



ERLER ZIMMER
ANATOMY

- Anatomical Models
- 3D printed Specimen
- Medical Simulators
- Anatomical Charts



Welcome!

Thank you for taking interest in our products and picking up one of our catalogs!

Erler-Zimmer is a family owned and operated business with four generations of specialized experience in manufacturing medical education materials and trainers.

Through this catalog, the Probst family invites you to get to know our wide range of products. It is our personal mission to provide you with the perfect solution for your medical education needs.

Our qualified consultants are happy to assist you with any questions in regard to the features and functions of our products.

So please, feel free to reach to us! We look forward to welcoming another satisfied customer to the family.

Walter and Ute Probst
Mathias Probst
Patrick Probst

Your personal product consultant and account manager will handle all matters related to your account. This means your contact will always be familiar with your existing orders and new requests. This guarantees **efficient communication, fast service** and a high rate of **customer satisfaction**.

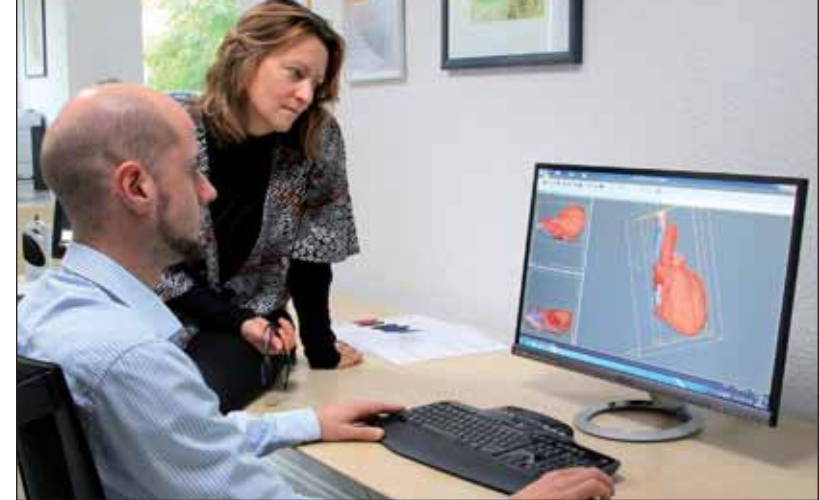
The priority of our product consultants is not sales numbers, but rather **suitable solutions** and satisfied customers.

Erler-Zimmer maintains a huge stock of products for immediate supply. This enables greater flexibility for your order and **shorter delivery times**.

You can reach our customer service at
Tel. +49 7841 6003-0
E-Mail: info@erler-zimmer.de

Utilizing the newest technology and scientific data

We utilize the latest technology and medical findings when developing our products. Using computers and real human data, we take care that nature is reproduced as realistically as possible and that the design is optimized for teaching purposes. All of our products are made of high quality materials and are assembled with care.



Made in Germany

Our factory has existed in Lauf, South-West-Germany for more than 65 years. Classic German values such as tidiness, order, diligence, reliability and quality awareness are very important to us. These standards are the basis of Erler-Zimmer's long-term success. Our loyal and long-standing employees guarantee high quality and reliable delivery times. For these reasons, products made by us rightly carry the quality seal "Made in Germany".



Quality without exception

A typical quality control by random sampling is not good enough for us. Because of this, each and every product is checked for quality before it leaves our warehouse, no exceptions. For this reason, you can be sure you will get a first class product from us.

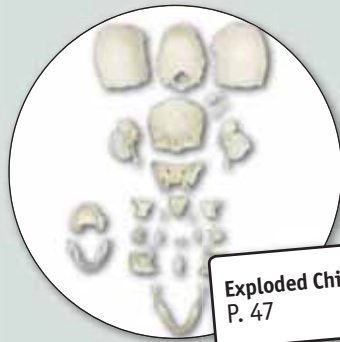
We provide an extended warranty of 3 years on everything we manufacture. If any defect in material or workmanship occurs, we will either replace or repair the product.



In this catalog you will find many new products – see some examples here:



Exploded Skull
P. 46



Exploded Child Skull
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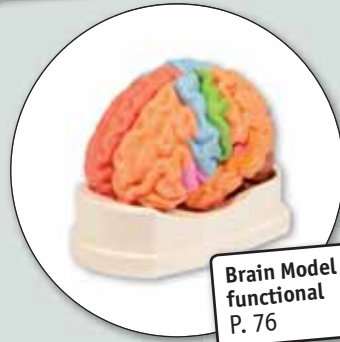
Hand with Ligaments
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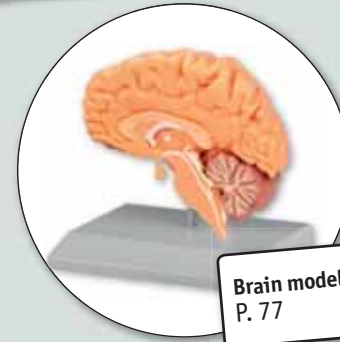
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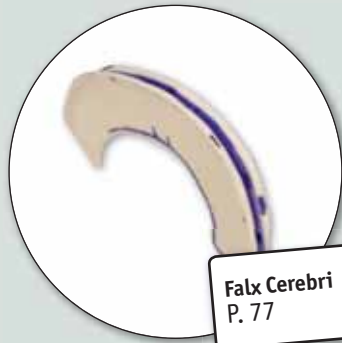
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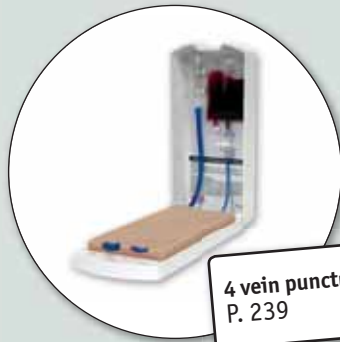
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Neonatal ultrasound trainin heads
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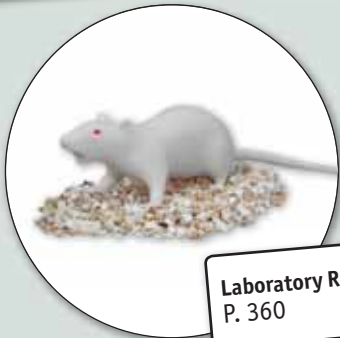
Animal IV trainers
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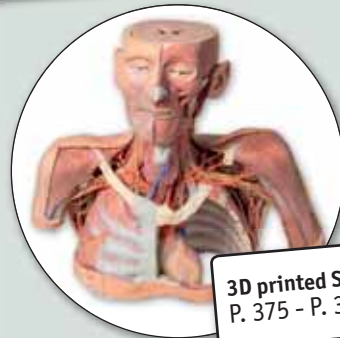
Animal bandaging trainers
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Laboratory Rat
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Equine palpation and x-ray leg
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3D printed Specimen
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Excellent value!

1 Didactic skeleton "Oscar" ▶

First class reproduction of a male adult skeleton. This skeleton is manufactured according to our strict quality regulations. The stable mounting and robust structure guarantees a long lasting quality even in intensive use.

THE FOLLOWING CHARACTERISTICS MAKE OSCAR THE RIGHT CHOICE:

- Perfect value for money
- **3 year warranty**, lifelong repair service
- Final assembly by hand **in Germany**
- Made of durable, unbreakable plastic
- Natural skeleton size
- The **teeth are manufactured separately** and inserted into the jaw.
- The limbs can be removed and re-attached very fast and easy using a quick fastener.
- Shoulder, hip and knee joints do have flexible rubber attachments that allow **lifelike, sliding joint movements**. This distinguishes Oscar pleasantly from less mobile models with metal joints.
- The about 200 bones of the skeleton correspond with real human bones in size and nearly in weight.
- The skeleton is **anatomically correct and complete**, it shows all important structures and foramina.
- **5-spoke roller stand**, rugged, smooth-running and removable.
- The spine of the skeleton shows **spinal nerves**, the **vertebral artery** and a dorsolateral disc prolapse.

Size with stand: 178 cm

Size w/o stand: 160 cm

Weight: appr. 9 kg

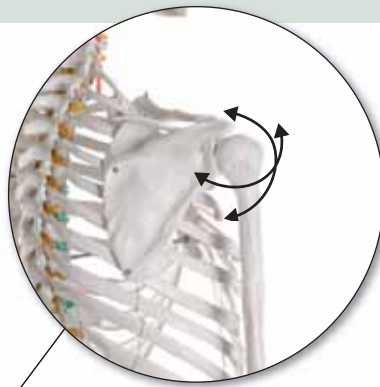
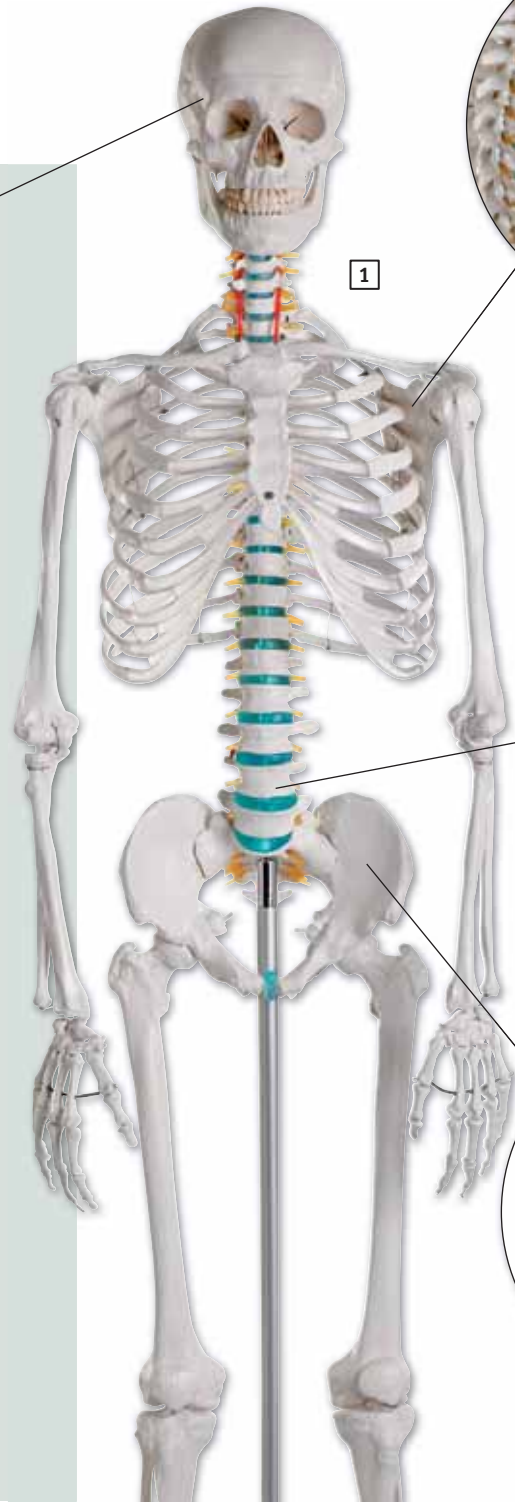
- Ref.no. 2960





▲ **IDEALIZED SKULL**

The three part skull was digitalized and modified to correspond with the standard anatomy. The size corresponds to **European standard size**, all important structures, fissures, foramen and processes are represented. The **skull can be dismantled** into base, lower jaw and skull cap. The skullcap is **adjusted to the base with metal pins** and held with magnets. Due to this technology **no pin can break** and there will be **no gap** between skull cap and base. This distinguishes the skull from most competitors skulls. There are no hooks that could break or deform.



▲ **NATURAL MOVABILITY OF THE JOINTS**

Unlike the skeletons with metal joints Oscar is able to move the joints freely, the **joint surfaces slide on each other** and do not stick out like the joints in other skeletons do. This allows to demonstrate not only turning movements, but all possible joint movements. The **quick fasteners** allow to remove and reassemble the joint connections in seconds. This makes removing or assembling the limbs a childs play.



▲ The spine of the skeleton shows **spinal nerves**, the **vertebral artery** and a **dorsolateral disc prolapse**.



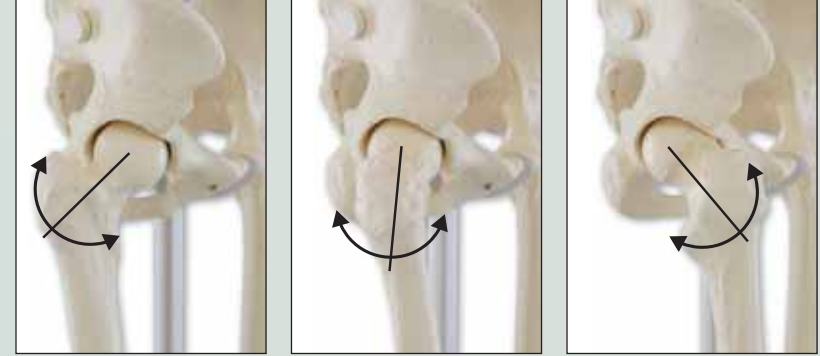
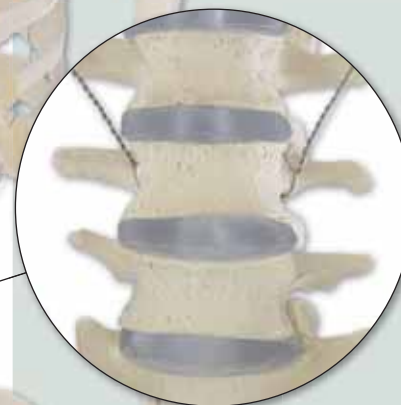
Erler-Zimmer Skeletons

All Erler-Zimmer skeletons are castings of natural skeletons of highest quality and authenticity. The models in resistant synthetic material show all the anatomical details, structures, fissures, foramina and processes. All bones are manufactured individually and have been carefully assembled. Hands and feet are mounted flexibly on wire. Arms, legs and the skull can be removed easily and partially disassembled. The 5-leg castor-mounted stand provides the model with a consistently good support and allows simple transport from one room to another.



Idealized skull

The three part skull was digitalized and modified to correspond with the standard anatomy. The size corresponds to European standard size, all important structures, fissures, foramen and processes are represented. The skull can be dismantled into base, lower jaw and skull cap. The skull can be adjusted to the base with metal pins and held with magnets. Due to this technology no pin can break and there will be no gap between skull cap and base. This distinguishes the skull from most competitor's skulls. There are no hooks that could break or deform.



Sliding joints

Shoulder and hip are mounted without interfering metal parts and offer the possibility of demonstrating gliding movements in the joint in addition to rotational movements. The joint surfaces slide directly against one another and make demonstration of all gliding and traction capabilities according to manual principles and biomechanics possible for the first time.



Movable shoulder blades

The shoulder blades are mounted in such a way that they are capable of simultaneous motion with arm movements. Consequently, the natural movement process can be illustrated.



Flexible ankle joint

The upper ankle joint is mounted on elastic band and allows all movements. The foot can be simply removed in order to take it to a lesson, for example.

1 Skeleton "Willi" ▶

The ideal model for anatomical study. All details and structures are faithfully reproduced.

The model has the following characteristics:

- Natural casting of a human skeleton
- Representation of all anatomical details, fissures, foramina and processes
- Skull can be dismantled in three parts
- Removable arms and legs
- Gliding joints in shoulder, hip and ankle
- Leg can be dismantled at the knee
- Removable foot
- Movable shoulder blades
- 5-leg, safety castor-mounted stand

Height with stand: appr. 1.76 m

Height w/o stand: appr. 1.60 m

Weight: 9.5 kg

- Ref.no. 3001

Additional option:

▶ 2 Foot, mounted on rubber

You may have the right foot of the skeleton models mounted on rubber band to allow demonstration of the rolling movement.

- Ref.no. 3018R



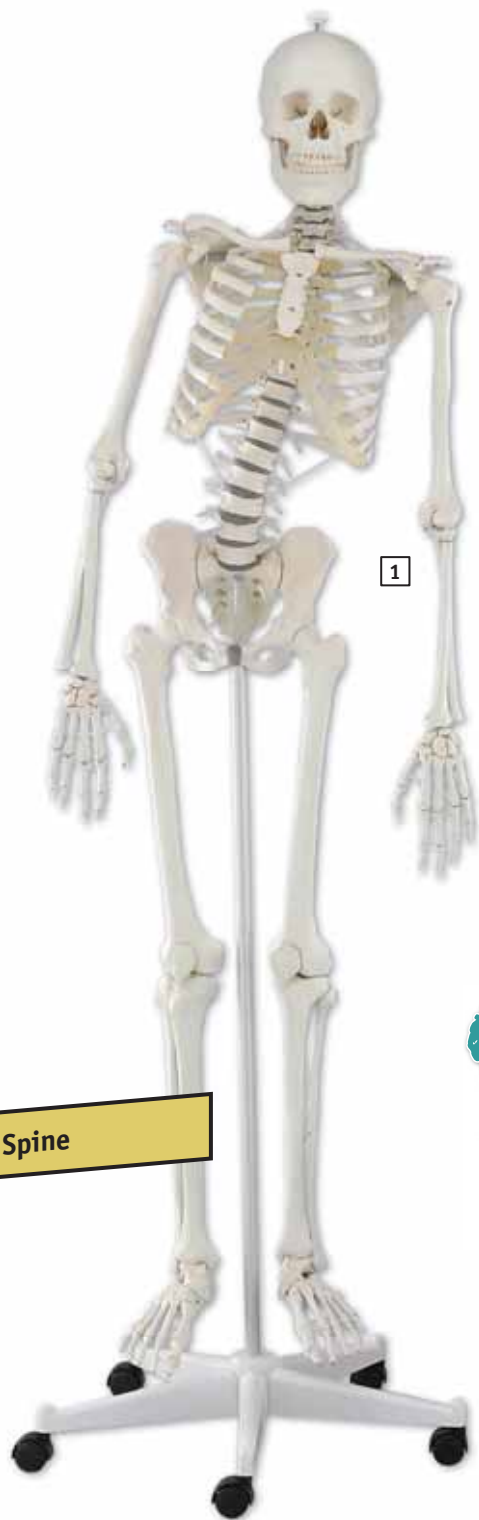
2





Erler-Zimmer-Therapy skeletons

In order to do justice to the increasing requirements of therapeutic training, the EZ-therapy skeletons offer a fully mobile vertebral column. Mounted on a highly robust and simultaneously optimally flexible metal spiral hose, this vertebral column can be simply set in any position. In addition to normal postures, malpositions and malpostures can be demonstrated very impressively. Owing to the special flexible intervertebral discs, the vertebral column can not only be flexed but also rotated itself. These intervertebral discs behave like natural discs when flexing the vertebral column, i.e. they can be compressed or expanded. Consequently, the vertebral column can be flexed in an anatomically correct manner, without a cleft arising between intervertebral disc and vertebra. The spinal cord and spinal nerves derived from it provide an additional important demonstration option.



1 Skeleton "Hugo"

This therapy skeleton with a **movable vertebral column** is ideal for anyone who not only wants to learn anatomy, but also wishes as a therapist to understand or explain the connections between movements, postures and malpositions.

The model has the following characteristics:

- Natural casting of a human skeleton
- Representation of all anatomical details, fissures, foramina and processes
- Skull can be dismantled in three parts
- Removable arms and legs
- Gliding joints in shoulder, hip and ankle
- Leg can be dismantled at the knee
- Removable foot
- Movable shoulder blades
- 5-leg, safety castor-mounted stand
- Fully movable vertebral column with flexible intervertebral discs and emerging spinal nerves

Height with stand: appr. 1.76 m

Height w/o stand: appr. 1.60 m

Weight: 9.5 kg

■ Ref.no. 3014

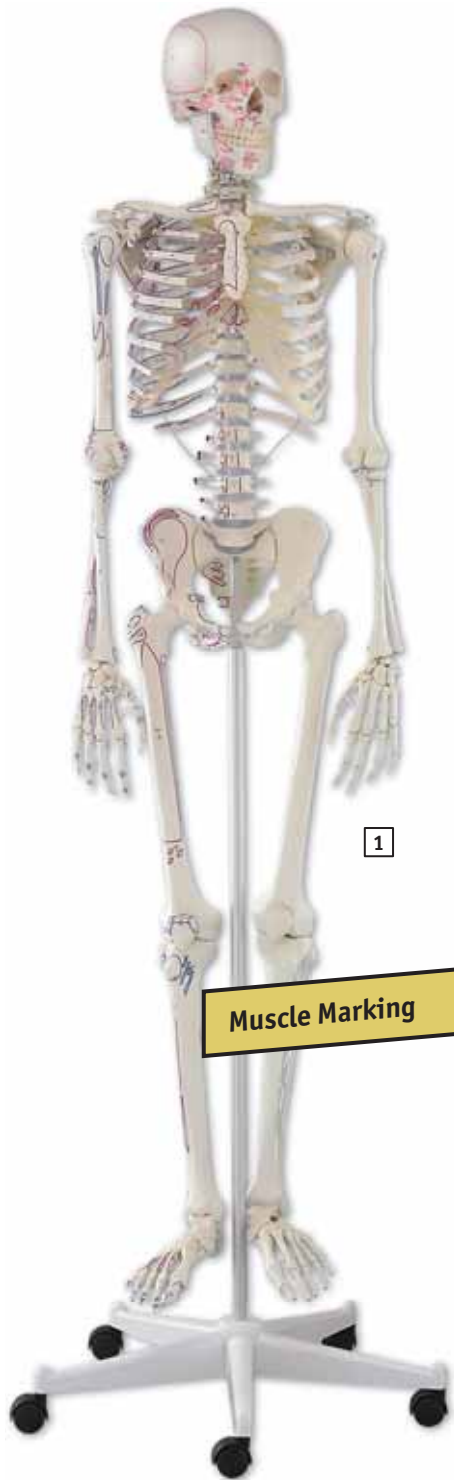
Additional option:

2 Foot, mounted on rubber

You may have the right foot of the skeleton models mounted on rubber band to allow demonstration of the rolling movement.

■ Ref.no. 3018R





1 Skeleton "Arnold"

Anatomical skeleton with muscle marking. All anatomical structures and details are represented in detail.

The model has the following characteristics:

- Natural casting of a human skeleton
- Representation of all anatomical details, fissures, foramina and processes
- Skull can be dismantled in three parts
- Removable arms and legs
- Gliding joints in shoulder, hip and ankle
- Leg can be dismantled at the knee
- Removable foot
- Movable shoulder blades
- 5-leg, safety castor-mounted stand
- Marking of muscle origins and insertion points on one body side

Height with stand: appr. 1.76 m, Height w/o stand: appr. 1.60 m

Weight: 9.5 kg

- Ref.no. 3008

2 Skeleton "Peter"

This therapy skeleton offers marking of the muscle origins and insertion points on one body side in addition to the movable vertebral column.

The model has the following characteristics:

- Natural casting of a human skeleton
- Representation of all anatomical details, fissures, foramina and processes
- Skull can be dismantled in three parts
- Removable arms and legs
- Gliding joints in shoulder, hip and ankle
- Leg can be dismantled at the knee
- Removable foot
- Movable shoulder blades
- 5-leg, safety castor-mounted stand
- Marking of muscle origins and insertion points on one body side
- Fully movable vertebral column with flexible intervertebral discs and emerging spinal nerves

Height with stand: appr. 1.76 m, Height w/o stand: appr. 1.60 m

Weight: 9.5 kg

- Ref.no. 3015

Additional option:

3 Foot, mounted on rubber

You may have the right foot of the skeleton models mounted on rubber band to allow demonstration of the rolling movement.

- Ref.no. 3018R



With detailed manuals!
1 + 2





Articular Ligaments

1 Skeleton "Otto"

Anatomical skeleton with articular ligaments. All anatomical structures and details are represented in detail.

The model has the following characteristics:

- Natural casting of a human skeleton
- Representation of all anatomical details, fissures, foramina and processes
- Skull can be dismantled in three parts
- Removable arms and legs
- Gliding joints in shoulder, hip and ankle
- Leg can be dismantled at the knee
- Removable foot
- Movable shoulder blades
- 5-leg, safety castor-mounted stand
- Articular ligaments of knee, hip, elbow and shoulder on one side

Size: 176 cm, weight: 9.5 kg

- Ref.no. 3004



Articular Ligaments
Movable Spine

2 Skeleton "Toni"

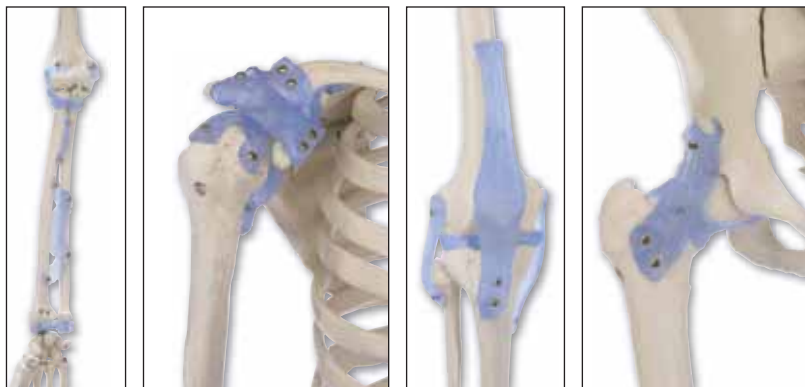
This therapy skeleton offers articular ligaments on one body side in addition to the movable vertebral column.

The model has the following characteristics:

- Natural casting of a human skeleton
- Representation of all anatomical details, fissures, foramina and processes
- Skull can be dismantled in three parts
- Removable arms and legs
- Gliding joints in shoulder, hip and ankle
- Leg can be dismantled at the knee
- Removable foot
- Movable shoulder blades
- 5-leg, safety castor-mounted stand
- Articular ligaments of knee, hip, elbow and shoulder on one side
- Fully movable vertebral column with flexible intervertebral discs and emerging spinal nerves

Size: 176 cm, weight: 9.5 kg

- Ref.no. 3013



Articular Ligaments

Flexible articular ligaments in the knee, hip, elbow and shoulder allow demonstration of movements and explanation of function. The most important ligaments in each case are represented.

ADDITIONAL OPTION for skeleton models:

5 Foot, mounted on rubber

You may have the right foot of the skeleton models mounted on rubber band to allow demonstration of the rolling movement.

- Ref.no. 3018R



3

Articular Ligaments

Muscle Marking

3 Skeleton "Bert"

Anatomical skeleton with articular ligaments as well as muscle marking. All anatomical structures and details are represented in detail.

The model has the following characteristics:

- Natural casting of a human skeleton
- Representation of all anatomical details, fissures, foramina and processes
- Skull can be dismantled in three parts
- Removable arms and legs
- Gliding joints in shoulder, hip and ankle
- Leg can be dismantled at the knee
- Removable foot
- Movable shoulder blades
- 5-leg, safety castor-mounted stand
- Articular ligaments of knee, hip, elbow and shoulder on one side
- Marking of muscle origins and insertion points on one body side

With detailed manual.

Height with stand: appr. 1.76 m

Height w/o stand: appr. 1.60 m

Weight: 9.5 kg

- Ref.no. 3010



4

Articular Ligaments

Muscle Marking

Movable Spine

4 Skeleton "Max"

This therapy skeleton offers marking of the muscle origins and insertion points on one body side in addition to the movable vertebral column and muscle marking.

The model has the following characteristics:

- Natural casting of a human skeleton
- Representation of all anatomical details, fissures, foramina and processes
- Skull can be dismantled in three parts
- Removable arms and legs
- Gliding joints in shoulder, hip and ankle
- Leg can be dismantled at the knee
- Removable foot
- Movable shoulder blades
- 5-leg, safety castor-mounted stand
- Articular ligaments of knee, hip, elbow and shoulder on one side
- Marking of muscle origins and insertion points on one body side
- Fully movable vertebral column with flexible intervertebral discs and emerging spinal nerves

With detailed manual.

Height with stand: appr. 1.76 m

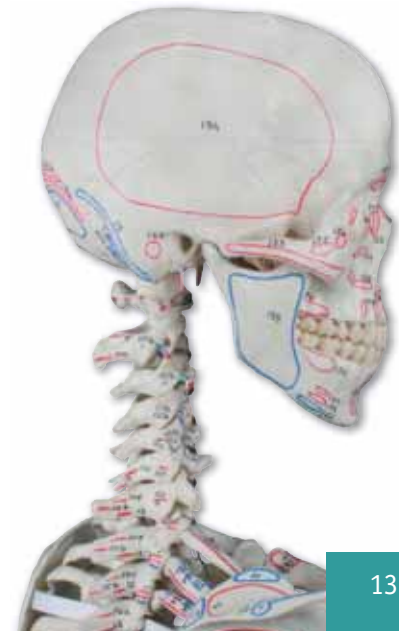
Height w/o stand: appr. 1.60 m

Weight: 9.5 kg

- Ref.no. 3016

Muscle painting

Marked on the right side are the muscle origins (red) and their insertions (blue). This marking was developed in conjunction with lecturers from a physiotherapy school and is geared specifically to the requirements of physiotherapy. Including instructions and bibliography.





1 Miniature – Skeleton “Patrick”

Scaled down reproduction of a human skeleton in ½ life size. Arms and legs are fully movable; shoulder, hip, knee and ankle are mounted as sliding joints to allow natural movements. The three part skull as well as the arms and legs are detachable. The legs can be detached at knee and ankle. Size without stand 84 cm. The model can be easily removed from the stand.

Size: 84 cm, **Weight:** 1.2 kg

■ Ref.no. 3030



2 Miniature – Skeleton “Daniel”, with muscle markings

Scaled down reproduction of a human skeleton in ½ life size. Arms and legs are fully movable, shoulder, hip, knee and ankle are mounted as sliding joints to allow natural movements. The three part skull as well as the arms and legs are detachable. The legs can be detached at knee and ankle. The muscle origins and insertions are marked with color and described in a key card. The model can be easily removed from the stand.

Size without stand 81 cm.

■ Ref.no. 3035

Muscle Marking

Best Price

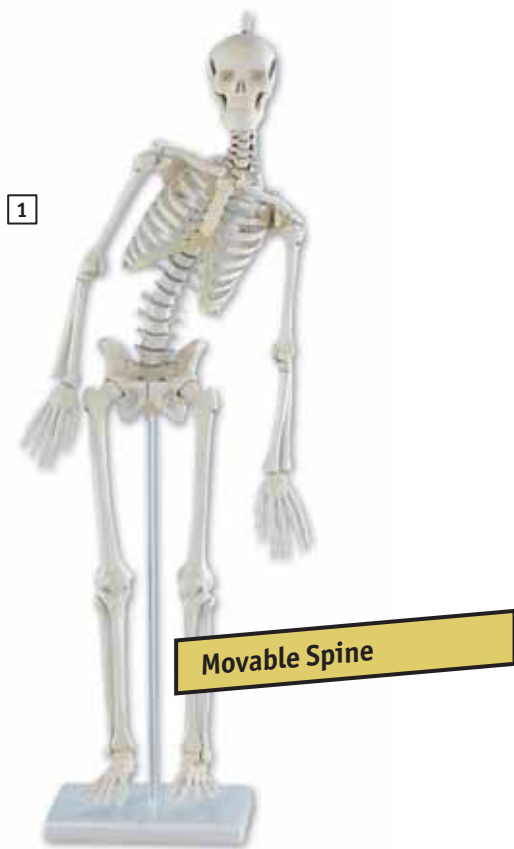
3 Miniature – Skeleton “Tom”

Scaled down reproduction of a human skeleton in about half life size. Skull, arms and legs can be disarticulated. The skull can be disassembled in three parts.

Size without stand about 80 cm.

■ Ref.no. 3032



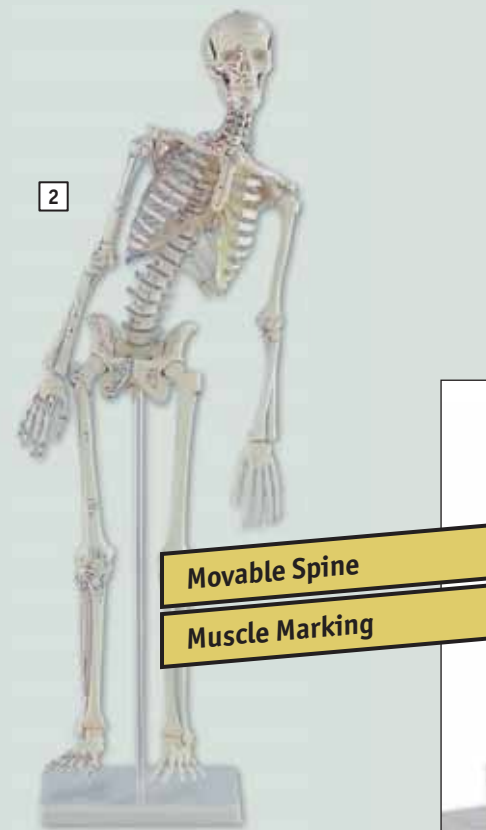


1 **Miniature-Skeleton “Paul”,
with movable spine**

Scaled down reproduction of a human skeleton in ½ life size. Arms and legs are fully movable; shoulder, hip, knee and ankle are mounted as sliding joints to allow natural movements. The three part skull as well as the arms and legs are detachable. The legs can be detached at knee and ankle. The spine is movable and allows natural movements. Size without stand 84 cm. The model can be easily removed from the stand.

Weight: 1.2 kg

■ **Ref.no. 3040**



2 **Miniature-Skeleton “Fred”,
with movable spine and muscle markings**

Scaled down reproduction of a human skeleton in ½ life size. Arms and legs are fully movable, shoulder, hip, knee and ankle are mounted as sliding joints to allow natural movements. The three part skull as well as the arms and legs are detachable. The legs can be detached at knee and ankle. The spine is movable and allows natural movements. Additionally the muscle origins and insertions are marked with color and described in an key card. Size without stand 84 cm. The model can be easily removed from the stand.

Weight: 1.2 kg

■ **Ref.no. 3045**





1 Adolescent Skeleton

Pristine examples of adolescent skeletons are rare finds in teaching collections. After much searching, we have discovered an excellent example of an adolescent skeleton. The developing skeleton is very different from adult skeletons -- the numerous ossification centers and growth plates can dramatically change the appearance of individual bones. Learning how to assess and gauge the degree of skeletal maturation is a very basic but critical skill for students of anatomy. Thus, having such a specimen available for laboratory teaching purposes is invaluable. Furthermore, as even the busiest forensic osteologists and anthropologists only rarely encounter the skeletonized remains of adolescents, this specimen may serve as a useful reference tool during the evaluation of individual cases. Stand included.

Size: 154 cm

■ Ref.no. 2700



3 Child Skeleton, 5 year old

The value of a high-quality cast of juvenile skeleton for teaching purposes is inestimable given that such skeletons are rarely included in research collections. Our 5-year-old skeleton is produced from the skeleton of an average 5-year-old. Age is confirmed by the pattern of tooth eruption and the developmental age of individual bones. The reproduction of this skeleton includes all of the primary and secondary centers of ossification which demonstrate sufficient morphological detail to be isolated, recognized, and identified out of anatomical context. Arms and legs do have limited range of motion, the skull can be removed. Supplied with stand.

Size: 94cm

■ Ref.no. 2800

4 14 to 16-month-old Child Skeleton

The 14 to 16-month-old child skeleton demonstrates the unfused epiphyses of the long bones, and the cartilaginous margins of many of the bones at this age of development. The age of this skeleton has been defined by using a combination of measurements and landmarks. The metopic suture is almost completely closed. The atlas is in three parts, and the axis is in four parts. The rest of the cervical, thoracic, and lumbar vertebrae are in two parts (arch and body). The first 3 sacral vertebrae are in 5 parts each. In the foot, the calcaneus, talus, and cuboid are all identifiable by form. The articulated skeleton comes with a custom display stand as shown.

Size: 65cm

■ Ref.no. 2870

2 Fetal Skeleton, 30th week

An excellent detailed human fetal skeleton (stand and base included). The determination of age of the developing human skeleton is not simply a mathematical exercise whereby analysts plug measurements into equations to come to estimated ages. It is in fact a laborious effort requiring painstaking evaluation of all bony elements in the context of developmental anatomy. The average body length measurements of this skeleton suggest an age of 8.5 to 9 months, but developmental (nonmetric) osteologic features are most suggestive of 7 to 7.5. It is not possible to reliably differentiate male and female fetal, infant and young child skeletal remains.

Size: approx. 40cm

■ Ref.no. 2850





1 Skeleton, unassembled (bone collection)

All bones in the skeleton are represented individually. Excellent casting of the skeleton of an adult male. True to life reproduction of the bone structure with all foramina, fissures and processes. The skull can be dismantled in three parts into roof of skull, base of skull and mandible. Not suitable for self-assembly. Supplied in storage carton.

Weight: 7.3 kg

■ Ref.no. 3020

2 Half skeleton, unassembled (bone collection)

All bones on the right side or those occurring once in the skeleton are represented individually. Excellent casting of the skeleton of an adult male. True to life reproduction of the bone structure with all foramina, fissures and processes. The skull can be dismantled in three parts into roof of skull, base of skull and mandible. Not suitable for self-assembly. Supplied in storage carton.

Weight: 5.6 kg

■ Ref.no. 3024

Individual bone components

Do you require only certain bone components?

Using the following order numbers, you can compose your own individual bone collection.

- 3050 foot bones, unmounted
- 3051 tibia
- 3052 fibula
- 3053 patella (kneecap)
- 3054 femur
- 3055 half pelvis
- 3060 sacrum with coccyx
- 3062 vertebra, individual (state C1 to L5)
- 3070 ribs (12 items, one side)
- 3071 sternum
- 3080 hand bones, unmounted
- 3081 ulna
- 3082 radius
- 3083 humerus (upper arm)
- 3084 scapula (shoulder blade)
- 3085 clavicle (collar bone)



1 Female pelvis with sacrum

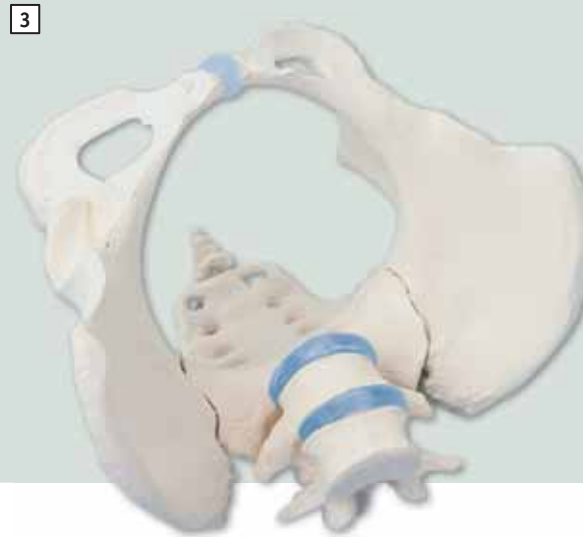
Natural casting of an adult female pelvis. The sacrum is removable and the movements in the iliosacral joint can be demonstrated.

■ Ref.no. 4054

2 Male pelvis with sacrum

Natural casting of an adult male pelvis. The sacrum is removable and the movements in the iliosacral joint can be demonstrated.

■ Ref.no. 4052 (not pictured)



3 Female pelvis with sacrum and 2 lumbar vertebrae

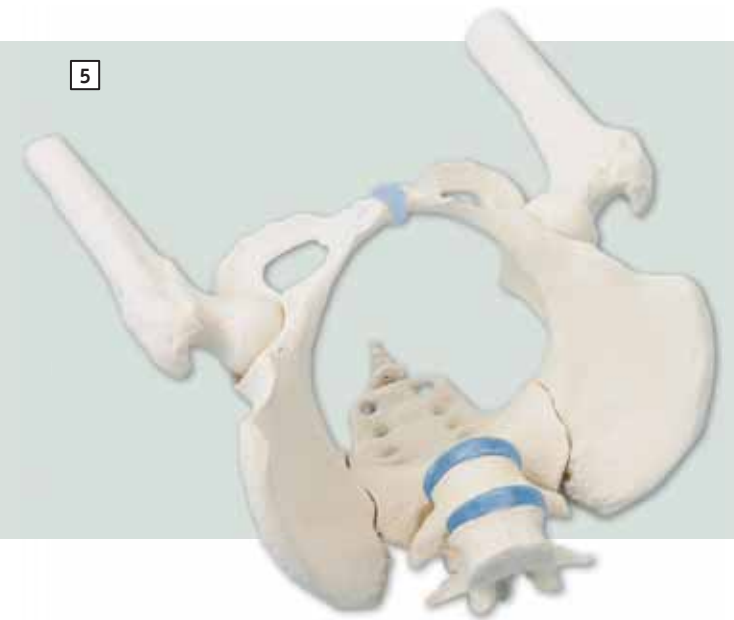
Natural casting of an adult female pelvis. Wings of ilium, sacrum and flexibly mounted L5 and L4. The sacrum is removable and the movements in the iliosacral joint can be demonstrated. The vertebrae are mobile mounted.

