

ULTRASOUND-GUIDED PUNCTURE - NEEDLETRAINER

PRODUCT NUMBER: 3264



DESCRIPTION:

With the NeedleTrainer ultrasound-guided puncture simulator you can safely and effectively train ultrasound-guided invasive procedures. It uses its retractable, invasive needle during real-time scanning on a real subject.

NeedleTrainer superimposes virtual images of a needle on high-quality ultrasound images to enable training of ultrasound-guided techniques. These are, for example: nerve blocks, epidural, venous access, amniocentesis, paracentesis, etc.

Tailored to the specifications of your procedure NeedleTrainer allows customisation of the virtual needle simulation according to the requirements of the procedure & specialty. The latest generation includes a GE Healthcare Vscan™ Air which provides an all-in-one training solution for any medical training programme teaching ultrasound-guided puncture, allowing centres to adapt to new curriculum requirements on learning these skills without impacting clinical hours or patient safety.

MORE THAN SIMULATORS S.L.

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SKILLS:

- Eye-hand-probe coordination
- Ultrasound-guided invasive techniques
- Recognition of anatomical structures in ultrasound images
- Ultrasound-guided peripheral nerve blockade

CHARACTERISTICS:

GENERAL:

- NeedleTrainer uses a retractable needle and virtual image overlays to simulate non-invasive needle application in a live participant using authentic, live ultrasound.
- This allows learners to develop hand-eye coordination, optimal positioning and accuracy in ultrasound-guided interventional procedures in a safe and realistic clinical environment.
- Practice needle-probe coordination skills, in any body habitus, during real-time scanning on a real subject.

HOW DOES IT WORK?

- Composed of the training system, a live ultrasound machine and an anatomical or real patient.
- The puncture is performed anywhere on the volunteer with the probe and a retractable syringe.
- A live ultrasound feed is fed directly into the system.
- A high-fidelity visualisation of a needle is displayed live on the screen to help develop the hand-eye coordination skills necessary for safe and accurate needle placement in ultrasound-guided interventional procedures.

METRICS FOR NEEDLE PROBE CO-ORDINATION COMPETENCY:

- Needle display measurements provide objective quantitative metrics for needle probe alignment to aid in the assessment of needle probe competency and coordination.
- Elapsed time (s)
- Tip in sight (%)

TAILOR NEEDLE SPECIFICATIONS TO YOUR PROCEDURE:

- Allows customisation of virtual needle simulation according to procedure and specialty requirements.
- Echogenicity: Obvious, semi-obvious and realistic
- Gauges: 14G, 18G, 22G and 27G

REGIONAL ANAESTHESIA TRAINING

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- Extend learning to include image interpretation along with needle-probe coordination with the complete classroom-to-clinic learning package*, designed specifically for regional anaesthesia.

INCLUDE:

- 1 All-in-one PC with touch screen
- 1 Trolley
- 1 Clamshel (Sonosite Xporte)
- 2 Syringes
- 1 Dummy probe
- 1 Set of cables
- 100 needle patches

ADDITIONAL MODULES:

PERIPHERAL NERVE PACKAGE (PNB) (option):

- Learn ultrasound image interpretation along with needle-probe coordination with the NeedleTrainer PNB package, which supports 9 high-value regional anaesthesia procedures.
- The PNB* procedure mode provides real-time colour highlighting of key sono-anatomical structures on live ultrasound, in addition to simulated needle overlay.

NEEDLE POINT SUBSTITUTIONS (option):

- NeedleTrainer uses self-adhesive patches to allow simulated needle insertion in a live subject. Replacement patches can be ordered online in boxes of 100 or 50.

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