Epidural Training Model

User Guide

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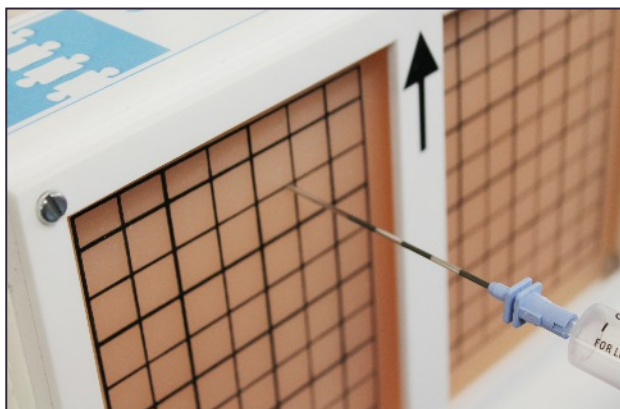
Epidural Training Model

The epidural training model is an easy to use multi-functional simulator for epidural and spinal puncture.

Success for epidural and spinal blocks depends upon correctly identifying ligaments and bony structures. The epidural inserts used in this simulator have been designed to accurately reproduce the 'feeling' of the tissues that the needle traverses during a spinal block. This has been achieved with extensive testing by a team of experienced clinical staff.
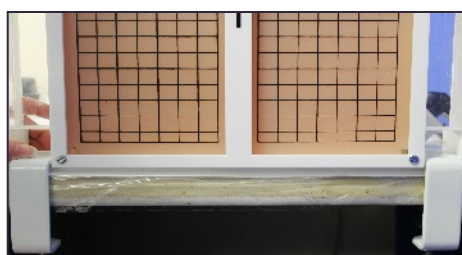
Contents (Epidural Starter Kit)

Base Unit
Grid Insert 2cm Fat
Grid Insert 1cm Fat
Spinal Insert
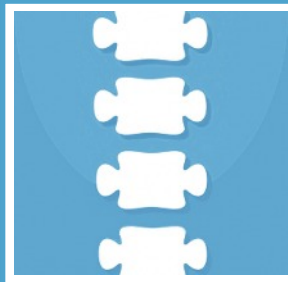Screw Driver
2 x Bench Clamps

The Epidural Training Model is supplied pre-loaded with the Grid Insert with 2cm Fat.
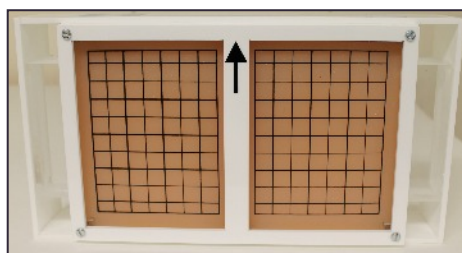
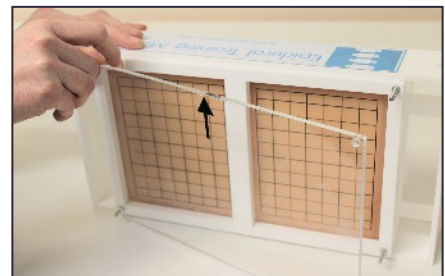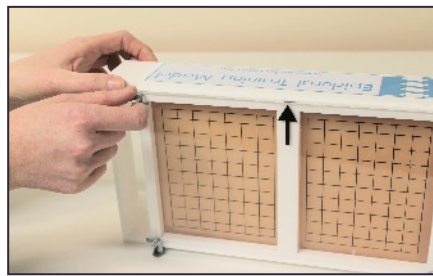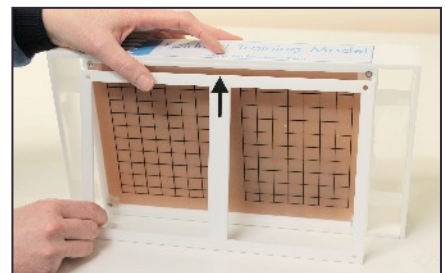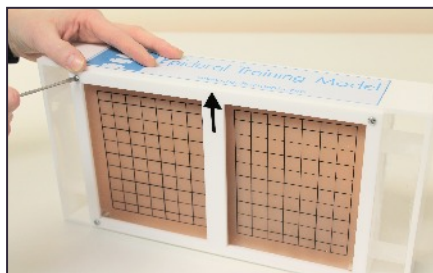Attach model to bench with the clamps provided prior to use.
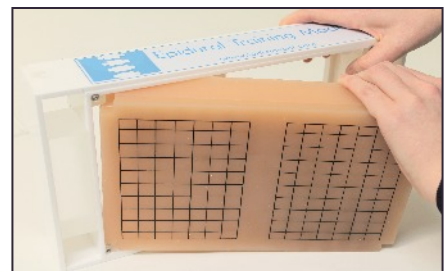
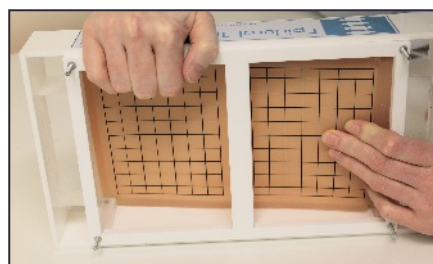# Epidural Training Model