■ Ref.no. 4058

4 Male pelvis with sacrum and 2 lumbar vertebrae

Natural casting of an adult male pelvis. Wings of ilium, sacrum and flexibly mounted L5 and L4. The sacrum is removable and the movements in the iliosacral joint can be demonstrated. The vertebrae are mobile mounted.

■ Ref.no. 4056 (not pictured)



5 Female pelvis with sacrum, 2 lumbar vertebrae and femoral stumps

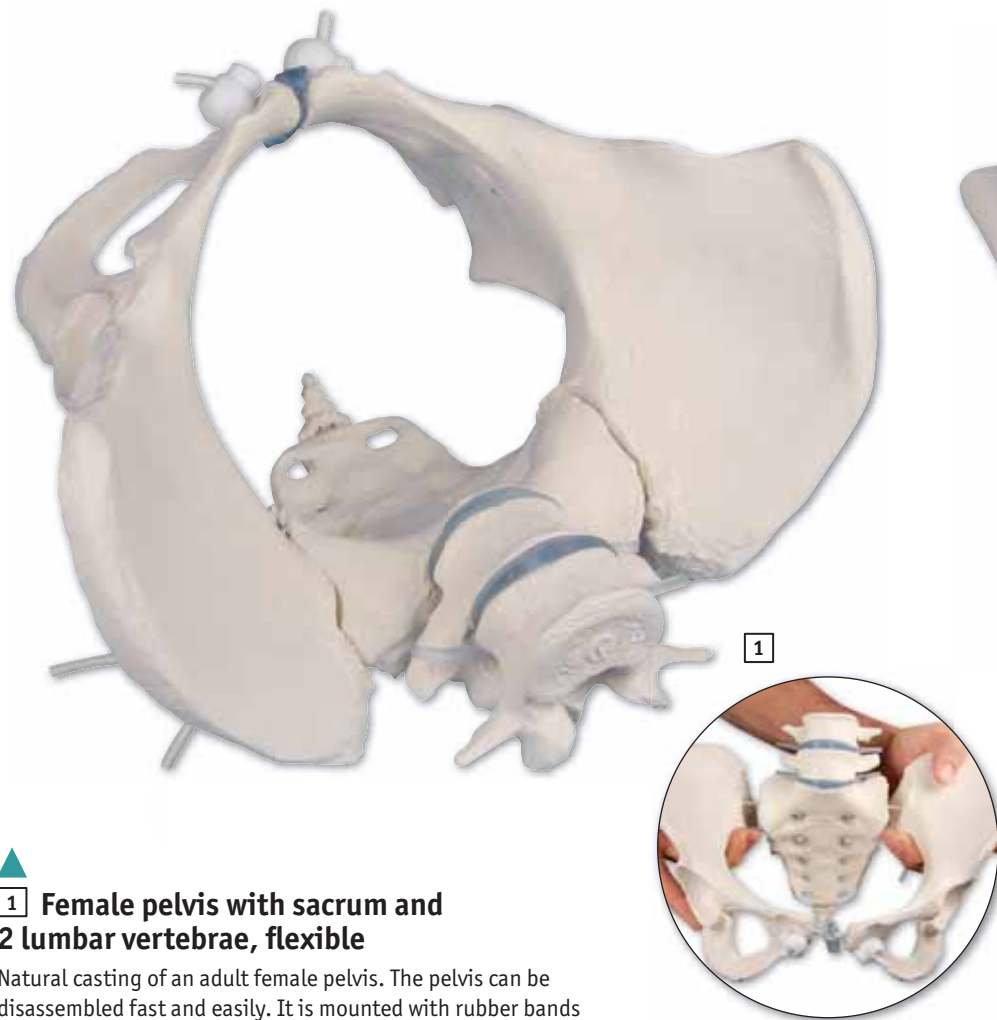
Natural casting of an adult female pelvis. The sacrum is removable and the movements in the iliosacral joint can be demonstrated. The vertebrae are mobile mounted and the femoral stumps are movable and removable.

■ Ref.no. 4059

6 Male pelvis with sacrum, 2 lumbar vertebrae and femoral stumps

Natural casting of an adult male pelvis. The sacrum is removable and the movements in the iliosacral joint can be demonstrated. The vertebrae are mobile mounted and the femoral stumps are movable and removable.

■ Ref.no. 4057 (not pictured)



1 Female pelvis with sacrum and 2 lumbar vertebrae, flexible

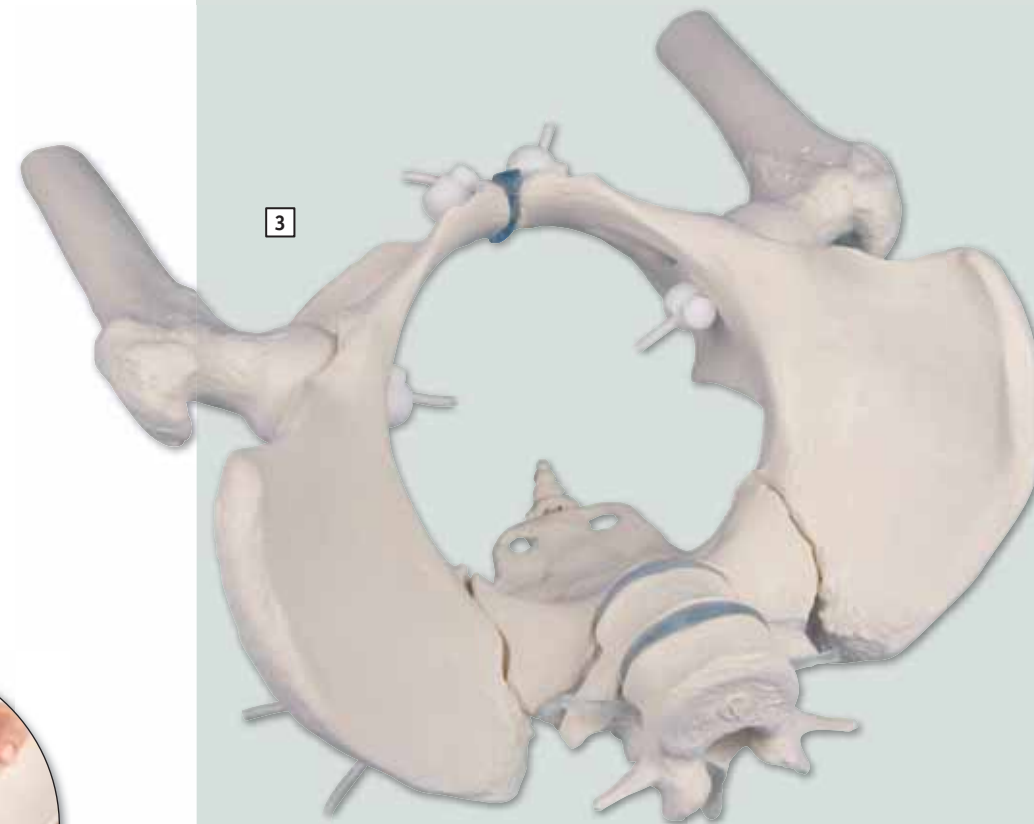
Natural casting of an adult female pelvis. The pelvis can be disassembled fast and easily. It is mounted with rubber bands completely to allow an exceptional range of movement. With flexibly mounted L5 and L4.

■ Ref.no. 4058G

2 Female pelvis with sacrum, flexible

Natural casting of an adult female pelvis. The pelvis can be disassembled fast and easily. It is mounted with rubber bands completely to allow an exceptional range of movement.

■ Ref.no. 4054G (not pictured)



3 Female pelvis with sacrum, 2 lumbar vertebrae and femoral stumps, flexible

Natural casting of an adult female pelvis. The pelvis can be disassembled fast and easily. It is mounted with rubber bands completely to allow an exceptional range of movement. With flexibly mounted L5 and L4. The femoral stumps are movable and removable.

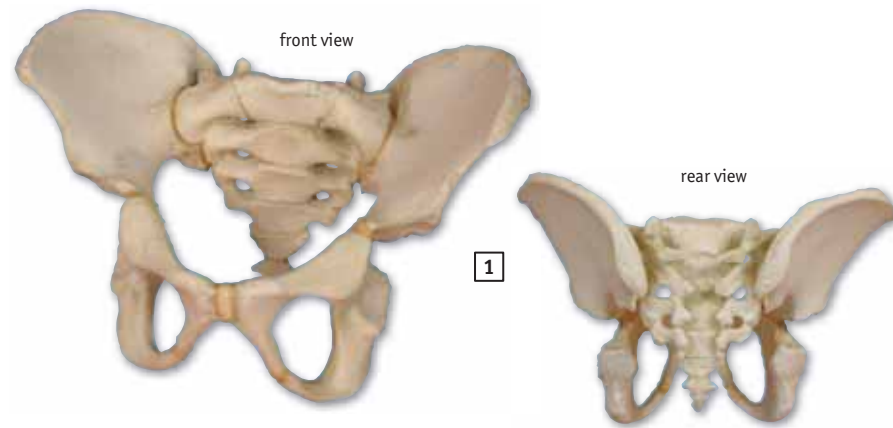
■ Ref.no. 4059G

1 Pelvis of a 5 year old child

This pelvis is from the skeleton of an average 5-year-old. Age is confirmed by the pattern of tooth eruption and the developmental age of individual bones. Sex determination from skeletal material is based on the skeletal changes that take place in the pelvis and skull at the time of puberty, so have not yet begun to appear in the 5-year-old skeleton. The pubis, ischium and ilium are completely separate, but the ischiopubic ramus is nearing the time of fusion (it fuses between ages 5-8.)

Size approx. 10 x 15 cm

Ref.no. 4051

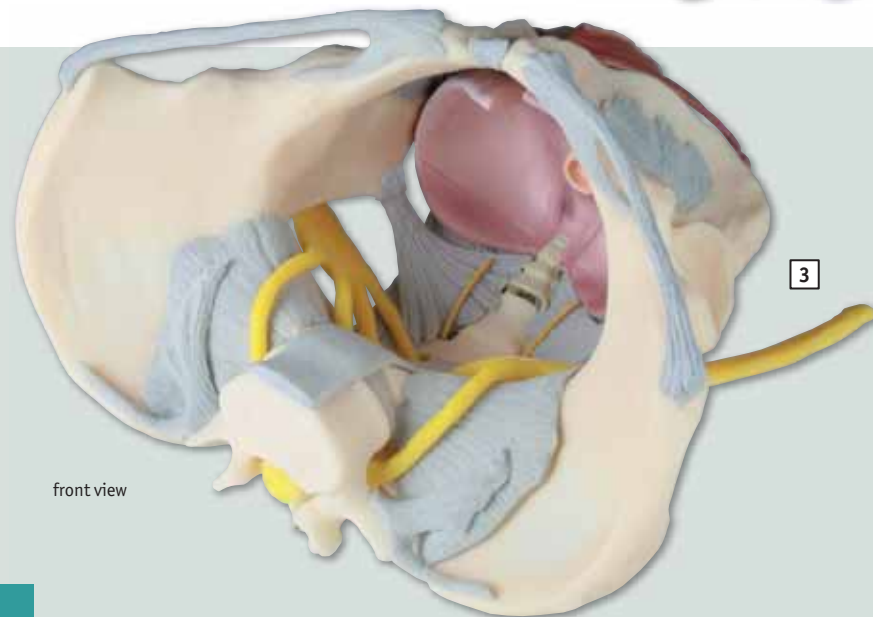
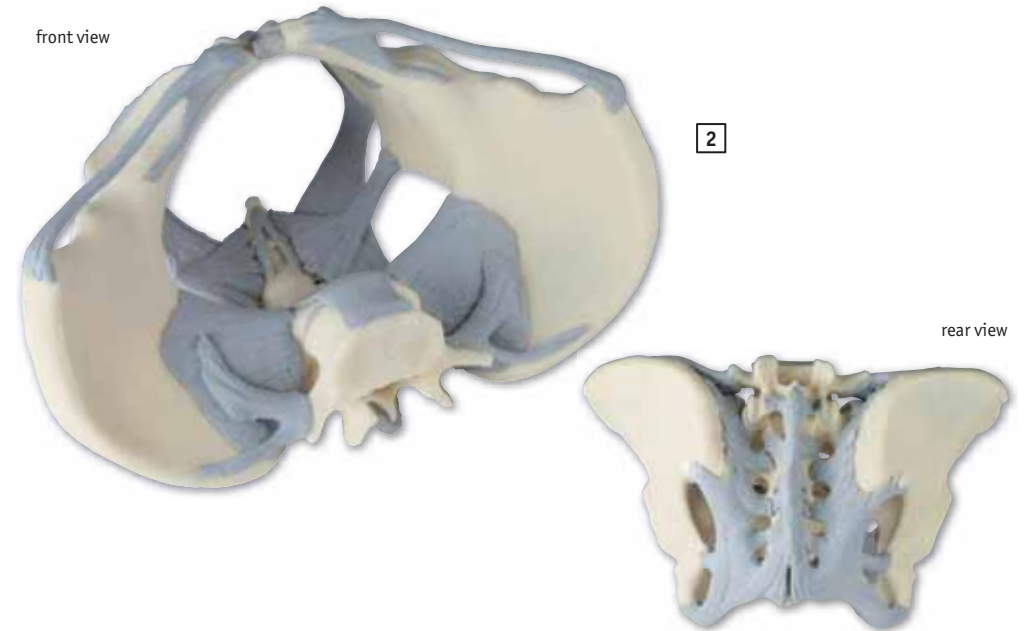


2 Ligamented female pelvis

Female Pelvis model with ligaments. This model is not dissectible and shows the position and function of the ligaments in the female pelvis. Life size.

Ref.no. 4070L

front view



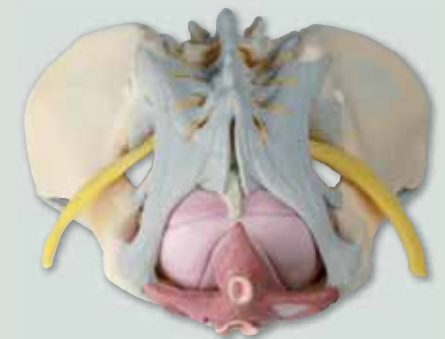
3 Female pelvis with Ligaments, Nerves and Pelvic Floor

Female pelvis like 4070, but showing ligaments, nerves and removable 2-part pelvic floor muscles.

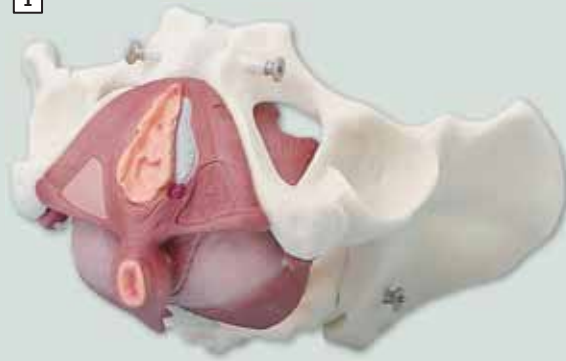
Size: 27 x 18 x 19 cm

Ref.no. 4070B

rear view



1



1 Female pelvis with pelvic floor musculature

This pelvis is eminently suited to explanation of the female pelvic floor. The model consists of 2 hip bones, sacrum with coccyx and the pelvic floor. The pelvic floor consists of 4 components and is made of flexible synthetic material on which the structures are painted. The model is life-size.

Size: 27 x 18 x 19 cm

■ Ref.no. 4070

2 Male Pelvis with pelvic floor muscles

The muscle layers in this model are in two parts.

■ Ref.no. 4070M

2



3 Female pelvic floor model, 12 parts

This new model of a female pelvis with pelvic floor musculature represents the pelvic floor in its layers.

The following muscles are represented and can be removed:

Obturatorius internus muscle (left and right)

Piriformis muscle (left and right)

Coccygeus muscle (left and right)

Pelvic diaphragm (levator ani muscle consisting of puborectalis muscle, pubococcygeus muscle and iliococcygeus muscle)

Urogenital diaphragm (consisting of the deep transverse muscle of perineum, the superficial transverse muscle of the perineum and the ischiocavernosus muscle)

Sphincters of the urogenital and digestive tract (consisting of external anal sphincter, urethral sphincter and bulbospongiosus muscle)

Together with the two hip bones and the sacrum the model consists of 12 parts in total. The muscles are fixed with pins, allowing to remove them for demonstration of the layers.

This model is perfect for courses in pelvic floor gymnastics, for childbirth preparation courses, for midwife education or simply for anatomical studies of the pelvic floor.

Size: 27 x 18 x 17 cm

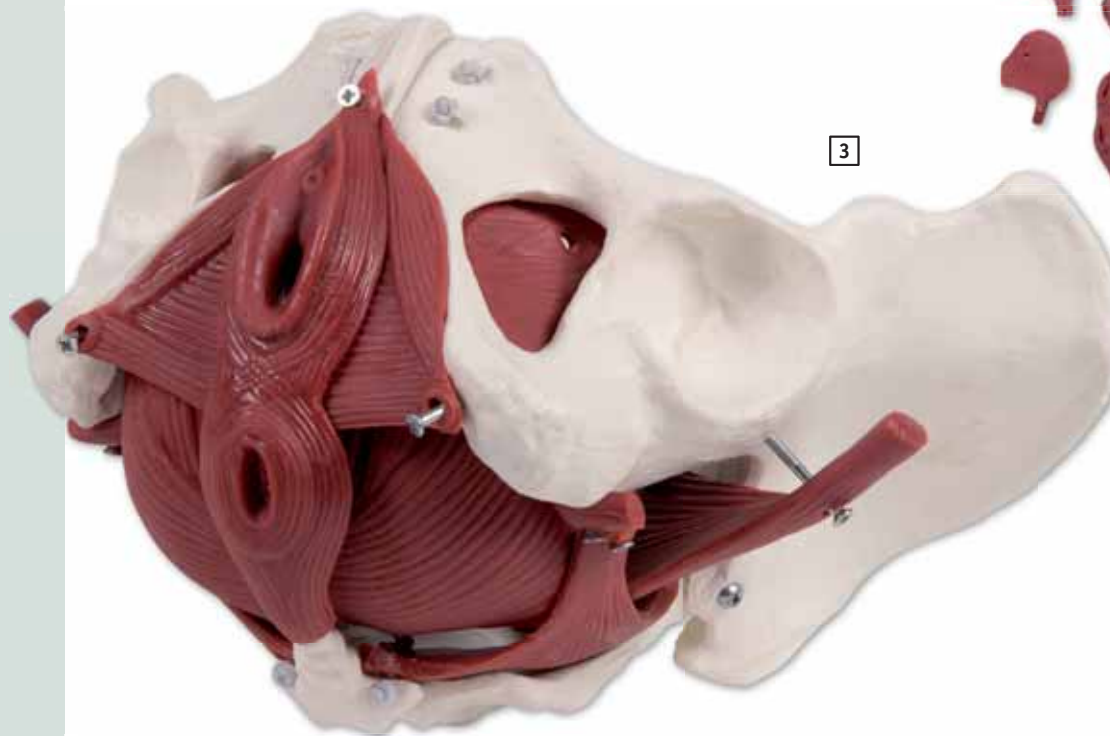
Weight: 960 g

■ Ref.no. 4075



disassembled

3





Erler-Zimmer vertebral columns have flexible intervertebral discs which compress on one side and expand on the other during flexion. True to life, as in humans.

The elastic intervertebral discs prevent an unnatural cleft from occurring between vertebra and intervertebral disc when the vertebral column is flexed. All bone components are cast from a natural vertebral column and show all the structures, fissures, foramina and processes with anatomical accuracy. In addition to this exact reproduction of the individual vertebrae, particular importance has been attached to mobility. Via the use of an unbreakable, mobile metal hose, the vertebral column has lasting flexibility and is still as movable as on the first day, even after years of intensive use. This model is capable of showing its superiority particularly in the demonstration of lordoses, kyphoses and scolioses in addition to in manual medicine. Flexible intervertebral discs, emerging spinal nerves and the natural mobility provide a very good display of the interplay of the intervertebral disc, vertebra and nerves. The iliosacral joint is movable and the pelvis can be removed. Owing to the elegant table stand, it is possible to leave the vertebral column in all natural positions for demonstration purposes. The stand is easy to fit and remove via a simple push-fit connector. The stand is easily portable and only 6 cm high.

Extremely movable!



Our most frequently sold model for training, further instruction, patient information and demonstration. Particularly suitable for manual therapy. **Recommended by lecturers and course leaders.**



◀ 1 Professional Spine for intensive use

Highest quality natural casting of a human vertebral column with removable pelvis. The model is mounted on a flexible metal spiral hose, which renders the vertebral column robust and simultaneously highly mobile. The perfect model for anyone who wants to work intensive with the spine for years. The special flexible intervertebral discs behave like natural intervertebral discs. The spinal nerves and vertebral artery are also represented.

Height: 70 cm

Weight: 1,8 kg

■ With removable stand Ref.no. 4009

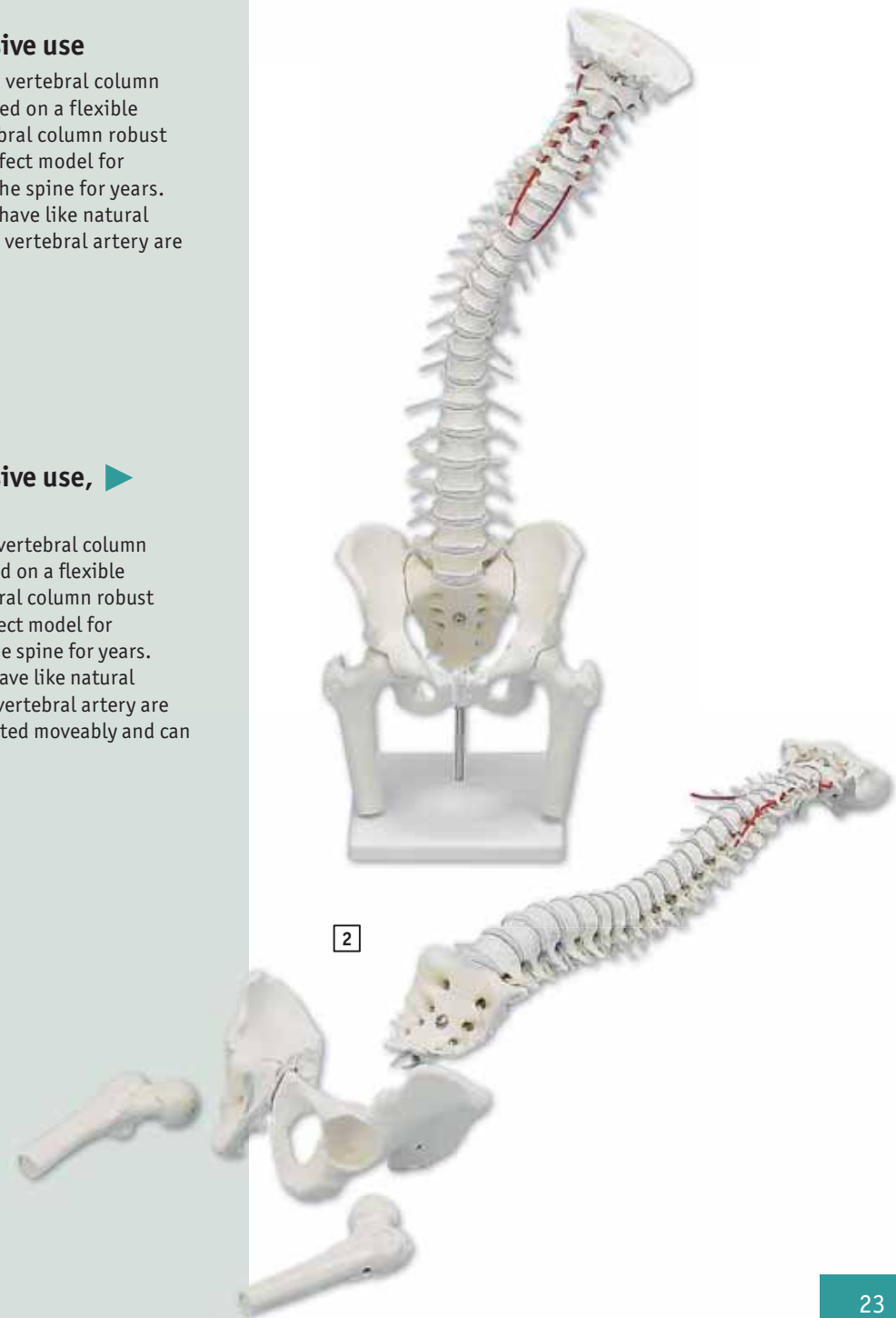
■ Without stand Ref.no. 4006

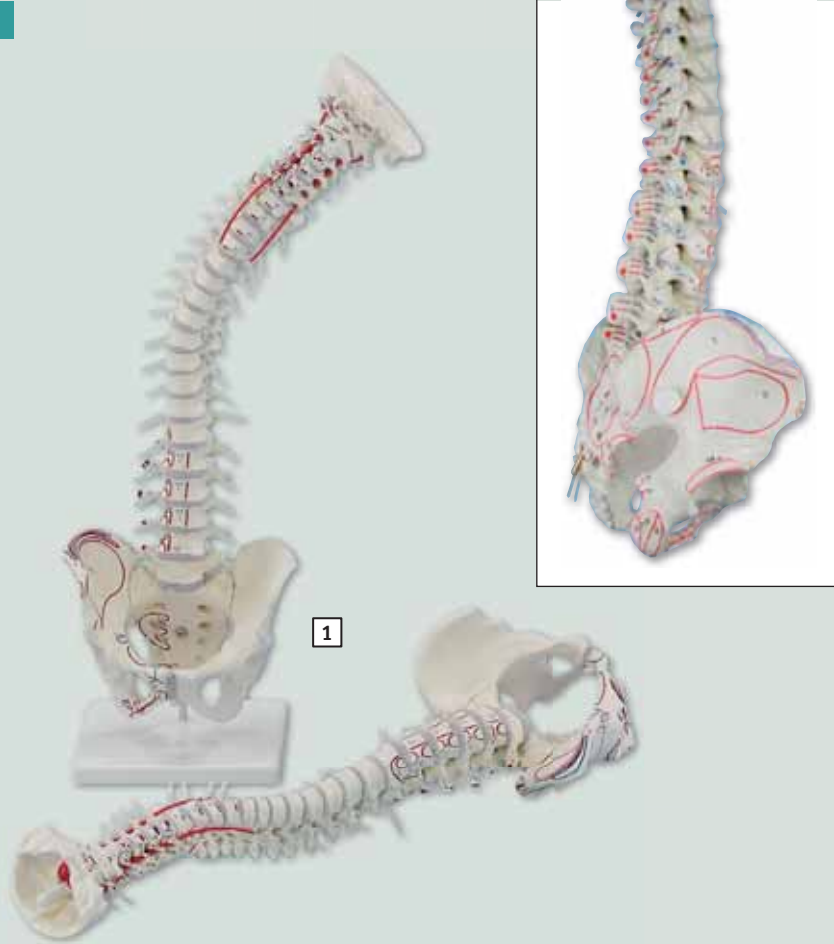
2 Professional Spine for intensive use, ▶ Version with femoral stumps

Highest quality natural casting of a human vertebral column with removable pelvis. The model is mounted on a flexible metal spiral hose, which renders the vertebral column robust and simultaneously highly mobile. The perfect model for anyone who wants to work intensive with the spine for years. The special flexible intervertebral discs behave like natural intervertebral discs. The spinal nerves and vertebral artery are also represented. Femoral stumps are mounted moveably and can be removed easily.

■ With removable stand Ref.no. 4014

■ Without stand Ref.no. 4014-1





1 Professional Spine for intensive use, with muscle marking

Highest quality natural casting of a human vertebral column with removable pelvis. The muscle insertions and origins are marked in colour and numbered. The model is mounted on a flexible metal spiral hose, which renders the vertebral column robust and simultaneously highly mobile. The perfect model for anyone who wants to work intensive with the spine for years. The special flexible intervertebral discs behave like natural intervertebral discs. The spinal nerves and vertebral artery are also represented. With nomenclature.

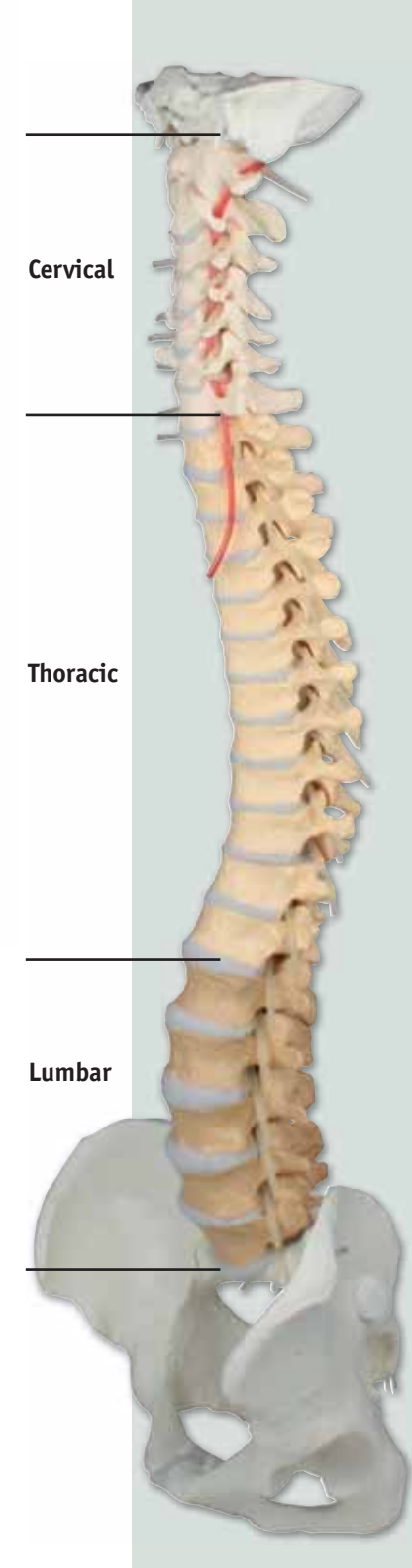
- With removable stand Ref.no. 4011
- Without stand Ref.no. 4011-1



2 Professional Spine for intensive use, didactical coloured

Highest quality natural casting of a human vertebral column with removable pelvis. The cervical, thoracic and lumbar spine is finished in different colours for better differentiation. The model is mounted on a flexible metal spiral hose, which renders the vertebral column robust and simultaneously highly mobile. The perfect model for anyone who wants to work intensive with the spine for years. The special flexible intervertebral discs behave like natural intervertebral discs. The spinal nerves and vertebral artery are also represented. Femoral stumps are mounted moveably and can be removed easily.

- With removable stand Ref.no. 4010
- Without stand Ref.no. 4010-1





Professional Spine for intensive use, with classic intervertebral discs

Highest quality natural casting of a human vertebral column with removable pelvis. The model is mounted on a flexible metal spiral hose, which renders the vertebral column robust and simultaneously highly mobile. The perfect model for anyone who wants to work intensive with the spine for years. The robust classic intervertebral discs show a lateral prolapse between L2 and L3. The spinal nerves and vertebral artery are also represented.

Size without stand: 70 cm, weight without stand: 1.9 kg

1 With removable stand

■ Ref.no. 4032

2 Without stand

■ Ref.no. 4024

Professional Spine for intensive use, with classic intervertebral discs Version with femur stumps

Highest quality natural casting of a human vertebral column with removable pelvis. The model is mounted on a flexible metal spiral hose, which renders the vertebral column robust and simultaneously highly mobile. The perfect model for anyone who wants to work intensive with the spine for years. The robust classic intervertebral discs show a lateral prolapse between L2 and L3. The spinal nerves and vertebral artery are also represented. With removable and articulating femur stumps.

Size without stand: 80 cm, weight without stand: 2.1 kg

3 With removable stand

Ref.no. 4033

4 Without stand

■ Ref.no. 4033-1





1 Classic Spine

A life size vertebral column consisting of the occipital plate; cervical, thoracic and lumbar vertebrae; sacrum; coccyx; and complete pelvis. Features include representations of the vertebral arteries, spinal nerve branches, and a prolapsed L3-L4 intervertebral disc. Perfect for patient education. Flexibly mounted. Mounted on a stand for hanging.

Size: 75cm, weight: approx. 2.5 kg

■ Ref.no. A250

Bestseller!



2 Classic Spine with femur stumps

A life size vertebral column consisting of the occipital plate; cervical, thoracic and lumbar vertebrae; sacrum; coccyx; and complete pelvis as well as movable femur stumps. Features include representations of the vertebral arteries, spinal nerve branches, and a prolapsed L3-L4 intervertebral disc. Perfect for patient education. Flexibly mounted. Mounted on a stand for hanging.

Size: 85 cm, Weight: approx. 2.9 kg

■ Ref.no. A251

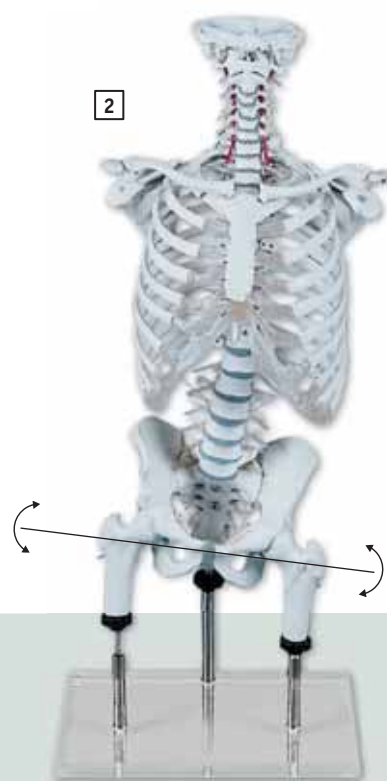


1 Vertebral column for demonstration of malpositions

with pelvis and femoral stumps. Femoral movements at the hip joint can be imitated in this model. The femurs can be raised and lowered respectively and unilateral shortening of the leg and the resulting **pelvic inclination** can be simulated. How this is compensated in the pelvis and vertebral column can be shown in the model. Specially suited to physiotherapy and massage training and also for orthopaedics as a demonstration model. Easily removed from stand.

Size: 78 cm, Weight: 4.8 kg

■ Ref.no. 4017



2 Vertebral column for demonstration of malpositions (according to Zilgrei) with pelvis, femoral stumps and thoracic cage

Specially developed for Zilgrei training, but also suitable for physiotherapy, massage and music teaching institutions (singers, wind players) and for orthopaedics. Femoral movements at the hip joint can be imitated in this model. The femurs can be raised and lowered respectively and unilateral shortening of the leg and the resulting **pelvic inclination** can be simulated. How this is compensated in the pelvis and vertebral column can be shown in the model. Mounting of the rib cage (thorax) with the shoulder girdle allows explanation of the combination of movements of the vertebral column and **thoracic cage** during breathing and respiratory gymnastics. Easily removed from stand.

Size: 78 cm, Weight: 5.4 kg

■ Ref.no. 4018



3 Vertebral column with thoracic cage

with rear segment of base of the skull, vertebral artery, spinal cord, emerging spinal nerves and mobile thoracic cage. Mounting of the rib cage (thorax) with the shoulder girdle allows explanation of the combination of movements of the vertebral column and thoracic cage during breathing and respiratory gymnastics. Owing to the special thoracic cage – rib cartilage connection, asymmetrical movements also can be executed. This functional model is suitable for physiotherapy, massage and music teaching institutions (singers, wind players) and for “first aid” courses. Easily removed from stand.

Size: 78 cm, Weight: 5.3 kg

■ Ref.no. 4020



Perfect size for the desktop!

1 Miniature Spinal Column

Scaled down model of the human spinal column, approx. 1/2 life size. All bones are individually represented. This fully movable model shows the vertebrae, the segment at the base of the skull, pelvis, intervertebral discs, the vertebral artery, and the exiting spinal nerves. The ideal model for on the go, at courses, seminars, or even house calls. Handy and robust, fits in any bag. The model detaches easily from the attractive stand.

Size: 38 cm, Weight: 0.2 kg

■ Ref.no. 4001



2 Miniature Spinal Column on hanging stand

This reduced size model of a human spine in about half life size shows all bones, the intervertebral discs and the spinal nerves. Also the vertebral artery is represented. On hanging stand.

Size: appr. 38 cm, Weight: 0.3 kg

■ Ref.no. 4002

1 Cervical vertebral column

C1 to C7, in addition to a segment of the base of the skull are flexibly mounted. With spinal cord and emerging spinal nerves. All movements in the cervical spine area and head joints can be demonstrated.

■ With removable stand Ref.no. 4073

2 Thoracic vertebral column

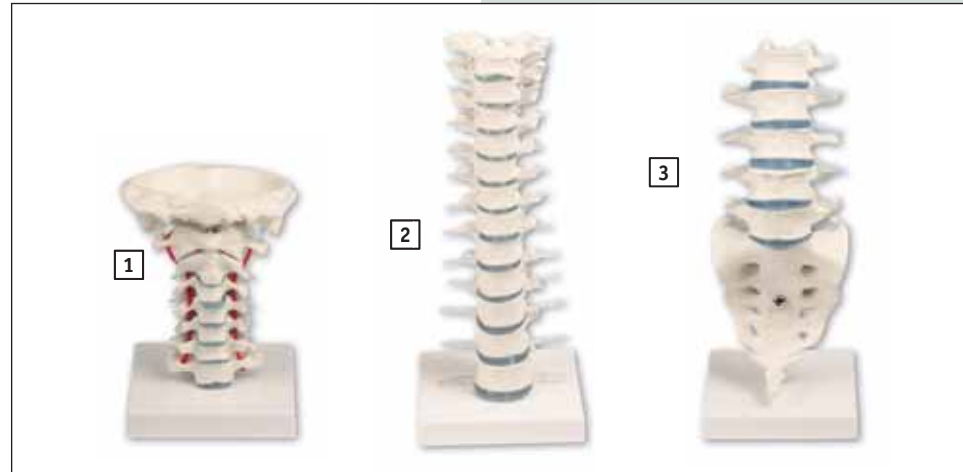
Th1 to Th12 are flexibly mounted. With spinal cord and emerging spinal nerves. All movements in the thoracic spine area can be demonstrated.

■ With removable stand Ref.no. 4060

3 Lumbar vertebral column

L1 to L5 and sacrum are flexibly mounted. With spinal cord and emerging spinal nerves. All movements in the lumbar spine area can be demonstrated. With dorsolateral prolapse.

■ With removable stand Ref.no. 4036



4 Lumbar vertebral column with pelvis

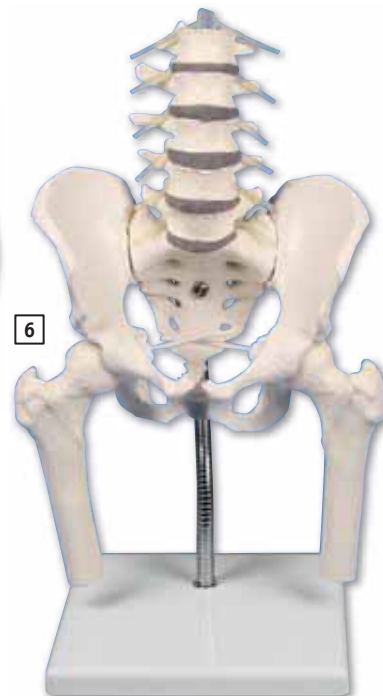
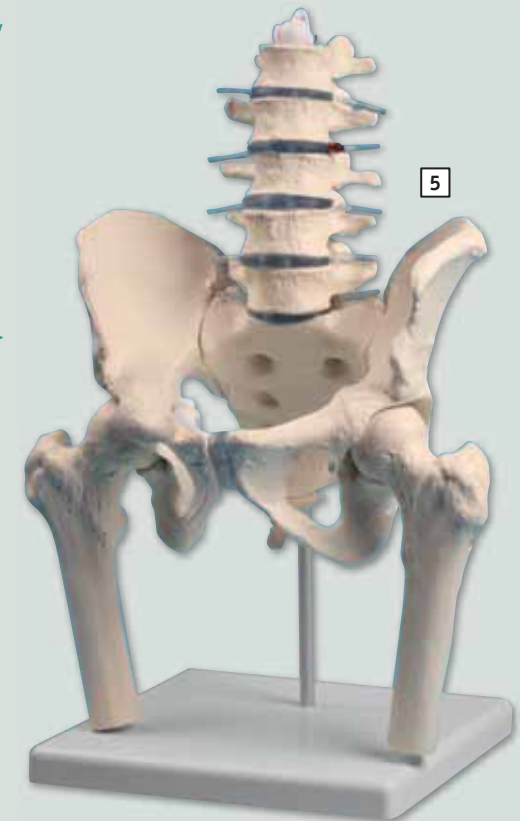
L1 to L5 and sacrum are flexibly mounted. With spinal cord and emerging spinal nerves. All movements in the lumbar spine area can be demonstrated. With dorsolateral prolapse. With removable pelvis and stand.

