



Instructions for Use Paravertebral Space Block Simulator MS2-PVT



1. Preparation

TRAINING GOAL #1: SETTING UP THE ULTRASOUND

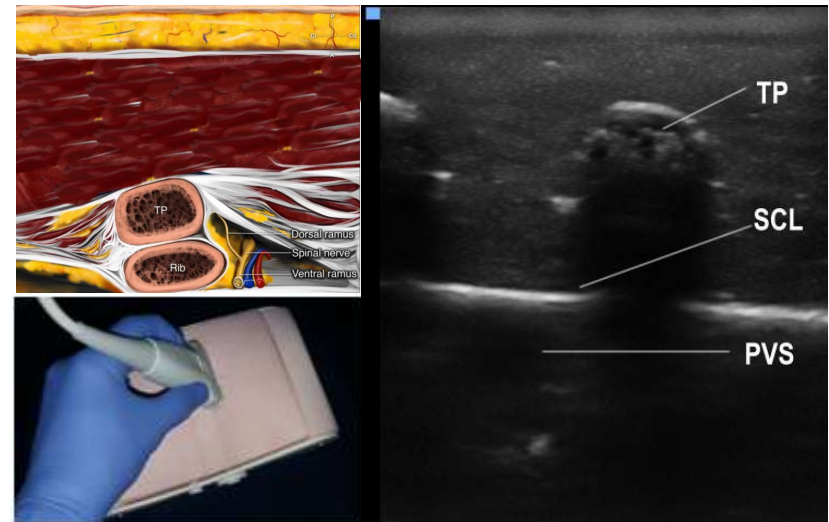
- **Ultrasound:** INCREASE the ultrasound GAIN to maximum before scanning then adjust the GAIN down to obtain the best image.
- **Needle:** Use sharp bevel needles. 22- 25G are ideal as small gauge needles will ensure longer life of the simulator. 100mm needle length.
- **Transducer:** Linear-High Frequency or Curved –Low frequency
- Depth: 3-5cm
- Use ultrasound gel for best image quality
- Use **clean sterile water** when injecting. **Always aspirate** to remove water when finished.

2. Scanning

TRAINING GOAL #2 ANATOMY RECOGNITION

Place the probe at the midline in a longitudinal orientation and observe the spinous process at the block level. Slide the probe laterally 1-2 cm in the direction of the required block. Identify the following landmarks:

- Spinous Process
- Transverse Process (TP)
- Superior Costotransverse Ligament (SCL)
- Paravertebral Space (PVS)

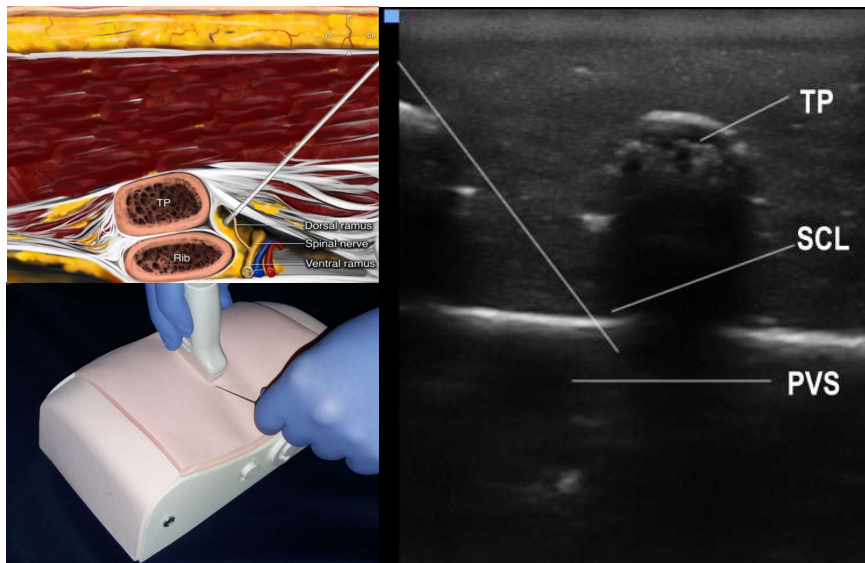




3. Procedure

TRAINING GOAL #3 ACCURATE NEEDLE PLACEMENT

At the required level insert the needle in-plane (illustrated) or out-of-plane . Advance the needle slowly until it is just inferior to the Superior Costotransverse Ligament.



4. Camera

TRAINING GOAL #4: SETTING UP THE CAMERA

Ensure that the camera lens is clean.
Fill the paravertebral space with clean water.
Carefully and slowly insert the camera into the water filled space.
Rotate to lock the camera in position so that the alignment indicator is upper most.

If required adjust the display image by rotating the camera slightly or use the display software to switch camera orientation.

Further details of the camera system can be found in the included camera manual.

