

Real-time AI-guided system for ultrasound-guided Peripheral Nerve Blocks

ScanNav Anatomy Peripheral Nerve Block (PNB) is an AI-assisted highlighting system which highlights key PNB anatomical structures during live scanning. ScanNav Anatomy PNB uses world-class AI to highlight the key anatomical structures on the live ultrasound image as you scan. It supports the performance of healthcare professionals who are suitably qualified, but who perform ultrasound-guided procedures on a less frequent basis.

Key Features

- Highlights the key structures relevant to each procedure in real-time
- Complete with block-specific 3D-animated training material
- Supplied as a stand-alone device, mounted on a portable cart
- Compatible with general purpose ultrasound machines with DVI and HDMI second monitor port
- Can be cleaned with medical grade disinfectants and touchscreen can be operated while wearing gloves

“ScanNav Anatomy PNB will help tip the balance of safety and confidence in favour of performing regional anaesthesia. Our aim is to make a real clinical difference to patients by increasing the availability of regional anaesthesia through cutting edge technology”

Dr David Burckett-St.Laurent,
Consultant Anaesthetist,
Royal Cornwall Hospitals NHS Trust, Cornwall



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Image shows live highlighting of anatomy, relevant for interscalene block

ScanNav Anatomy PNB includes a range of reference videos using 3D animation to show the relationship between probe position and sonoanatomy. ScanNav Anatomy PNB enhances the accuracy and standardisation of the ultrasound image interpretation by making it easier to identify key anatomical structures.

9 Supported Procedures

ScanNav Anatomy PNB supports the following 9 high-value basic ultrasound guided regional anaesthesia procedures:^{1, 2}

- Interscalene
- Superior Trunk
- Supraclavicular
- Axillary
- Erector Spinae Plane
- Rectus Sheath
- Suprainguinal Fascia Iliaca
- Adductor Canal /Sub-sartorial femoral triangle
- Popliteal

ScanNav Anatomy PNB can also be used as a training simulator for medical learning on volunteers, prior to patient contact.

Clinical Validation

In a validation study³ 3 regional anaesthesia experts judged the AI-driven colour highlighting to be helpful:

- for identifying anatomical structures in 1,330/1,334 cases (99.7%)
- for confirming the correct ultrasound view in 273/275 ultrasound scans (99.3%)

Clinical papers for reference

1. Turbitt LR, Mariano ER, El-Boghdadly K. Future directions in regional anaesthesia: not just for the cognoscenti. *Anaesthesia*. 2020 Mar;75(3):293-297. doi: 10.1111/anae.14768. Epub 2019 Jul 3. PMID: 31268173.
2. Bowness J, El-Boghdadly K, Burckett-St Laurent D. Artificial intelligence for image interpretation in ultrasound-guided regional anaesthesia. *Anaesthesia*. 2020 Jul 29. doi: 10.1111/anae.15212. Epub ahead of print. PMID: 32726498.
3. Bowness J, Varsou O, Turbitt L, Burckett-St Laurent D. (2021). Identifying anatomical structures on ultrasound: assistive artificial intelligence in ultrasound-guided regional anaesthesia. *Clinical Anatomy*, 1–8. <https://doi.org/10.1002/ca.23742>



To find out more about how ScanNav Anatomy PNB can help you in your facility, get in touch today:

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