■ Ref.no. 4040

5 Lumbar vertebral column with pelvis and femur stumps

L1 to L5 and sacrum are flexibly mounted. With spinal cord and emerging spinal nerves. All movements in the lumbar spine area can be demonstrated. With dorsolateral prolapse. With removable pelvis, femur stumps and stand.

■ Ref.no. 4045



6 Lumbar spine with pelvis and femoral stumps, for demonstration of malpositions

5 lumbar vertebrae with sacrum, additionally with removable pelvis and removable femoral stumps. With flexible stand, allowing demonstration of malpositions e.g. because of one-sided shortening of the leg.

■ Ref.no. 4045G

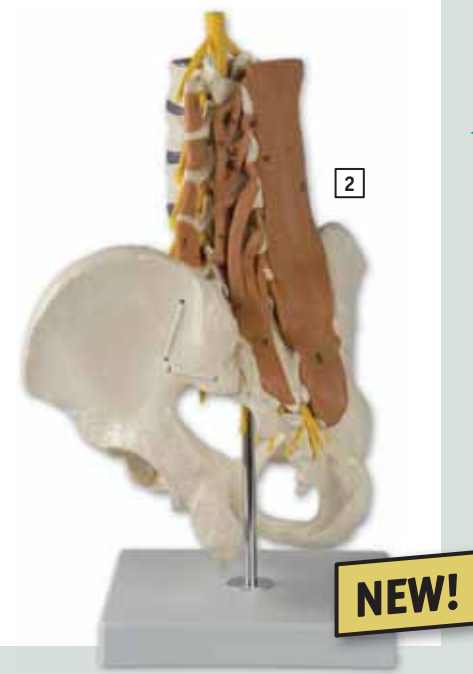


1 Cervical spine with neck musculature

Actual cast of a real human cervical spine, flexible mounted, with occipital bone, vertebral nerves, spinal cord, brain stem and nerve cord. Additionally the muscles of the cervical spine are represented. This cervical spine shows deeper muscle layers. On base.

Size: 25 x 10 x 18 cm, Weight: 0,7 kg

■ Ref.no. 4034



2 Pelvis, lumbar spine and lumbar muscles

Actual cast of a real human pelvis with lumbar spine. The Spine / Pelvis model is flexible mounted, showing superficial, deeper and deep musculature of the lumbar spine. Additionally with spinal cord and spinal nerves. The hip bones are flexible connected to the sacrum to allow for natural movements. On stand, removable.

Size: 39 x 26 x 21 cm, Weight: 1.5kg

■ Ref.No. 4050



Vertebra collection, 8 vertebrae

2 lumbar vertebrae, 2 thoracic vertebrae, 2 cervical vertebrae in addition to atlas and axis are threaded loosely on rubber and offer the possibility of studying each individual vertebra in detail. All structures, joint surfaces, processes, etc. are recognisable.

3 Without stand

■ Ref.no. 4098

4 On stand, mounted with intervertebral discs

■ Ref.no. 4097



5 Vertebral column loose on rubber

7 cervical vertebrae, 12 thoracic vertebrae and 5 lumbar vertebrae threaded loosely on rubber. Eminently suited to individual study of the isolated vertebrae with all structures, processes and joint surfaces.

■ Ref.no. 4094



1 Head articulations, schematic representation

Representation of the head joints as a schematic model. Ideal for demonstrating the mechanisms of movement in the atlantooccipital articulation and atlantoaxial articulation.

Size: 8.5 x 8.5 x 5 cm

■ Ref.no. 4079

2 Bone structure model, 500times life size

Depicting a fragment of compact bone about the size of a pinhead magnified approximately 500 times, this model shows one complete haversian system and a portion of two others in cross-section. Lamellae are cut away at various depths in step-wise fashion. On base.

Size: 15 x 15 x 18 cm

■ Ref.no. A92



3 Head articulations, 2x enlarged

This model, which is unique world-wide, consists of cervical vertebra C3, axis C2, atlas C1 and a segment of the occipital bone. All components are represented in 2 x enlargement for improved demonstration. With this model, the movements in the upper cervical area can be understood in a true to life and anatomically correct manner. All possible movements in the atlanto-occipital and atlantoaxial articulation can be demonstrated admirably.

■ With removable stand Ref.no. 4083

■ Without stand Ref.no. 4083-1

4 Head articulations, natural size

This model offers all the possibilities of 4083, but is represented in natural size.

■ With removable stand Ref.no. 4080

■ Without stand Ref.no. 4080-1

5 2 lumbar vertebrae,

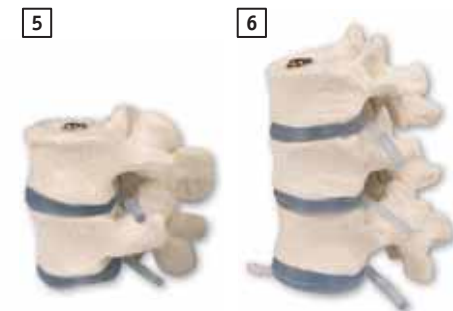
elastically mounted. Two elastically mounted lumbar vertebrae with intervertebral discs. Ideal when travelling; fits in trouser pocket.

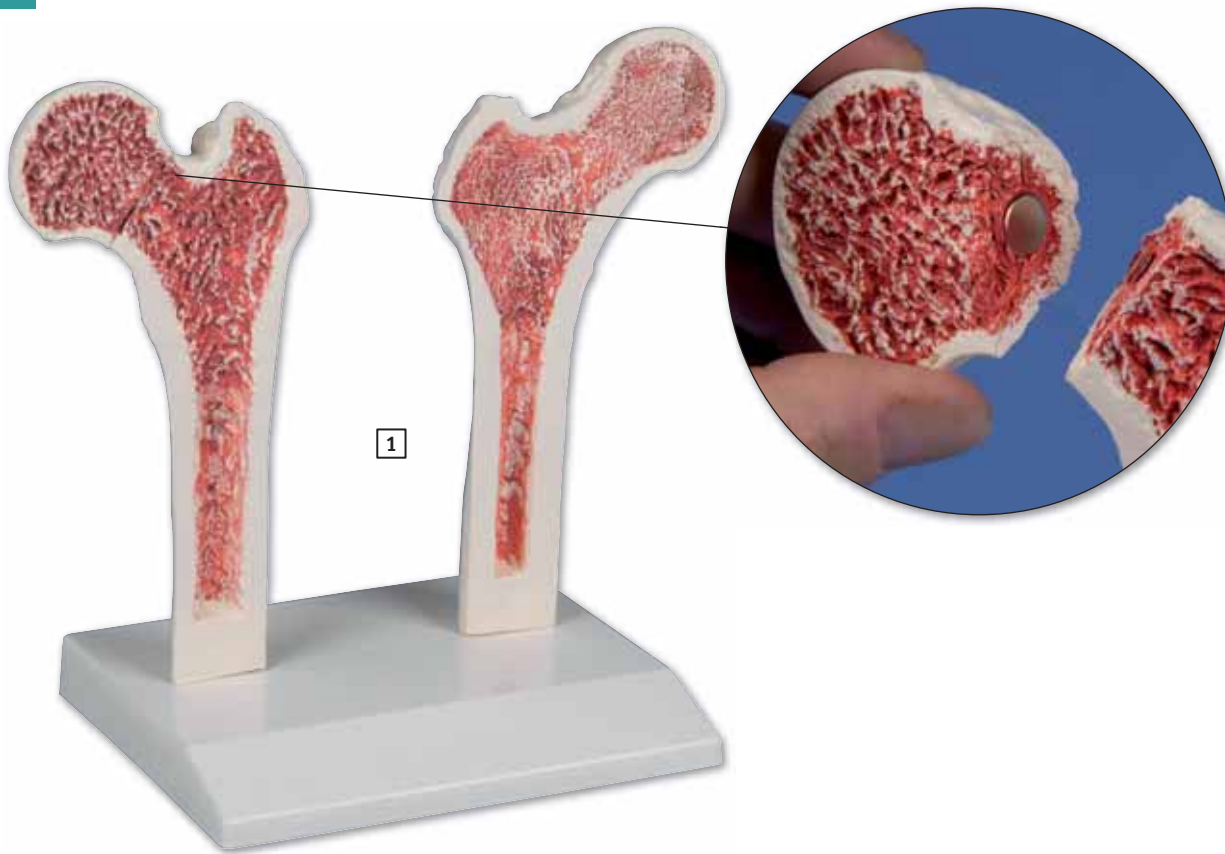
■ Ref.no. 4090

6 3 thoracic vertebrae,

elastically mounted. Three elastically mounted thoracic vertebrae with intervertebral disc. Ideal when travelling; fits in trouser pocket.

■ Ref.no. 4092



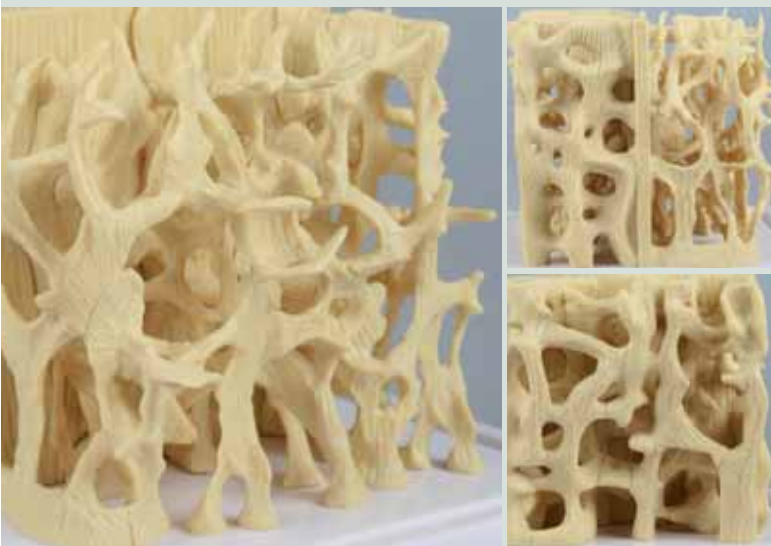


1 Osteoporosis Femur

This model provides an impressive demonstration of the difference between a normal and osteoporotic femur. The osteoporotic bone shows a markedly damaged structure and bone fracture. The upper half of the femur is shown in each case. On baseboard, can be removed and disassembled.

Original size natural casting.

■ Ref.no. 4030

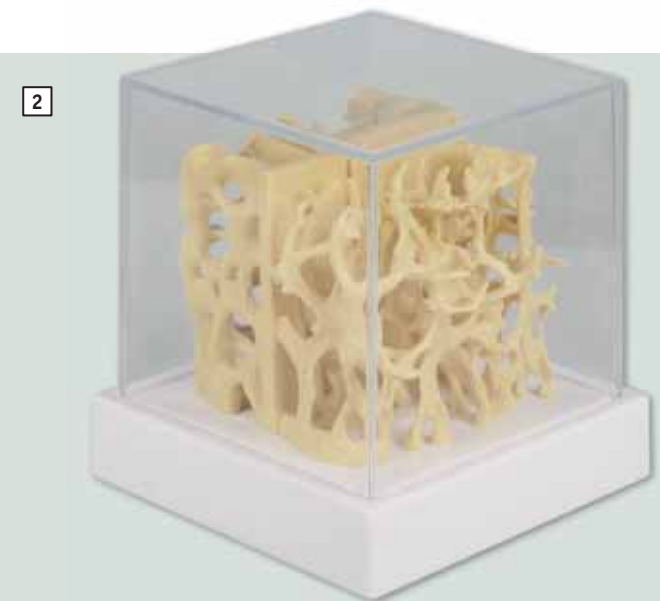


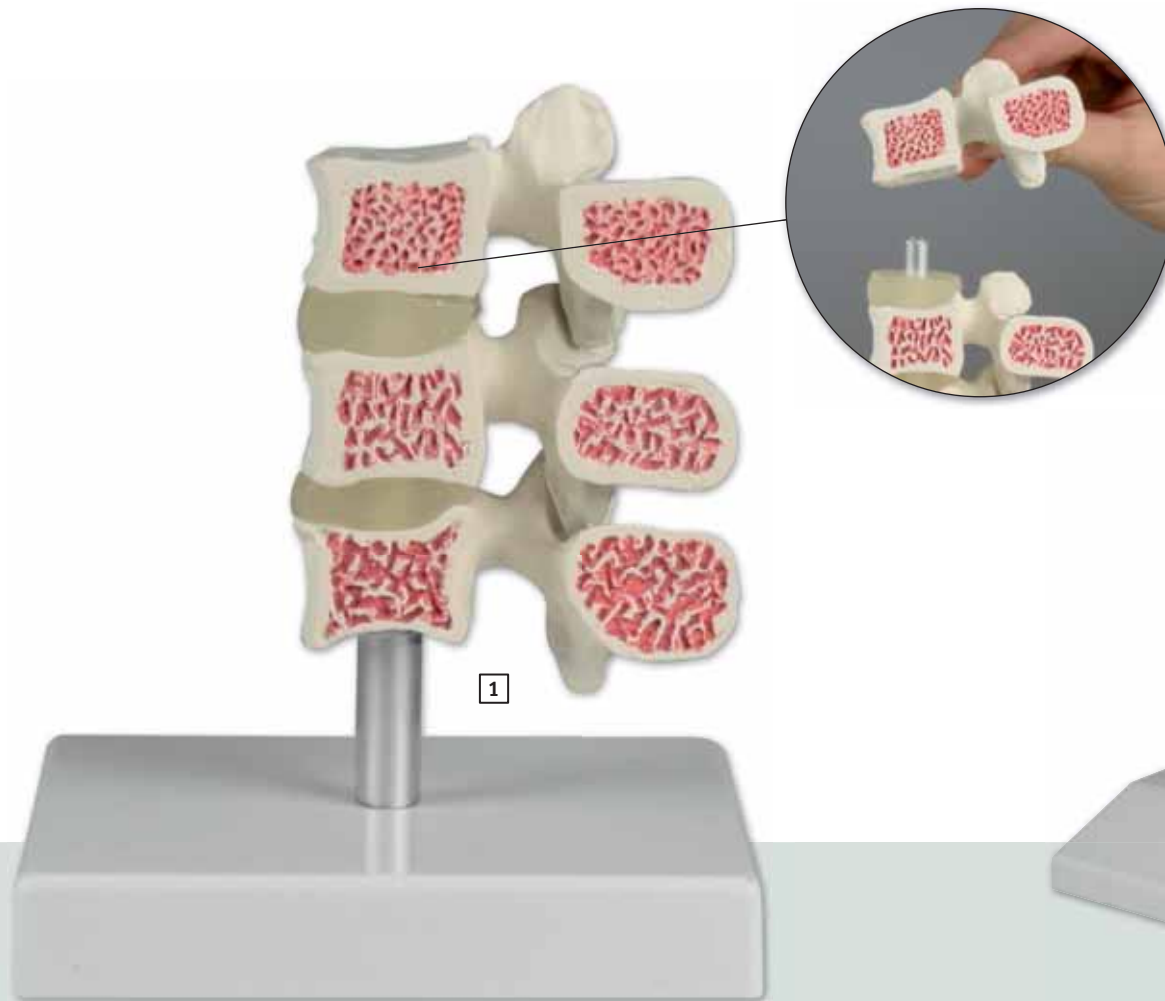
2 Healthy / osteoporotic bone structure comparison model

This highly enlarged model of the bone structure shows healthy structure on one side and structure with osteoporotic changes on the other side. Because of the direct comparison the patient understands without many explanation how his bones change and why the risk of fractures is higher.

Size: 11.5 x 11.5 x 13 cm, weight: 0.4 kg

■ Ref.no. 4062





1

1 Osteoporosis vertebrae model, 3 vertebrae

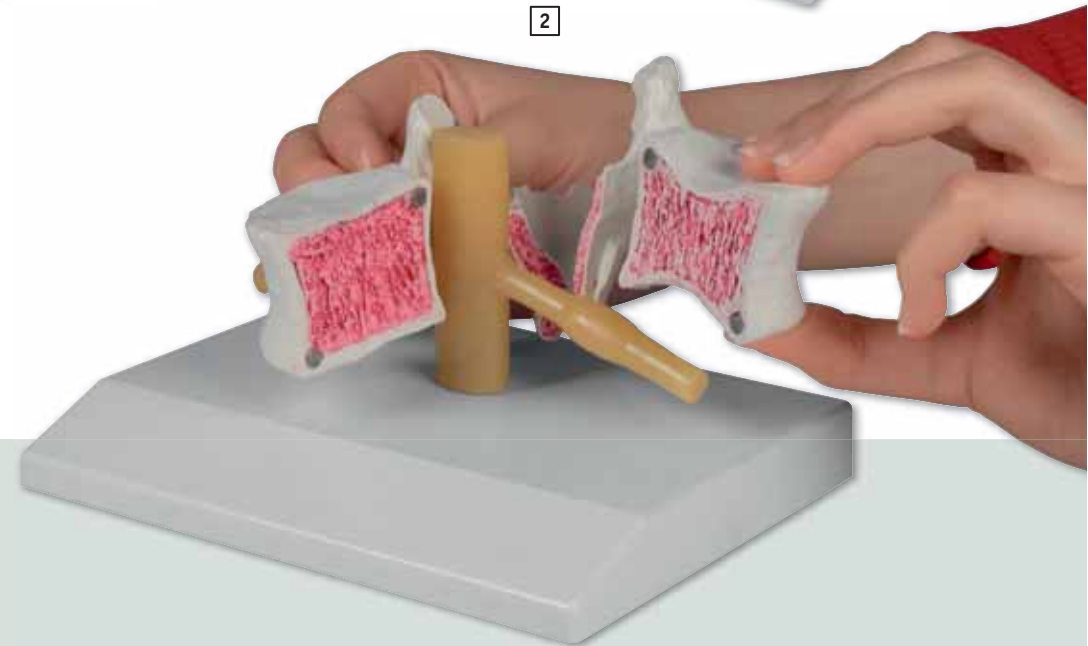
This model consists of three medially cut lumbar vertebrae with intervertebral discs. A healthy bone structure is represented on the surface of the upper vertebra and an osteoporotic bone structure on the middle vertebra. The lower vertebra shows osteoporosis at a markedly advanced stage with crushed roof and basal plate (cod fish vertebra). Individually removable from stand.

Size: 16 cm

■ Ref.no. 4078



2

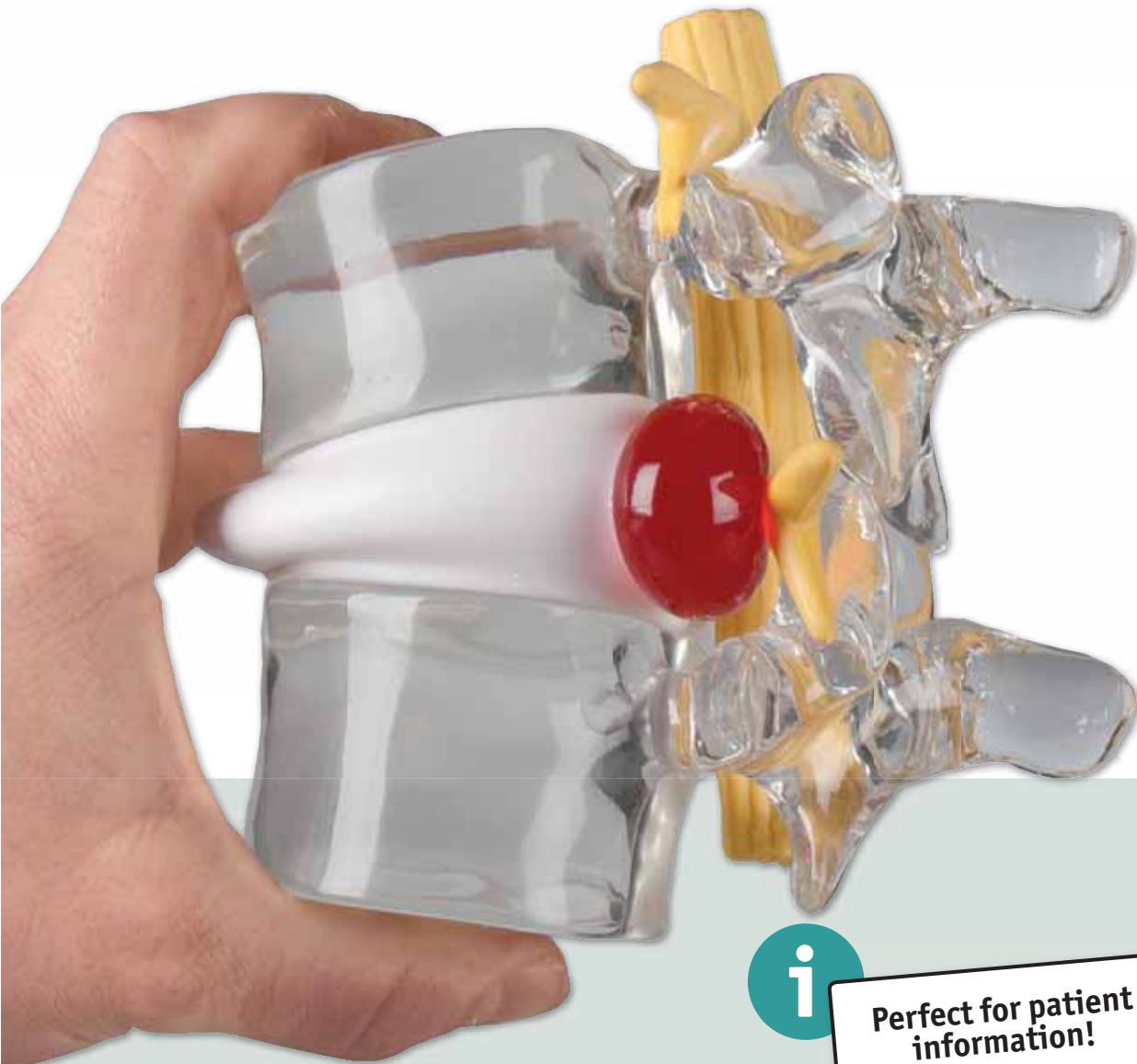


2 Osteoporosis vertebra, 2 times life size

This model of a human lumbar vertebra is median sectioned and shows healthy bone structure on one side and osteoporotic bone structures on the other. The model is assembled magnetically and can easily be removed from the stand.

Size: 13 x 12 x 7 cm, weight: 0.5 kg

■ Ref.no. 4068



1



Perfect for patient information!

1 Herniated disc simulator

This model of two lumbar vertebrae in about double life size has the opportunity to demonstrate a lateral intervertebral disc hernia. If the two vertebrae are pressed together, the inner core of the disc will be protruding to the outside, forming a hernia. The protruding hernia shows graphically the pressure which affects the spinal nerve. With this helpful tool you can demonstrate fast and easily what happens when a patient suffers from a herniated disc. Because of the enlarged size it is easy to handle and also suitable for group teaching.

■ Ref.no. 4400



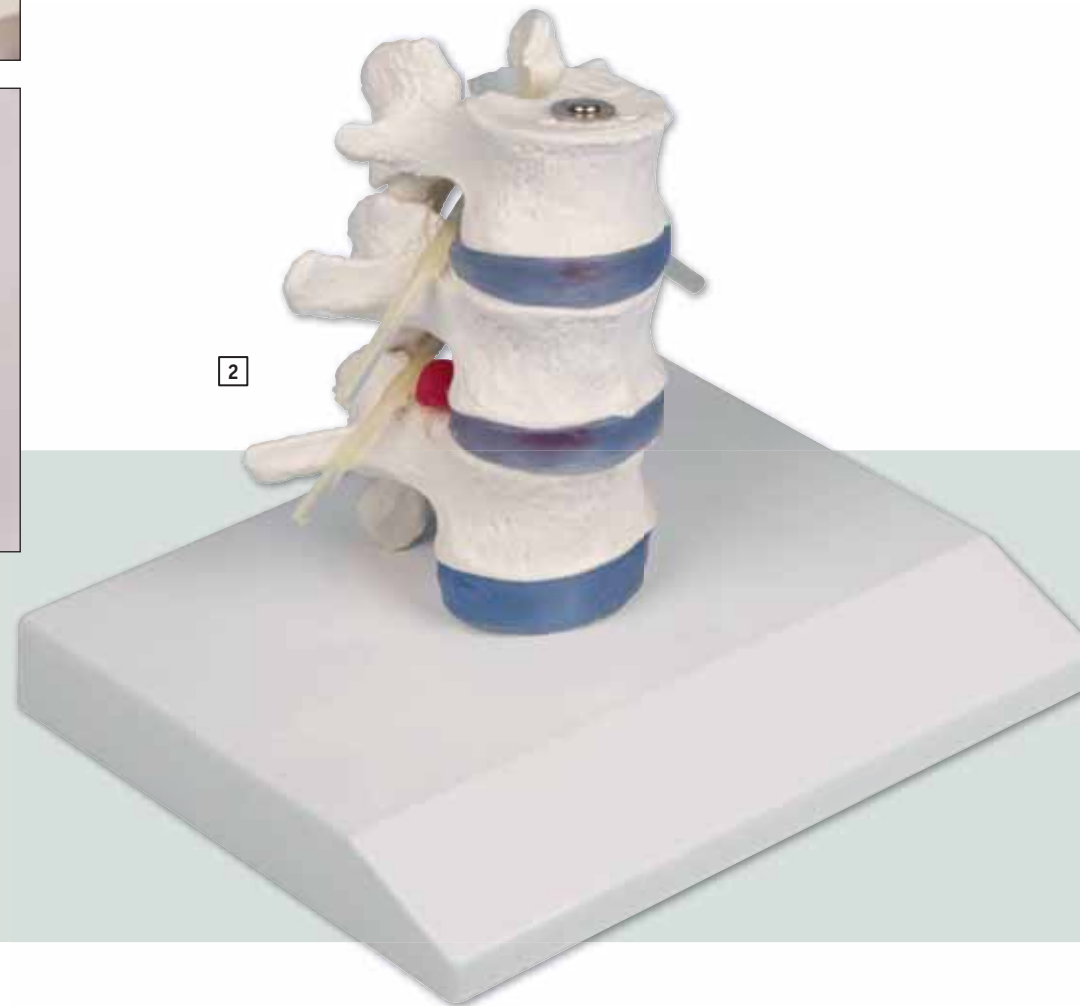


2 Lumbar vertebrae with prolapsed intervertebral discs

Consisting of 3 lumbar vertebrae with intervertebral discs, spinal cord and emerging spinal nerves. One normal intervertebral disc is supplied, one intervertebral disc with a lateral prolapse and one intervertebral disc with a medial prolapse. The model can be dismantled and the intervertebral discs can be removed for closer study. Natural casting.

■ With removable stand Ref.no. 4047

■ Without stand Ref.no. 4048 (not pictured)



1



1 Stages of Disc Degeneration

This model consists of 4 vertebrae pairs and shows additionally to the normal condition three different pathologies: slight disc damage, prolapse with bone degeneration and advanced bone and disc degeneration. The vertebrae pairs are mounted magnetically on the plexiglass base and can be easily removed. All vertebrae are flexible mounted which allows demonstration of movements.

Size: 38 x 10 x 10 cm

Weight: 0.9 kg

■ **Ref.No.** 7577

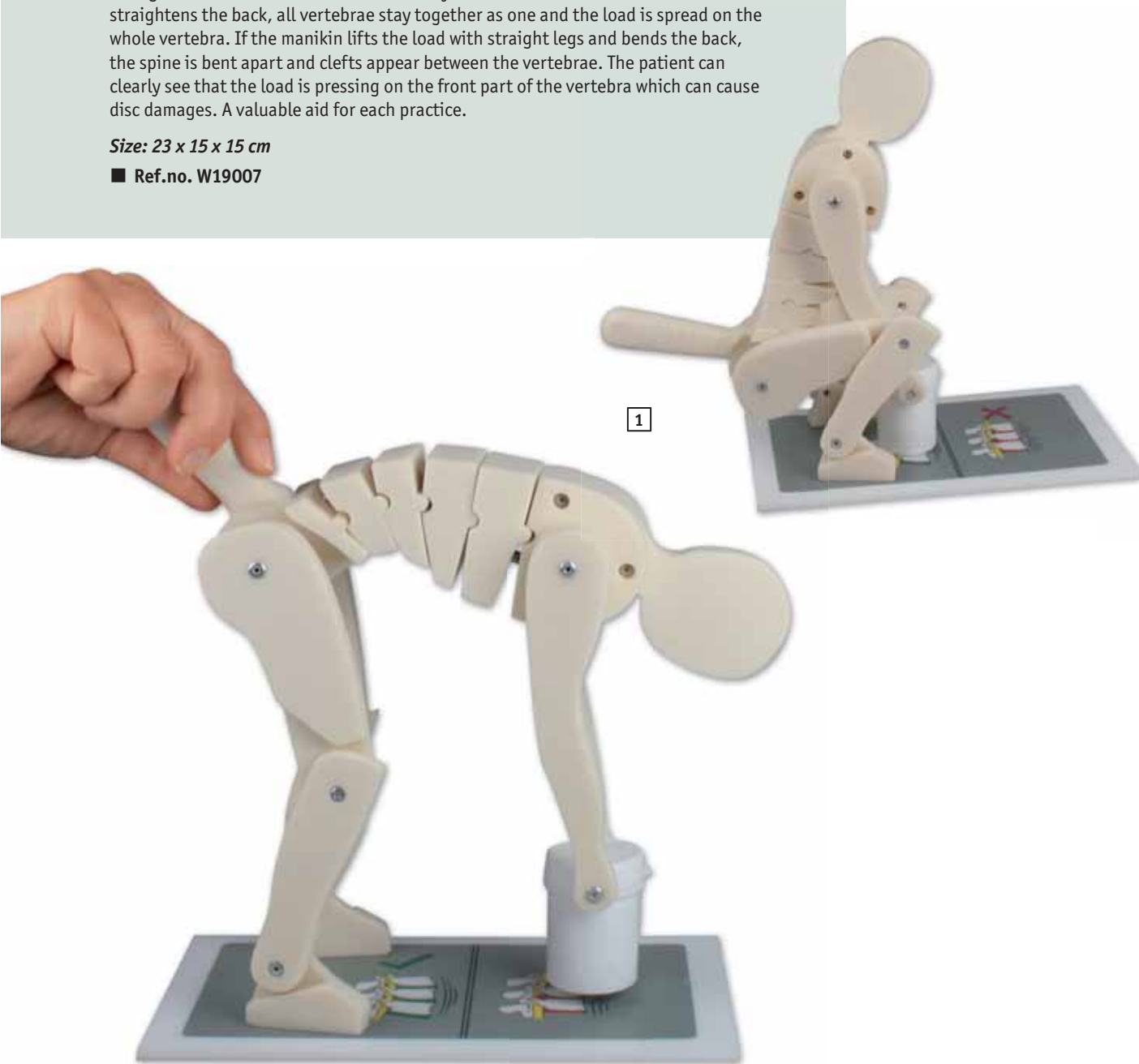


▼ **1** **Demonstration figure “correct and wrong lifting”**

This lifting manikin displays clearly the conditions of the spine during right or wrong lifting. If the manikin lifts the load correctly, which means it bends the knees and straightens the back, all vertebrae stay together as one and the load is spread on the whole vertebra. If the manikin lifts the load with straight legs and bends the back, the spine is bent apart and clefts appear between the vertebrae. The patient can clearly see that the load is pressing on the front part of the vertebra which can cause disc damages. A valuable aid for each practice.

Size: 23 x 15 x 15 cm

■ **Ref.no.** W19007



2

▲ **2** **Chart „The vertebral column”**

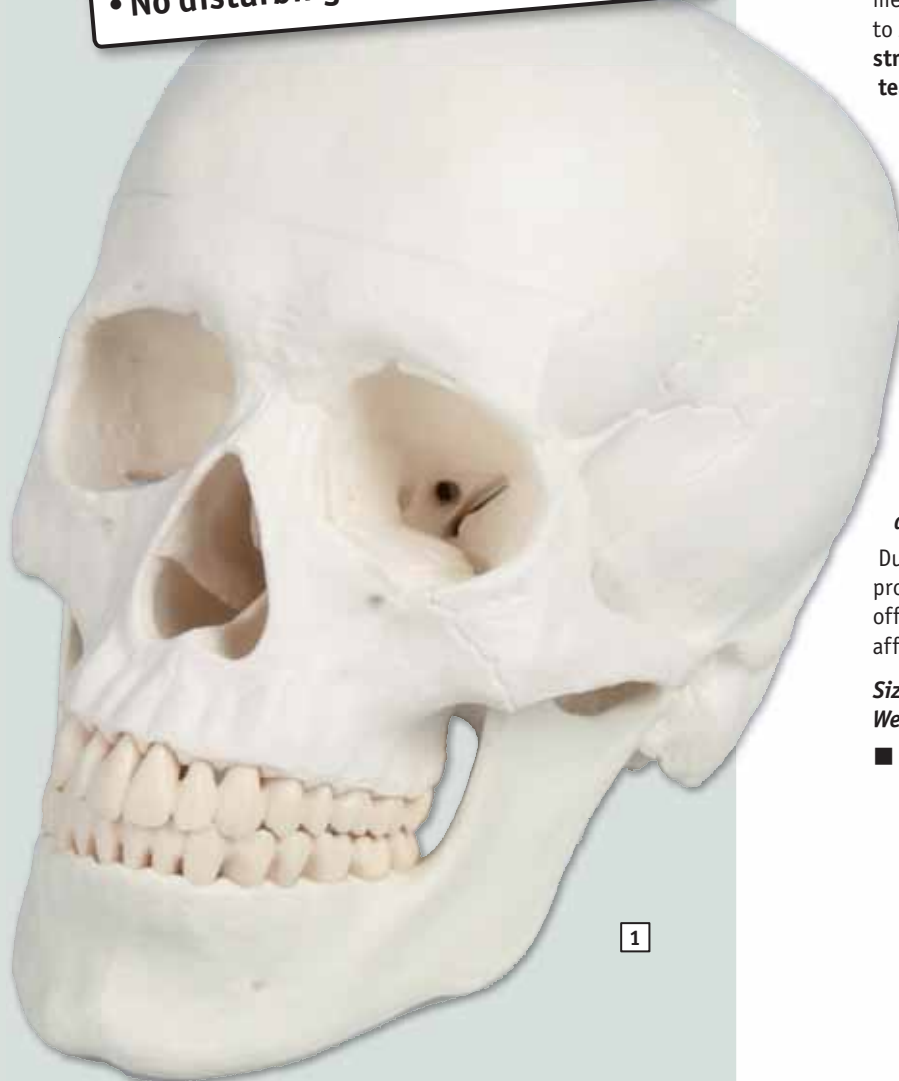
70 x 100 cm, plastic, with metal edging and hanger. German, English

■ **Ref.no.** AL107

50 x 70 cm, art paper, with rods and hanger. German, English

■ **Ref.no.** AL507

- No plastic pins that could break
- No disturbing hooks



1 Skull model, 3 parts

Developing this lifelike reproduction of a human skull we have used the latest technology to digitalize a real human skull and idealized it under the aspects of medical education. This means the skull was adjusted to be anatomically ideal, **all anatomical details and structures are present and correspond to anatomical teaching.**

The three part model consists of skull base, skull cap and lower jaw. The teeth correspond with real dentition concerning position and embrasure. The lower jaw is movably mounted and can be removed. The skull cap is aligned with the skull base using metal pins and held by strong magnets. Due to this there is **no need for disturbing hooks**, no plastic pins that could break and no risk of having a gap between skull cap and skull base. This distinguishes the model from competitor's skulls with plastic pins and disturbing metal hooks.

The model corresponds with an average European adult concerning size and proportions.

Due to modern production technologies and high production volume this very successful model can be offered at a very reasonable price, so everyone can afford this extraordinary model.

Size: 18 x 19 x 12 cm

Weight: 0.7 kg

■ Ref.no. 4500

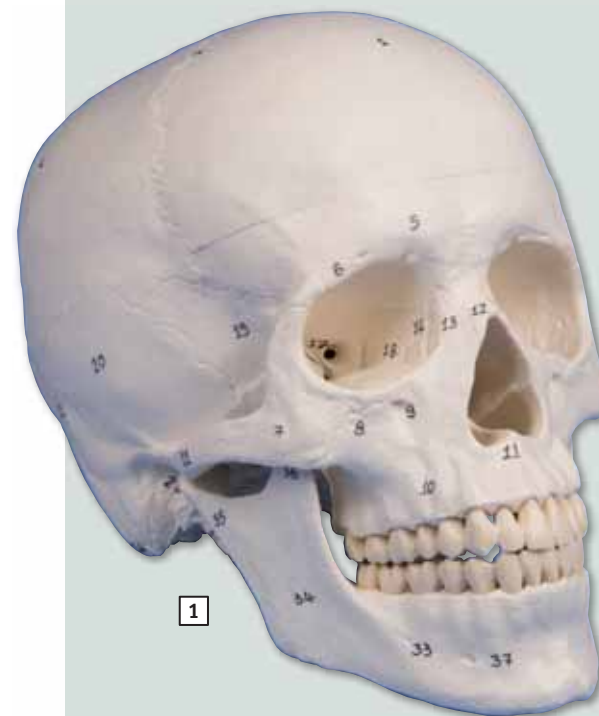


1 Skull model, 3-part, numbered

Skull model like ref.no. 4500, but additionally with numbered bones and structures. With nomenclature.

Size: 18 x 19 x 12 cm, Weight: 0.7 kg

■ Ref.no. 4505



1

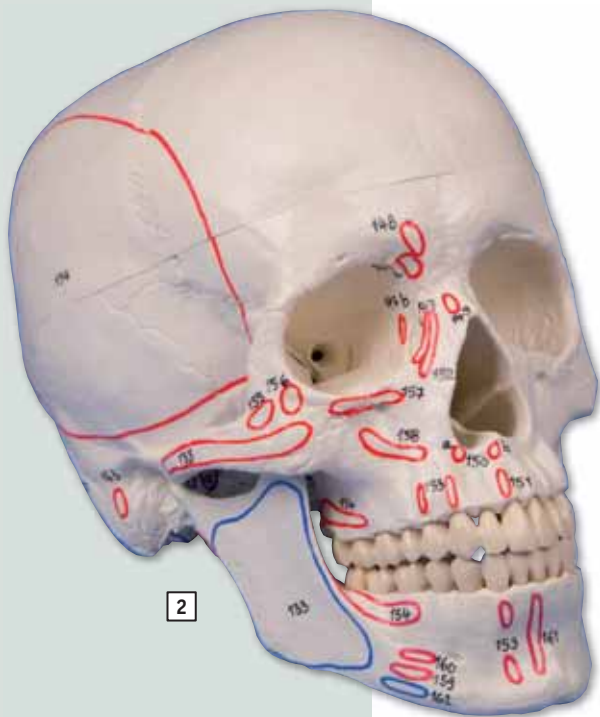
2 Skull model, 3-part, with muscle marking

Skull model like ref.no. 4500, but additionally with marking of muscle insertions and origins. With nomenclature.

Description of muscle marking see page 10.

