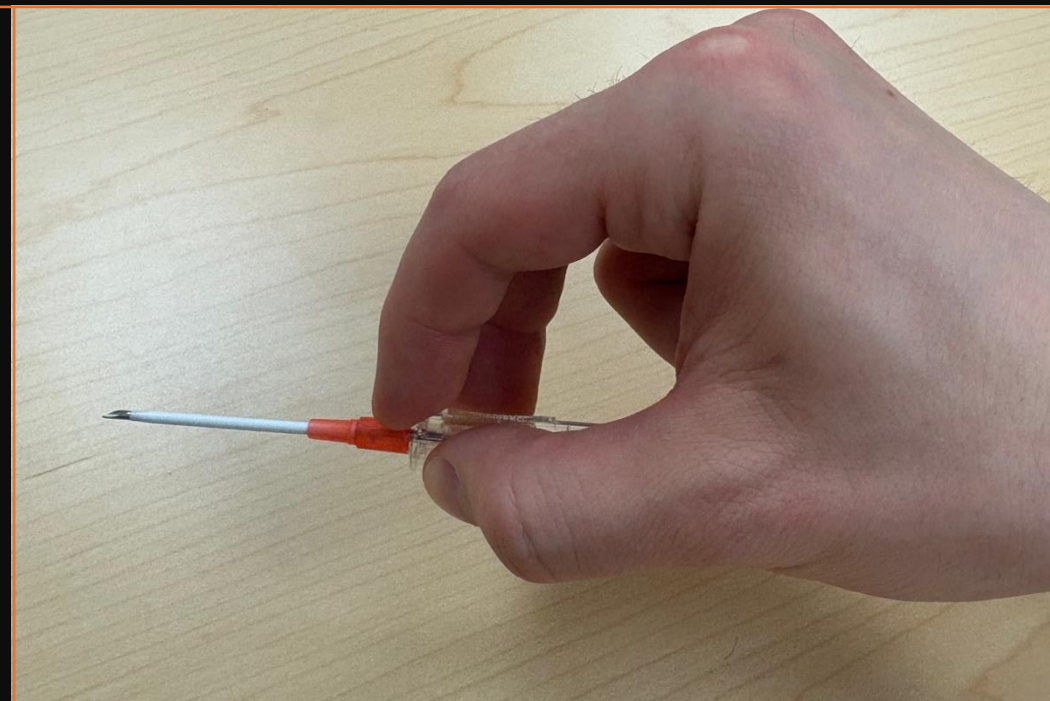
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# How to Hold



# How to Hold



# The Poke

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- Secure the vein
  - Warn your patient
  - “Big poke” -> get through the skin
  - Fairly shallow angle
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# The Find and Finish

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- Look for flash
  - Advance slightly
  - Thread gently
  - Occlude
  - Attach lock
- 



