



## CAE Blue Phantom

### Lumbar Puncture and Spinal Epidural Training Model

#### Realistic and resilient ultrasound training models

CAE Healthcare's Blue Phantom ultrasound training phantoms are built with realism and durability so you can count on their lifespan. The Blue Phantom trainers support at least 20 medical specialties including central line insertion, breast biopsy, and transvaginal ultrasound exams. CAE's realistic ultrasound training phantoms realistically replicate human tissue in every way. Built with a patented self-sealing Simulex™ tissue, the training models image like real tissue using any clinical ultrasound system and cannulate like real tissue to support hands-on training. All training models, except Endovaginal and FAST, are available in a transparent configuration, upon customer request.

For more information on Blue Phantom ultrasound training models visit [bluephantom.com](https://bluephantom.com).

Your worldwide training partner of choice



# Lumbar Puncture and Spinal Epidural Training Model



- Excellent training platform for lumbar puncture, lumbar epidural, thoracic epidural, and cervical epidural procedures\*
- Excellent for blind insertion techniques or using ultrasound for guided lumbar puncture and spinal epidural procedures
- Superb for needle access as well as the placement of catheters
- Can be positioned in the upright or lateral decubitus position allowing users to accurately position the model for appropriate training scenarios
- External landmarks as the iliac crests can be palpated in the model to initially orient the user to the proper access points
- Palpation of the spinous processes provides additional landmarks
- The accessory obese spinal insert\*\* provides more adipose tissue disallowing the palpation of the spinal processes
- Each spine tissue module is superb in its realism and contains the appropriate spinal segment, skin tissue, ligamentum flavum, epidural space, dura, subarachnoid membrane, and subarachnoid space containing cerebral spinal fluid
- Utilize for full procedural training including injecting local anesthetics, introduce the needle to the epidural space and/or subarachnoid space, thread catheters, infuse simulated anesthetics, and obtain manometer measurements
- Realistic tissue response including the pop encountered when traversing the ligamentum flavum, loss of resistance when entering the epidural space, and cerebral spinal fluid flow when the spinal cistern is accurately accessed.
- The cerebral spinal fluid pressures can be easily increased in order to simulate pathological scenarios during lumbar puncture procedures
- The optional thoracic or cervical/upper thoracic spine insert allows users to practice thoracic or cervical epidural needle and catheter placements\*
- Available in a variety of configurations to meet your training needs



- Extremely durable and is self-healing which saves you money by reducing the need to repeatedly purchase replacement parts
- All injected fluids are automatically expelled and cerebral spinal fluid that is removed is easily refilled using quick refill ports
- Ultrasound can be used for identification of the optimal insertion points, angle of needle insertion, and determination of the depth to the ligamentum flavum, epidural space, and spinal cistern
- Superb ultrasound imaging characteristics
- Use any ultrasound system and never have to adjust the system settings unrealistically or have problems imaging the model's anatomy
- Ultra-durable self-healing tissue is extremely realistic in ultrasound imaging characteristics and feels like real human tissue
- Self-healing tissue will withstand tremendous use and will save you money by dramatically reducing the necessity for purchasing replacement parts
- Purchase includes 1 bottle of simulated refill solution; one clear 235mls bottle
- Add optional Soft Storage Case for light transport and storage
- Modular design
- High quality
- Patented technology
- Size: 17" x 11" x 17" (43cm x 28cm x 43cm) (L x W x H)
- Weight: 33lbs (15kg)

\*The thoracic tissue module and cervical tissue module are optional and available at an additional cost.

\*\*The obese spinal insert tissue module is optional and available at an additional cost.