Size: 18 x 19 x 12 cm, Weight: 0.7 kg

■ Ref.no. 4509



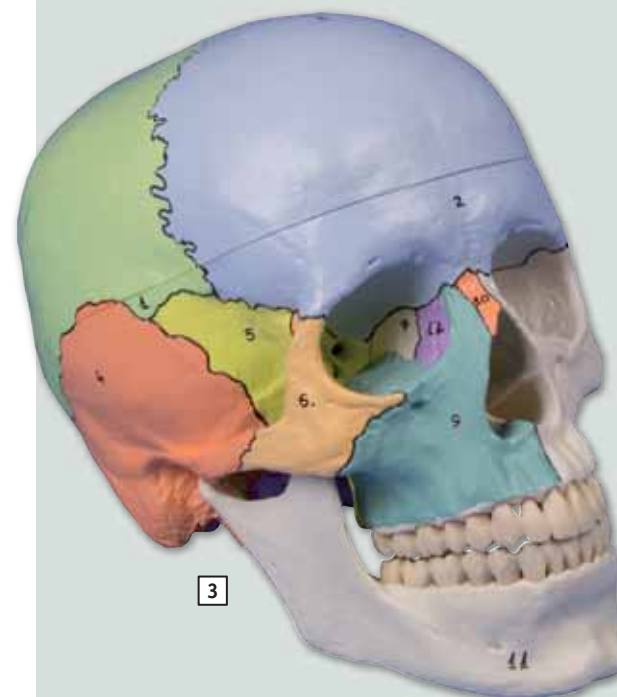
2

3 Skull model, 3-part, didactical painted

Skull model like ref.no. 4500, additionally with didactical painting of individual bones on one side of the skull. The bones are numbered referring to the included nomenclature.

Size: 18 x 19 x 12 cm, Weight: 0.7 kg

■ Ref.no. 4508



3

1



All teeth
removable

1 Dental skull, 4 parts

Cast from a selected natural bone skull with all fine anatomical details. Complete dentition of 31 individual teeth with full roots. You may pull teeth of maxillae and mandible for individual demonstration and place them back into the socket, only the ones behind the bone flap are fixed. The bony flap on one side of mandible can be opened to show nerve canal, bony structure, roots of teeth and an impacted third molar. The calvarium can be removed to allow the view into the completely represented base of the skull. Nerve paths in the skull base are open.

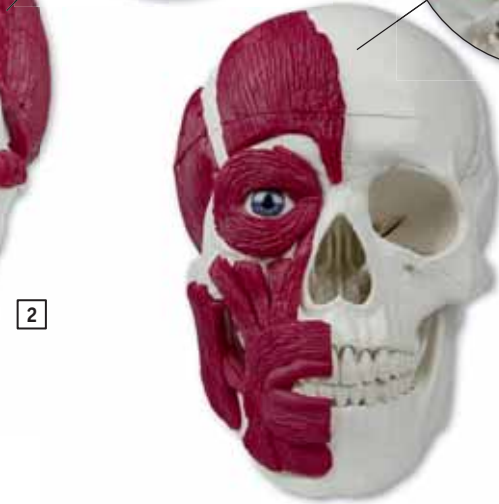
Size: 22 x 13 x 17 cm, Weight: 0.7 kg

■ Ref.no. 4513

2



3



2 Skull with masticatory muscles, 2-part

The masticatory muscles (masseter muscle, temporal muscle, pterygoideus medialis and lateralis muscles) are represented in the form of elastic bands. Using this model, it is possible to demonstrate the function of the masticatory muscles with closure of the mandible, induction of opening of the mandible and lateral and forward displacement of the mandible. The the skull cap is removable, the mandible is movable.

Size: 23 x 16.5 x 17 cm, Weight: 0.8 kg

■ Ref.no. 4512

3 Skull with musculature

This fascinating model shows a human skull with the most important head muscles on one half. The skull is similar to the article 4500, the mandible is unmovable. The skull cap can be opened and removed.

Size: 18 x 19 x 12 cm, Weight: 0.8 kg

■ Ref.no. 4514



**TOP
MODEL**

1



1 Demonstration skull, 14 parts

A selected quality human skull was chosen for this model, dissectible into 14 parts: A horizontal section of the skull exposes the cranial cavity in which the course of the meningeal vessels, the venous sinuses and the internal carotid artery are indicated in color. A sagittal section exposes the structure of the nasal cavity including frontal and sphenoidal sinuses. The frontal sinus is further dissected on one side by a bony section, on the other side it is resected in its outline. The temporal bone is removable and sectioned into two parts presenting internal ear in full view. The mandible is movable and can be taken off. The mandible and the maxillae are opened on one side presenting the roots of teeth with dental vessels and nerves reinstated in colour. On the other side the maxillae can be opened.

Size: 20 x 14 x 16 cm, weight: 0.7 kg

■ Ref.no. 4515

2 Neurovascular Skull

This model shows a life size skull with seven cervical vertebrae. The arteries are shown on one side and nerves on the other. Removing the vault exposes the main nerves and arteries inside the skull. The 12 cranial nerves and their branches are also shown.

Life size.

■ Ref.no. 4516

Interior view



2



BESTSELLER

1



Skull Model, 22 part

This fascinating model of an average European adult skull can be disassembled into 22 single bones. During development of this model we have digitalized a real human skull with latest technology and idealized it, meaning it was adjusted to the standard anatomy. This distinguishes it remarkably from almost all competitor's products. Amongst these some are too small, others show improper detail.

Stable parts with convenient magnet connections make handling of the product a child's play. The detailed bones do not need any complicated pins to be stuck into holes, they almost slide into position, guided by realistic bone sutures and held by strong magnets. Using this technology we have almost completely avoided the use of connection pins like in other model because these are not durable and tend to break.

Because of the excellent anatomy and ease of usage this model is the perfect tool for osteopaths.

The following bones are represented:

- Parietal bone left and right
- Occipital bone
- Temporal bone left and right
- Sphenoid bone
- Frontal bone
- Ethmoid bone
- Vomer
- Palatine bone, left and right
- Inferior nasal concha left and right
- Maxilla with teeth, left and right
- Lacrimal bone left and right
- Nasal bone left and right
- Zygomatic bone left and right
- Mandible with teeth

Supplied with users guide in English and German as well as a CD with Key card document in Latin, German, English, French, Spanish, Portuguese, Italian, Polish, Russian, Arabic, Korean and Japanese.

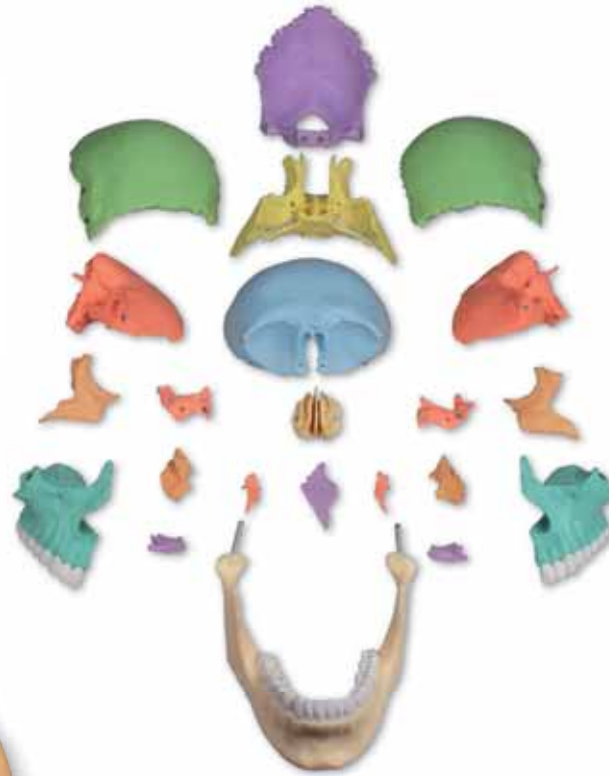
1 Anatomical version

Model in natural bone colour.

■ Ref.no. 4701



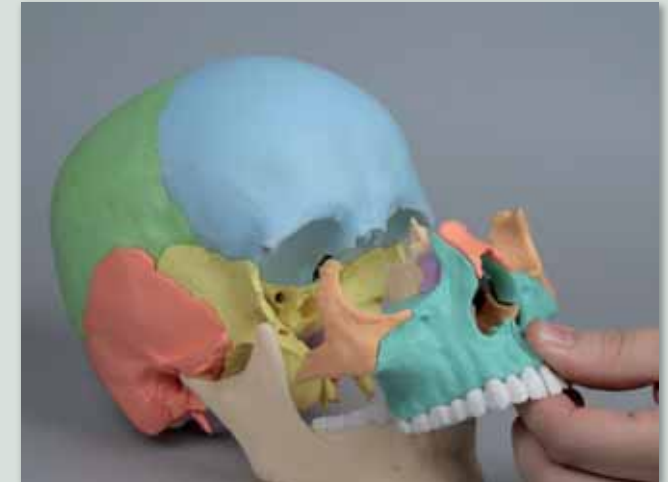
2



2 Didactical version

This version is perfect for visual distinction of the single bones. The bones are produced in different colors, commonly used in anatomy, geminate bones do have identical color.

■ Ref.no. 4708



Customers reply about this product:

"Thank you for sending this skull so quick. First experiences are completely positive. The magnetic connections are surprisingly stable, all bones are like they are shown in anatomical books with amazing details, and the materials on DVD are also very good. The included replacement for the small bones is an excellent and foresightful service."

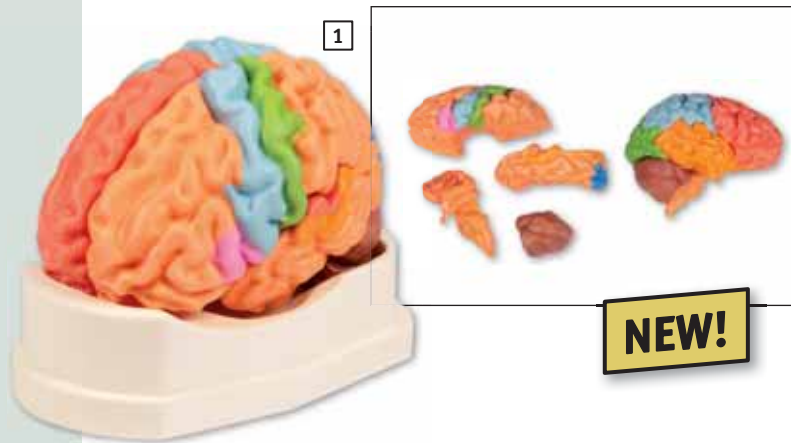
MTRA school of the University Hospital of Tuebingen

i

The brain models C918, C922 and the falx cerebri C925 fit into the following skull models:

- | | | |
|--------|--------|--------|
| ■ 4500 | ■ 4509 | ■ 4701 |
| ■ 4505 | ■ 4512 | ■ 4708 |
| ■ 4508 | ■ 4514 | |

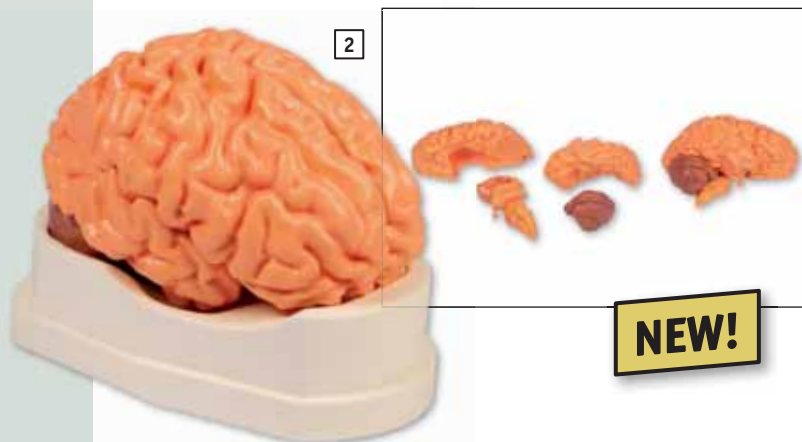




1 Functional and regional brain model, life size, 5 parts

This life-size brain model shows the major anatomical landmarks and cortical areas of the brain in carefully painted color. The right half is painted to show the four lobes of the brain: parietal, temporal, occipital, and frontal. The left half comes apart in four pieces- the frontal and parietal, the temporal and occipital, the brainstem, and the cerebellum. It is painted to show 5 cortical areas of the brain: the primary motor cortex, the sensory cortex, the visual cortex, Broca's area (motor/speech), the auditory cortex, and Wernicke's speech area. With Key Card.

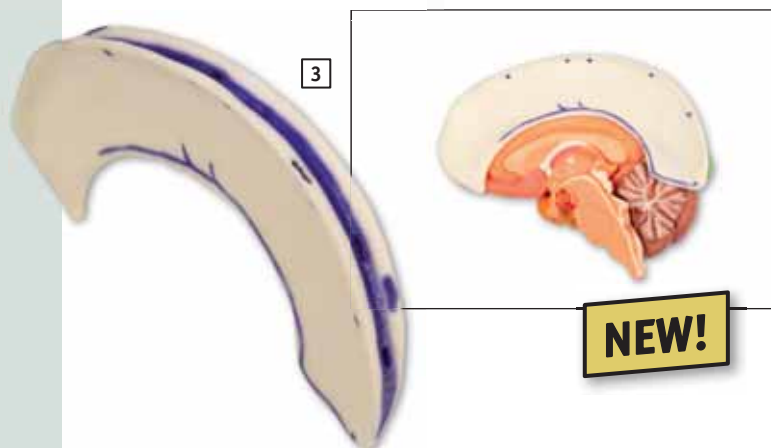
■ Ref.no. C922



2 Anatomical brain model, life size, 5 parts

This life-sized brain model is carefully painted in realistic color depicting the major anatomy of the brain. The left half comes apart in four pieces- the frontal and parietal, the temporal and occipital, the brainstem, and the cerebellum. The brainstem includes the trigeminal nerve (V), abducens nerve (VI), vestibulocochlear nerve (VIII), facial and intermediate nerves (VII), trochlear nerve (IV), olfactory nerve (I), glossopharyngeal nerve (IX), vagus nerve (X), accessory nerve (XI), cervical ventral roots, and hypoglossal nerve (XII). The hippocampus is attached to the brainstem to show the relation of the hippocampus to the fornix and mammillary body in the brainstem. The choroid plexus is also shown. This model also fits in most of our current skull models (e.g. 4500 and 4708) and the falx cerebri model. With Key Card.

■ Ref.no. C918



3 Falx cerebri model

This model shows the falx cerebri of the brain. It includes the ostia of bridging veins, lacuna with arachnoid granulations, the superior and inferior sagittal sinus, and the straight sinus. It fits with most of our current skull models (e.g. 4500 and 4708) and brain models C922 and C918.

■ Ref.no. C925



1 Articulated Human Medical Study Skull

This premier anatomy skull is a composite of 22 separate cranial bones and 32 separate teeth. It is articulated bone by bone from the completely disarticulated version (**Ref.no. 4706**) and is cradled on a stand with both parietal bones separated, thereby giving access to the interior of the cranium. The 32 separate teeth may be removed individually. This skull of a probable young adult female is finely detailed, showing all the foramina, canals, sutures and minute details of a real skull. Please note that this skull does not disarticulate more than what is shown on the image except that the all teeth are removable.

A report by Dr. Boaz titled „Osteological Tracing of Cranial Nerves“ is available and will be sent with the purchase of this skull. The report contains two charts and an 22x28cm poster titled „Bristle through bone: An osteological model approach to teaching the cranial nerves and foramina,“ presented at the American Association of Anatomists/ Experimental Biology meeting in April 2006 by Noel Boaz and David Kronen. Case and Stand Included.

■ **Ref.no. 4705**

1 Disarticulated Human Medical Study Skull

In order to develop this skull properly, the advice of educators, anatomists and surgeons was solicited. Following an evaluation from Dr. Noel Boaz, Professor of Anatomy.

„This skull is ideal for osteological teaching. It allows the student to appreciate the individual bones, the sutures between the bones, and the foramina of the skull. All foramina are bristle-patent, making student exploration of perforating cranial nerve branches and blood vessels possible. For the medical or dental student this skull is an excellent companion to head-and-neck dissection. For the physical anthropology student this skull is an invaluable learning tool for appreciating anatomical landmarks and cranial morphology. For research, the skull is an invaluable laboratory reference for detailed forensic anthropological, paleoanthropological, and anatomical investigations. Its preparation offers a number of advantages over other cranial models and even over real bone skulls. Museum-quality casting procedures preserve minute surface detail with the appearance and texture of real bone. There are no casting „flash lines“ that can obscure detail. The skull is much more durable and will withstand much more handling than real bone. All foramina have been rendered patent, allowing even small branches of nerves and small blood vessels to be traced through this skull. The skull is particularly useful in tracing the many branches of the trigeminal nerve, in understanding the course of cranial parasympathetic nerves and the location of their ganglia, and in reviewing the bony relationships of the branches of the maxillary artery. Many of these foramina in real skulls are too narrow to admit the passage of a bristle or fine probe. At a competitive price compared to real skulls of good quality, this skull also is not subject to international regulations governing human subjects, sourcing, and donor authorization.“ - Noel T. Boaz, Ph.D., M.D., Professor of Anatomy

This skull of a probable young adult female is finely detailed, showing all the foramina, canals, sutures and minute details of a real skull. A report by Dr. Boaz titled „Osteological Tracing of Cranial Nerves“ is available and will be sent with the purchase of this skull. The report contains two charts and an 22x28cm poster titled „Bristle through bone: An osteological model approach to teaching the cranial nerves and foramina,“ presented at the American Association of Anatomists/ Experimental Biology meeting in April 2006 by Noel Boaz and David Kronen.

Comes in a premium custom case, lined with foam for protection and archival durability.

■ Ref.no. 4706

1



NEW!

2



NEW!

2 Disarticulated Human Fetal Skull Full Term

This disarticulated skull is from a full term (10 lunar months) fetus. It was part of a medical examiner's comparative pathology collection before going to the Maxwell Museum and is remarkable in its completeness. It was possible to reproduce every bone, small and large, in precise detail. A perfect specimen for study in forensic anthropology, physical anthropology and anatomy.

■ Ref.no. 4728



1 Adult skull, male

First class actual cast of a male human adult in extraordinary high detail. Due to the very special production technology even smallest details are reproduced and the model looks and feels almost like a real human skull. The structures are carefully painted to improve the visibility and make the model look like a real skull. Because of its high quality this skull is difficult to identify as a plastic replica.

Size: 20 x 14 x 20 cm

Weight: 0.8 kg

■ Ref.no. 4710

On Page 79 you will find the brain model **C710** which will fit perfectly into the skull 4710.



2 Adult skull, female

First class actual cast of a female human adult in extraordinary high detail. Due to the very special production technology even smallest details are reproduced and the model looks and feels almost like a real human skull. The structures are carefully painted to improve the visibility and make the model look like a real skull. Because of its high quality this skull is difficult to identify as a plastic replica.

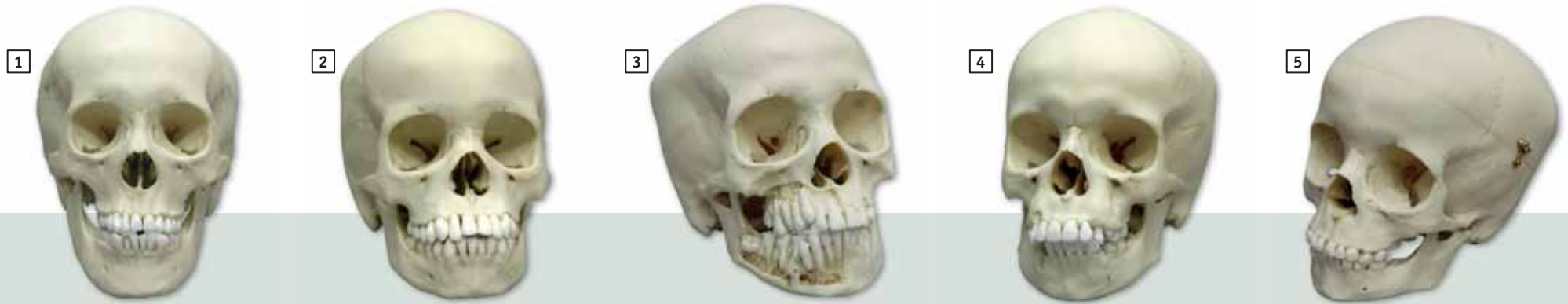
Size: 19 x 13 x 19 cm

Weight: 0.8 kg

■ Ref.no. 4715

On Page 79 you will find the brain model **C715** which will fit perfectly into the skull 4715.





1 Adolescent skull, female

First class actual cast of a female human adolescent in extraordinary high detail. Due to the very special production technology even smallest details are reproduced and the model looks and feels almost like a real human skull. The structures are carefully painted to improve the visibility and make the model look like a real skull. Because of its high quality this skull is difficult to identify as a plastic replica. Two part model.

Size: 16.5 x 11 x 16 cm

Weight: 0.4 kg

■ Ref.no. 4721

2 Human Skull, 13 year old

This skull offers an excellent example of an adolescent. With the exception of the wisdom teeth, all permanent teeth are fully erupted, and no deciduous dentition remains. The apices of the canines, premolars, and second molars are approximately one half to two-thirds closed radiographically; this is consistent with 13.5 - 14 years. The crowns of the three remaining third molars are in an early stage of calcification. Radiographically, there is no evidence of root formation. The early stage of third molar crown formation is usually complete by 13 years.

■ Ref.no. 4739

3 Child skull, 12 year old

First class actual cast of a female human 12 year old child in extraordinary high detail. Due to the very special production technology even smallest details are reproduced and the model looks and feels almost like a real human skull.

Size: 18 x 10 x 15 cm

Weight: 0.3 kg

■ Ref.no. 4725

4 Child Skull, 9 year old

First class actual cast of a 9 year old child in extraordinary high detail. Due to the very special production technology even smallest details are reproduced and the model looks and feels almost like a real human skull.

■ **Size:** 19 x 13 x 14 cm

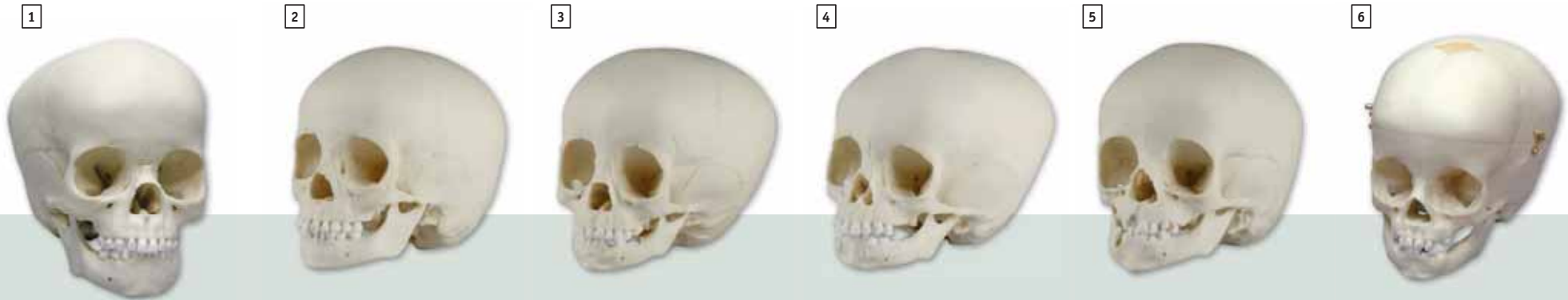
■ Ref.no. 4779

5 Child Skull, 5 year old

First class actual cast of a 5 year old child in extraordinary high detail. Due to the very special production technology even smallest details are reproduced and the model looks and feels almost like a real human skull.

Size: 16.5 x 11 x 14 cm

■ Ref.no. 4730



1 Child Skull, 4 year old

First class actual cast of a 4 year old child in extraordinary high detail. Due to the very special production technology even smallest details are reproduced and the model looks and feels almost like a real human skull.

Size: 18 x 12 x 13 cm

■ Ref.no. 4774

2 Child skull, 3 year old

First class actual cast of a 3 year old child in extraordinary high detail. This skull also shows numerous Wormian (sutural) bones found along the lambdoid suture. The epipteric bone, which is a Wormian bone found at the anatomical landmark known as the pterion is also shown.

Size: 16.5 x 12 x 13 cm

■ Ref.no. 4776

3 Child skull, 1½ year old

First class actual cast of a 1½ year old child in extraordinary high detail. Due to the very special production technology even smallest details are reproduced and the model looks and feels almost like a real human skull.

Size: 16 x 12 x 13 cm

■ Ref.no. 4775

4 Child skull, 15 months old

First class actual cast of a 15 months old child in extraordinary high detail. Due to the very special production technology even smallest details are reproduced and the model looks and feels almost like a real human skull.

Size: 15 x 11 x 14.5 cm

■ Ref.no. 4740

5 Child skull, 14 months old

First class actual cast of a 14 months old child in extraordinary high detail. Due to the very special production technology even smallest details are reproduced and the model looks and feels almost like a real human skull.

Size: 15 x 11 x 13 cm

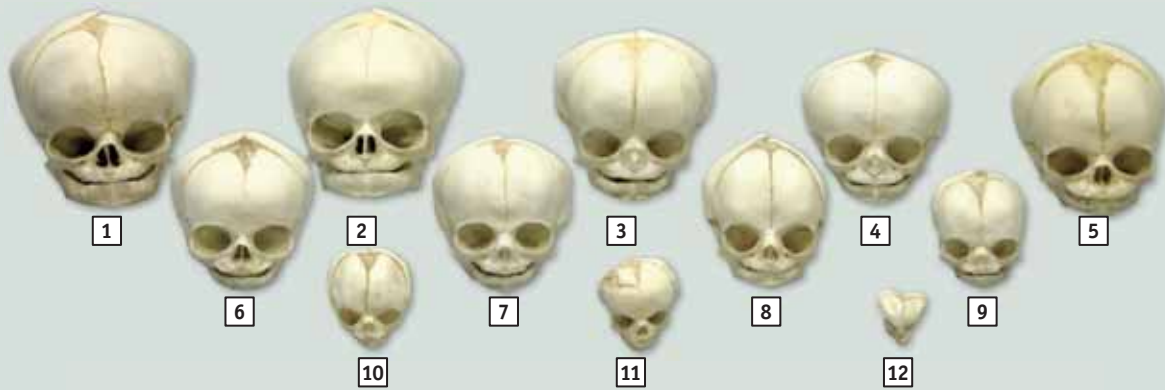
■ Ref.no. 4777

6 Child Skull, 1 year old

First class actual cast of a 1 year old child in extraordinary high detail and calvarian cut. Due to the very special production technology even smallest details are reproduced and the model looks and feels almost like a real human skull.

Size: 15.3 x 12 x 12 cm

■ Ref.no. 4770



◀ Foetal skull models

This amazing series of foetal skull reproductions is unique in the world. The extreme high quality of the models makes it difficult to distinguish between a real skull and the model. This series gives an impressive overview over the development of the skull in utero.

- | | | | |
|-----|------------------------|------|------------------------|
| ■ 1 | 40½ weeks Ref.no. 4742 | ■ 7 | 30 weeks Ref.no. 4757 |
| ■ 2 | 40 weeks Ref.no. 4745 | ■ 8 | 29 weeks Ref.no. 4760 |
| ■ 3 | 35 weeks Ref.no. 4746 | ■ 9 | 21½ weeks Ref.no. 4762 |
| ■ 4 | 34 weeks Ref.no. 4747 | ■ 10 | 20 weeks Ref.no. 4765 |
| ■ 5 | 32 weeks Ref.no. 4750 | ■ 11 | 17 weeks Ref.no. 4767 |
| ■ 6 | 31 weeks Ref.no. 4755 | ■ 12 | 13 weeks Ref.no. 4768 |

13



13 Fetal Human Skull 40 weeks with Calvarium Cut

We are excited to offer what is, perhaps, the only fetal skull with the calvarium cut. The detail present in this skull, including the ossicles, all calvarial sutures, and fontanelles, will guarantee its value as a teaching tool both for the educator and practitioner. By removing the calvarium, osteologists are able to learn the complex anatomy of the endocranium, especially including the pathways of the foramina of the skull base and the orbit.

■ Ref.no. 4727

14



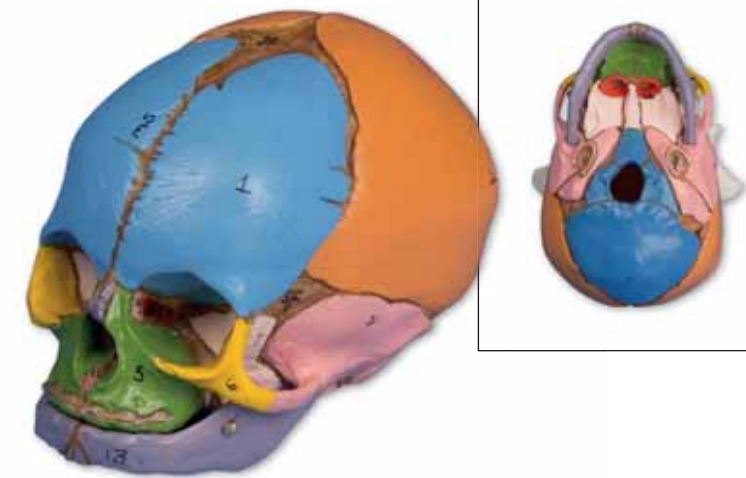
14 Fetus skull, 30th week

This model represents a human foetal skull in the 30th week of pregnancy.

Size: 12 x 12 x 27 cm, **Weight:** 340 g

■ Ref.no. 4519

15



15 Didactic Foetal Skull, 38th week

A very realistic model of a 38-week foetal skull manufactured from our unique bone-like material. The separate skull bones are clearly shown and meticulous moulding distinguishes such detail as sutures, fontanelles and the external auditory meatus. The main bones of the skull coloured for easy identification. Supplied with key card.

■ Ref.no. 4518



1 Scaphocephalic skull

An excellent example of a condition in which the skull is abnormally long and narrow, as a result of premature closure of the sagittal suture, with heavy centers of ossification in the line of the suture.

Size: 20 x 20 x 11.5 cm

■ Ref.no. 4778



2 Miniature skull, 3 part

Miniature of a natural skull. With mobile mandible and removable skull cap.

Size: 7.5 x 6.5 x 10 cm

■ With stand Ref.no. 4650

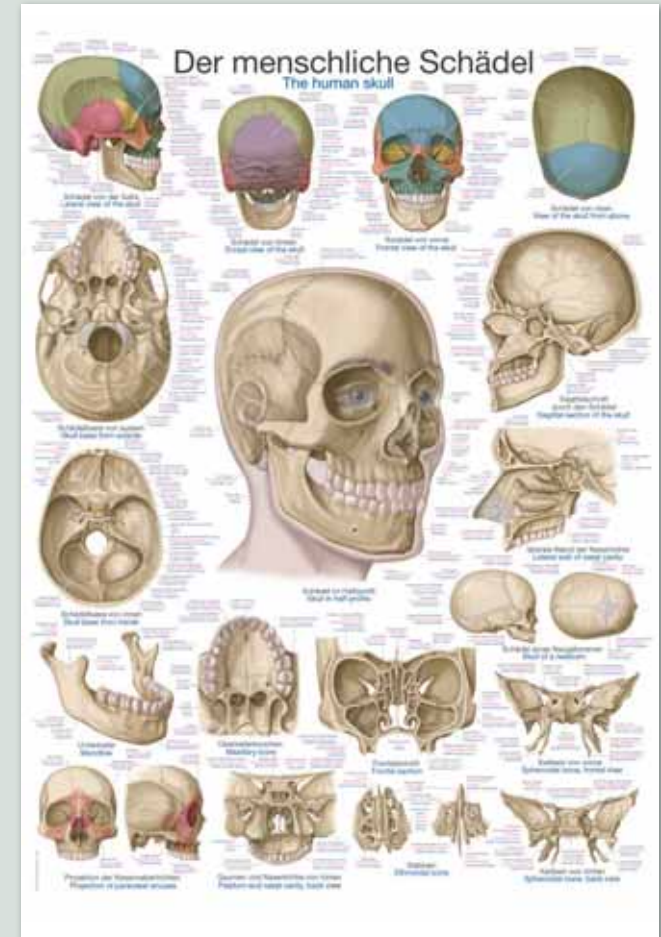
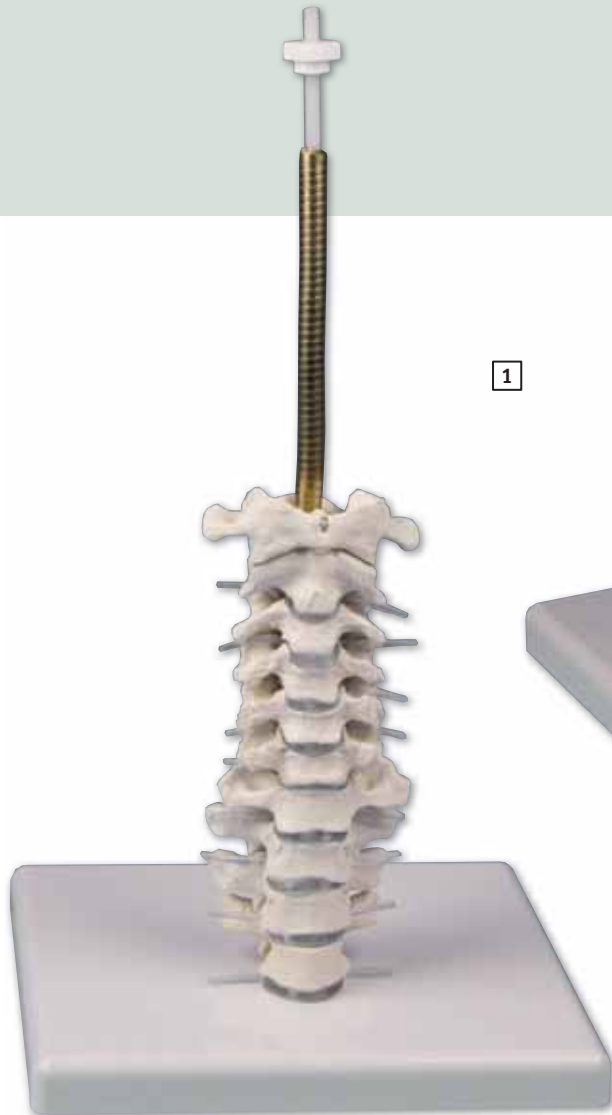
■ Without stand Ref.no. 4650-1



▼ **1 Skull stand, cervical spine**

This cervical spine skull stand can be ordered as option for all skulls. Since the skull has to be adjusted to the stand it may not be used to equip your existing skull. Skull not included, please order separately.

■ Ref.no. 4532



▲ **2 Chart „The human skull“**

70 x 100 cm, plastic, with metal edging and hanger. German, Latin, English

■ Ref.no. AL103

50 x 70 cm, art paper, with rods and hanger. German, Latin, English

■ Ref.no. AL503

1



1 Skeleton of hand

True to life casting of a skeleton of the human hand. All hand bones are individually mobile-mounted on wire.

■ Ref.no. 6001

2



2 Hand skeleton on Nylon

This hand skeleton is very handy for those who want to study single bones in detail. Because of the loose mounting on nylon wire all bones can be separated and studied individually. Nevertheless they always stay in correct anatomical position within the hand.

■ Ref.no. 6004

3



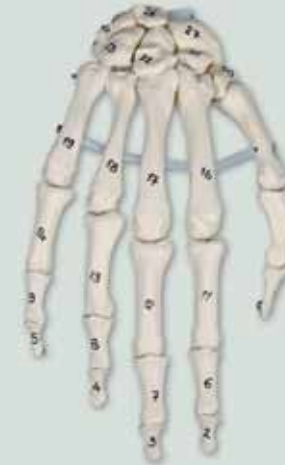
3 Hand skeleton

Natural, non-movable one-piece casting of a human hand. Representation of all structures and anatomical details.

Particularly economically priced!

■ Ref.no. 6040

4



4 Skeleton of the hand with bone numbering

True to life casting of a skeleton of the human hand. All hand bones are individually mobile-mounted on wire. With additional numbering of the individual hand bones. With nomenclature.

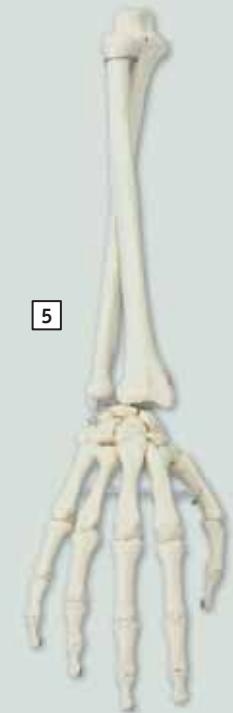
■ Ref.no. 6002

5 Hand with lower arm

True to life casting of a skeleton of the human hand. All hand bones are individually mobile-mounted on wire. With radius and ulna. The rolling movements of the bones of the lower arm (pronation and supination) and movements of the hand joint can be demonstrated.

■ Ref.no. 6008

5





Sliding joint in shoulder
All natural movements can be demonstrated.

1 Skeleton of arm with shoulder girdle

True to life casting of a skeleton of the human arm. The rolling movements of the bones of the lower arm (pronation and supination) and movements of the hand joint can be demonstrated. The hand is mobile-mounted on wire.

■ Ref.no. 6016

2 Skeleton of arm

Model as 6016, but without shoulder girdle.

■ Ref.no. 6012 (not pictured)

3 Skeleton of arm with shoulder girdle and muscle marking

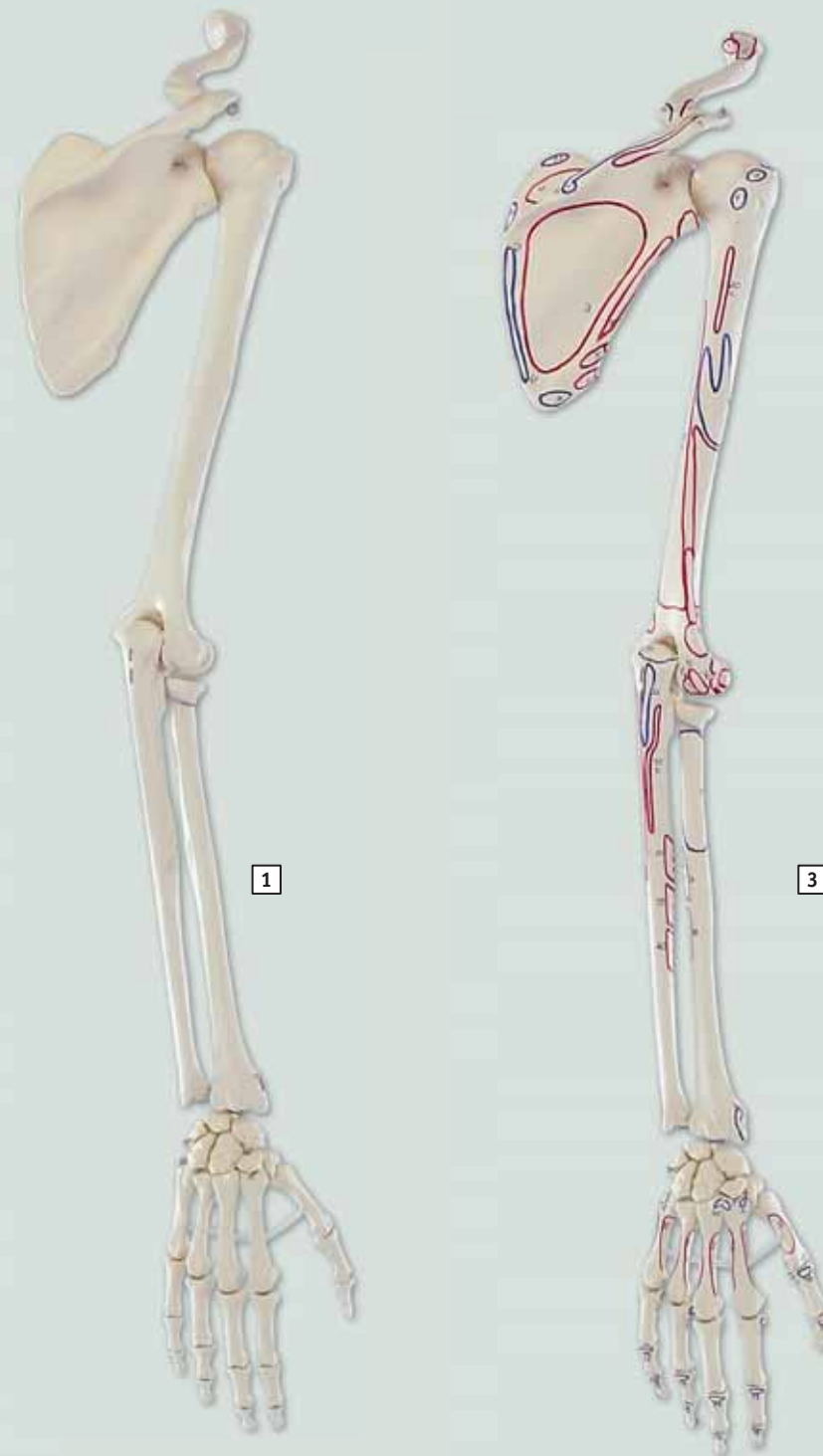
True to life casting of a skeleton of the human arm. The rolling movements of the bones of the lower arm (pronation and supination) and movements of the hand joint can be demonstrated. The hand is mobile-mounted on wire. Including marking of muscle origins and insertion points.

