

Lumbar Puncture Model

Price inquiry: +48 605999769, kontakt@openmedis.pl

Product code: SM03655



The standard Lumbar Puncture trainer is designed for use in undergraduate and early postgraduate medical training.

In training sessions, medical students will get a true to life experience, including:

- A distinctive “pop” when puncturing the Dura (using the standard Dura) during a lumbar puncture procedure
- Measurable cerebrospinal fluid (CSF) pressure, model can present realistic pressure between 5 to 25 cmH₂O
- Realistic flow of fluid from the water reservoir, increasing the volume of water will increase the flow rate allowing for quicker training
- Palpable bony landmarks for identification of target vertebrae
- To ensure that ongoing costs remain low, this trainer comes with two LP Tissue Inserts, making it a cost-effective way to train large numbers of students. The Bone Spine Insert can be swapped in seconds, making the tissue easily replaceable for continued use.

If you are looking to train in lumbar puncture and epidural procedures, take a look at our Advanced Epidural & Lumbar Puncture simulator **SKILLS GAINED**

- Identifying the iliac crests
- Administering of local anaesthetic injections
- Administering of therapeutic treatments, e.g. antibiotics or chemotherapy medication
- Performing diagnostic lumbar punctures
- Collection and measurement of cerebrospinal fluid
- Performing procedures in a sitting and left lateral position

OVERVIEW

- Simulator gives a distinctive “pop” feeling when puncturing the dura during a lumbar puncture procedure
- Durable lumbar tissue insert and duras are longer lasting, increasing life span and keeping on going costs down

REALISM

- 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

VERSATILITY

- 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

CLEANING



- 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

SAFETY

- This product is latex free

ANATOMY

- Palpable sacrum
- Iliac crests
- Lumbar vertebrae between L2 and L5 with spinous processes
- Ligamentum flavum

CONTAINS

- Water Reservoir 2Ltr
- Lumbar Puncture Insert - Bone
- Lumbar Puncture Insert - Tissue (Pack of 2)
- Epidural & Lumbar Puncture Skin Pad (Light Skin Tone)
- Epidural & Lumbar Puncture Standard Dura (Pack of 2)
- Epidural & Lumbar Puncture Iliac Crest Insert
- Epidural & Lumbar Puncture Insert Cartridge
- Epidural & Lumbar Puncture Sacral Insert (Light Skin Tone)

Ultrasound Epidural & Lumbar Puncture Model

Price inquiry: +48 605999769, kontakt@openmedis.pl

Product code: SM03658



The Ultrasound Epidural & Lumbar Puncture trainer is designed to aid training in real-time ultrasound guided procedures. What are the latest features that support ultrasound guided injections and lumbar punctures?

- 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

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

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

OVERVIEW

- Simulator gives a distinctive “pop” feeling when puncturing the dura during a lumbar puncture procedure
- Durable lumbar tissue insert and duras are longer lasting, increasing life span and keeping on going costs down

REALISM

- 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

VERSATILITY

- 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

CLEANING



- 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

SAFETY

- 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

ANATOMY

- Palpable sacrum
- Iliac crests
- Lumbar vertebrae between L2 and L5 with spinous processes

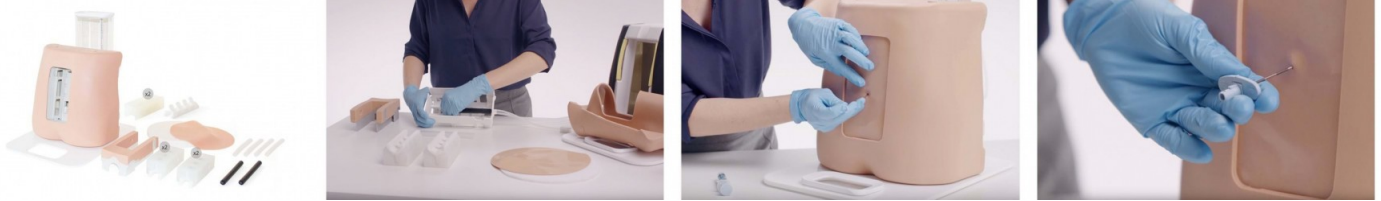
CONTAINS

- Water Reservoir 2Ltr
- Epidural & Lumbar Puncture Ultrasound Insert (Pack of 2, Light Skin Tone)
- Epidural & Lumbar Puncture Standard Dura (Pack of 2)
- Epidural & Lumbar Puncture Advanced Dura (Pack of 4)
- Epidural & Lumbar Puncture Iliac Crest Insert
- Epidural & Lumbar Puncture Insert Cartridge