Changing Insert

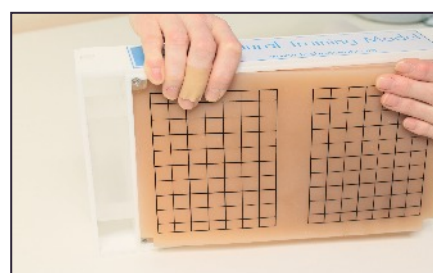1. Using the screwdriver provided, unscrew and remove back plate.
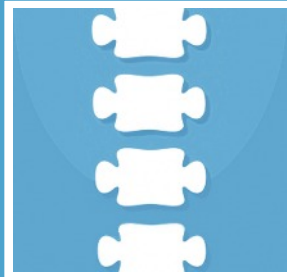
2. Unscrew and remove front panel.

3. Carefully push out the insert from the back.

4. Insert new insert and fix back plate and front panel.
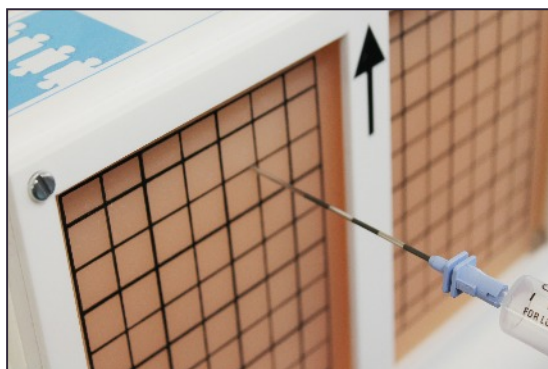
Epidural Training Model

Using the Grid Insert

The grid insert reproduces the consistency and 'feel' of the ligaments in the back, and the approximate thickness of the distance to the epidural space.

The epidural space is normally identified by a loss of resistance technique using saline or air in the needle. If the needle is inserted further than the 'epidural space', it will be stopped by the back plate after a few millimetres, approximating the distance to the dural sac. Note that this simulator does not reproduce the sensation of dural puncture and is not a 'wet' simulator - there is no Cerebrospinal fluid.

There are two grids printed on the front of the model to aid with identifying the previous puncture of the model, and to help the supervisor judge the angulation of the needle as it penetrates the model.

There are two grid models supplied, one simulating 1cm fat and the Other 2cm fat.
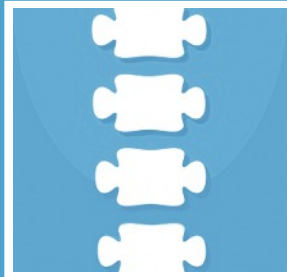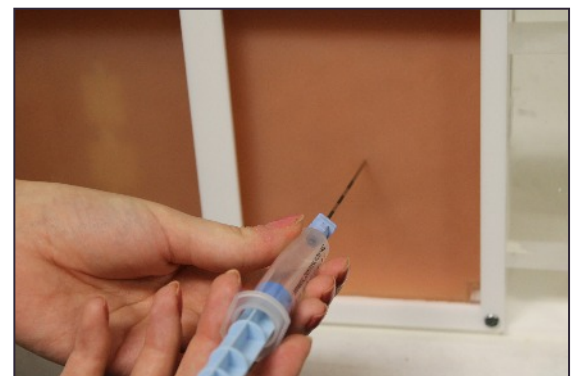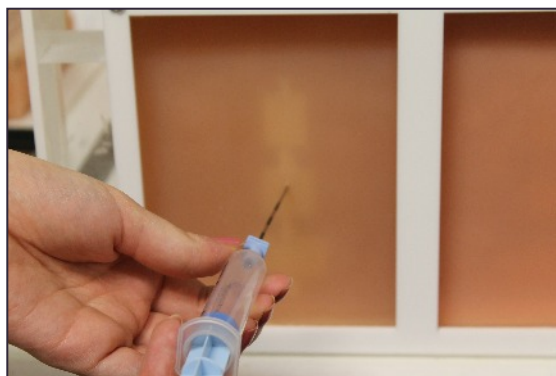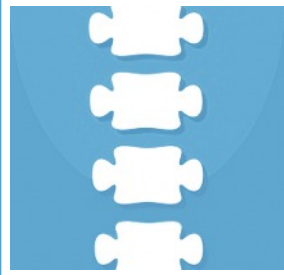
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Using the Spinal Insert

In addition to simulating the ligaments of the back, the spinal insert also simulates the bony structures relevant to epidural and spinal block. Lumbar vertebrae L1-4 are simulated to provide simulation that is closer to an epidural or spinal puncture on a real patient.

The insert is split into two parts. On one side the bones can be clearly seen, and on the other side the bones are not visible. On this side the intervertebral space can only be identified by palpation (as would be the case with patients).

It is suggested that novices practice first with the grid insert, and when confidence is achieved with this model, progress to the spinal insert model. This will enable progression of learning from a low to a higher fidelity of simulation prior to performing the procedure on patients.

Epidural Training Model

Ordering Information

All items are available individually to purchase.

Base Unit
Grid Insert 2cm Fat
Grid Insert 1cm Fat
Spinal Insert
Screw Driver
Bench Clamps

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