■ Ref.no. 6021

4 Skeleton of arm with musculemarking

Model as 6021, but without shoulder girdle

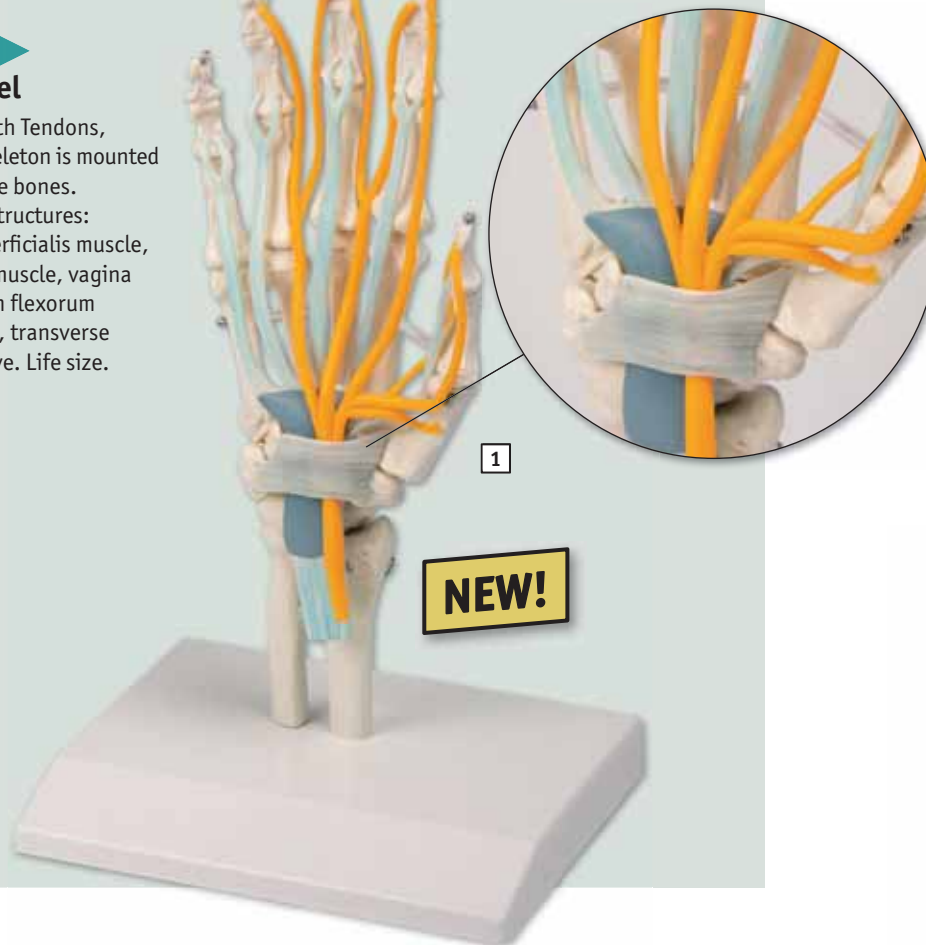
■ Ref.no. 6020 (not pictured)



1 Hand with Tendons, Nerves and Carpal Tunnel

Hand with start of lower arm, with Tendons, Carpal Tunnel and Nerves. The skeleton is mounted on wire and is composed of single bones. The model shows the following structures: tendons of flexor digitorum superficialis muscle, tendon of flexor pollicis longus muscle, vagina communis tendinum musculorum flexorum (Common flexor sheath of hand), transverse carpal ligament and median nerve. Life size.

■ Ref.no. 6011



3 Hand anatomy structure model

This life size model of a human hand shows the anatomy in detail. It represents all important structures like muscles, tendons, ligaments, bones and nerves. The model is not dissectible and can be removed from the stand.

Size: 14 x 24 x 4 cm, Weight: 570 g

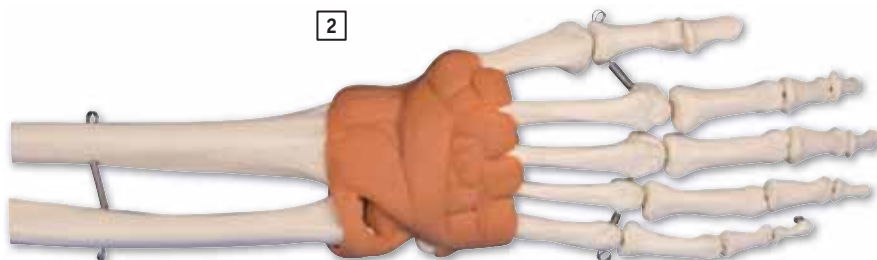
■ Ref.no. M260

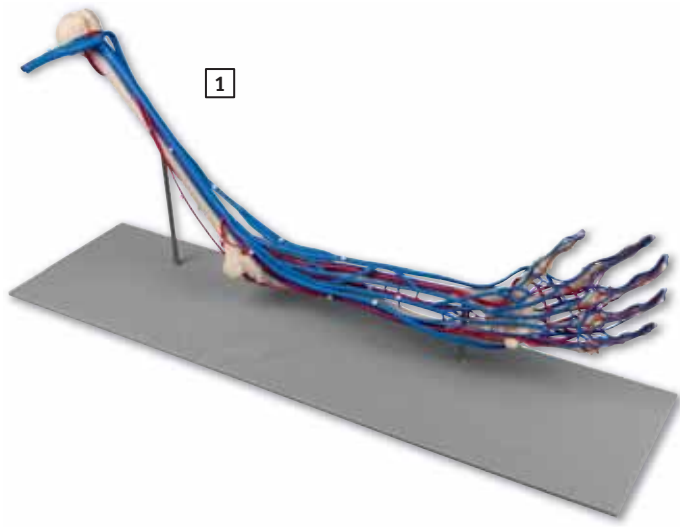


2 Hand with ligaments of the wrist

Hand and lower arm with representation of the wrist ligaments. All bones are individually moulded and mounted on wire. Life size.

■ Ref.no. 6010





1 Skeleton of arm with vessels

Natural casting of a human arm with representation of the blood vessels. The brachial, radial and ulnar arteries with their corresponding veins and root arteries are shown. The complete dorsal and palmar circulatory system of the hand is represented. Emphasis has been placed on the correct size ratio between the individual vessels in order to facilitate study of the vascular system of the arm. On stand.

Size: 66 x 18 x 28 cm

■ Ref.no. 6080

2 Vascular Hand

Life size model of the left hand in a semi-flexed position with all major veins and arteries depicted. The circulatory system is shown on both palmar and dorsal surfaces. Hand can be rotated to allow easy viewing of model from all angles and can be removed if necessary. Mounted on a stand with key card.

Size 26 x 15 x 22 cm

■ Ref.no. 6081



3 Human Magnetic Hand, Right

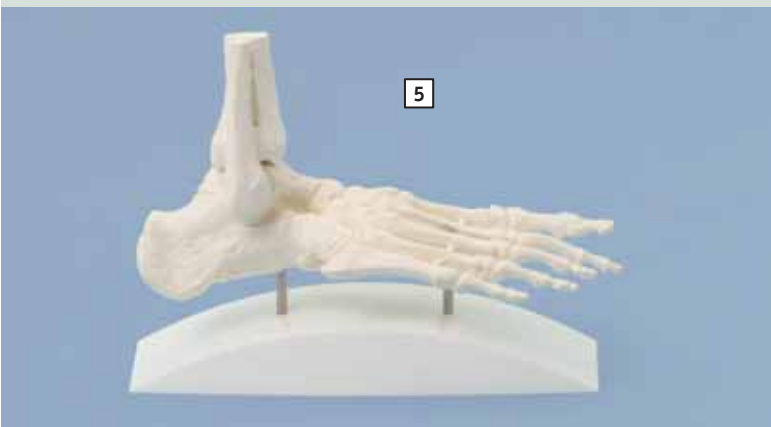
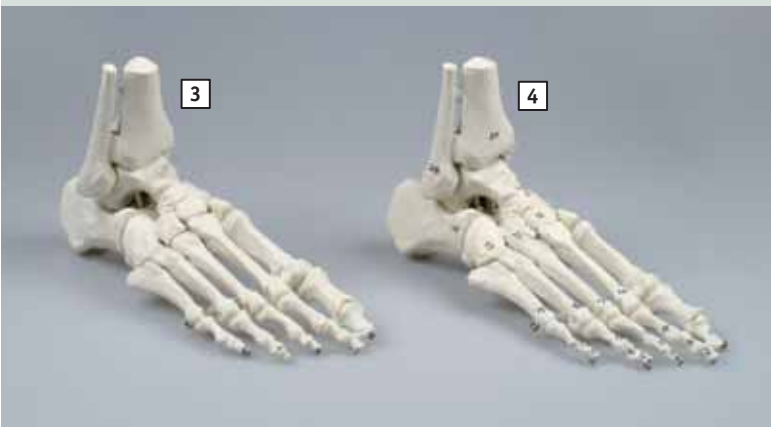
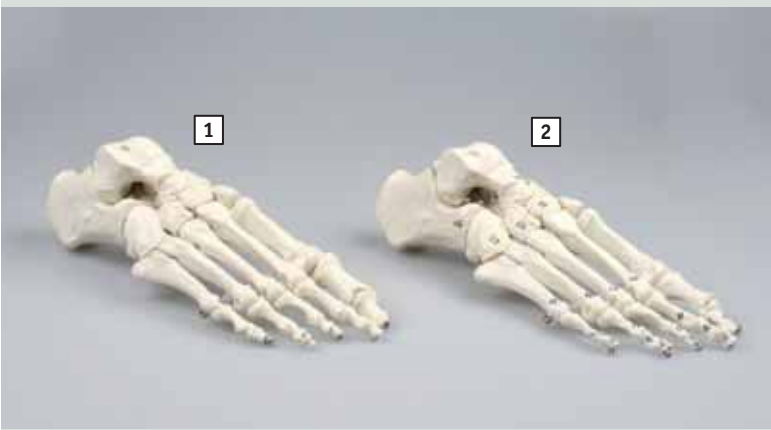
An innovative concept that adds a dynamic component to the study of hand anatomy! Strategically built-in magnets help guide the assembly as students learn about the intricate features of the individual bones and their articulations. All but the medial/distal phalanges are completely separable in this unique Magnetic Hand. Base included.

■ Ref.no. 6005



disassembled





1 Skeleton of foot

Natural casting of a human foot. All bones flexible mounted on wire.

■ Ref.no. 6050

2 Skeleton of foot, numbered

Natural casting of a human foot. All bones flexible mounted on wire. With bone numbering.

■ Ref.no. 6051

3 Skeleton of foot with tibia and fibula insertion

Natural casting of a human foot flexible mounted on wire. With tibia and fibula insertion.

■ Ref.no. 6053

4 Skeleton of foot with tibia and fibula insertion, numbered

Natural casting of a human foot flexible mounted on wire. With tibia and fibula insertion. With bone numbering.

■ Ref.no. 6054

5 Foot, block model, immovable

Natural one-piece casting of a human foot. Representation of all structures and anatomical details. With tibia and fibula insertion.

Particularly economically priced!

■ Ref.no. 6060

6 Skeleton of foot with tibia and fibula insertion, movable mounting

True to life casting of a human foot with tibia and fibular insertion. The foot is movable mounted on rubber and the rolling motion can therefore be demonstrated admirably.

■ Ref.no. 6056

7 Skeleton of foot with tibia and fibula insertion, movable and numbered

True to life casting of a human foot with tibia and fibular insertion. The foot is movable mounted on rubber and the rolling motion can therefore be demonstrated admirably. With bone numbering.

■ Ref.no. 6057 (not pictured)



8 Foot skeleton on Nylon

This foot skeleton is very handy for those who want to study single bones in detail. Because of the loose mounting on nylon wire all bones can be separated and studied individually. Nevertheless they always stay in correct anatomical position within the foot.

■ Ref.no. 6061





◀ **1 Skeleton of leg with half pelvis**

Natural casting of a human leg. Can be dismantled into femur, tibia, fibula and foot. With removable half pelvis.

■ Ref.no. 6068

2 Skeleton of leg

Natural casting of a human leg. Can be dismantled into femur, tibia, fibula and foot. Without removable half pelvis.

■ Ref.no. 6062 (not pictured)

▼ **3 Skeleton of leg with half pelvis and movable foot**

Natural casting of a human leg. Can be dismantled into femur, tibia, fibula and foot. With removable half pelvis. With a foot mounted on rubber band to allow demonstration of the rolling movement.

■ Ref.no. 6069



i Sliding joint in hip, knee and ankle
All natural movements can be demonstrated.



◀ **4 Skeleton of leg with half pelvis and muscle marking**

Natural casting of a human leg. Can be dismantled into femur, tibia, fibula and foot. With removable half pelvis. With marking of the muscle origins and insertion points.

■ Ref.no. 6070

5 Skeleton of leg with muscle marking

Natural casting of a human leg. Can be dismantled into femur, tibia, fibula and foot. Without removable half pelvis. With marking of the muscle origins and insertion points.

■ Ref.no. 6071 (not pictured)

▼ **6 Skeleton of leg with half pelvis and flexible foot, with muscle marking**

Natural casting of a human leg. Can be dismantled into femur, tibia, fibula and foot. With removable half pelvis. With marking of the muscle origins and insertion points. With a foot mounted on rubber band to allow demonstration of the rolling movement.

■ Ref.no. 6072





1 Foot skeleton with tendinous apparatus

Life size foot skeleton with representation of the tendinous apparatus with related muscles. All bones of the foot as well as start of tibia and fibula are represented separately. The following muscles with tendons are present: Flexor digitorum longus muscle, Posterior tibial muscle, Flexor hallucis longus muscle, Peroneus longus muscle, Peroneus brevis muscle, Extensor hallucis longus muscle, Extensor digitorum longus muscle, Tibialis anterior muscle, Superior fibular retinaculum, Inferior extensor retinaculum of foot, Soleus muscle and Flexor digitorum brevis muscle. With removable stand and Key Card in Latin, German and English.

■ Ref.no. 6052

NEW!

3 Foot skeleton with ligaments

This model is mounted on wire and shows the important ligaments of the foot as overview.

Size: 25 x 8 x 20 cm, Weight: 0.5 kg

■ Ref.no. 6058



4 Neuro Foot

Life size model of the right foot with all major nerves depicted, shown on both dorsal and plantar surfaces. Foot can be removed and placed on the stand upside down to facilitate viewing of the plantar surface. Mounted on a stand with keycard.

Size: 22 x 15 x 25 cm

■ Ref.no. M28

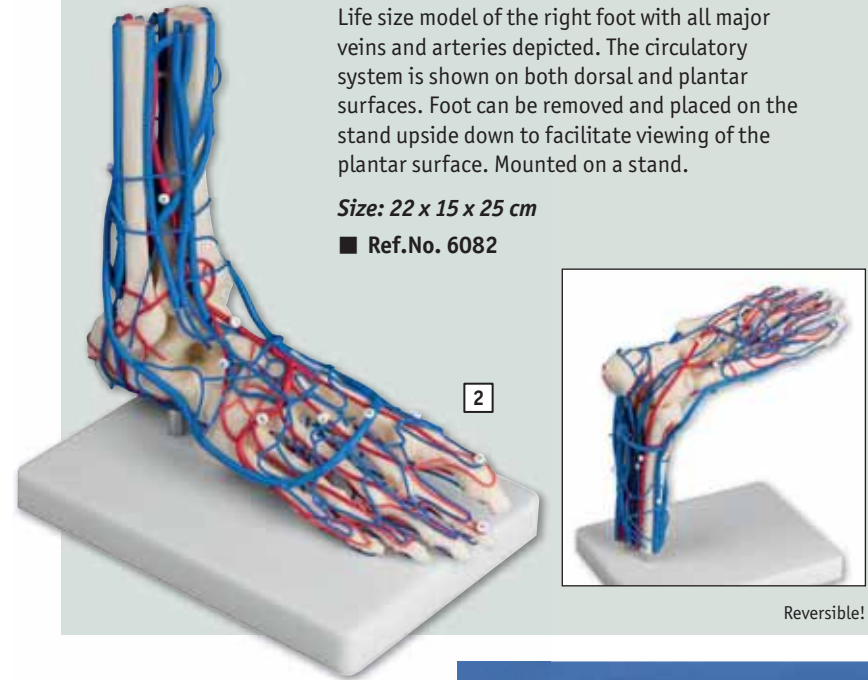


2 Vascular Foot

Life size model of the right foot with all major veins and arteries depicted. The circulatory system is shown on both dorsal and plantar surfaces. Foot can be removed and placed on the stand upside down to facilitate viewing of the plantar surface. Mounted on a stand.

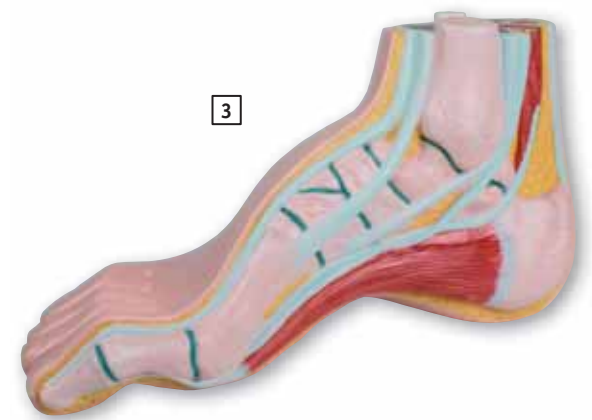
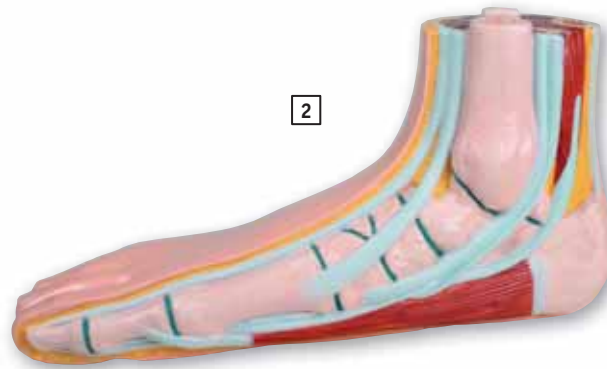
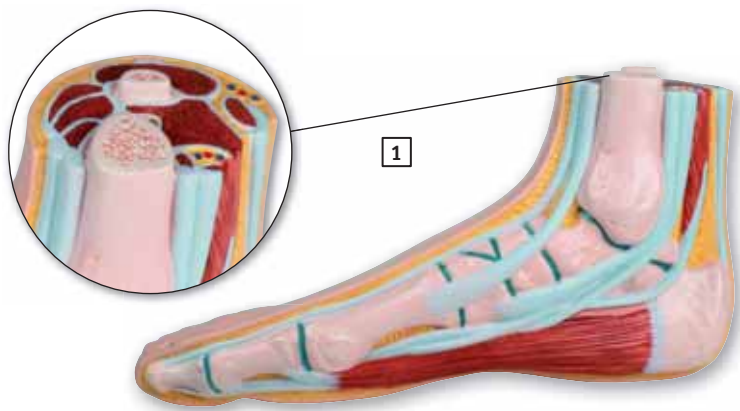
Size: 22 x 15 x 25 cm

■ Ref.No. 6082



Reversible!

Reversible!



Foot Model Series

This life size model of a right human foot is medially opened and shows bones, joints, ligaments, fatty tissue and muscles. The start of lower leg is also represented as cross-section and shows tibia and fibula as well as the corresponding muscles, ligaments, vessels and fatty tissue.

Size: 26 x 10.5 x 13.5 cm, Weight: 0.6 kg

1 Normal foot

■ Ref.no. M230

3 Hollow foot, pes cavus

■ Ref.no. M232

2 Flat foot, pes planus

■ Ref.no. M231



4 Miniature feet set

Reproduction of normal foot, flat foot and arched foot in about half life size. The models are cut open on the side and on the start of the lower leg, they show bones, muscles and ligaments. Scaled down reproduction of models M230, M231 and M232. Only available as set.

Size of normal foot: 12 x 5 x 6 cm, Weight: 0.6 kg

■ Ref.no. M233

5 Human Magnetic Foot, Right

An innovative concept that adds a dynamic component to the study of foot anatomy! Strategically built-in magnets help guide the assembly as students learn about the intricate features of the individual bones and their articulations. All but the phalanges are completely separable in this unique Magnetic Foot. Base included.

■ Ref.no. 6009



disassembled



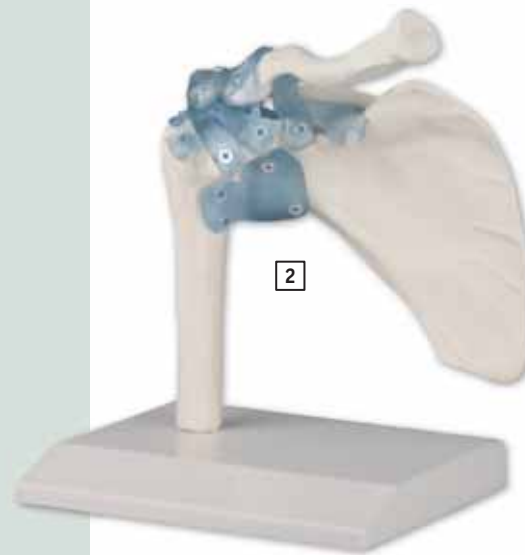


1

1 Knee joint with ligaments

Natural casting of a human knee joint. With stumps of femur and lower leg. The insertion tendons of the straight muscle of the thigh, kneecap with patellar tendons, lateral ligaments, menisci and cruciate ligaments are manufactured from elastic synthetic material. The principal movements of the knee joint, such as flexion and extension and outer and inner rotation can be demonstrated. With removable stand.

■ With removable stand Ref.no. 4552



2

2 Shoulder joint with ligaments

Natural casting of a human shoulder joint. Shoulder girdle (shoulder blade and clavicle) with upper arm stump. The principal ligaments, such as the coracoacromial ligament, coracohumeral ligament and transverse ligament of the scapula are represented in addition to sections of the joint capsule. The main movements of the shoulder joint, such as anteversion, retroversion, outer and inner rotation and abduction can be demonstrated. With removable stand.

■ Ref.no. 4550



3

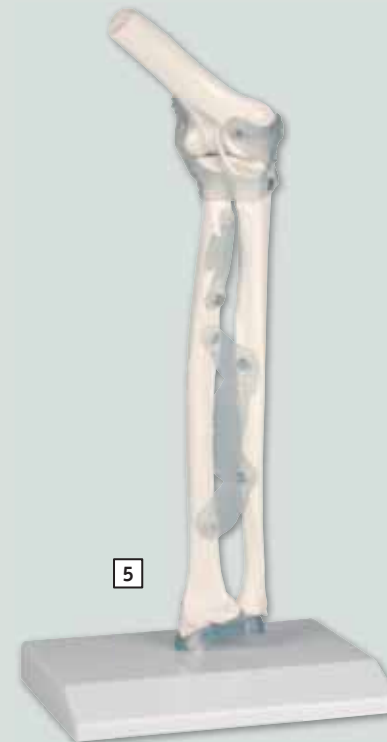
3 Hip joint with ligaments

Natural casting of a human hip joint. The femoral stump is retained in the hip joint by the ligamentary apparatus. The ligamentary apparatus with the iliofemoral ligament, ischiofemoral ligament and pubofemoral ligament allow demonstration of the movements of the hip joint. Flexion and retroversion (extension), abduction and adduction and to a certain extent also outer and inner rotation. With removable stand.

■ Ref.no. 4553

4 With stand and sacrum

■ Ref.no. 4554

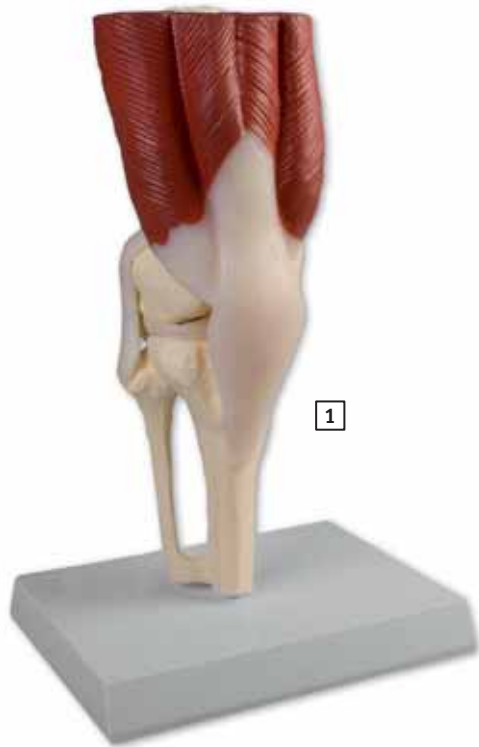


5

5 Elbow joint with ligaments

Natural casting of a human elbow joint. Upper arm stump, radius and ulna. The ligamentary apparatus and the interosseous membrane are manufactured from elastic material. The model allows demonstration of the movements of the elbow joint such as flexion and extension, in addition to the rolling movement of the bones of the lower arm during pronation and supination. With removable stand.

■ Ref.no. 4556

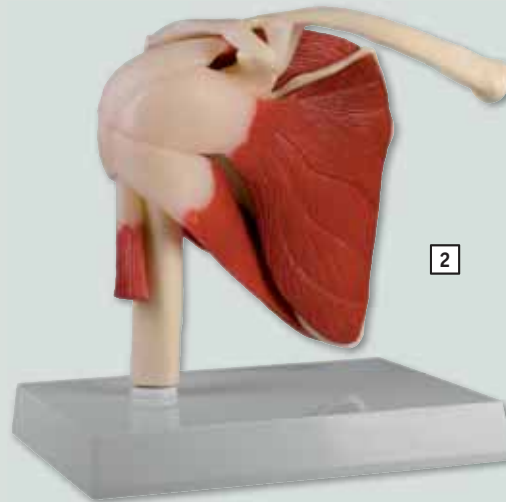


▲
**1 Knee Joint,
life size, with muscles**

Human knee joint in life size with all important muscles and ligaments (collateral ligaments, meniscus, crucial ligaments, patellar tendon). The joint is not movable. With educational card German/English. On stand.

Size: 8 x 8 x 24 cm, Weight: 0.8 kg

■ Ref.no. 4662

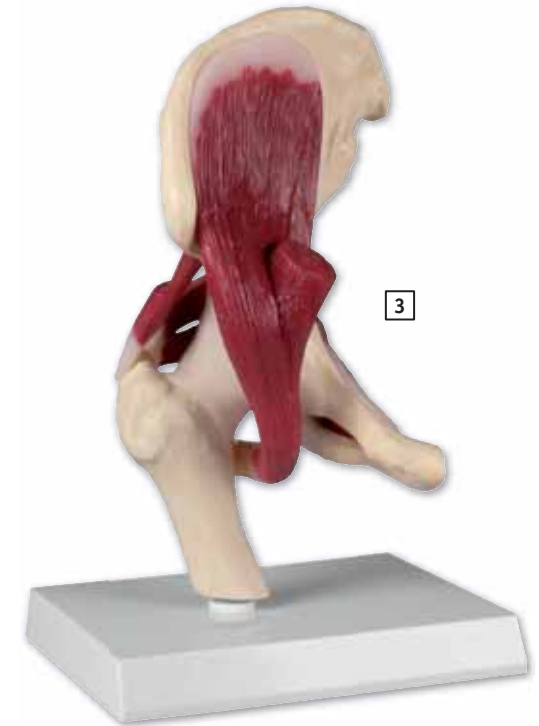


▲
**2 Shoulder Joint,
life size, with muscles**

Human shoulder joint in life size with rotator cuff (Supraspinatus, infraspinatus, teres minor, teres major and subscapularis muscle) as well as the biceps brachii tendon. The joint has a limited movability. With educational card German/English. On stand.

Size: 17 x 15 x 12 cm, Weight: 0.8 kg

■ Ref.no. 4661

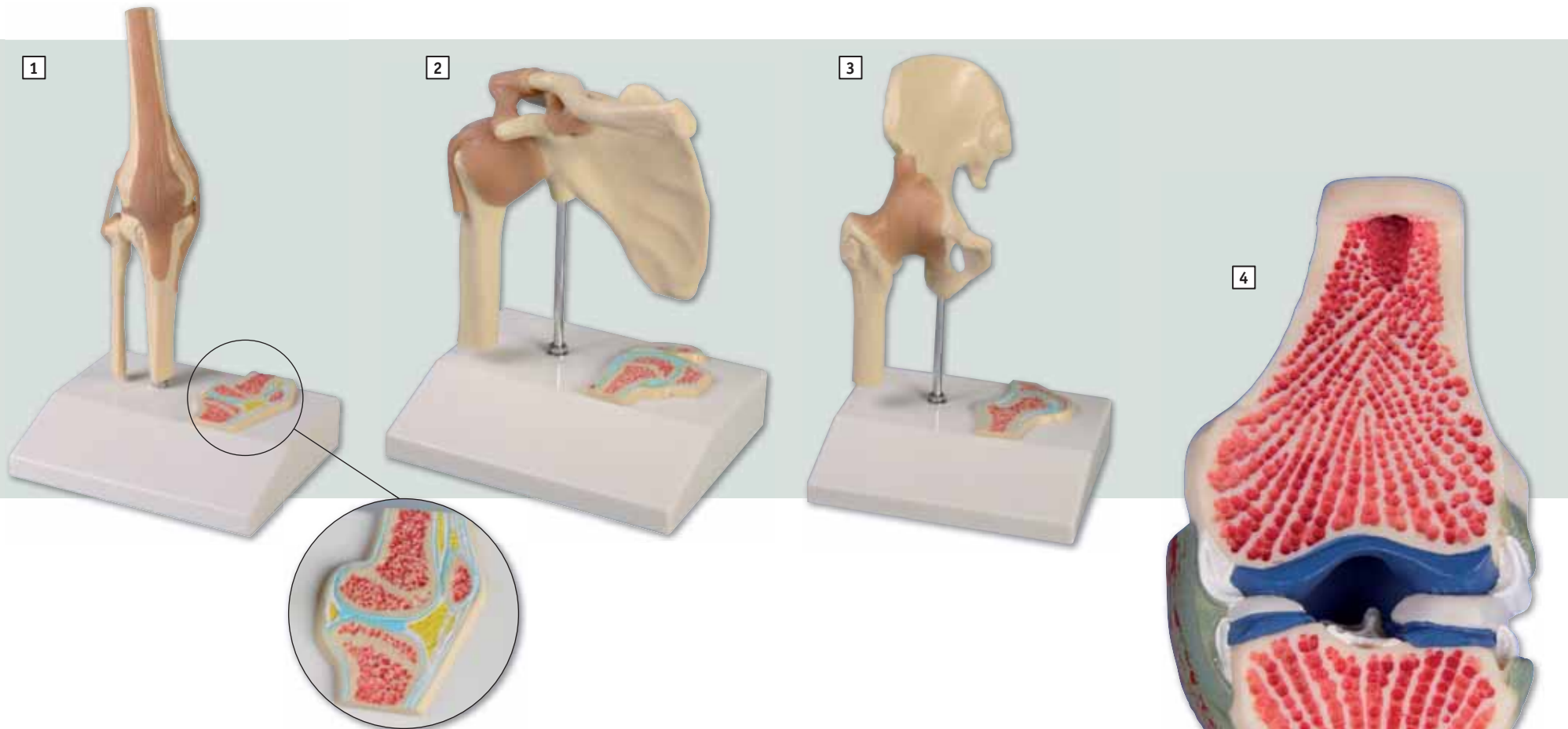


▲
**3 Hip Joint,
life size, with muscles**

Human hip joint in life size with all important muscles and ligaments. The joint has a limited movability. With educational card German/English. On stand.

Size: 13 x 13 x 24 cm, Weight: 0.7 kg

■ Ref.no. 4663



1

2

3

4

▲ Miniature joints with cross section

These joint models in about ½ life size show the structures of the joint as well as the major ligaments. The inner structures can be explained with the cross section mounted on the base of the model.

1 **Knee joint** Size: 12 x 10 x 20 cm Weight: 0.15 kg

■ Ref.no. 4522

2 **Shoulder joint** Size: 12 x 10 x 15 cm Weight: 0.17 kg

■ Ref.no. 4520

3 **Hip joint** Size: 12 x 10 x 18 cm Weight: 0.18 kg

■ Ref.no. 4523

4 Longitudinal section- model knee ▶

Frontal longitudinal section of the human knee joint. The bone structure, meniscuses, joint cartilage, synovial membrane and articular ligaments are represented in colour. Natural size.

Size: 19 x 8 x 4 cm, weight: 0.3 kg

■ Ref.no. 4570

rear view



▼ 1 Knee-Implant-Model

This impressive model shows three scaled down knee models. In addition to the healthy knee this model shows a diseased knee as well as a knee with knee implant. All models are movable, upper and lower leg can be separated. Supplied on Plexiglas stand.

Size: 34 x 11.5 x 16 cm, Weight: 0.4 kg

■ Ref.no. 1125

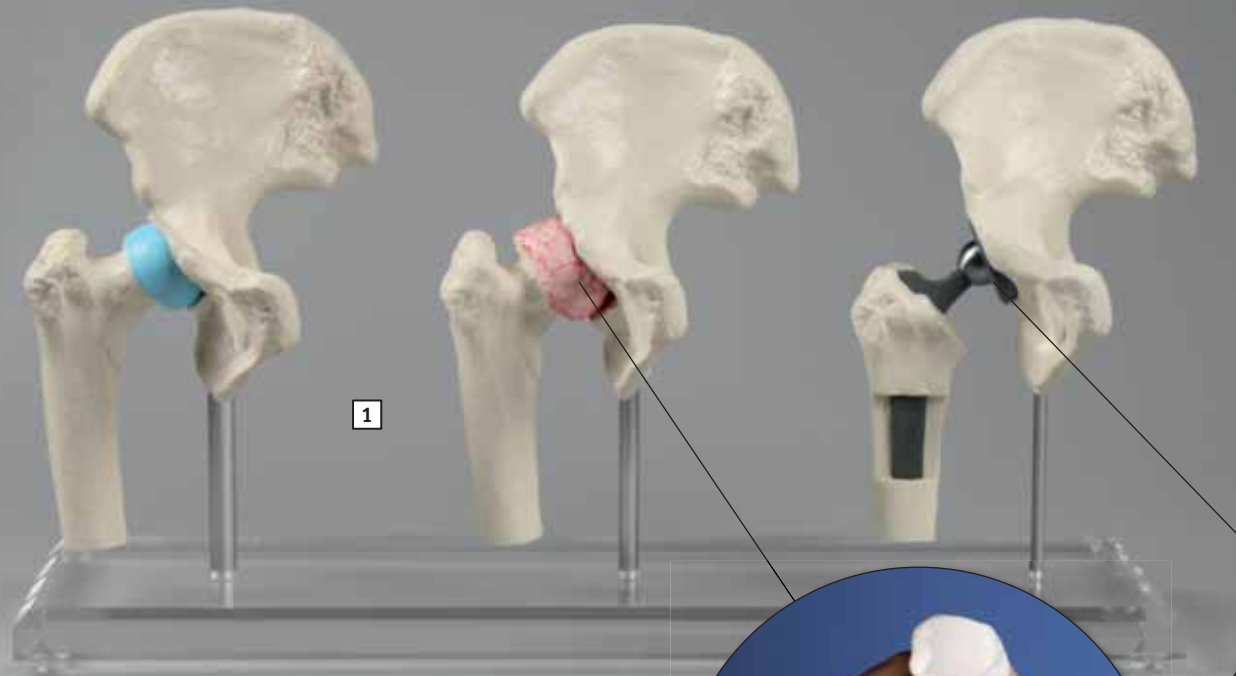


All models are movable,
can be removed and
disassembled!



1





1 Hip-Implant-Model

This impressive model shows three scaled down hip models. In addition to the healthy hip this model shows a diseased hip as well as a knee with hip implant. All models are movable, pelvis and femur can be separated, the implant can be removed from the femur. Supplied on plexiglass stand.

Size: 34 x 12 x 19 cm, Weight: 1.1 kg

■ Ref.no. 1115

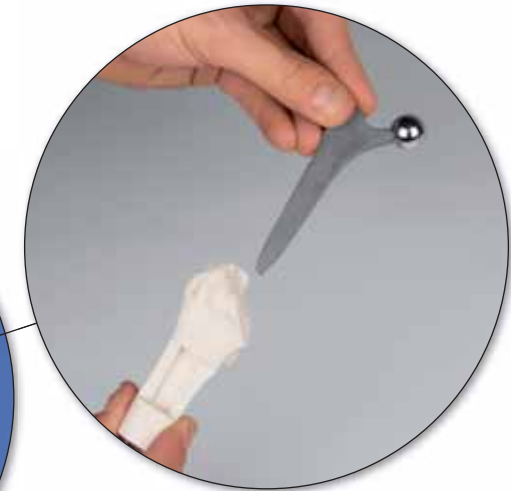
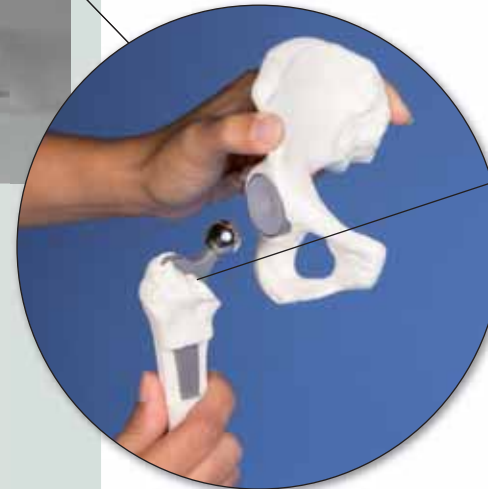


2 Hip joint with resurfacing implant

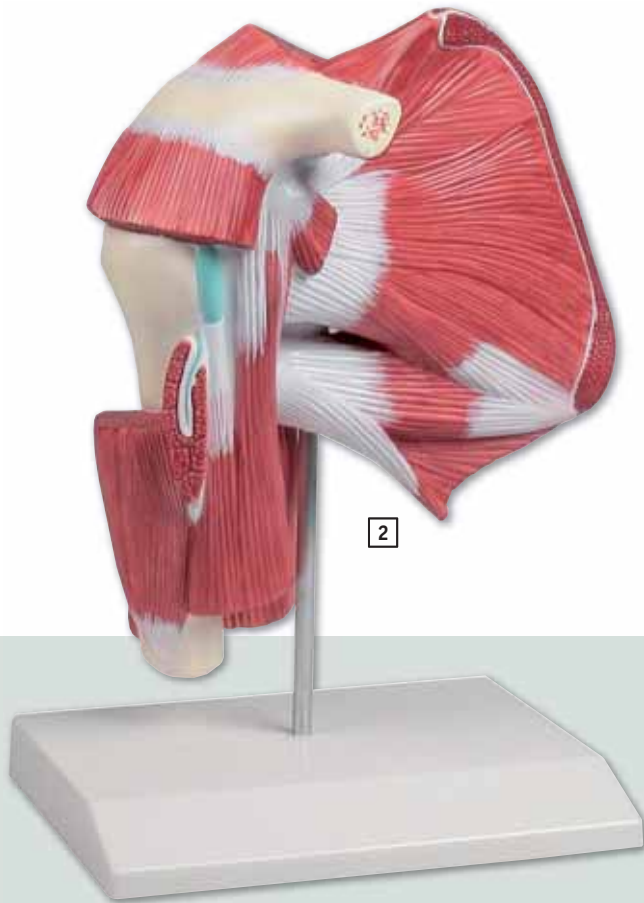
This hip joint in life size shows a "Birmingham Hip". The implants can be removed to allow the doctor to explain the function to the patient. The model can easily be removed from the stand and disassembled. Comes on Plexiglass stand.