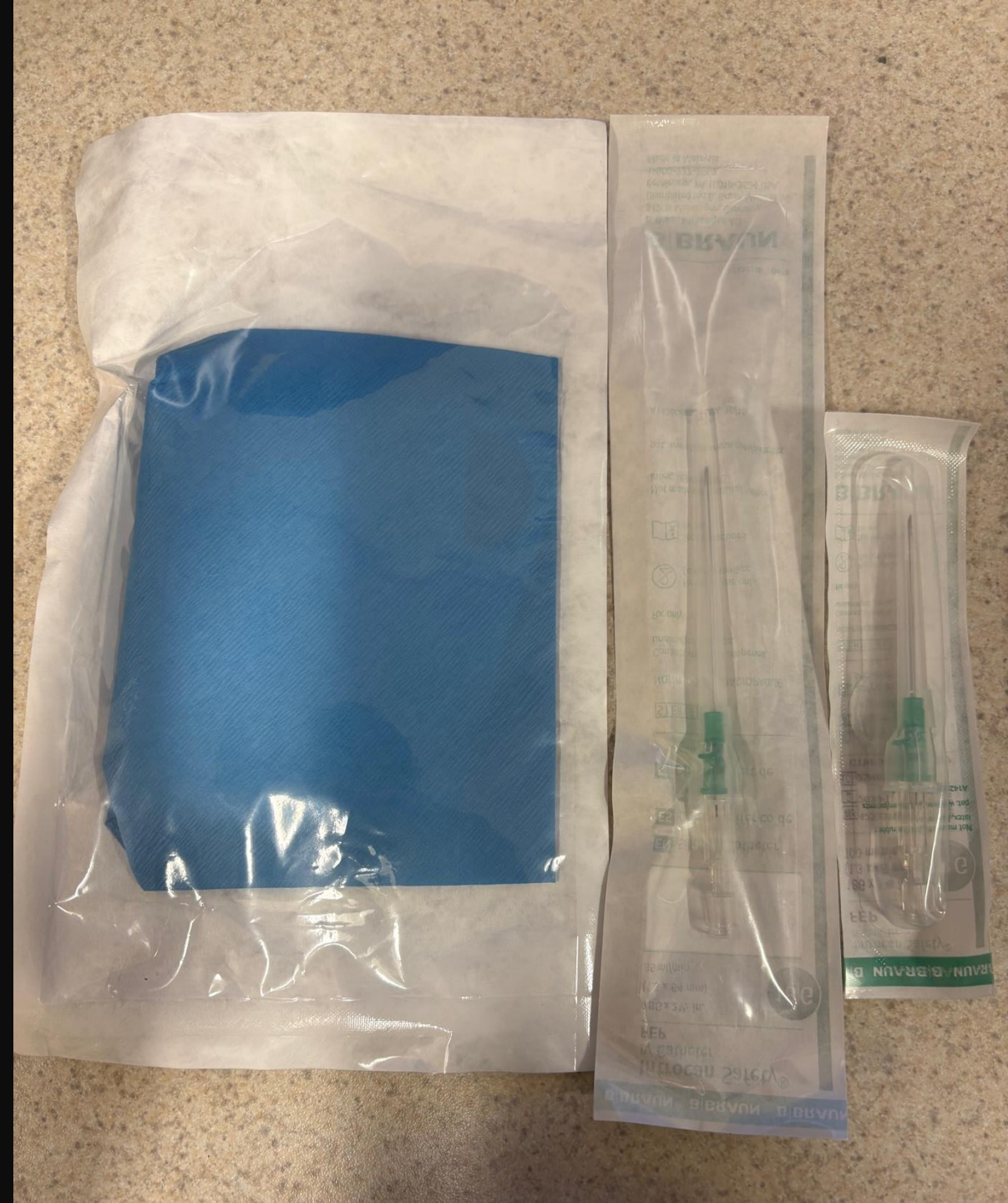
# Practice!

