



NeedleTrainer

Needle probe coordination in an
intuitive and user friendly platform



ULTRASOUND-GUIDED NEEDLING

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- Real time virtual needle overlay on live ultrasound image
- Realistic needling simulation
- In-plane and out of plane views on ultrasound image
- Time metrics for proficiency of needle probe co-ordination

PRACTICE MODES

- Needling and Scan Mode - Freestyle Needling Practice on anybody region and habitus
- Offline mode - practice needling without an Ultrasound Machine on recorded cineloops

SIMULATION HARDWARE

- Non-invasive retractable needle
- Ultrasound Probe bracket discretely houses the sensor that tracks probe positioning

COMPATIBILITY

- Compatible with
 - SonoSite X-Porte with HFL50xp + L38xp
 - SonoSite SII HFL50x
 - Sonosite Edge II HFL50x
- Compatibility with other ultrasound machines under development

OPTIONAL ADD-ON

Practice mode to help ultrasound image interpretation skills for Regional Anesthesia

Virtual needle overlay together with live highlighting of key sono-anatomical structures

Supports 9 high-value peripheral nerve block (PNB) procedures:

- Interscalene
- Superior Trunk
- Supraclavicular
- Axillary
- Erector Spinae Plane
- Rectus Sheath
- Suprainguinal Fascia Iliaca
- Adductor Canal / Subsartorial
- Femoral triangle
- Popliteal



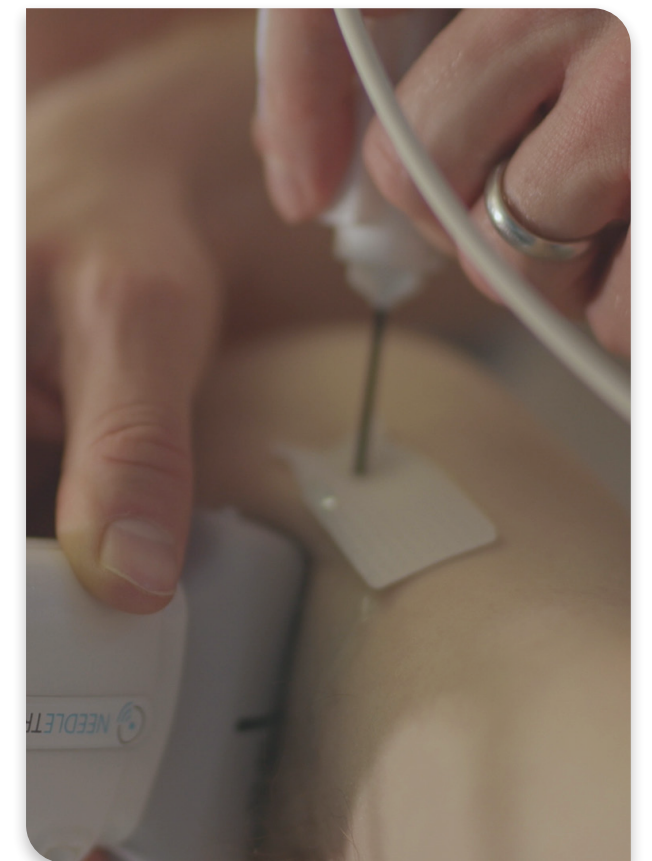
Non-Invasive Practise Of Ultrasound-Guided Needle Insertion

NeedleTrainer is a real-time, simulation tool to develop the needle-probe co-ordination skills required for safe ultrasound guided interventional procedures.

Allows the use of live models to create the high-fidelity simulation of ultrasound-guided interventional procedures in a realistic clinical environment.



OPTIONAL PNB HIGHLIGHTING



KEY FEATURES

- Real-time high fidelity image of a virtual needle in both in-plane and out of plane views on an ultrasound image
- Quantitive time metrics to track performance for proficiency of needle probe co-ordination
- Allows customisation of virtual needle settings according to:
 - Echogenicity: Obvious, Semi-obvious, Realistic
 - Gauge: 14G, 18G, 22G and 27G
- Practice on any body-region and body-habitus
- The optional Peripheral Nerve Block procedure mode provides a coloured highlight of key sono-anatomical structures in real-time on the live ultrasound scan, in addition to the simulated needle overlay





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