Size: 16 x 13 x 29 cm, Weight: 0.9 kg

■ Ref.no. 1118



All models can be removed and disassembled!



2 Model of Shoulder with Deep Muscle

This model illustrates in great details the muscles, ligament and bones of the shoulder. Through different muscles section it is possible to observe the profound musculature as far as to the bone. Life size model in on piece.

Size: 23 x 19 x 11 cm, Weight: approx. 0.4 kg

■ Ref.no. 4569

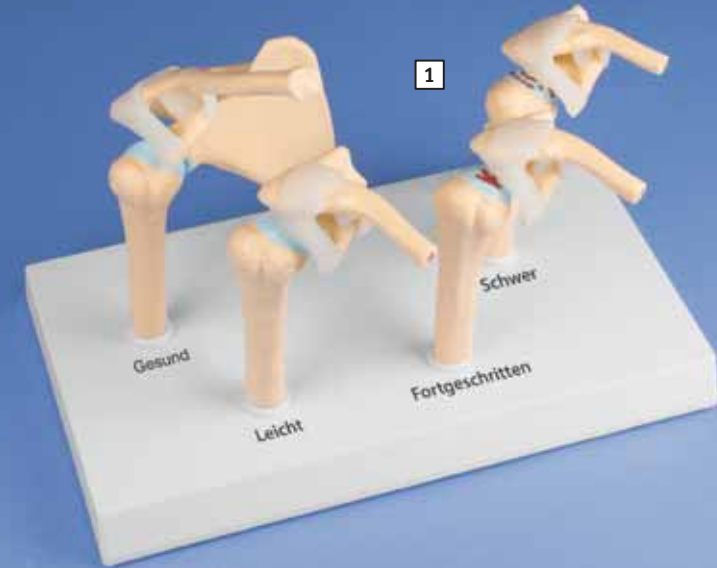
1 4-stage Osteoarthritis (OA) Shoulder

Set of four shoulder models, reduced size, illustrating degenerative joint disease (osteoarthritis) of glenohumeral joint: erosion to joint articular cartilage, progression of degenerative disease, osteophyte (bone spur) formation at the articular surfaces, and humeral head flattening. Normal stage includes a full scapula. Advanced stage shows acromioclavicular joint osteoarthritis. All stages show ligaments.

Size: 27 x 15 x 15 cm, Weight: 0.7 kg

Single model size: 13 cm

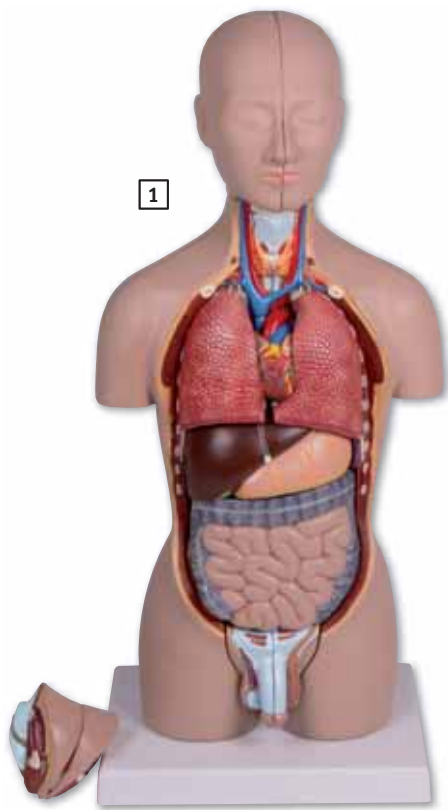
■ Ref.no. M27



3 Knee model with endoprosthesis

This life size knee model is made of transparent plastic and shows graphically the position and function of a knee endoprosthesis. The reproduced prosthesis can be removed and replaced from the model, allowing to explain the procedure very clearly during patient education and preparation of operation. The Endoprosthesis is made of metal and almost corresponds to a real prosthesis in weight and size. Due to the transparent bones the position and function of the prosthesis is clearly visible.

■ Ref.no. 4449



1 Miniature torso, 16-part, dual sex

Reproduction of a human torso in about half life size. Perfect for use as desktop model or for studying the basic anatomy.

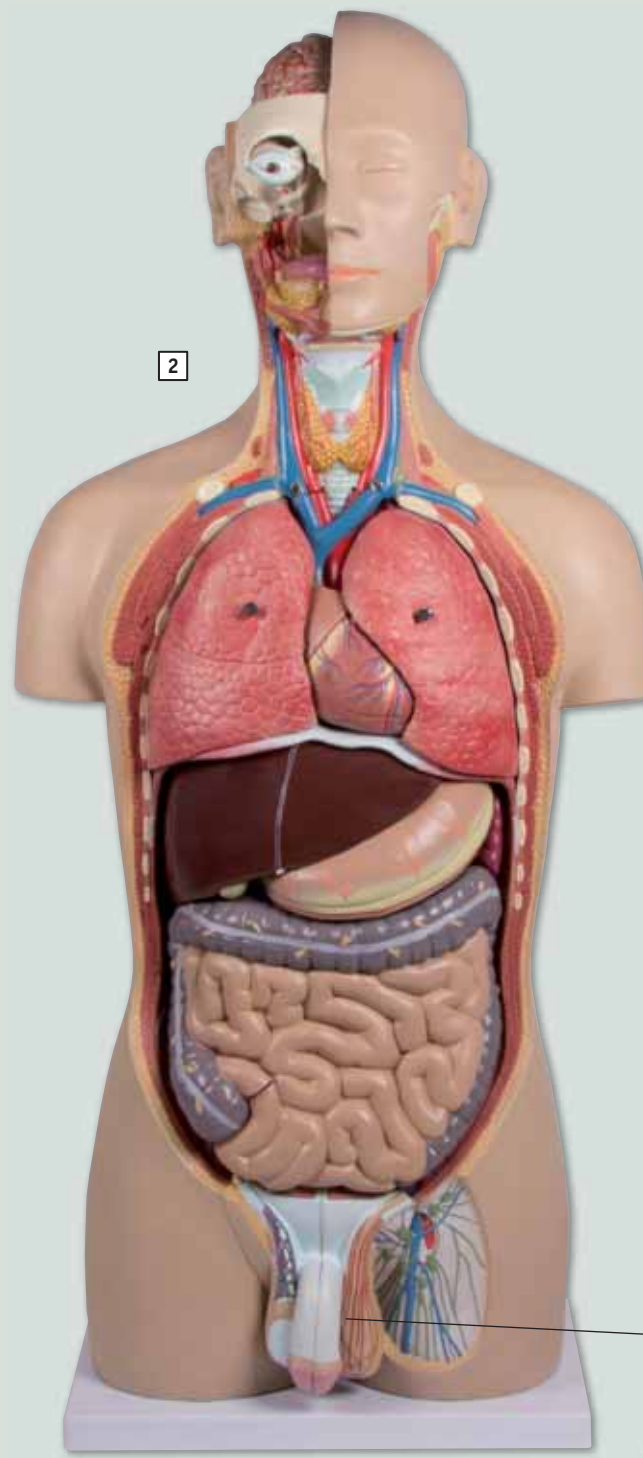
The model consists of the following parts:

- Basic body
- Two head halves, one with removable brain
- Two lung halves
- Heart, dissectible in two parts
- Stomach
- Liver
- Intestines with removable caecum cover
- Female genital organs, two part
- Male genital organs, two part

The model is supplied on base with manual.

Size: 19 x 14 x 43 cm

■ **Ref.no.** B223



2 Torso with open back, 27-part, dual sex

A complete life size torso with open back, composed of 27 parts that provide the most important organs and anatomical structures in the human body. The head is sectioned to expose the skull, brain, mouth and throat region as well as the eye. In addition, the neck is dissected to expose larynx, thyroid and cervical vessels. The thorax and abdomen are completely open; all internal organs can be removed and are partly dismantable. Separate male and female urogenital systems fit interchangeably into the main portion of the torso. The open back exposes muscular layers and the vertebral column, the spinal nerves as well as a removable vertebrae with spinal cord.

The model is dissectable in the following parts:

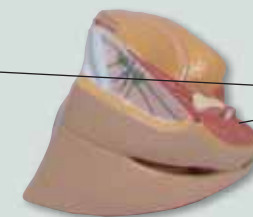
- torso
- half of the brain
- eye
- left lung, two parts
- right lung, two parts
- heart, two parts
- trachea
- esophagus
- liver
- stomach, two parts
- pancreas, duodenum and spleen
- half of one kidney
- intestines
- ilio-cecal valve
- female urogenital systems, 4 parts
- male urogenital systems, 4 parts
- thoracic vertebrae

Mounted on base.

Size: 88 x 40 x 23 cm, **Weight:** approx. 10.4 kg

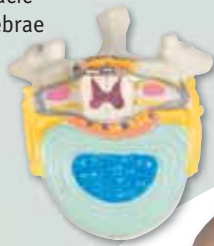
Supplied with CD human torso guide

■ **Ref.no.** B235



**Interchangeable
genitals!**

Thoracic vertebrae



Half of Brain



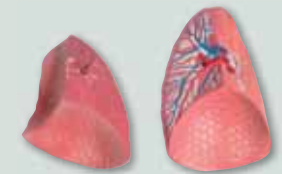
Eye



Bronchial tree



Lung



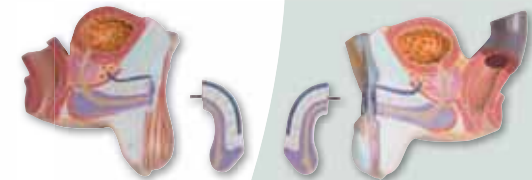
Esophagus, Aorta



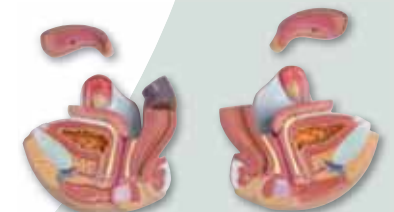
Heart, 2-parts



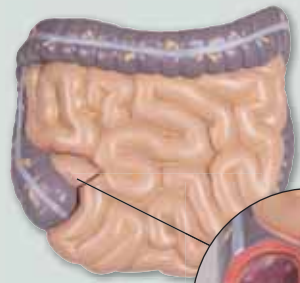
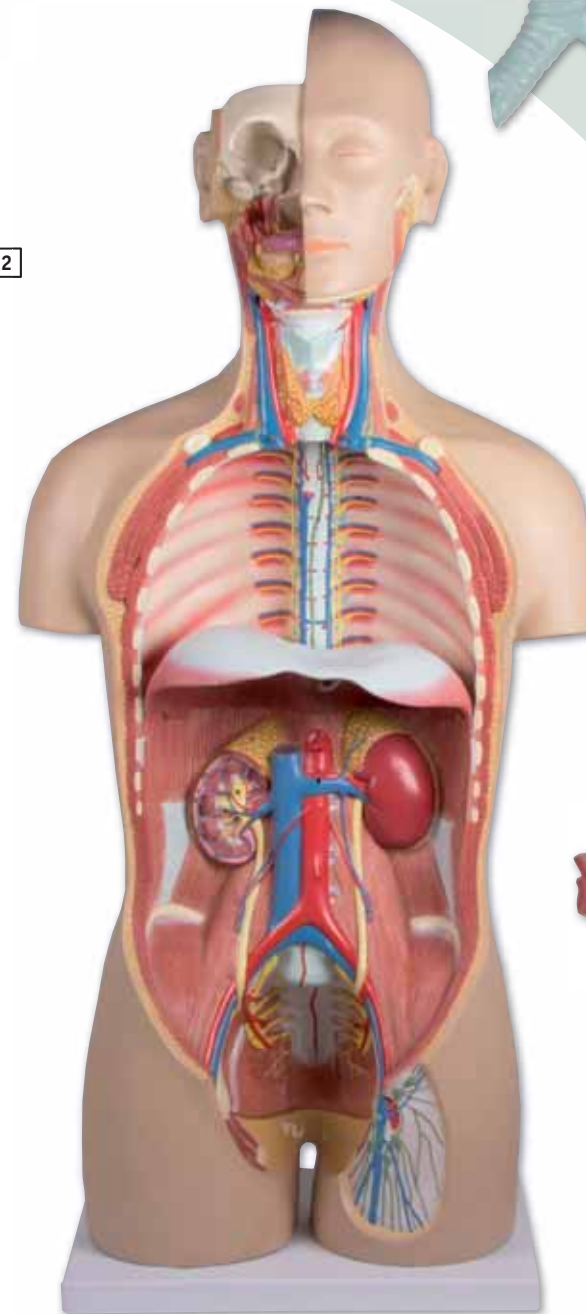
Male urogenital systems



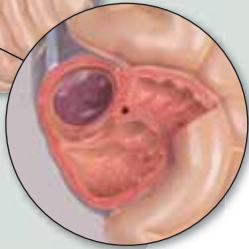
Female urogenital systems



2



Intestine



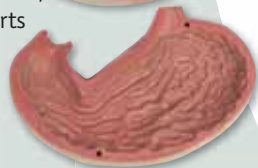
Liver



Half of Kidney

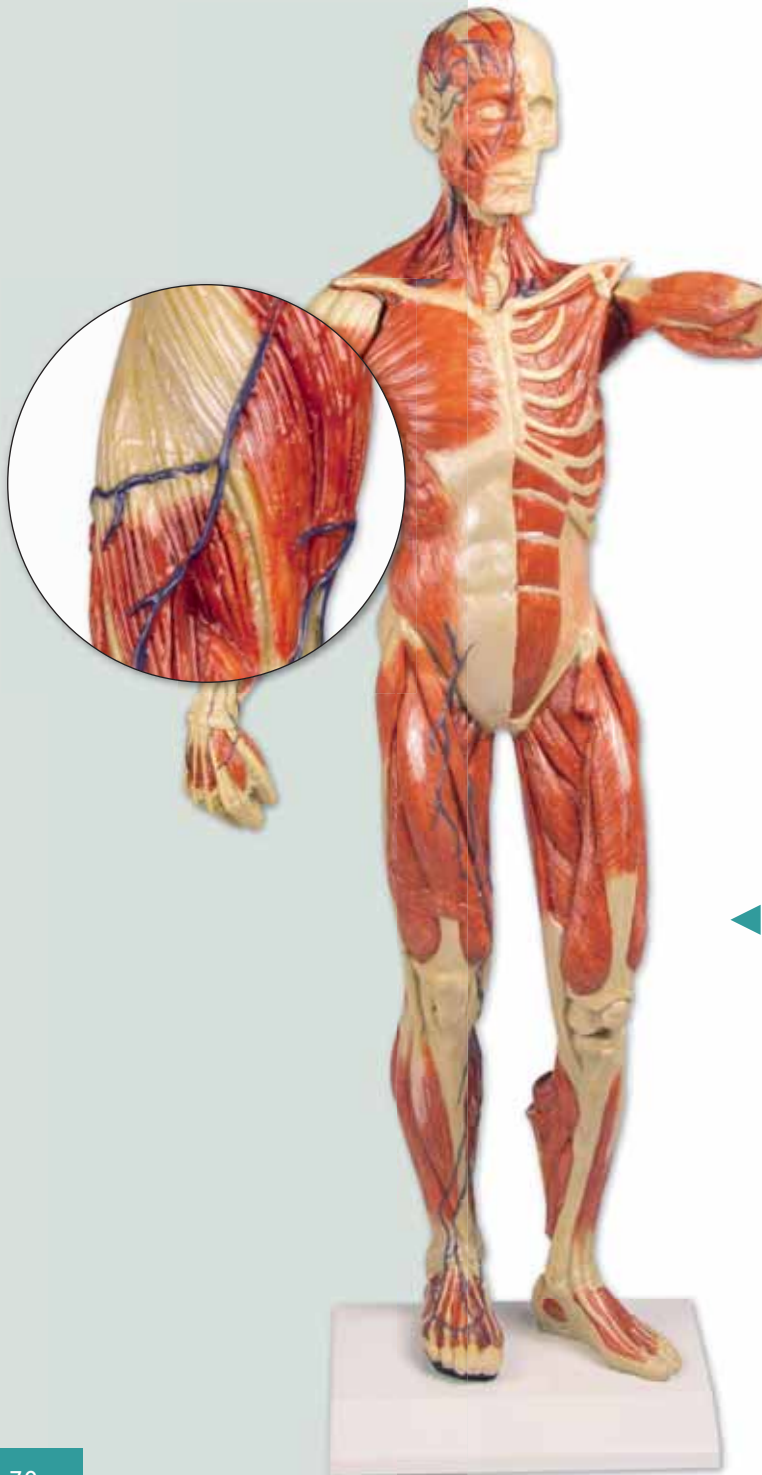


Stomach, 2-parts



Pancreas, Duodenum, Spleen





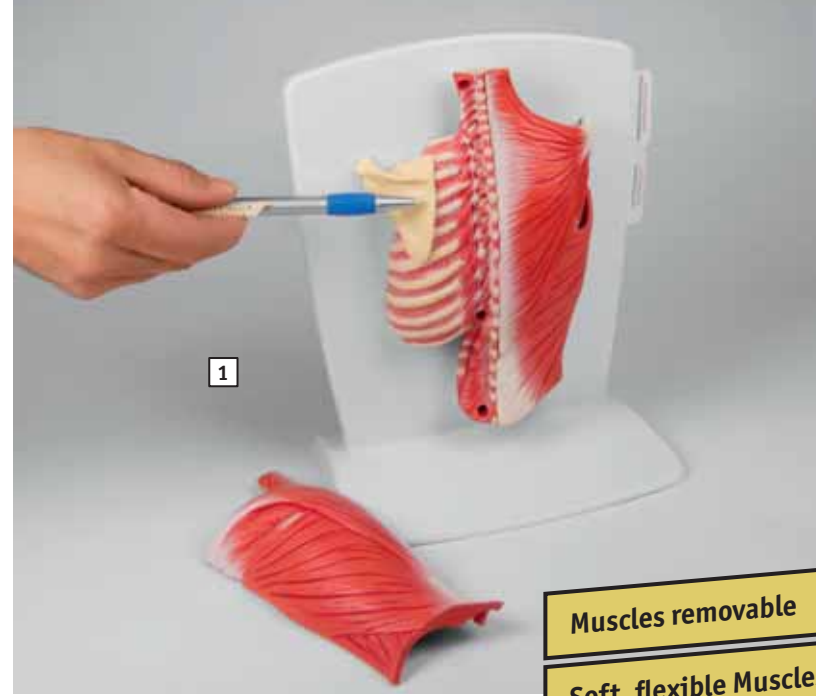
1 Muscular figure, 1/3 life size

This muscular figure has extraordinary fine structures and a very detailed painting. On one side it shows the superficial musculature, on the other side the deep muscles. Both arms are detachable. Important superficial vessels are also represented. Perfect as tool for patient education, also for sports and fitness studios as well as for physio therapy. Heavy premium quality.

Size: appr. 62 cm, **Weight:** 5.1 kg

■ **Ref.no.** B90





Muscles removable
Soft, flexible Muscles



1



1 Back Muscle Model

An invaluable tool for physicians who wish to discuss back pain with their patients, this back muscle model is designed for interaction and education. Soft and flexible, the superficial and intermediate muscle layers are removable and expose the deep muscles, making the understanding of anatomical relationships an easy, interactive experience. Two pullout cards give information on the muscles.

Size: 22 x 27 x 16 cm, Weight: 1.1 kg

Ref.no. M290





1 Arm Muscles, 7-part

This life size model shows the musculature of the human arm in detail. It shows superficial and deep muscle structures, vessels, nerves and ligaments. The model shows hand, lower and upper arm as well as shoulder girdle.

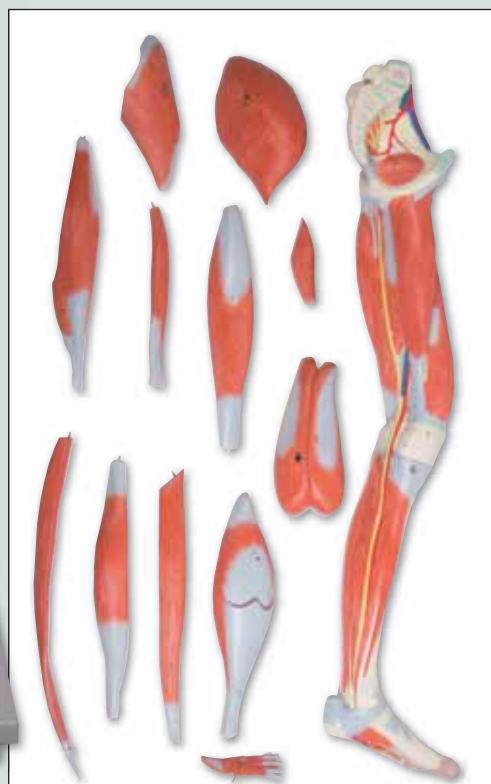
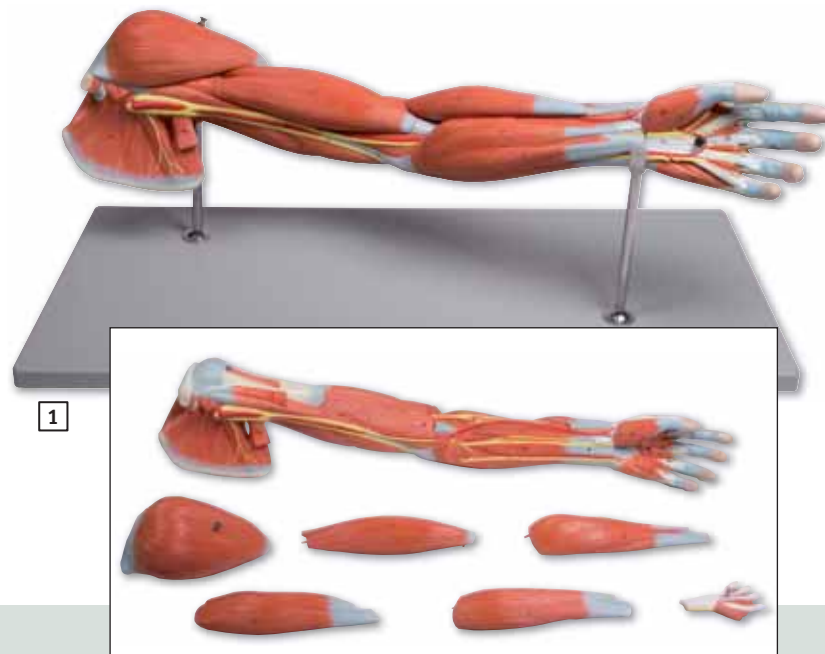
Single muscles can be removed for closer study:

- Palmar aponeurosis
- Brachioradial muscle with radial extensor muscle
 - Long palmar muscle with radial flexor muscle
 - Triceps muscle
 - Biceps muscle
 - Deltoid muscle

Supplied with stand and manual.

Size: 72 x 18 x 10 cm, Weight: 3.8 kg

■ Ref.no. M211



2 Leg muscles, 13-part

This life size model shows the musculature of the human leg in detail. It shows superficial and deep muscle structures, vessels, nerves and ligaments. The model shows foot, lower and upper leg as well as a half pelvis.

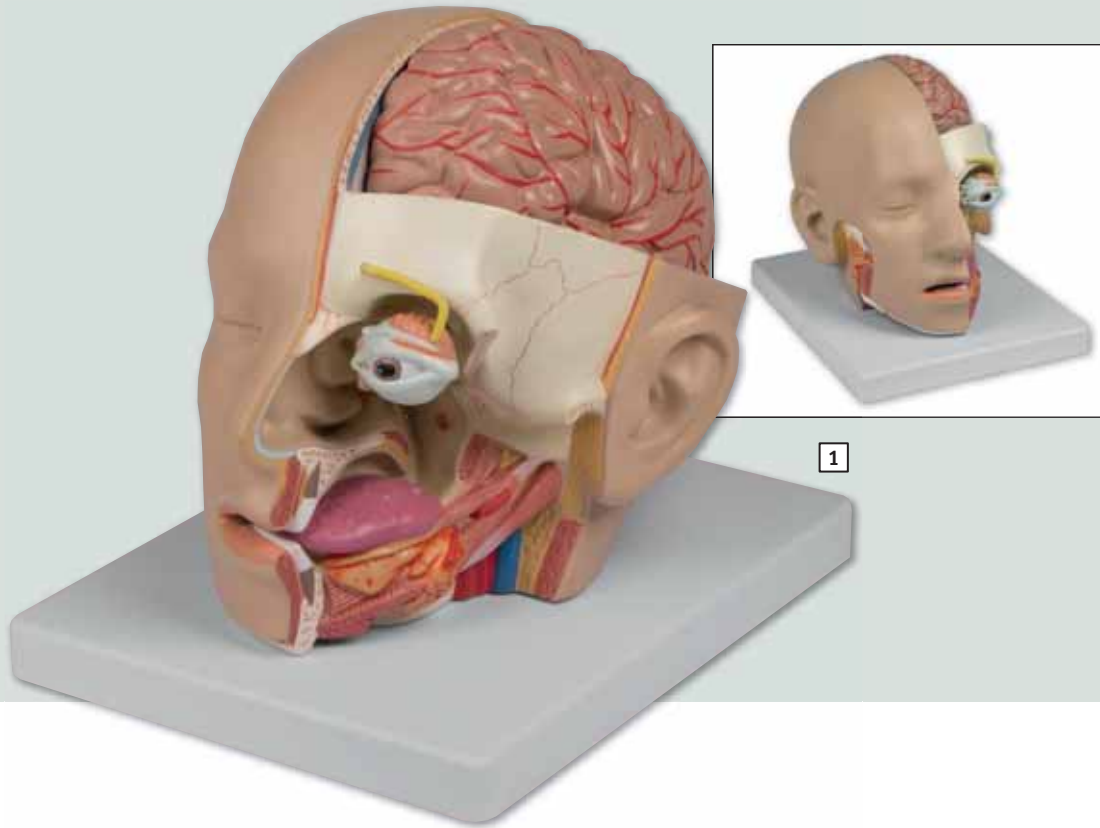
Single muscles can be removed for closer study:

- Tensor fasciae latae
- plantar aponeurosis
- Extensor digitorum longus
- Rectus femoris
- Semitendinosus and semimembranosus
- Gracilis
- Gluteus medius
- Gastrocnemius
- Soleus
- Gluteus maximus
- Long head of biceps
- Sartorius

Supplied with stand and manual.

Size: 103 x 19 x 17 cm, Weight: approx. 9.7 kg

■ Ref.no. M220



1 Head model, 4 parts

Life size model of a human head in 4 parts. The left side of the face is dissected in sagittal and horizontal section, showing many features of the skull and brain, as well as the oronasal cavity.

Removable parts are:

- Half brain, features the structures of the cerebrum, including arteries
- Half of the cerebellum
- Eye with optic nerve

Mounted on base.

Size: 21 x 15 x 16 cm, Weight: approx. 1 kg

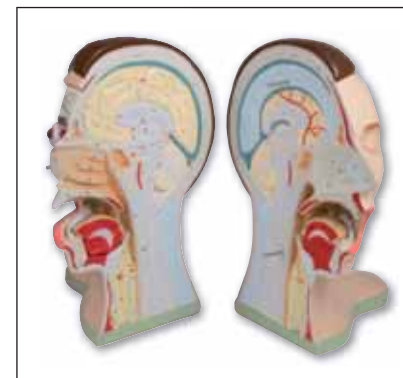
■ Ref.no. C250

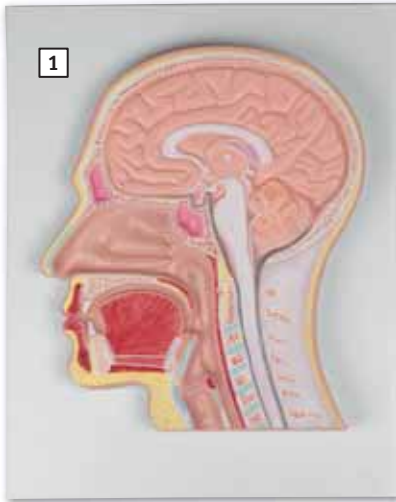
2 Head and Neck, 5-part

Representation of a head, medially divided. The skin and facial muscles of the right outer half are removed to show the deeper structures. Eyeball, bone cover over the sinus maxillaries and right tongue half are removable.

Size: 38 x 40 x 28 cm

■ Ref.no. C60





◀ **1 Median section of the head (relief model)**

Representation of the superficial and the internal structures of the head. This relief model shows all structures of the human head in life size. Mounted on board.

Size without board: 24 x 20 x 2 cm, Weight: approx. 1.1 kg

■ Ref.no. C212

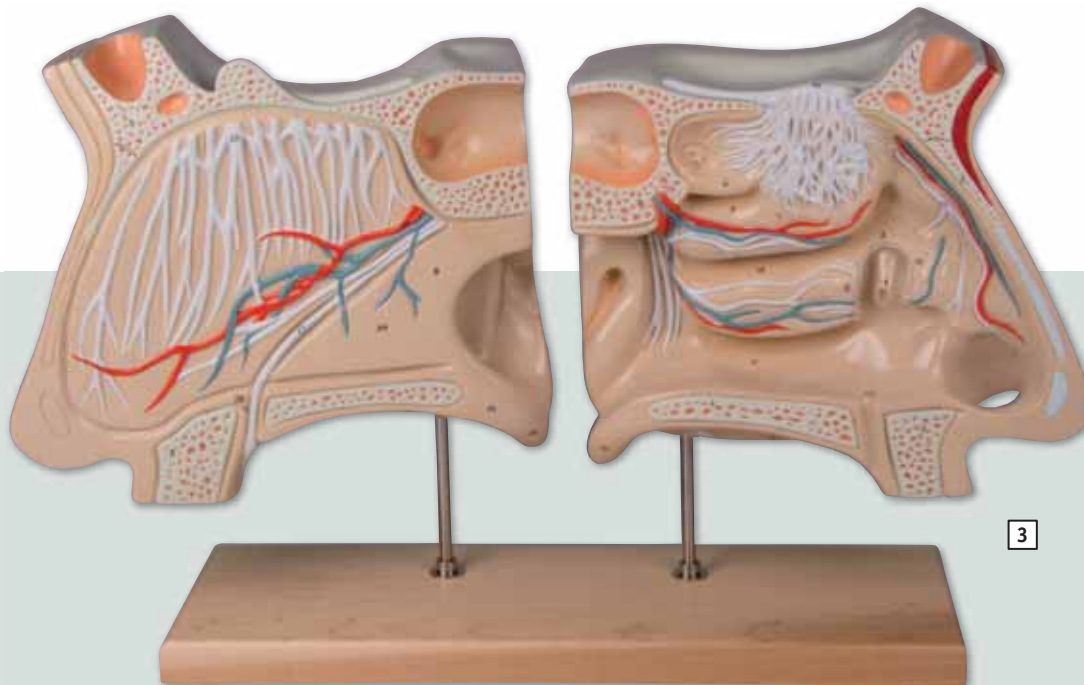


▲ **2 Frontal and median section of the head (relief model)**

Representation of the superficial and deep structures of the head. The comparison between both sections provides understanding of the anatomical relations of the head. Mounted on board.

Size: 55 x 35 x 3 cm, Weight: approx. 2 kg

■ Ref.no. C213



◀ **3 Nose and Olfactory organ, 4 times life size**

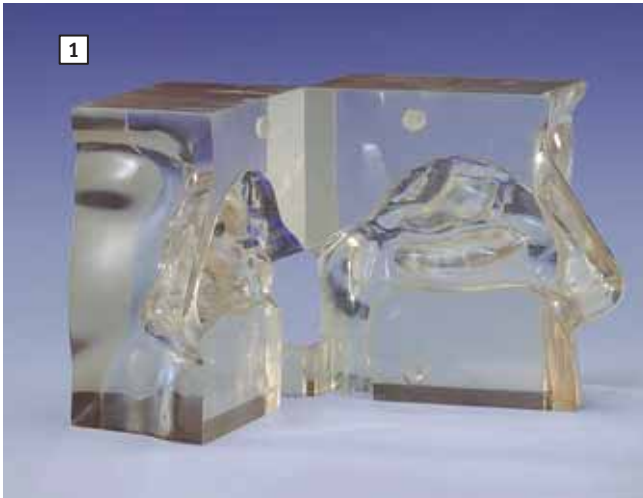
The nose halves are medially divided, from the base of the skull to the gum.

Shown are:

- Nose septum with vessels and nerves (right side)
- All structures of the inner nasal cavity (left side)
- Sinus and the opening of the Eustachian tube (left side)

Parts are numbered and the model is mounted on a wooden base.

■ Ref.no. C70



1

1 Transparent model nose

Using this transparent model, it is possible to understand at a glance and explain simply the complex structure of the nasal cavities. The three-part model can be taken apart (two halves and a dividing plate). A versatile model for patient information or medical training. The model is flexible and can be used for the most diverse exercises. Very good also for planning of surgery.

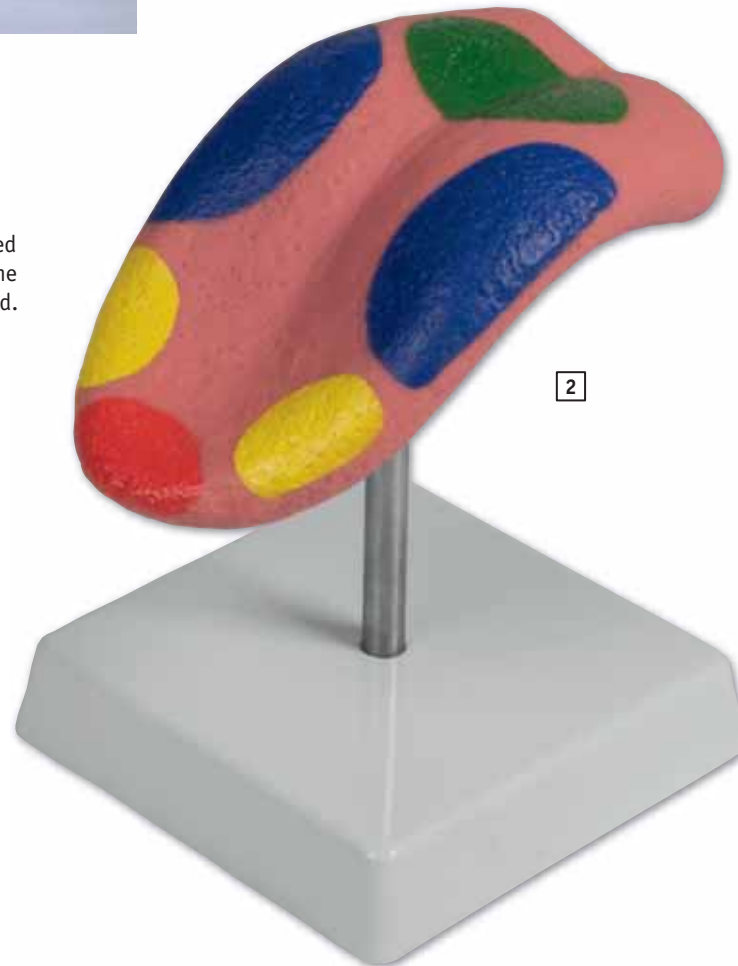
■ Ref.no. LM05

2 Tongue Model

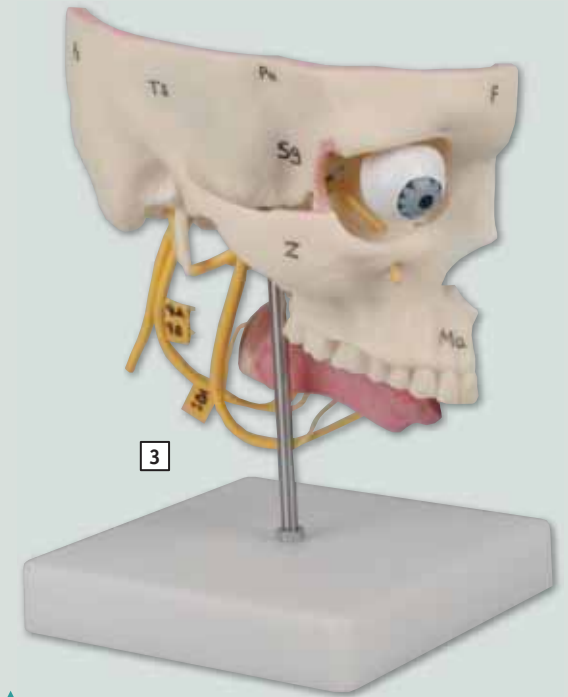
This simple Tongue Model shows the generalised areas of taste bitter, sweet, sour and salty of the human tongue. Supplied on stand with key card.

Size: 16.5 x 12.5 x 14 cm

■ Ref.no. C67



2



3

3 Special Senses

A unique model specifically designed to aid understanding of the five special senses – sight, smell, taste, hearing, balance – with their related nerves. A life-size skull with removable eye and sectioned tongue. Portions of the skull are sectioned to ensure every important nerve is shown and the trigeminal nerve is flexible to allow exposure of the underlying petrosal nerve. Component bones are identified. The model is complete with an 18 minute lecture on Audio-CD and key card.

Size: 19 x 15 x 15 cm

■ Ref.no. C78



rear view



1



1 Functional and regional brain model, life size, 5 parts

This life-size brain model shows the major anatomical landmarks and cortical areas of the brain in carefully painted color. The right half is painted to show the four lobes of the brain: parietal, temporal, occipital, and frontal. The left half comes apart in four pieces- the frontal and parietal, the temporal and occipital, the brainstem, and the cerebellum. It is painted to show 5 cortical areas of the brain: the primary motor cortex, the sensory cortex, the visual cortex, Broca's area (motor/speech), the auditory cortex, and Wernicke's speech area. This model also fits in most of our current skull models (e.g. 4500 and 4708) and the falx cerebri model C925. With Key Card.

■ Ref.no. C922



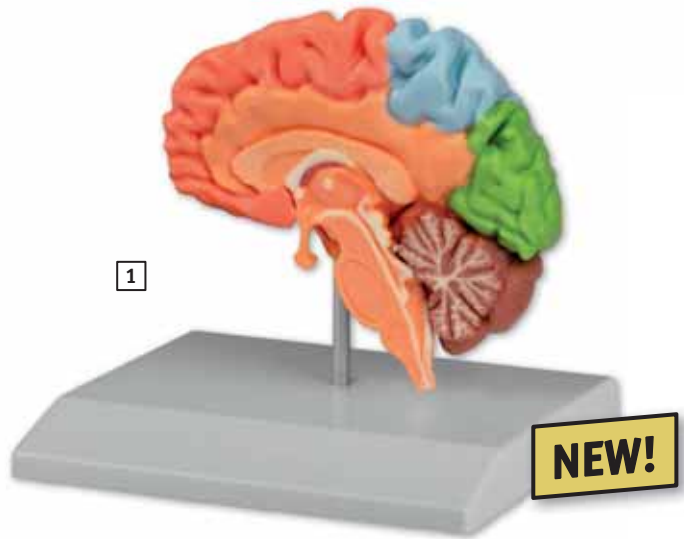
2



2 Anatomical brain model, life size, 5 parts

This life-sized brain model is carefully painted in realistic color depicting the major anatomy of the brain. The left half comes apart in four pieces- the frontal and parietal, the temporal and occipital, the brainstem, and the cerebellum. The brainstem includes the trigeminal nerve (V), abducens nerve (VI), vestibulocochlear nerve (VIII), facial and intermediate nerves (VII), trochlear nerve (IV), olfactory nerve (I), glossopharyngeal nerve (IX), vagus nerve (X), accessory nerve (XI), cervical ventral roots, and hypoglossal nerve (XII). The hippocampus is attached to the brainstem to show the relation of the hippocampus to the fornix and mammillary body in the brainstem. The choroid plexus is also shown. This model also fits in most of our current skull models (e.g. 4500 and 4708) and the falx cerebri model. With Key Card.