Advanced Epidural & Lumbar Puncture Model

Price inquiry: +48 605999769, kontakt@openmedis.pl

Product code: SM03657



The Advanced Epidural & Lumbar Puncture trainer is suitable for use in Clinical Skills Centres, where both early postgraduate medical and anaesthesia specialisms are taught. Trainees are at a more advanced stage of training, and great realism and the ability to practice on a variety of patients is essential for continued learning. What are the latest features that support training in administering lumbar punctures? In training sessions, medical students will get a true to life experience, including: A distinctive “pop” when puncturing the Dura (using the standard Dura) during a lumbar puncture procedure or more subtle feedback when using the advanced Dura. Measurable cerebrospinal fluid (CSF) pressure, model can present realistic pressure between 5 to 25 cmH₂O. Realistic flow of fluid from the water reservoir, increasing the volume of water will increase the flow rate allowing for quicker training. What are the latest features that support training in epidural procedures? Ligamentum flavum and interspinous ligaments allow for more realistic haptic feedback and practice of loss of resistance techniques during needle insertion. 6mm epidural space between the insert and the dura enable practice threading an epidural catheter and administering fluids. Softer silicone on either side of the spine offers greater realism and the paramedian approach is easier to perform. Four epidural inserts are supplied with this model, the advanced insert has a steeper angle with a reduced epidural space, allowing practice of more difficult injections. The advanced model comes with three fat pads that can be inserted behind the Skin Pad. Used individually or in combination, they can simulate patients with different amounts of body fat, allowing trainees to practice varying difficulties of injection. To ensure that ongoing costs remain low, this trainer comes with two LP Tissue Inserts, two standard Epidural and two advanced Epidural Inserts. This makes for a more cost-effective way to train large numbers of students. Inserts are easily interchangeable and offer a variety of training scenarios. If you are looking to train in ultrasound guided lumbar puncture and epidural procedures, take a look at our Ultrasound Epidural & Lumbar Puncture Model. **SKILLS GAINED**

- Identifying the iliac crests
- Administering of local anaesthetic injections
- Administering of therapeutic treatments, e.g. antibiotics or chemotherapy medication
- Performing diagnostic lumbar punctures
- Collection and measurement of cerebrospinal fluid
- Performing procedures in a sitting and left lateral position
- Administration of an epidural

OVERVIEW

- Simulator gives a distinctive “pop” feeling when puncturing the dura during a lumbar puncture procedure
- Durable lumbar tissue insert and duras are longer lasting, increasing life span and keeping on going costs down

REALISM

- 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
- Fat pads can be inserted to vary the patient form

VERSATILITY

- 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

CLEANING

- 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

SAFETY

- This product is latex free

ANATOMY

- Palpable sacrum
- Iliac crests
- Lumbar vertebrae between L2 and L5 with spinous processes
- Ligamentum flavum

CONTAINS

- Water Reservoir 2Ltr
- Lumbar Puncture Insert - Bone
- Lumbar Puncture Insert - Tissue (Pack of 2)
- Epidural Insert (Pack of 2)
- Advanced Epidural Insert (Pack of 2)
- Epidural & Lumbar Puncture Skin Pad (Light Skin Tone)
- Epidural & Lumbar Puncture Fat Pad (Pack of 3)
- Epidural & Lumbar Puncture Standard Dura (Pack of 2)
- Epidural & Lumbar Puncture Advanced Dura (Pack of 4)
- Epidural & Lumbar Puncture Iliac Crest Insert
- Epidural & Lumbar Puncture Insert Cartridge
- Epidural & Lumbar Puncture Sacral Insert (Light Skin Tone)



Transport and storage case for SM01473

Price inquiry: +48 605999769, kontakt@openmedis.pl

Product code: SM03463



Lightweight, airtight and watertight case for SM01473. In-Line wheels for easy transport.