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# Ultrasound IVs

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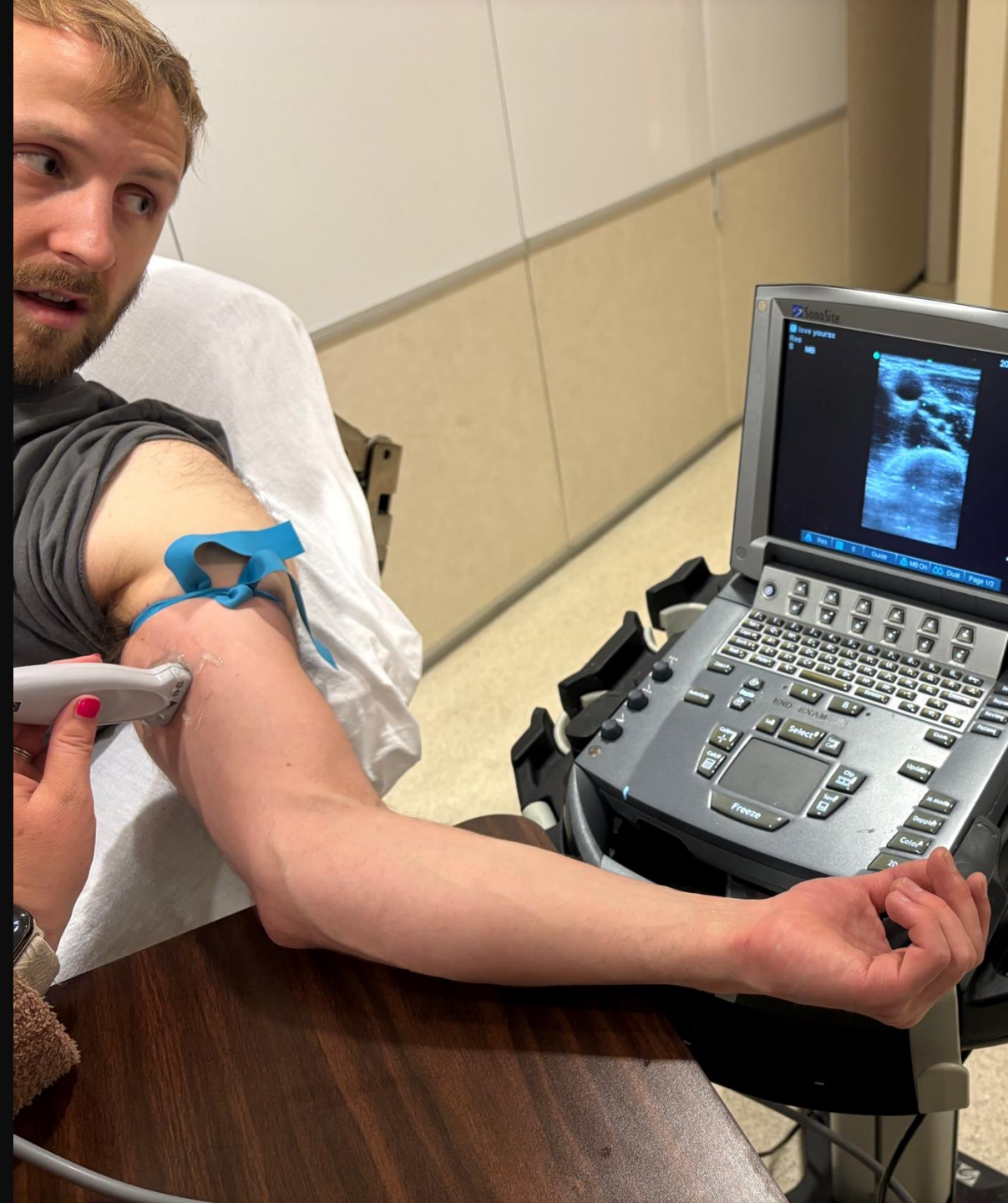
- Assemble equipment
    - US gel, probe cover, and longer needle
  - Proper positioning
    - “Up and Out”
  - Site selection
    - Often deeper and proximal
  - Holding the needle
- 



# Ultrasound IVs

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- Assemble equipment
    - US gel, probe cover, and longer needle
  - Proper positioning
    - “Up and Out”
  - Site selection
    - Often deeper and proximal
  - Holding the needle
- 



# Needle tracking

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- One movement at a time!
  - Track the tip not the barrel
  - Tissue distraction
  - Change the gain
  - Shallower angle, better visualization
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# Cannulation

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- Needle in the middle of the vessel
  - Track the needle in the lumen
  - Look for crispness of needle tip
  - Flash can be false reassurance
- 