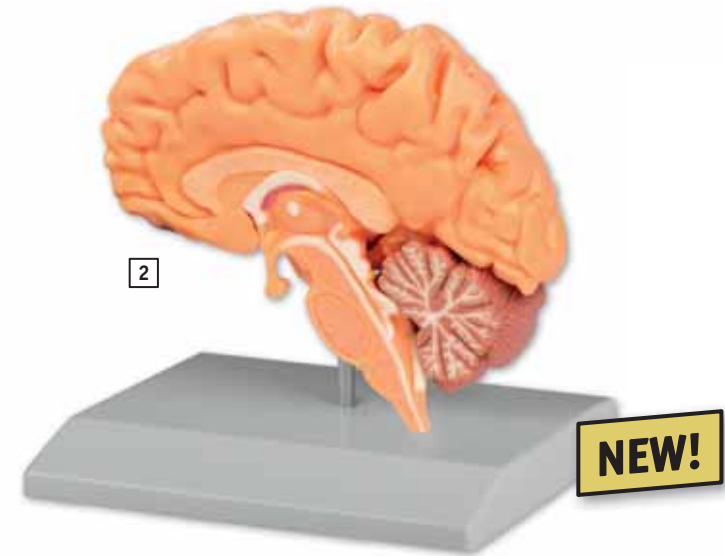
■ Ref.no. C918



1 Regional brain half, life size

This life-size brain model shows the major anatomical landmarks of the brain in carefully painted color. It is painted to show the four lobes of the brain: parietal, temporal, occipital, and frontal. This model also fits in most of our current skull models (e.g. 4500 and 4708) and the falx cerebri model.

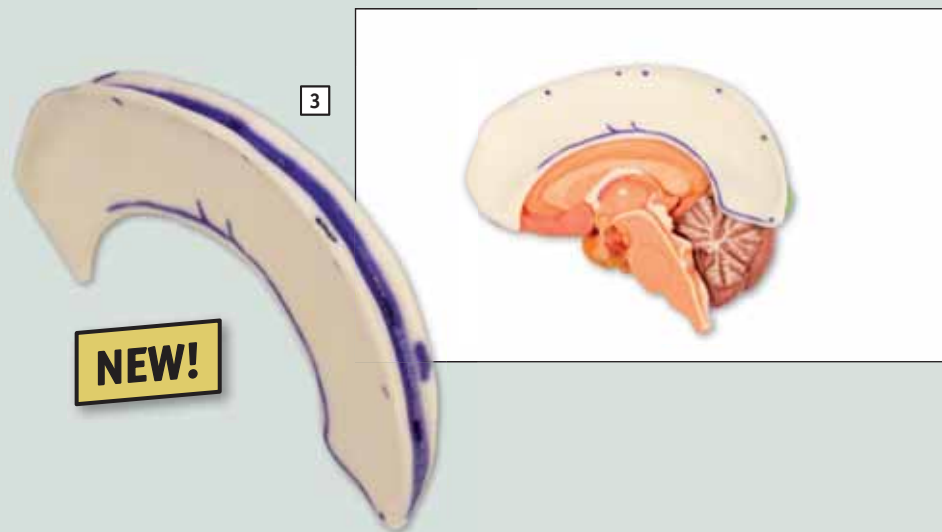
■ Ref.no. C921



2 Anatomical brain half, life size

This life-sized brain model is carefully painted in realistic color depicting the major anatomy of the brain. This model also fits in most of our current skull models (e.g. 4500 and 4708) and the falx cerebri model.

■ Ref.no. C915



3 Falx cerebri model

This model shows the falx cerebri of the brain. It includes the ostia of bridging veins, lacuna with arachnoid granulations, the superior and inferior sagittal sinus, and the straight sinus. It fits with most of our current skull models (e.g. 4500 and 4708) and brain models C922 and C918.

■ Ref.No. C925

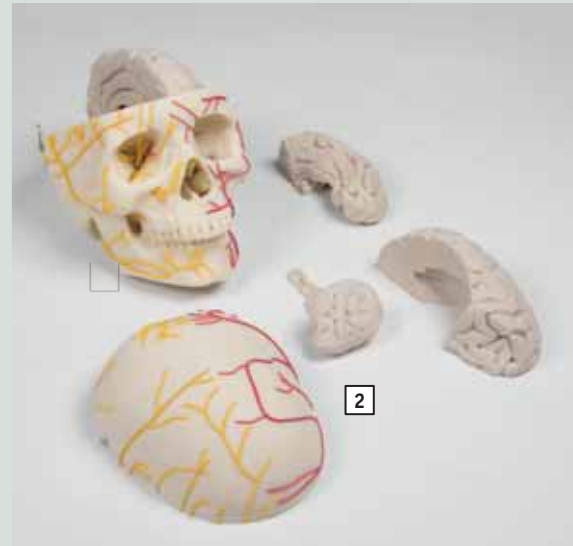


1 Base of Head with 7-Part Brain

Life-size base of the human head, featuring a detailed brain, complete with arterial blood vessels, including the basilar artery and Circle of Willis, cranial nerves, and dissectible brain stem. The entire brain can be lifted from the cranial vault and separated in seven parts. The right cerebral hemisphere divides along its length following the border of the corpus callosum, while the left can be split to expose the posterior horn of the lateral ventricle and hippocampus. Dissections of the cranial floor expose the eyeball, its muscles, lacrimal gland, optic nerve, and the middle and inner ear. 107 hand numbered features are identified in the accompanying key.

Size: 17 x 22 x 15 cm

■ Ref.No. C320

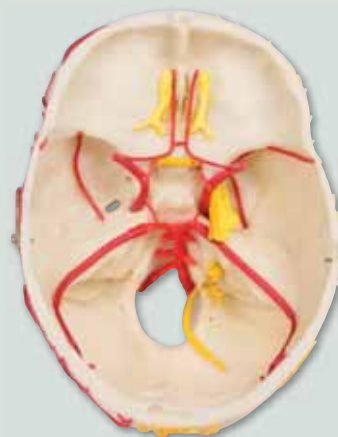


2 Neurovascular skull with brain

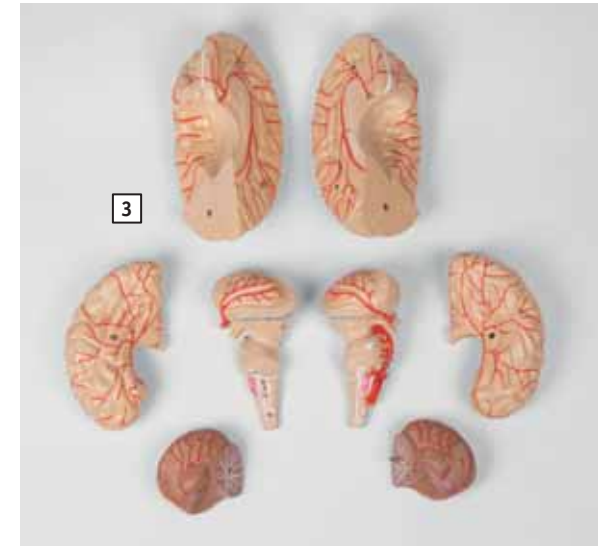
The three part skull shows the main skull nerves and arteries. The brain has 8 parts and is made of soft, tissue like material.

Size: 17.5 x 16.5 x 22 cm

■ Ref.no. 4610



interior view

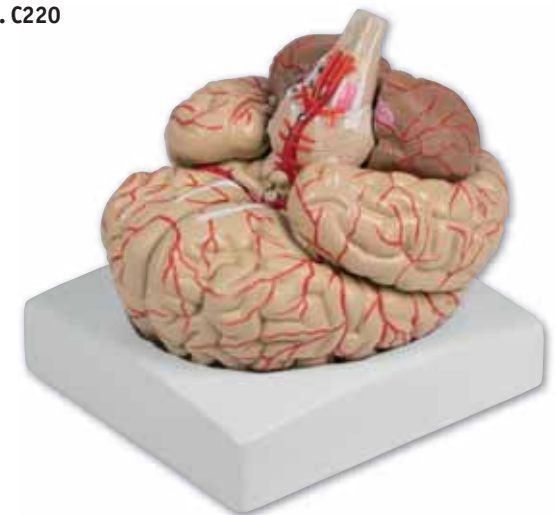


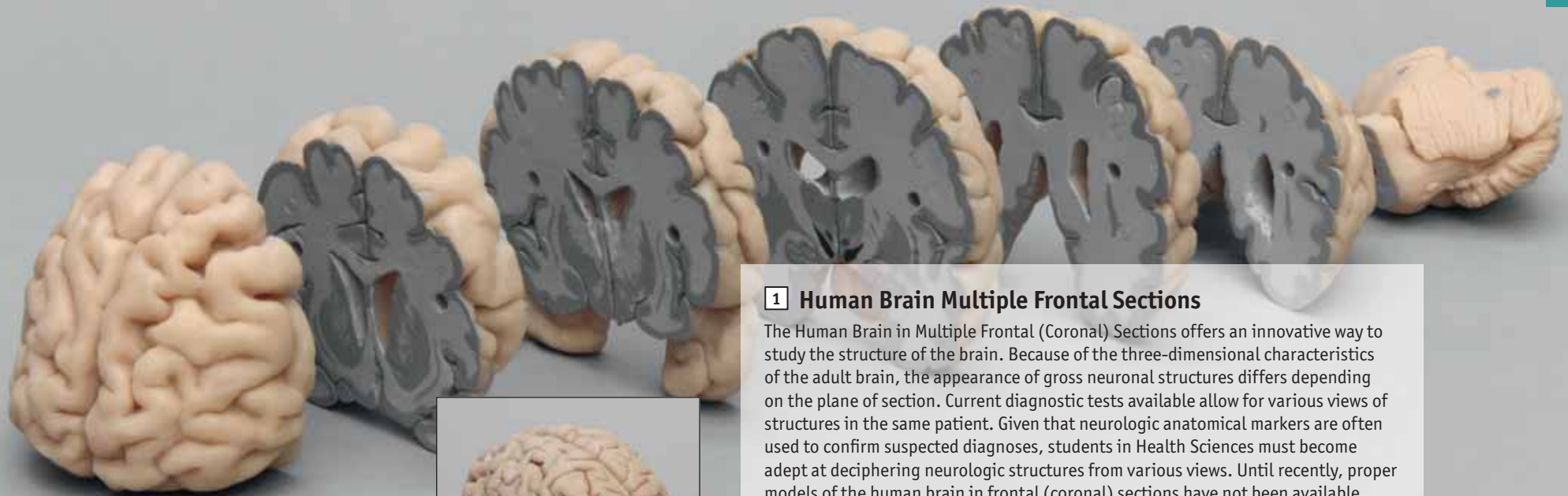
3 Brain model, 9-part with arteries

Life size model of a human brain, can be divided in the medial plane along the longitudinal fissure. It consists of 9 parts: frontal and parietal lobes, temporal and occipital lobes, the brain stem, the cerebellum and the basilar artery. It shows also the arterial blood supply and the important anatomical structures in great detail. On base tray.

Size: 17 x 15 x 16 cm, **Weight:** approx. 1.7 kg

■ Ref.no. C220





1



1 Human Brain Multiple Frontal Sections

The Human Brain in Multiple Frontal (Coronal) Sections offers an innovative way to study the structure of the brain. Because of the three-dimensional characteristics of the adult brain, the appearance of gross neuronal structures differs depending on the plane of section. Current diagnostic tests available allow for various views of structures in the same patient. Given that neurologic anatomical markers are often used to confirm suspected diagnoses, students in Health Sciences must become adept at deciphering neurologic structures from various views. Until recently, proper models of the human brain in frontal (coronal) sections have not been available. We are proud to offer the Human Brain in frontal (coronal) section, which has been created in consultation with Cara Davies, Ph.D.

Discreet built-in magnets and push-fit mating surfaces make it easy to fit and hold sections of the brain firmly together.

■ Ref.no. C720

2



3



Human Brain, actual cast

This Human Brain is molded and cast from an actual specimen. Custom-formulated resin and the production process permit us to represent a level of accuracy and detail necessary for anatomy instruction. The left and right hemispheres are separated, allowing for an interior view of the corpus callosum and cingulate gyrus, as well as the hypothalamus, pons, and cerebellum. Two different models available, each fits in a specific skull. Skulls not included.

2 Fits into our male skull model 4710

■ Ref.no. C710

3 Fits into our female skull model 4715

■ Ref.no. C715



Suitable skulls can be found on page 48.



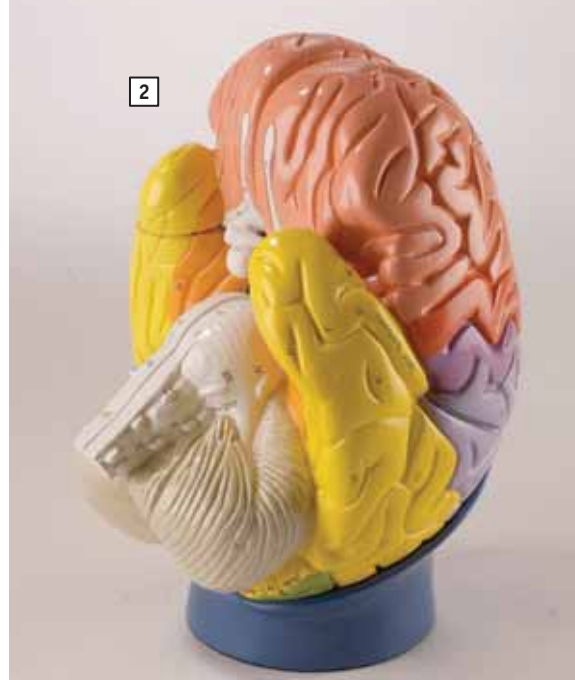
1

1 Neuro-Anatomical Brain, 4-part, 2 times life size

This 2 times life-size brain is medially divided and dissectible into 4 parts. The frontal lobes and brain stem are removable. The model enables you to clearly see the motor, sensor, and functional centres which are shown in different colors. Delivered on removable stand.

Size: 36 x 28 x 20 cm

■ Ref.no. C75



2

2 Regional Brain, 4-part, 2 times life size

The following lobes and regions of this 2-times life-size brain are represented in different colors and labeled in English: Frontal lobe, parietal lobe, occipital lobe, temporal lobe, motor cortex, somatosensory cortex, limbic cortex, cerebellum, brain stem. The twelve cranial nerves and additional features are numbered. Supplied with stand.

Size: 36 x 28 x 20 cm

■ Ref.no. R10122



3

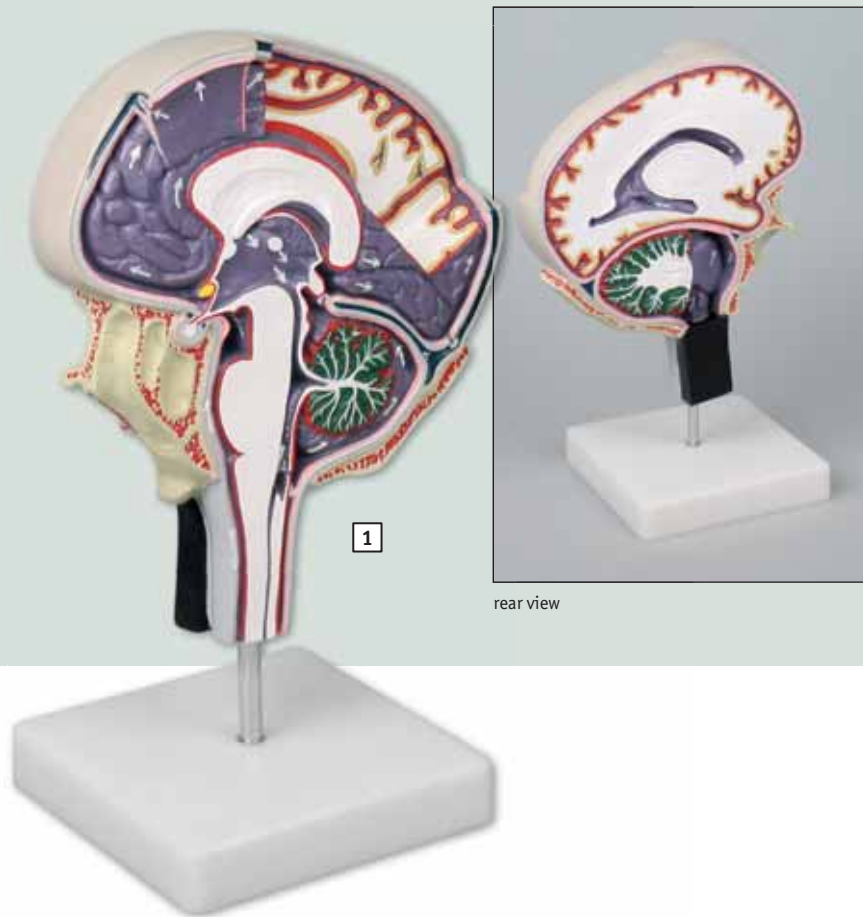
3 Soft Brain, 8 parts

This realistic model is made of soft, tissue like material to be as realistic as possible. It can be divided into 8 parts:

- frontal and parietal lobes
- temporal with occipital lobes
- brain stem
- cerebellum

Size: 14 x 16 x 14 cm

■ Ref.no. C85



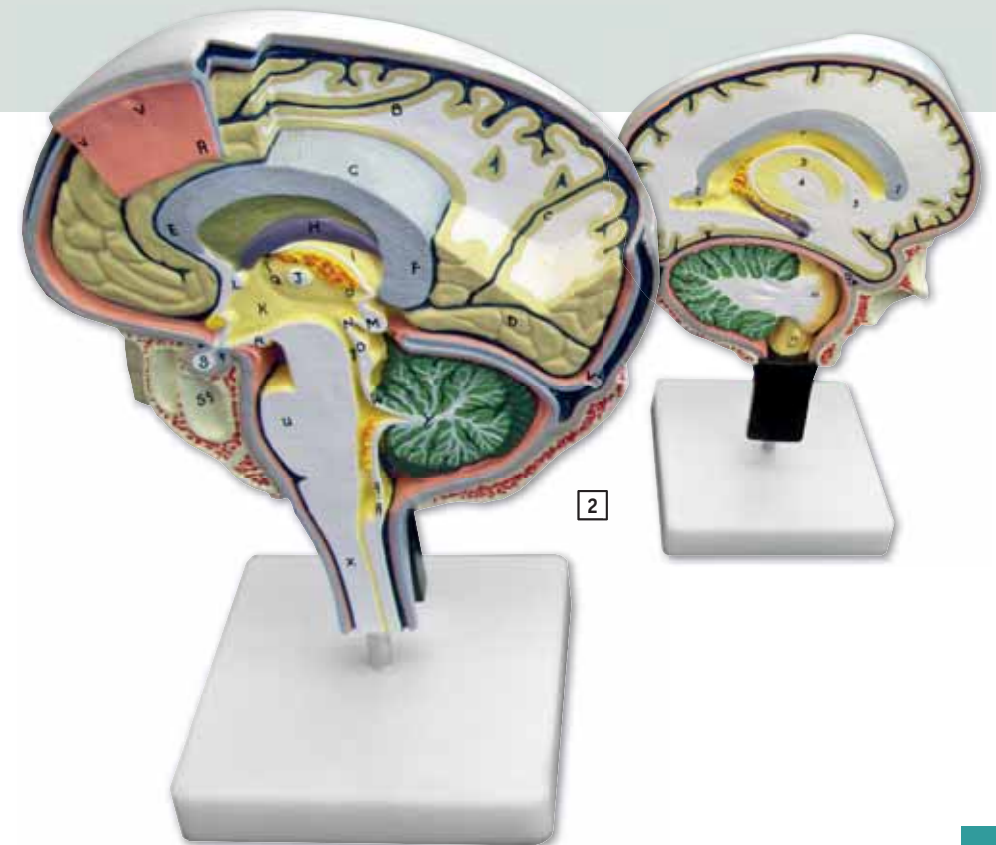
1 Cerebrospinal Fluid Circulation

Enlarged, detailed model of a section through the right half of the brain showing the cut pia mater, arachnoid and dura mater. The model has the cerebrospinal fluid areas clearly identified and the direction of flow indicated by arrows. Boldly colored to distinguish important features and mounted on stand.

Size: 25 x 18 x 12 cm, Weight: 0.9 kg

■ Ref.no. C76

rear view



2 Brain Section

An enlarged and very detailed section through the right half of the brain including a portion of the skull. The pia mater has been removed. It is double sided and finely colored. One surface is on the median line, including a section of the falx cerebri. A sagittal cut on the reverse exposes the lateral ventricle. There are 49 references on the model, identified on an accompanying key card. Mounted on a stand.

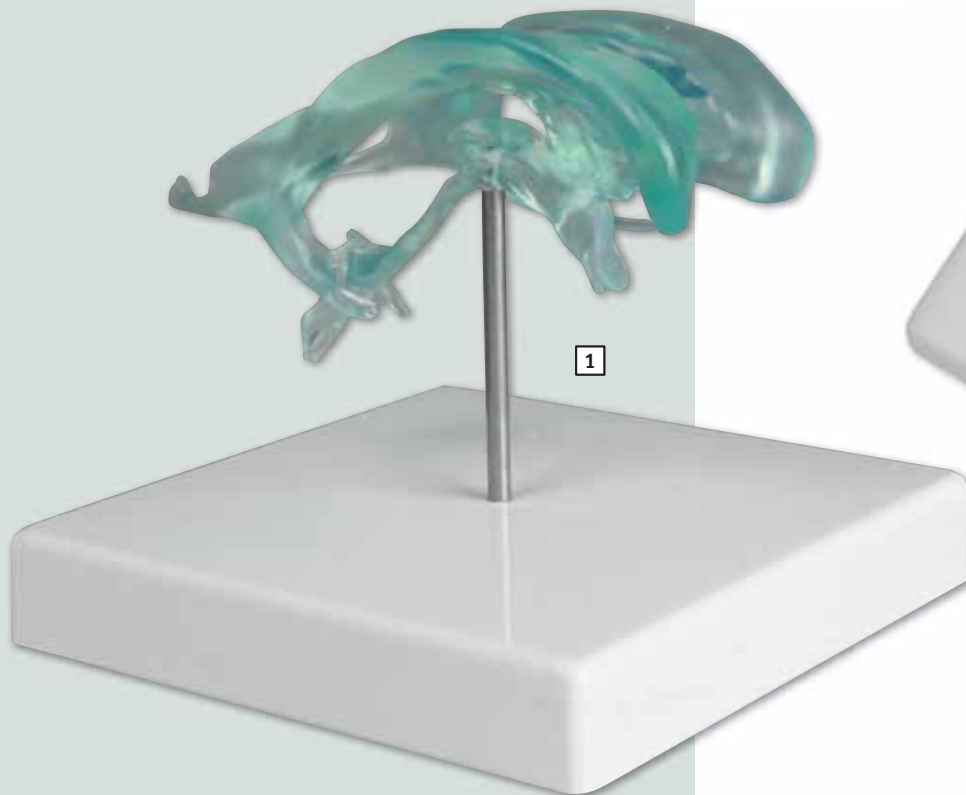
Size: 25 x 18 x 12 cm

■ Ref.no. C77

▼ **1 Brain ventricle**

Life size model of the human lateral ventricles, cerebral aqueduct, as well as the 3rd and 4th ventricle. With removable stand.

■ Ref.no. C263

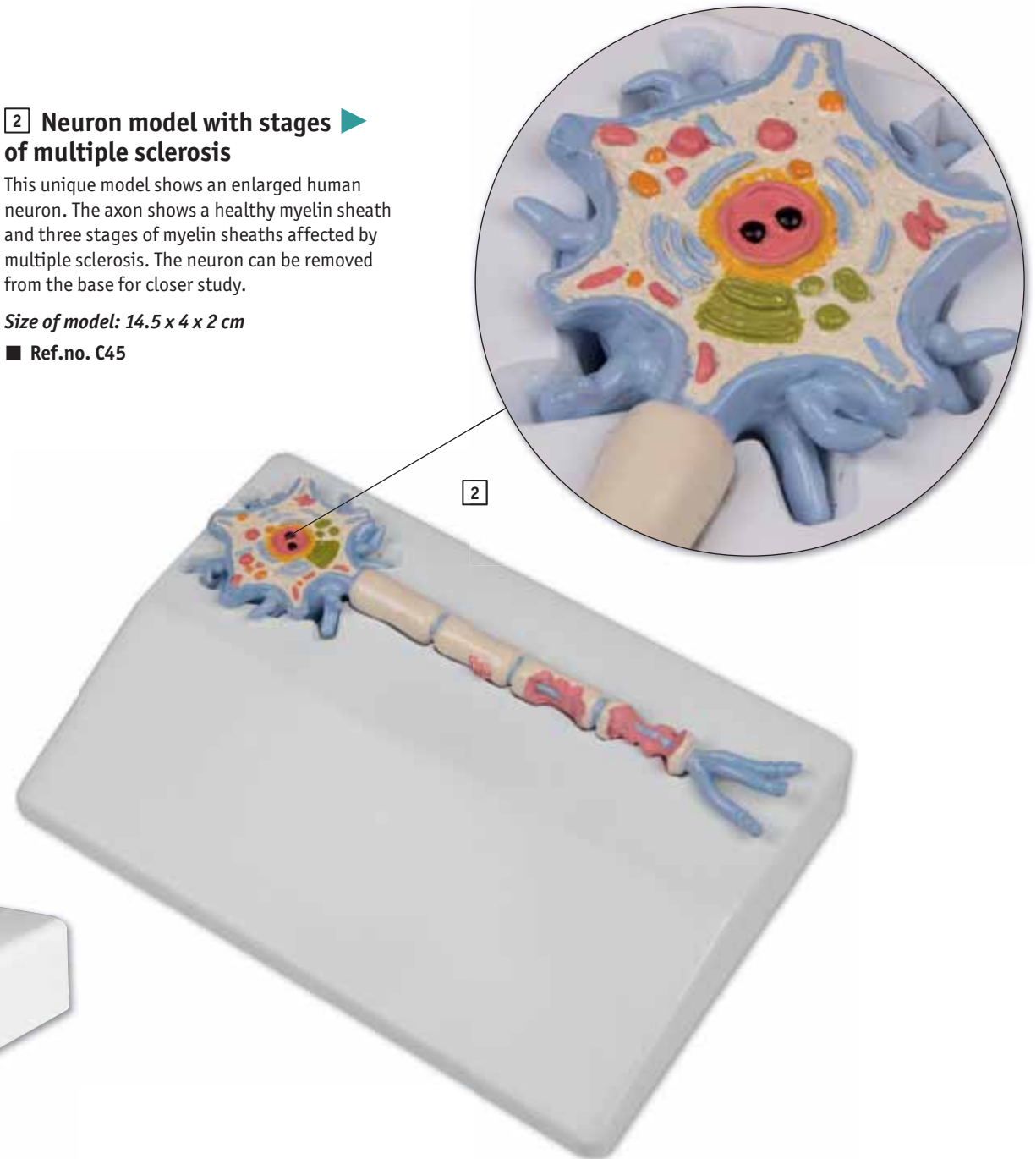


2 Neuron model with stages of multiple sclerosis ▶

This unique model shows an enlarged human neuron. The axon shows a healthy myelin sheath and three stages of myelin sheaths affected by multiple sclerosis. The neuron can be removed from the base for closer study.

Size of model: 14.5 x 4 x 2 cm

■ Ref.no. C45



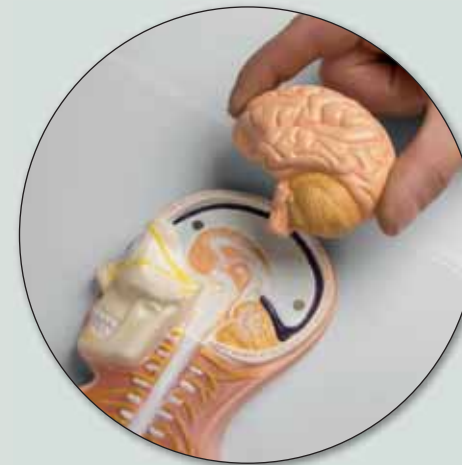
1 Vertebra with spinal cord section

Individual cervical vertebra with cross sectional representation of the spinal cord. White and grey spinal cord substance and the spinal nerves shown. On baseboard.

■ Ref.no. 4067



1



2

2 Nervous system, 1/2 life-size

This approximately half life-size relief model shows a general view of the peripheral and central human nervous system: the head is open to remove a brain half with cerebellum; the pathway of the main nerves is well illustrated in relation to the skeleton. Mounted on board.

Size: 90 x 31 x 12 cm, Weight: 4.3 kg

■ Ref.no. C240

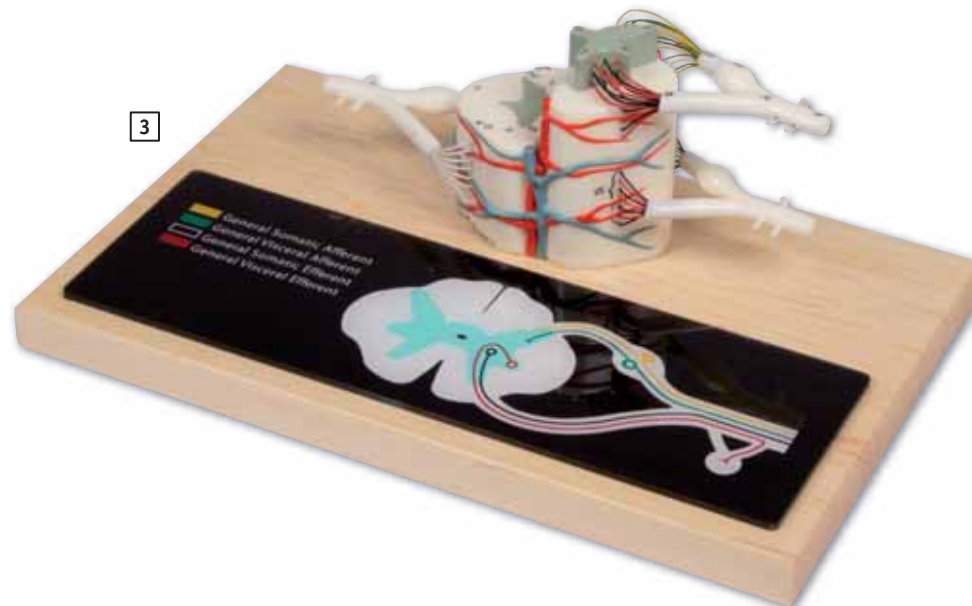


3 Spinal Cord, 6 times full-size

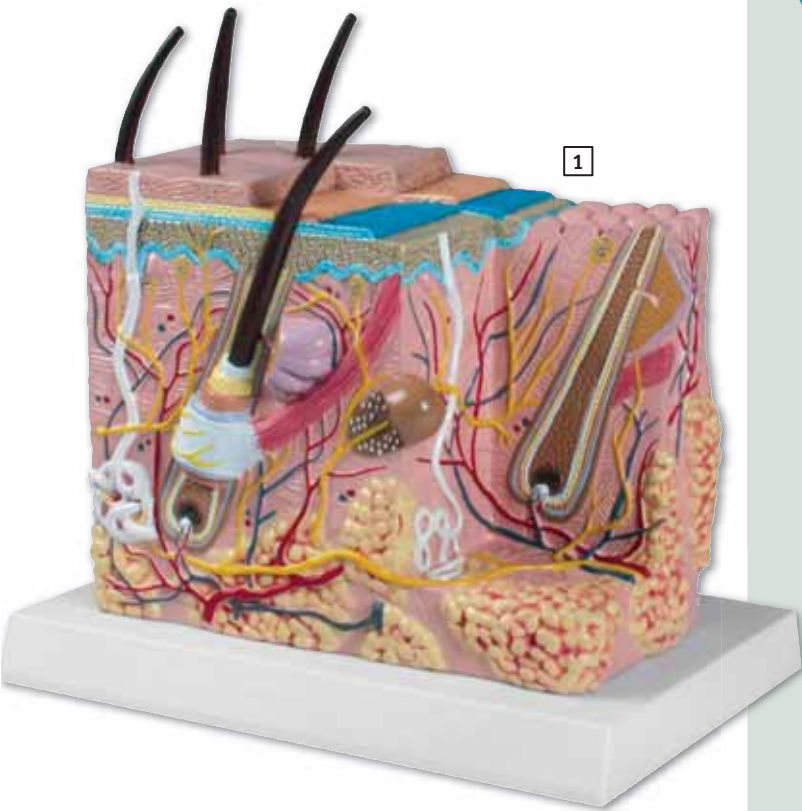
This model shows a segment of the upper thoracic spinal cord, laterally and longitudinally divided showing spinal nerve roots. Delivered on baseboard.

Size: 35.5 x 27 x 27 cm, Weight: 0.75 kg

■ Ref.no. R10116



3



1

1 Skin block model

This model of a human skin in about 50 times life size shows 3 dimensional the different skin layers and anatomical structures. In addition to nerves and blood vessels the model shows sweat glands, sebaceous glands, hair follicles, erector muscles, Pacinian corpuscles and much more.

Size: 20 x 10 x 20 cm, Weight: 850 g

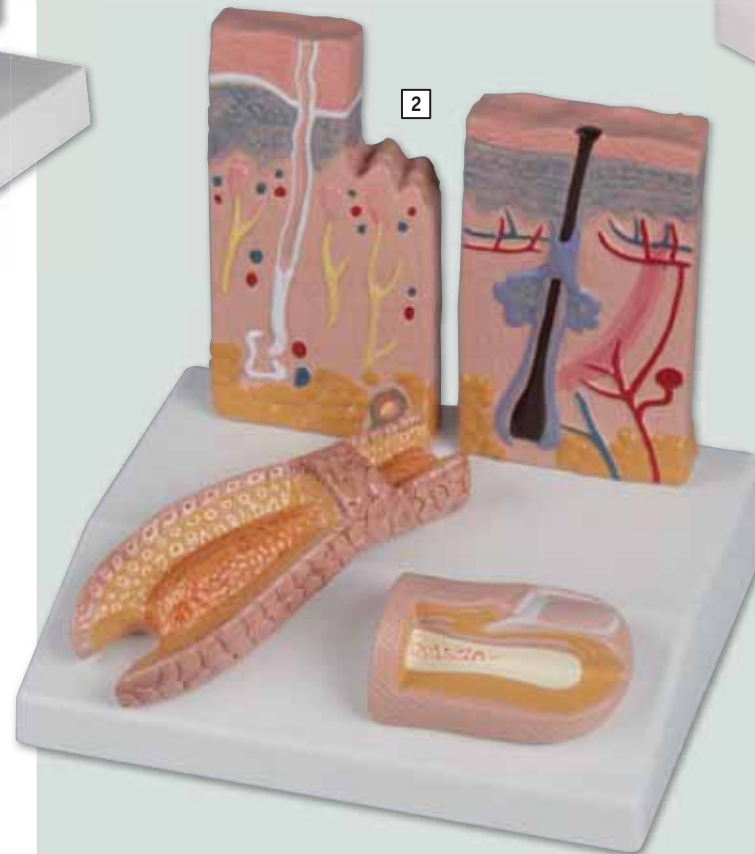
■ Ref.no. J213

2 Skin-hair-nail desktop model

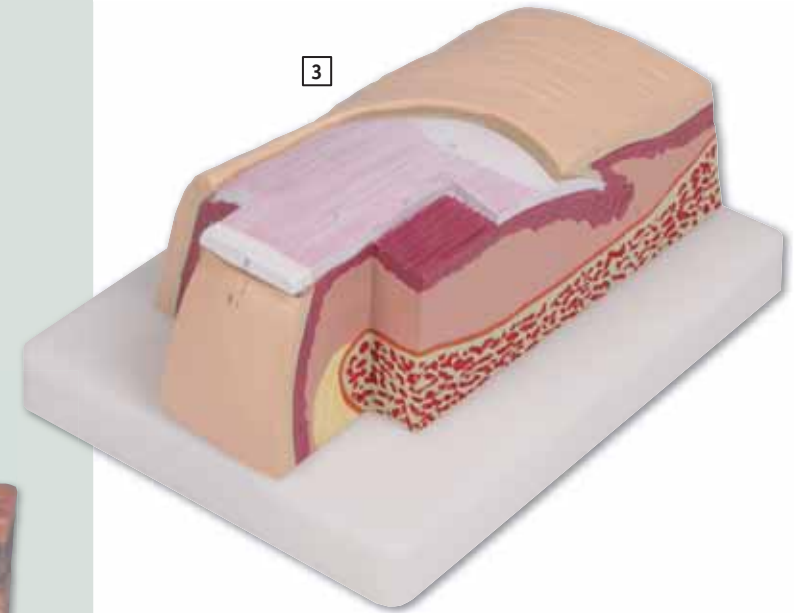
With this model it is easy to compare the structures of hairy and hairless skin: sensitive corpuscles, blood vessels, sweat gland, nerves, hair and hair root. Additionally a nail cross section model shows nail bed, nail plate and nail root. An enlarged hair root completes the model.

Size: 10 x 12 x 11 cm, Weight: 0,2 kg

■ Ref.no. J214



2



3

3 Nail model, 5 times full size

This approximately 5 times enlarged model of the terminal part of a typical digit with its associated bone structure shows three sectional views of the nail root and bed, germinative region and bone. Mounted on base.

Size: 25.5 x 12.5 x 10 cm

■ Ref.no. J60



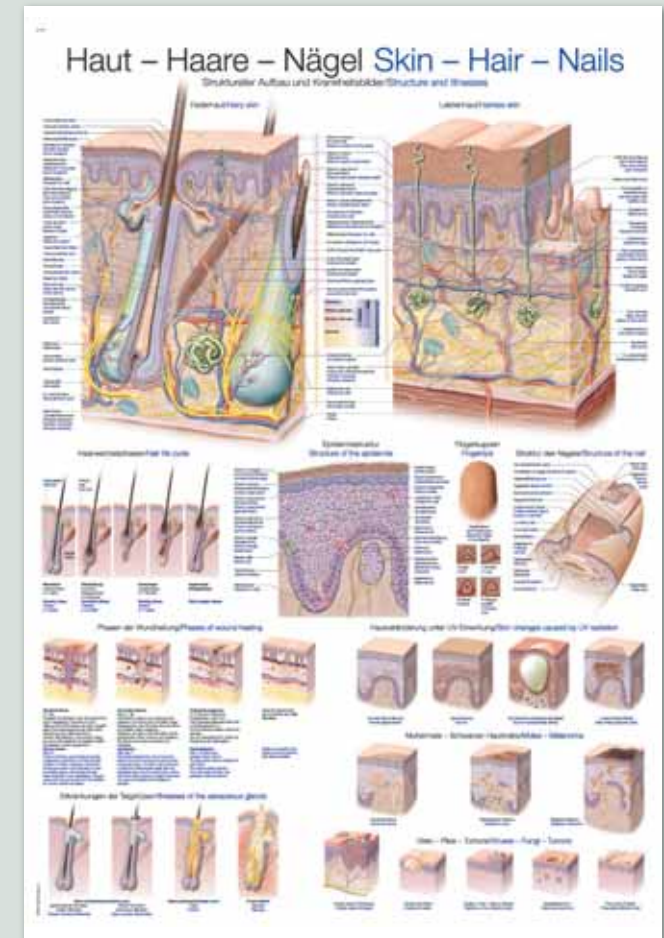
1

1 White Skin Cancer Trainer – Enlarged

Continued exposure to sunlight can cause damage to skin cells. If the damaged cells do not die or repair themselves, they degenerate and visible skin cancer develops. The Skin Cancer Trainer has been developed to assist with educating health care providers about the various types of skin cancer and what they may look like. The enlarged trainer shows a normal mole, basal cell carcinoma (basalioma), squamous cell carcinoma (spinalioma), and malignant melanoma. Variations of how the different types of skin cancer may appear are shown. The Skin Cancer Trainer includes trainer, sturdy base, two-sided informational key card, easel, and storage box.