Transport case for SM03464

Price inquiry: +48 605999769, kontakt@openmedis.pl

Product code: SM03468



Transport case for SM03464.



Standard puncture core for SM01473

Price inquiry: +48 605999769, kontakt@openmedis.pl

Product code: SM03457



Standard puncture core for Epidural-Spinal Injection Simulator, includes 3 Spinal tubings, for SM01473.



Geriatric Replacement Core for SM01473

Price inquiry: +48 605999769, kontakt@openmedis.pl

Product code: SM03459



Geriatric puncture block, includes 3 Spinal tubings, for SM01473.



Obese Replacement Core for SM01473

Price inquiry: +48 605999769, kontakt@openmedis.pl

Product code: SM03458

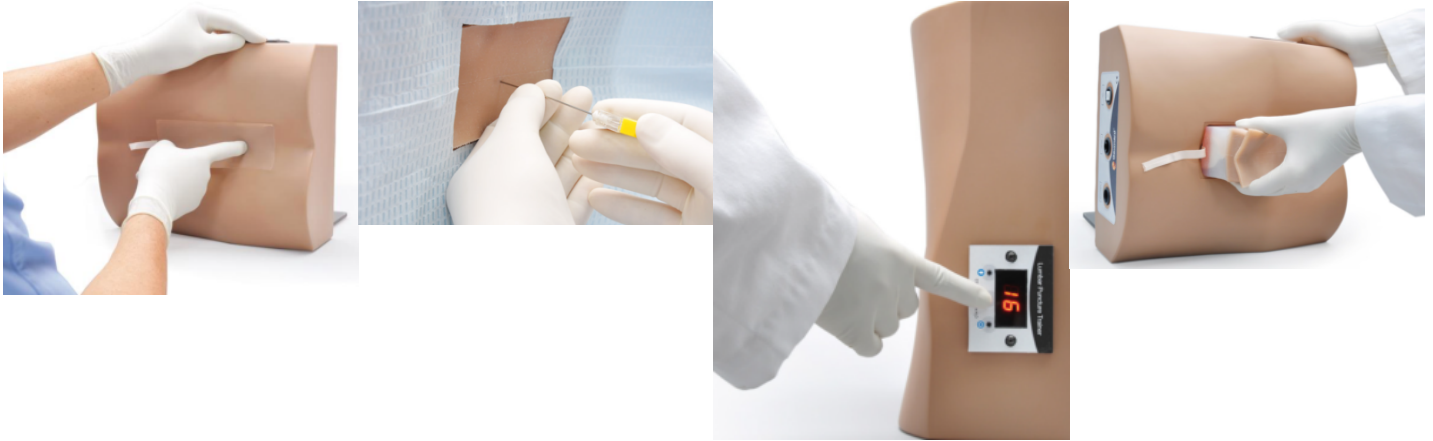


Obese puncture block, includes 3 Spinal tubings, for SM01473.

Lumbar Puncture Trainer

Price inquiry: +48 605999769, kontakt@openmedis.pl

Product code: SM03992



Provides realistic tactile feedback combined with a fluid supply and pressure system, allowing the collection of CSF and measurement of opening pressure. Ideal for practicing injection of local anesthesia, aseptic technique, needle insertion between vertebrae, lumbar puncture, and epidural.

Features - Replaceable spinal cord insert with skin layer, subcutaneous layer, connective tissue, and lumbar vertebrae - Anatomic features include: iliac crests, lumbar vertebrae L2 - L5, ligamentum flavum, epidural space, and dura - Needle insertion possible between vertebrae - Lifelike needle resistance, including pops when needle traverses ligamentum flavum and dura - Self-healing skin that allows 15 uses with an 18 gauge needle and 25 uses with a 22 gauge needle before replacement is necessary - Simple to fill simulated CSF and set fluid pressure, thereby allowing students to collect CSF and measure CSF opening pressure - Pressure system with simple push-button operation to increase or decrease pressure - LED displays pressure set-point ranging from low, medium to high pressure - Practice procedure in the left lateral decubitus or sitting position - Trainer can be used to simulate aseptic technique and local anesthetic at puncture site



