Making ultrasound EASIER to learn and SIMPLER to use
Supporting the delivery of Ultrasound Guided Regional Anesthesia
Our classroom-to-clinic package includes NeedleTrainer, designed to enable practitioners to develop sono-anatomy interpretation and needle-probe co-ordination skills in the simulation setting, before moving into the clinical environment to use the ScanNav Anatomy PNB as a concurrent reading tool to interpret the sono-anatomy whilst preparing to deliver UGRA prior to needle insertion.
Applicable to any discipline that utilises ultrasound-guided needling, NeedleTrainer allows practitioners to refine their needle-probe co-ordination skills non-invasively by using a virtual image overlay and retractable needle on a live volunteer with a real-time ultrasound scan.
Competence follows confidence

Teaching with NeedleTrainer has been shown to improve the confidence levels of 90.7% of delegates when attending ultrasound-guided regional anaesthesia courses.*

*Data on file. Intelligent Ultrasound. 2023
ScanNav Anatomy PNB is an AI system that has been developed to help practitioners acquire and interpret optimal ultrasound images when preparing to deliver peripheral nerve blocks.

**Developing knowledge, confidence and skills**

ScanNav Anatomy PNB supports practitioners who are less experienced in delivering UGRA, or who administer it less frequently, by identifying the key sono-anatomical structures relevant to 9 Plan A/high yield peripheral nerve blocks.
Developing knowledge, confidence and skills

In a published clinical trial, AI-highlighting delivered by ScanNav Anatomy PNB was helpful in identifying specific anatomical structures in 99.7% of cases and for confirming the correct ultrasound view in 99.3% of cases.*

Enabling confidence with Classroom to Clinic

A recent evaluation of service, in a UK hospital, demonstrated that assistive AI can be used to increase the delivery of UGRA and improve patient access to these techniques. During the evaluation, there was a 40.4% relative increase in the number of peripheral nerve blocks used in trauma cases.1

Studies have shown that experts believe it could reduce the risk of block failure and side effects such as nerve injury.2

1. Data on file. Intelligent Ultrasound. 2023
## Trainees and Residents in Anesthesiology

### Never delivered UGRA
- General skills
  - Ultrasound scanning
  - Needle probe manipulation
- Block-specific practice
  - Probe placement
  - Acquiring an optimal ultrasound view
  - Identifying key sono-anatomy
  - Safe needle insertion

### Improved confidence in UGRA
- The ability to deliver Plan A peripheral nerve blocks under supervision in line with training requirements progressing to working independently to deliver UGRA

## Attending Anesthesiologist

### Non-Specialist in RA
- Confidence to deliver blocks that are infrequently delivered in clinical practice

### RA specialist
- No skill development required for personal practice

### How is it achieved?

**NEEDLETRAINER®**
- In the classroom
  - NT enables simulated practice and development of skills essential to safe delivery of UGRA

**SCANNAV®**
- In the providing assistance in clinical
  - PNB training/reference material acts as a reminder of ultrasound probe placement and specific sono-anatomy for Plan A blocks
- In the clinical setting supporting clinical
  - PNB supports confidence in clinical practice by providing a "digital second opinion" that an appropriate block view has been obtained and key sono-anatomical structures have been identified correctly.

**NEEDLETRAINER®**
- To support delivery of training in UGRA