# Practice!

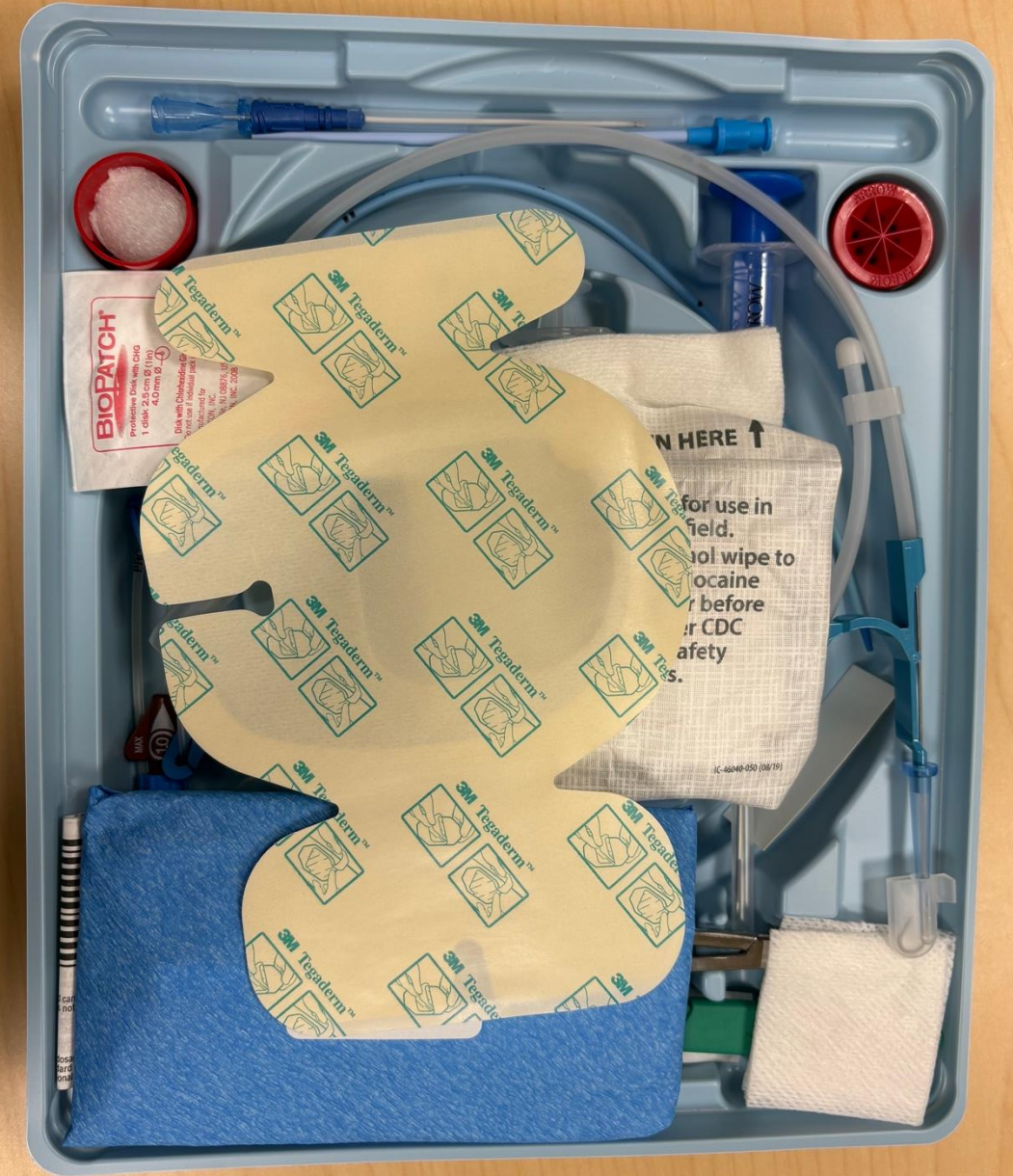
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# Set Up!

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- Ensure all pieces are present
  - Organize them
  - Mentally walk through your steps
- 



# Set Up!

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# Practice!

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# References

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