Epidural-Spinal Injection Simulator GENESIS

Price inquiry: +48 605999769, kontakt@openmedis.pl

Product code: SM01473



The GENESIS Epidural-Spinal Injection Simulator is the ideal training simulator for common neuraxial blocks. This ultrasound compatible model contains anatomical structures found in the lumbar region and realistic dural puncture similar to a human patient. With the realistic loss of resistance and fluid filled intrathecal space users are able to locate the correct target sites. GENESIS is the beginning of lumbar block proficiency.

Features:

- Spinal space (Fluid filled tubing simulates dural click and CSF confirmation)
- Epidural space (Simulate LOR technique)
- Vertebral bodies (Locate interspace with visible and palpable spinous processes)
- Ligamentum flavum (Tough and gritty texture provides realistic tactile feel)
- Iliac crest (Standard landmark for L4 spinous process)

Training Techniques:

- Epidural LOR (Identify Epidural Loss of Resistance)
- Lumbar Puncture (Confirm Spinal Placement with Fluid Indication)
- Catheter Placement (Insert Epidural & Spinal Catheters)
- CSE Technique (Ideal for Combined Spinal Epidural Technique)
- Ultrasound Compatible (Increase Ultrasound Competency)

Additional puncture pad for geriatric and obese training available.
Supplied with two puncture pads and sic spinal tubings.

Baby Stap

Price inquiry: +48 605999769, kontakt@openmedis.pl

Product code: SM02980



Reproduction of a **neonatal infant positioned for the practice of lumbar puncture techniques.**

Addictional information:

- Lateral decubitus position, upright position
- Realistic interchangeable spine with spinal cord may be palpated for location of correct puncture site
- Fluid may be infused

THORAXIS Thoracic Neuraxial Simulator

Price inquiry: +48 605999769, kontakt@openmedis.pl

Product code: SM03464



The THORAXIS Thoracic Neuraxial Simulator is the ideal training simulator for common neuraxial blocks. The ultrasound compatible model contains anatomical structures found in the thoracic region and realistic dural puncture similar to a human patient. With the realistic loss of resistance and fluid filled intrathecal space users are able to locate the correct target sites. THORAXIS forms the basis of your thoracic neuraxial training.

Features:

- Spinal space (fluid filled tubing simulates dural click and CSF confirmation).
- Epidural space (simulate LOR technique).
- Vertebral bodies (locate interspace with visible and palpable spinous processes).
- Ligamentum flavum (tough and gritty texture provides realistic tactile feel).
- Scapular Angles (Superior and inferior angles of scapula serve as anatomical landmarks).

Training Techniques:

- Epidural LOR (Identify Epidural Loss of Resistance)
- Catheter Placement (Insert Epidural & Spinal Catheters)
- Ultrasound Compatible (Increase Ultrasound Competency)



Replacement Fill Line and Syringe for SM01473

Price inquiry: +48 605999769, kontakt@openmedis.pl

Product code: SM03462



Replacement Fill line with two female luer connectors and one 30ml syringe for SM01473.



Fill Line and Syringe for SM03464

Price inquiry: +48 605999769, kontakt@openmedis.pl

Product code: SM03467

Fill Line and Syringe for SM03464.



Spinal Tubing for SM03464

Price inquiry: +48 605999769, kontakt@openmedis.pl

Product code: SM03466

Spinal Tubing for SM03464.



Replacement Thin wall Spinal Tubing for SM01473

Price inquiry: +48 605999769, kontakt@openmedis.pl

Product code: SM03461



Set of three thin wall standard spinal tubes for SM01473.



Replacement Standard Spinal Tubing for SM01473

Price inquiry: +48 605999769, kontakt@openmedis.pl

Product code: SM03460



Set of three standard spinal tubes for SM01473.



Spare Core for SM03464

Price inquiry: +48 605999769, kontakt@openmedis.pl

Product code: SM03465

Spare Core for SM03464.