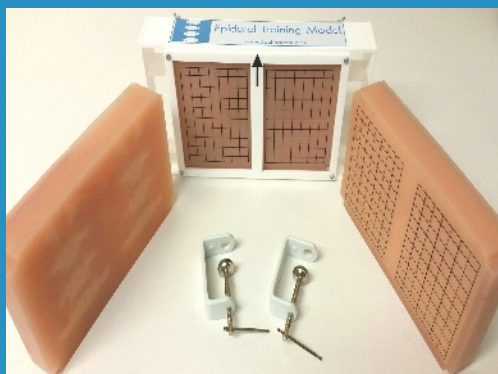


Epidural Training Model

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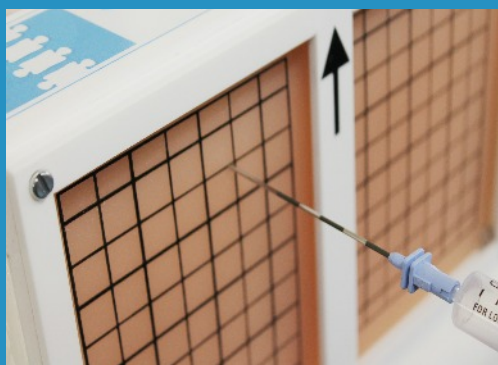
In partnership with Cardiff University, Technovent Ltd has developed an epidural training model with realistic feeling tissues.

Epidural training models exist but are either high fidelity or simple plastic and rubber models. However, even the highest fidelity models lack the accuracy of the feel of real skin and tissues. The Epidural Training Model has been developed in collaboration with consultant Anaesthetists from Cardiff University Hospital to accurately reproduce the feeling of the tissues as the needle traverses through the spinal block, therefore enabling the ligaments and bony structures to be identified. The materials used in the models are mainly silicone rubbers with differing properties, each layer individually designed to replicate a certain structure.



The training model kit has 3 inserts. One with 1cm fat layer, one with a 2cm fat layer (to replicate slightly larger patients) and another with the spinal bones.

Both the 1cm and 2cm inserts have a grid system printed on both sides. This can be used to check if the needle is being inserted straight. The spinal insert does not have a grid system but upon pressing the silicone, the spinal bones can be felt inside before inserting the needle.



Once the needle is inserted and the introducer is removed, a syringe of air or saline can be attached. When the needle passes through all the silicone layers a loss of resistance is felt.

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