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Ultrasound Epidural & Lumbar Puncture Model, Light

Item No. ALT61002
Weight
Make: Adam, Rouilly Limited, UK

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SKU:

Categories:Ultrasound



Product Description

The Ultrasound Epidural & Lumbar Puncture trainer is designed to aid training in real-time ultrasound guided procedures. The Limbs & Things ecolucent material has been thoroughly tested to ensure its acoustic properties offer an experience as close to human tissue as possible*. and is compatible with most commercial ultrasound machines. Augmented Reality is now part of the Lumbar Puncture range.

Skills Gained

- Performing procedures in a sitting and left lateral position
- Identifying the iliac crests
- Identifying landmarks under ultrasound – spinous processes, interspinous space and facet joints

- Pre-puncture ultrasound mark up on the injection site
- Real time ultrasound guided injection
- Administering of local anaesthetic injections
- Administering of therapeutic treatments, e.g. antibiotics or chemotherapy medication
- Administration of an epidural
- Collection and measurement of cerebrospinal fluid
- Anatomy:
 - Palpable sacrum
 - Iliac crests
 - Lumbar vertebrae between L2 and L5 with spinous processes
- Spinous processes and Facet joints are visible under ultrasound
- Ultrasound inserts can be used to practice marking landmarks
- Multi-purpose stand allows for practice in both standing and left lateral positions
- The Limbs & Things eolucent material has been thoroughly tested to ensure its acoustic properties offer an experience as close to human tissue as possible and is compatible with most commercial ultrasound machines – human tissue has: a wave speed of 1540-1620ms & attenuation co-efficient of 0.5-5Mhz, Limbs & Things Ultrasound material has a wave speed of 1600ms & attenuation co-efficient of 2Mhz
- As both a Lumbar Puncture and Epidural trainer, this model can be used to teach:
 - Loss of resistance technique
 - Paramedian approach
 - Threading an epidural catheter
 - Administering fluids
- Simulated Patient: this product can be used with a simulated patient to develop communication skills
- NEW: Augmented Reality capabilities with the ART Mat
- The new ART Mats combine real world MRI and CT scan data, with the skills of talented medical artists and digital creators, to bring the internal anatomy of our trainers to life
- Within the Limbs & Things ART app's digital environment, you can move around your task trainer and view various overlays, including: the musculature, organs and vessels, and skeletal structure
- The app's interface allows you to move seamlessly between the layers, as well as view their cross sections
- Students are also able to view digital procedures in the AR environment to see how the procedure is done, and its impact on the patient's anatomy
- Durable lumbar tissue insert and duras are longer lasting, increasing life span and keeping on going costs down
- Simulator gives a distinctive "pop" feeling when puncturing the dura during an ultrasound guided lumbar puncture procedure
- Needle insertion possible between vertebrae
- Ability to feel when the dura is punctured during lumbar puncture

- Realistic rate of cerebrospinal fluid (CSF) can be simulated
- All epidural and lumbar puncture inserts are compatible with the common base
- Skin and duras can be rotated to extend their life span and ensure cost effective training
- The stand provided allows for training in left lateral and sitting positions

Includes

- Torso with Torso Skin
- Epidural & Lumbar Puncture Stand
- ALT61022 Water Reservoir
- ALT61014 Epidural & Lumbar Puncture Ultrasound Insert, Light
- ALT61017 Epidural & Lumbar Puncture Standard Dura (Pack of 2)
- ALT61018 Epidural & Lumbar Puncture Advanced Dura (Pack of 4)
- ALT61019 Epidural & Lumbar Puncture Iliac Crest Insert
- ALT61020 Epidural & Lumbar Puncture Insert Cartridge
- Marker Pen
- ALT60130 ART Mat for Lumbar Puncture

Not included

- Spinal needles
- Manometer
- Epidural kit
- Large curvilinear probe
- Ultrasound gel

Cleaning & Safety

- Drain all fluid from the product when not in use
- Clean lumbar puncture trainer with a damp cloth, using warm water and mild detergent
- Allow trainer to completely dry before storing
- This product is latex free
- Use gloves while using the Ultrasound Epidural and Lumbar Puncture trainer
- Wash hands thoroughly after handling the Ultrasound insert
- Please note: Fat Pads and Skin Pads are replacement parts for the palpation modules only, they are not compatible with ultrasound
- When marking up the ultrasound block, it is recommended to only use the supplied marker pen

Manufacturer

Limbs & Things