Size 21.6 x 28 x 1 cm

■ Ref.no. R11012



2

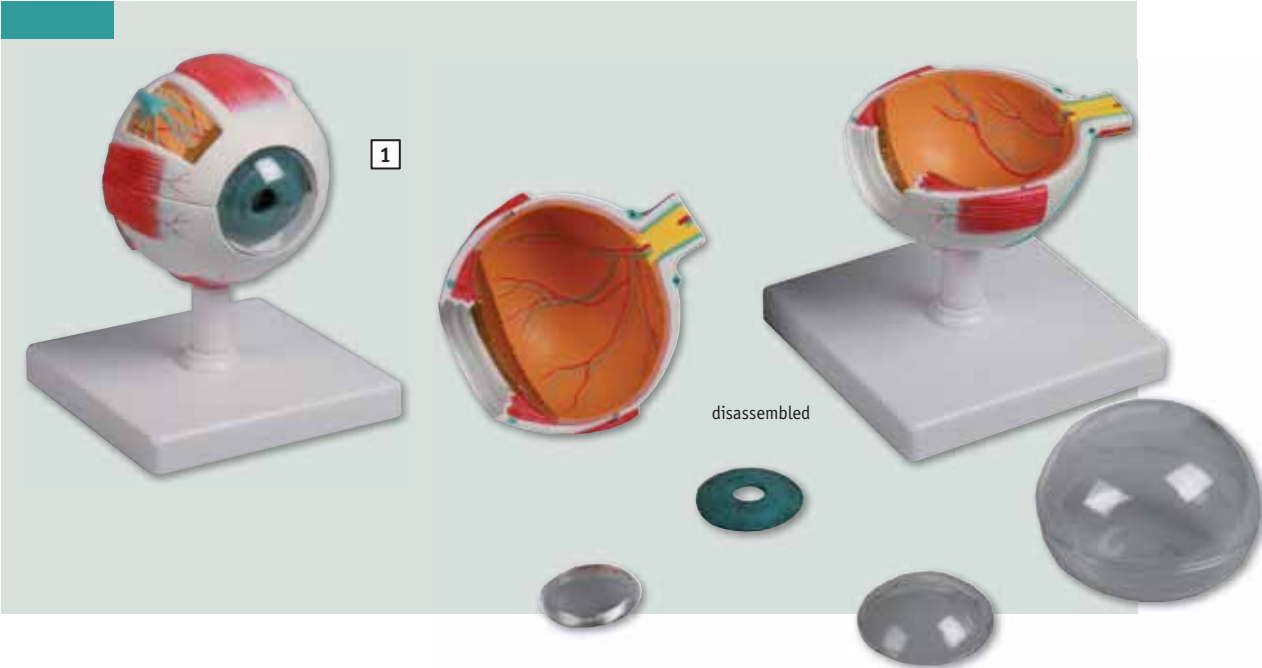
2 Chart „Skin-Hair-Nails“

70 x 100 cm, plastic, with metal edging and hanger. German, English

■ Ref.no. AL121

50 x 70 cm, art paper, with rods and hanger. German, English

■ Ref.no. AL521



◀ **1 Eye model, 4 times life size, 6 parts**

Complex hand painted reproduction of a human eye in about 4 times life size. The model includes two halves of sclera with retina and eye muscle attachments as well as vitreous humour, lens, cornea and iris. The model has 6 parts in total. It can be removed from the stand.

Size of Eye: 10 x 10 x 12 cm, Model size with stand: 12 x 12 x 15 cm, Weight: 0.4 kg

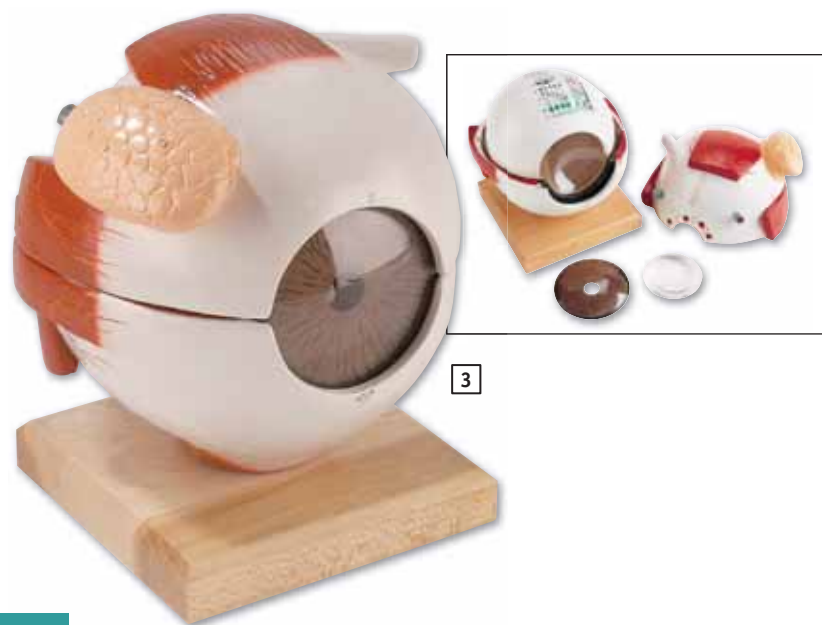
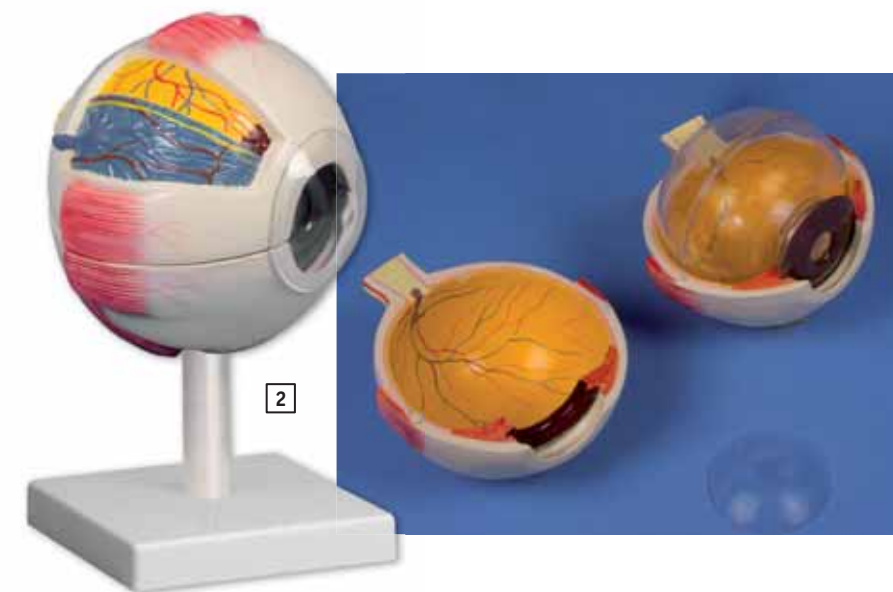
■ Ref.no. F210

2 Eye, 6 times life size, 6 parts ▶

Model can be divided horizontally to show internal details. Cornea, iris, lens and vitreous body can be removed. Muscular attachments on the sclera and part of the choroid are also represented. Mounted on stand.

Diameter of eyeball: 15 cm, Weight: appr. 0.6 kg

■ Ref.no. F220

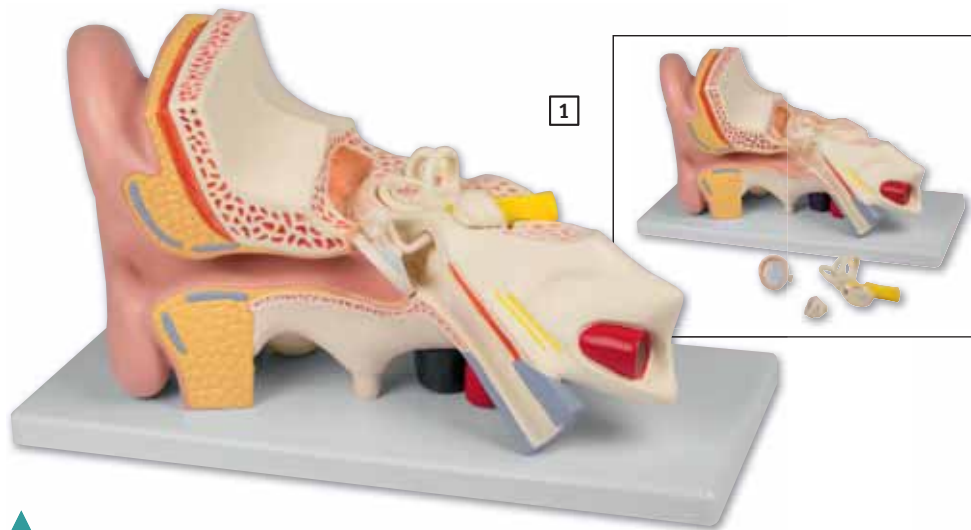


◀ **3 Eyeball with Functional Lens, 6-times full-size, 5-part**

Featured on the exterior of the cornea are the large lacrimal gland, muscle attachments, optic nerve and blood vessels. To study interior features, the iris/cornea unit can be removed as can the functional lucite lens which magnifies and forms inverted images. Removing the transparent vitreous body exposes the choroid coat and retina complete with the blind spot and yellow spot containing the fovea. Rods, cones, and other retinal microstructures are detailed in a highly magnified diagrammatic cross section. Mounted on a wooden base.

Size: 15 x 15 x 15 cm

■ Ref.no. R10123



1 Ear, 3 times life size, 4 parts

This model shows the details of the external, middle and inner ear in three times life size. The eardrum with malleus, incus and stapes can be removed. Additional removable part is the cochlea and labyrinth with vestibular and cochlear nerves, one half of the cochlea can be removed. Mounted on baseboard.

Size: 32 x 19 x 13 cm, **Weight:** approx. 1 kg

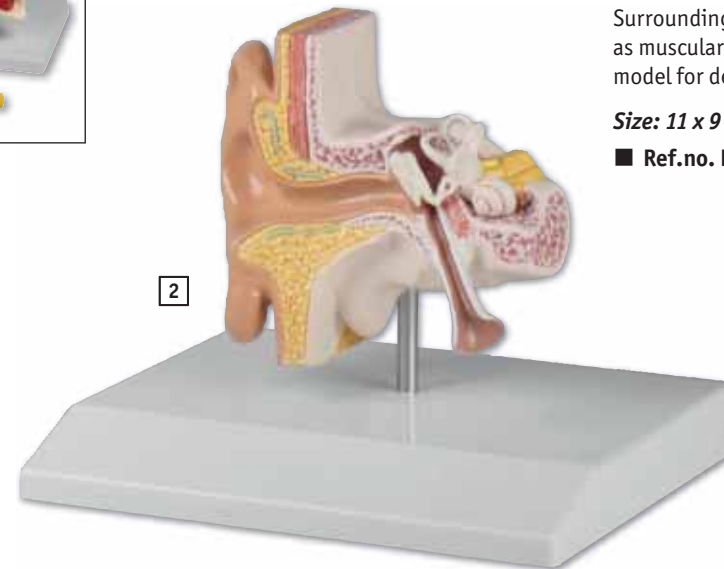
■ Ref.no. E210

2 Ear model, 1.5 times life size

This slightly enlarged model of a human ear with detailed reproduction of all anatomical details shows the auditory canal, the tympanic membrane, malleus, incus, stapes and cochlea. Surrounding bony structures are visible as well as muscular and cartilaginous tissues. A perfect model for desktop use.

Size: 11 x 9 x 5 cm

■ Ref.no. E220



3 Transparent Ear model

This excellent model shows the outer and inner structure of the ear from the outer ear to the eardrum. This multi-purpose model can be used for patient information or medical education. The flexible material allows to use this model also as training aid for audiphone insertion.

■ Ref.no. LM02



4 Ear ossicles set

The middle ear is composed of three tiny bones: the malleus (or hammer), incus (or anvil), and stapes (or stirrup). These bones carry and increase the amplitude of sound from the eardrum to the inner ear. They are found in the tympanic cavity of the temporal bone. When assembled to reflect their formation, they are small enough to fit on a fingernail. Ossicles are shipped embedded in a custom made foam insert inside a clear plastic petri dish. Ossicles can be removed easily.

■ Ref.no. E300



1 Dental caries model, 10 times life size

Lower molar with caries, pulpitis and apical infection as well as dental tartar and gingivitis. Normal anatomy like jaw bone, nerves, vessels, ligaments, enamel, dentine and pulp are of course shown.

Size: 12 x 6 x 3.5 cm, Weight: 0.15 kg

■ Ref.no. D214

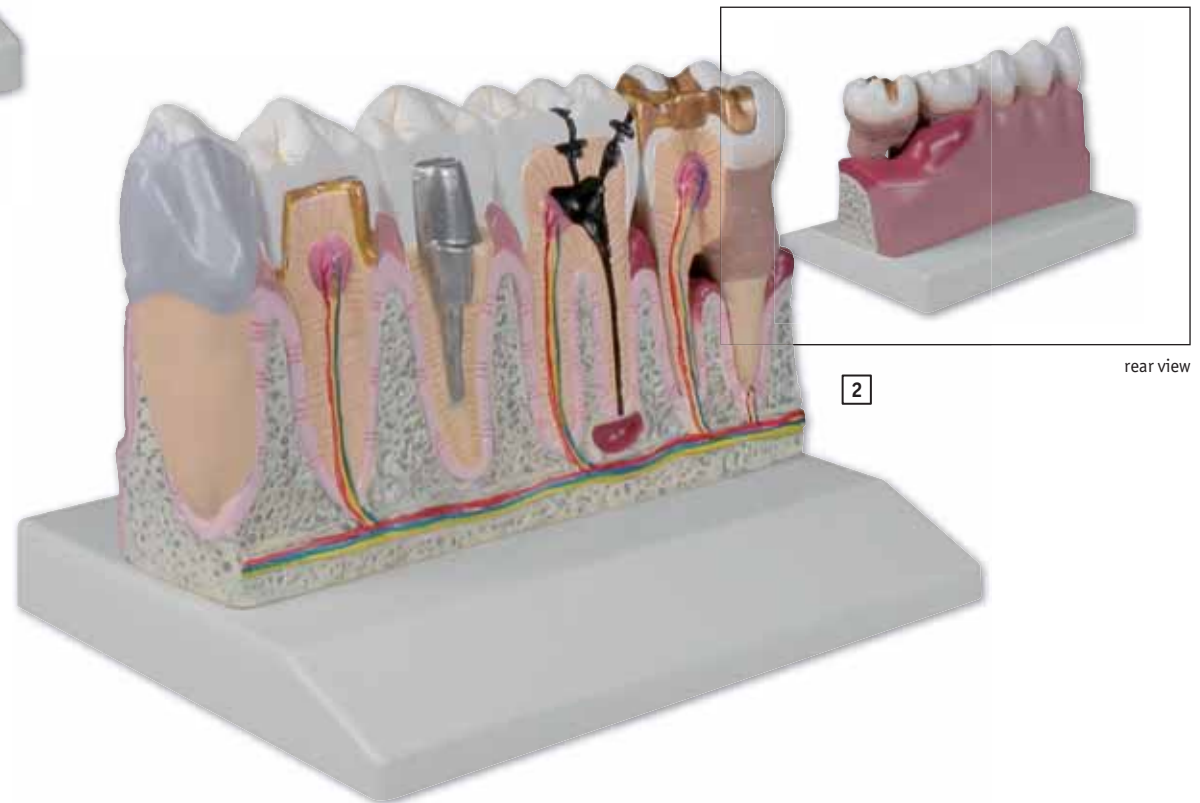
1

2 Dental model, 4 times life size

Representation of a right lower jaw with tooth 3 to 7 with diseases and treatment solutions. It shows discolouration, caries, apical infection, dental tartar, periodontosis, devital teeth (3 & 5). The following treatment solutions are shown in the model: veneer, bonding porcelain crown, root pin construction, full ceramic and gold inlay. Anatomical structures like jaw bone, nerves, vessels, ligaments, enamel, dentine and pulp are of course shown.

Size: 17 x 10 x 5 cm, Weight: 0.4 kg

■ Ref.no. D250



2

rear view



◀ **1 Dental Morphology Series, 7-part, 10 times life-size**

Removable lateral incisor, canine, first premolar, bridge made of artificial first molar with gold coloured crown, and second molar. All relevant structures are labelled. On transparent, jaw-shaped stand.

Size: 70 x 25.5 x 15 cm

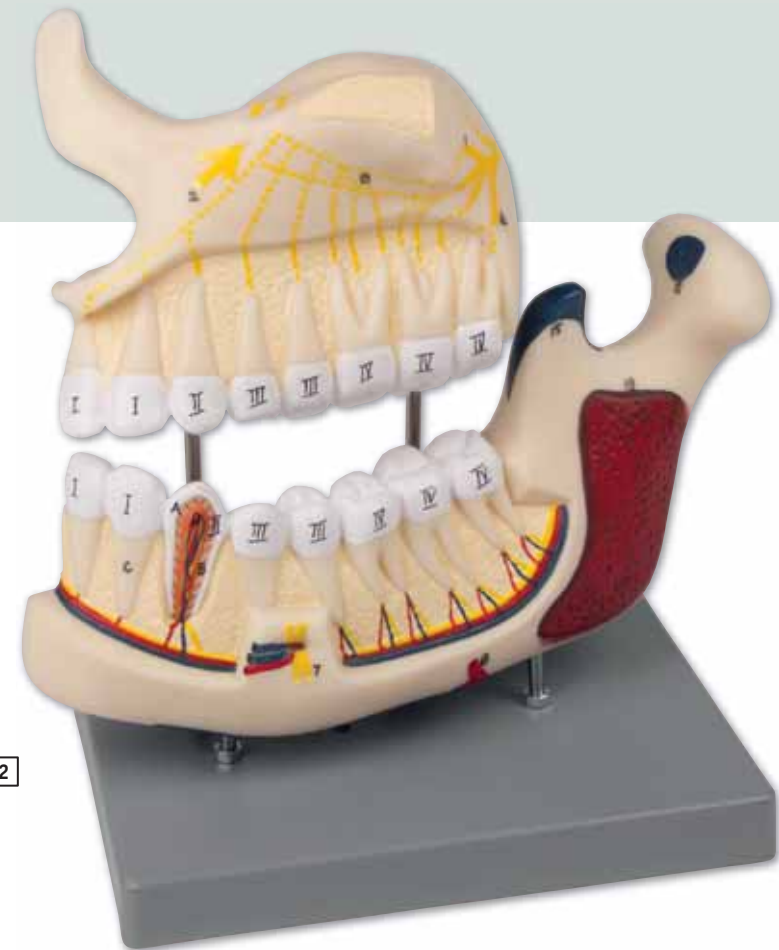
■ Ref.no. R10125

2 Upper & Lower Jaw Model ▶

Enlarged 2.5 times. Mandible shows all teeth and anatomical features, glands, arteries, veins and nerves. The canine tooth is bisected to show the internal structure of a normal tooth. The maxilla shows all teeth, the maxillary nerve and its distribution to the teeth; also the maxillary sinus and its relationship to the nerves. Complete on stand with key card.

Size: 18 x 14 x 15 cm

■ Ref.no. D325





1 Oral hygiene model, 1.5 times life size

A 1.5x life size model that is useful for teaching the correct way to brush teeth. A giant toothbrush is included. Mounted on base.

■ Ref.no. D217



2 Oral hygiene model, 3times life size

A 3x life size model that is useful for teaching the correct way to brush teeth. A giant toothbrush is included. Mounted on base.

Size: 15 x 16 x 22 cm, Weight: approx. 1 kg

■ Ref.no. D216



3 Transparent laryngopharynx model

This is a transparent model that reproduces the laryngopharynx three-dimensionally, from the oropharynx to the hypopharynx. It is useful in explanations to help people understand the complex structure of the laryngopharynx, and can be used as a model when training personnel involved in swallowing therapy or when giving explanation to patients or their families.

Features

- The model can be split on the midline.
- The epiglottis, pyriform sinus, and glottis are faithfully reproduced, and the depth of the pyriform sinus and laryngeal vestibule can be understood.
- The complex 3-dimensional structure of the laryngopharynx can be intuitively grasped through visualization. The flow of food from the outside can also be seen (Actual liquids can be used).
- The importance of food preparation and eating posture can be taught with an understanding of the 3-dimensional structure of the laryngopharynx. The difficulty of coughing up food that has been accidentally ingested can also be understood.
- When teaching videoendoscopic examination of swallowing, the location that is being viewed can be understood by visually comparing endoscopic images and the model.
- The state of occlusion in the esophagus can be expressed with a line to help create a mental image.

Size: 9 x 11 x 13 cm, weight: 1.1 kg

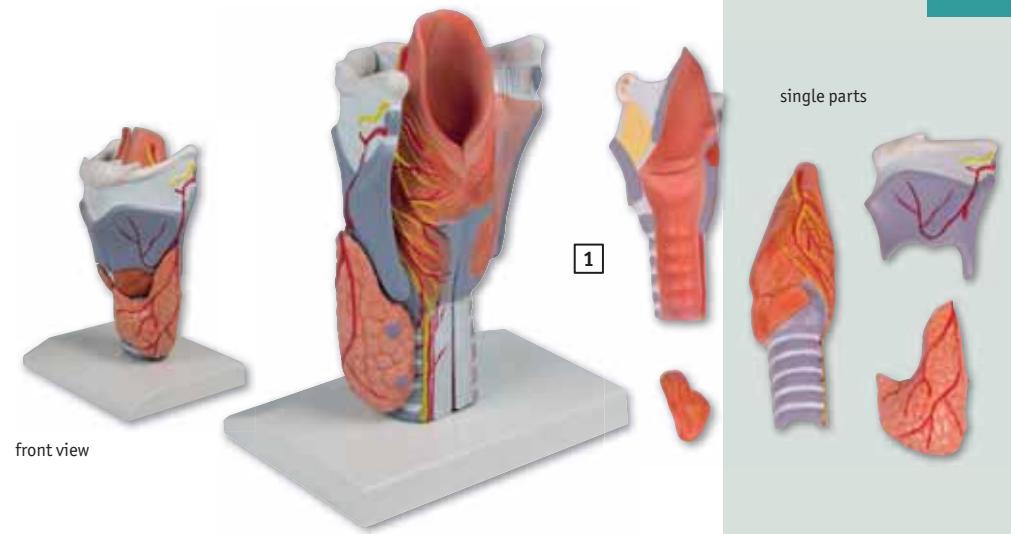
■ Ref.no. LM104

1 Larynx model, 2 times enlarged, 5-part

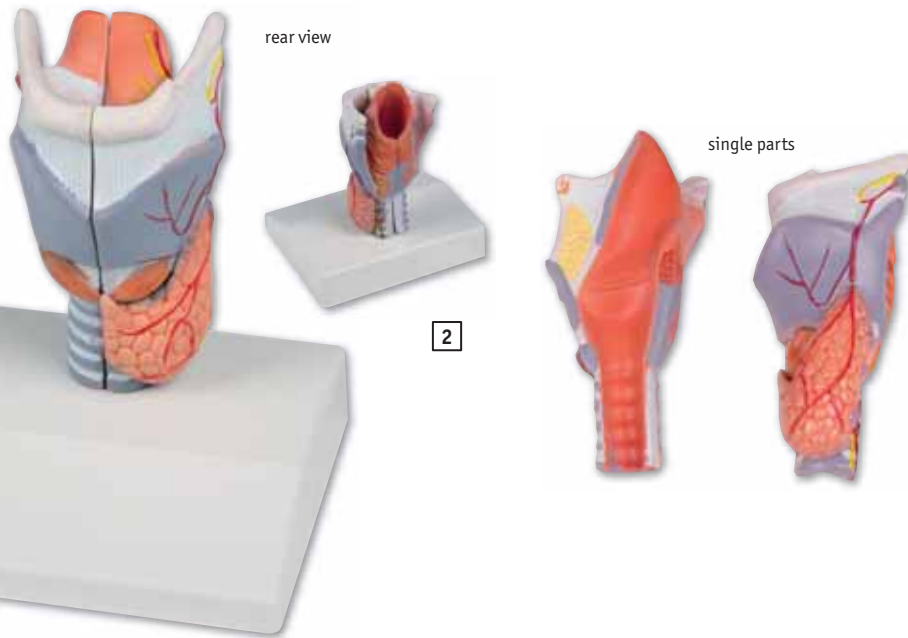
This 5-part model is medially sectioned and shows all internal structures, like the hyoid bone, cartilages, ligaments, muscles, vessels, nerves and thyroid gland. Removable parts are on the left side one half of the hyoid bone and the thyroid cartilage as well as a half of the thyroid gland. On the right side the cricothyroid muscle can be removed. Mounted on stand.

Size: 20 x 11 x 9 cm, Weight: 0.5 kg

■ Ref.no. G221



front view



rear view

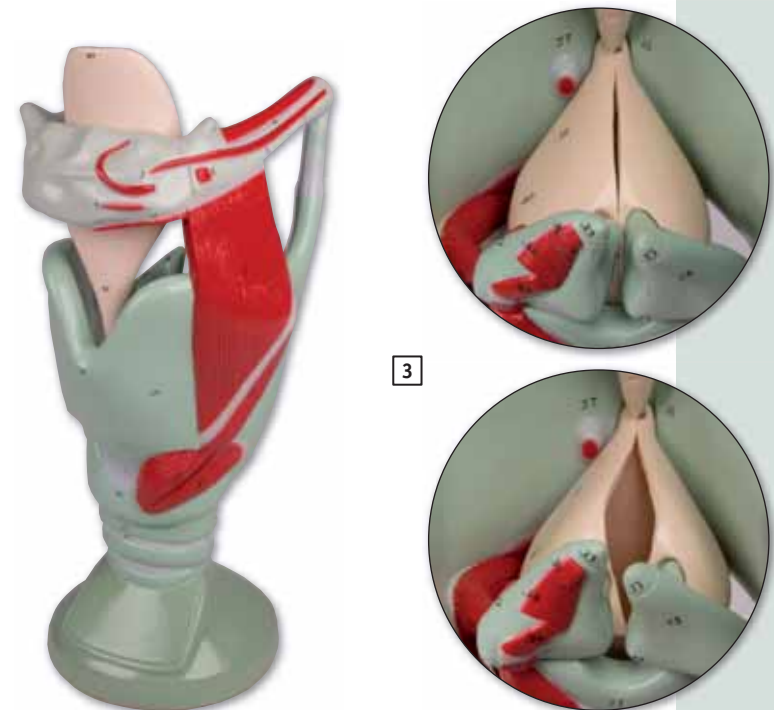
single parts

2 Larynx model, life size, 2-part

This life size model is medially sectioned and can be opened into 2 parts to show the anatomy of the human larynx and related structures like hyoid bone, cartilages, ligaments, muscles, vessels, nerves and thyroid gland. Mounted on stand.

Size: 11 x 6 x 5 cm, Weight: 0.1 kg

■ Ref.no. G223



3 Functional larynx, 4 times life size

Enlarged Model of a human larynx with hyoid bone. It shows cartilaginous structures on the right side, the left side shows musculature. Movable mounted are vocal cords, arytenoid cartilages and epiglottis to demonstrate their functions. Mounted on stand.

Size: 38 x 18 x 15 cm, Weight 1.6 kg

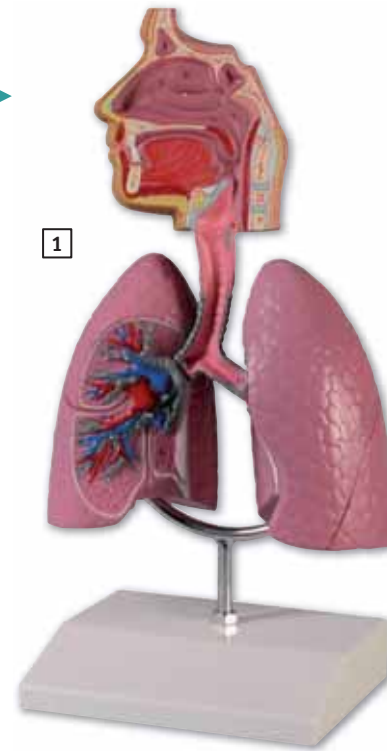
■ Ref.no. G120

1 Human respiratory system

Representation of the human respiratory system in about half life size. Lungs, trachea and upper respiratory tract are shown in detail. The model comes on a removable stand.

Size: 16 x 13 x 28 cm, Weight: 0.4 kg

■ Ref.no. G216



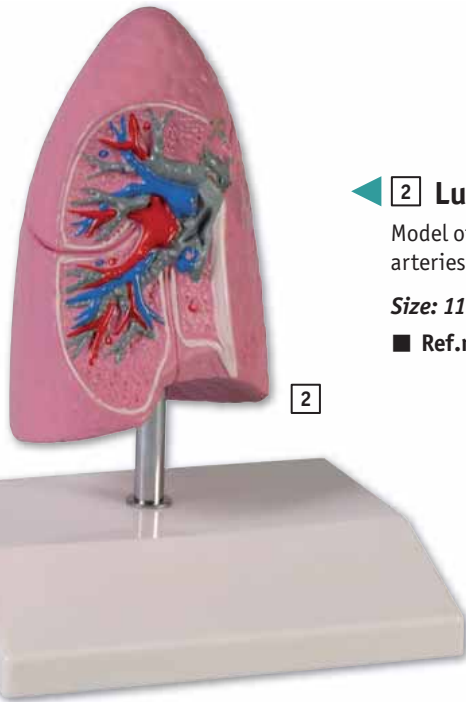
1

2 Lung half, 1/2 life size

Model of a right lung in about 1/2 life size with bronchus, arteries and veins. On stand.

Size: 11 x 7 x 7 cm, Weight: 0.2 kg

■ Ref.no. G252



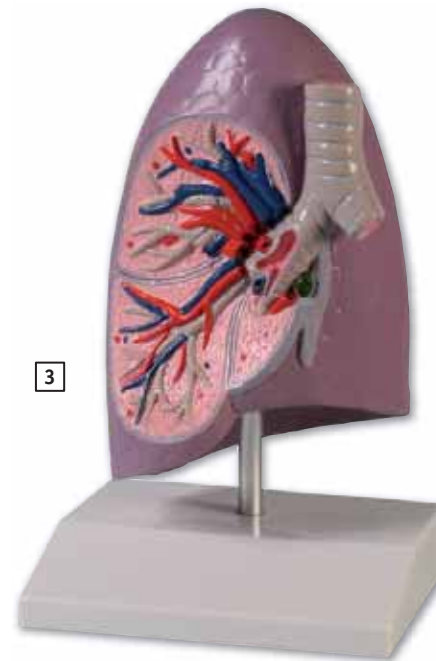
2

3 Lung half, life size

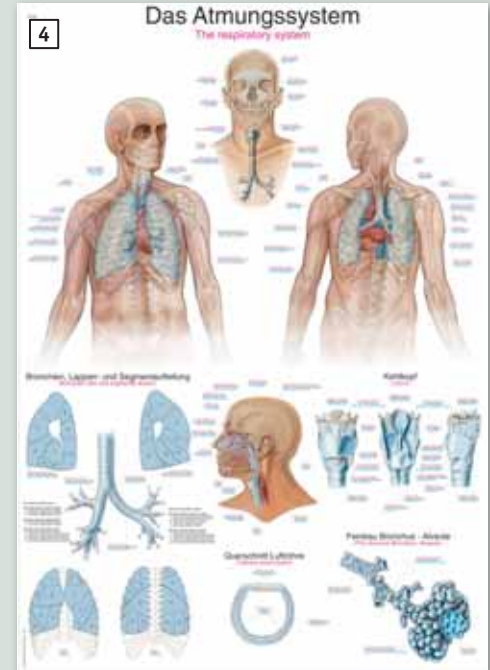
Model of a right lung in about life size with bronchus, arteries and veins. On stand.

Size: 14 x 12 x 23 cm, Weight: 0.3 kg

■ Ref.no. G253



3



4

4 Chart „The respiratory system“

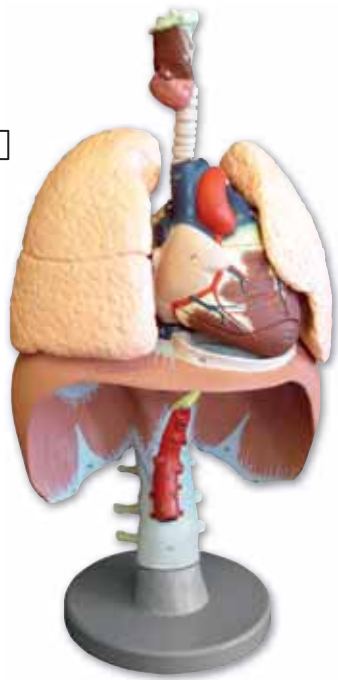
70 x 100 cm, plastic, with metal edging and hanger. German, Latin, English

■ Ref.no. AL116

50 x 70 cm, art paper, with rods and hanger. German, Latin, English

■ Ref.no. AL516

1

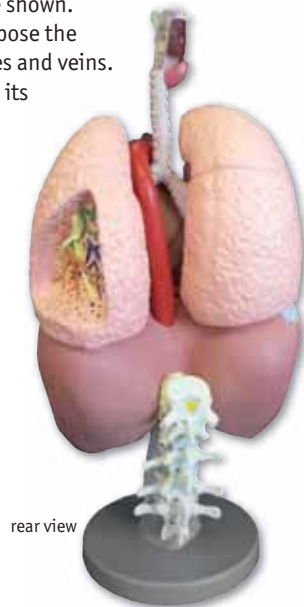


1 Respiratory organs

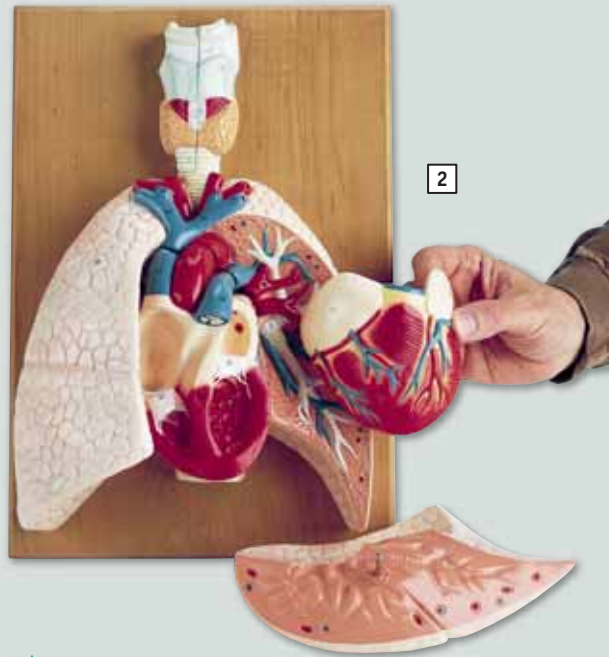
A life size model, finely colored to show all major anatomical detail. The diaphragm shows muscles, tendons and openings for the major vessels and esophagus. The aorta shows the origins of five abdominal arteries. Three thoracic and three lumbar vertebrae are shown. The left lung is sectioned to expose the bronchioles, pulmonary arteries and veins. The larynx is sectioned to show its detailed structure. The heart is bisectable to expose the atria and ventricles, and shows the superior and inferior vena cava, aorta, pulmonary artery and the coronary sinus. Supplied complete on stand, with key card.

Size: 41 x 23 x 19 cm

■ Ref.no. G410



2



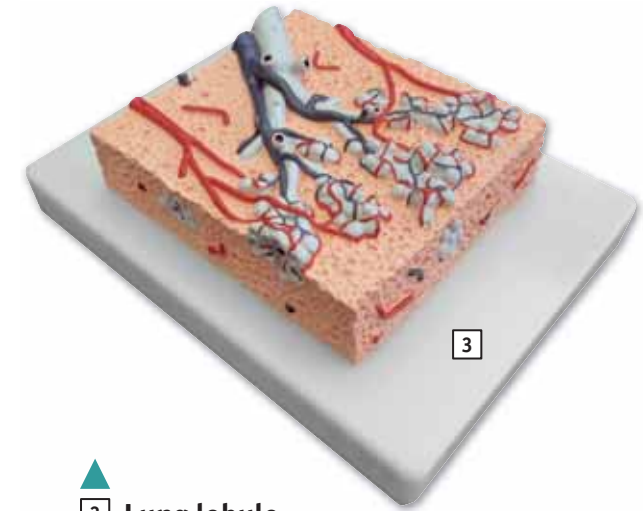
2 Cardiopulmonary system

Life-size model includes lungs, trachea, heart, esophagus, and complete larynx with vocal cords, all in their natural position. The right half of the larynx can be removed, as well as the heart and half of the left lung, which exposes the bifurcation of the trachea and bronchial tree, the pulmonary arteries and veins. The heart itself splits in halves to show its four chambers and valves, thus providing understanding of the directional blood flow there. Pulmonary circulation can also be easily traced, and with major vessels of the systemic circulation depicted, blood flow through the entire body can be demonstrated. 58 numbered structures are identified in the corresponding key.

Size: 43 x 28 x 15 cm

■ Ref.no. G400

3



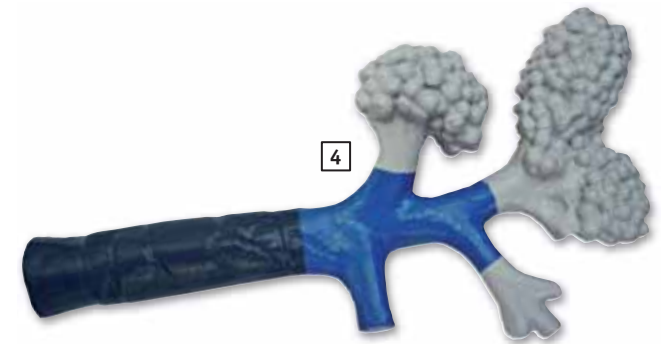
3 Lung lobule

This model shows an approximately 20 times enlargement of a section through the lungs. A bronchus, bronchioles and alveoli are shown with the accompanying pulmonary and bronchial blood vessels. With key card.

Size: 12 x 10 x 3 cm

■ Ref.no. G420

4



4 Bronchioles

A model of the terminal bronchiole system of the lungs. Greatly enlarged and manufactured in rigid unbreakable material.

Length: 13 cm

■ Ref.no. G430



1 Inflatable Lungs Kit

This demonstration kit is suitable for elementary, secondary, and college classes in health, biology, anatomy, and physical education to demonstrate the touch and feel of a lung that is very similar to a human lung. The swine lungs included have been specially preserved by the BioFlex process. Students can see and learn how lungs, that are very comparable with their own, work by inflating and deflating them with a pump. A section of dried lung is included with each kit to show internal anatomy structures including arteries, veins, bronchioles, alveoli, and bronchi. Includes an inflation rack and tray, air pump, one pair of reusable, inflatable swine lungs, one section of dried swine lung, and a teacher's guide. Replacement components can be purchased separately. Inflatable lungs in this kit can be used with the Simulated Smoker's Lungs Kit.

■ Ref.no. R10060



2 Simulated Smoker's Lungs Demonstration Kit

Dramatic demonstration kits that provide an impressive, unforgettable, hands-on demonstration of the texture and fragility of the mammalian lungs, as well as demonstrating that real lungs are not like rubber balloons in a bell jar. The teacher's guide emphasizes the handling, use, and storage of the reusable swine lungs, and includes a detailed illustration of internal anatomy. Supplemental information about lung cancer, other smoking induced diseases, and air pollutants is also included.

The inflatable swine lungs have been stained realistically and then specially preserved by the BioFlex odorless, nontoxic process that retains the texture and elasticity of fresh lungs. The lungs dramatically and unforgettably demonstrate the effects of prolonged smoking. A palpable simulated internal tumor and a physical simulated external tumor encourage students to feel the texture of the lungs, and to remember that smoking is a known cause of lung cancer. Includes a teacher's guide; a pamphlet, If You Smoke... Here's What Your Doctor May See; an inflation rack and tray; air pump; a dried section of unstained lung; and a pair of Simulated Smoker's Lungs. The Simulated Smoker's Lungs can be used with the Inflatable Lungs Kit

■ Ref.no. R10061



3 Lung cancer comparison model

These lung models give viewers a shocking, graphic view of the damage smoking causes. The healthy lung is pink and free of abnormalities. In contrast, the diseased lung is black, has a large greyish-white cancerous mass, and is covered with spongy bubbles caused by emphysema. Sure to make a lasting impression.

Size healthy: 13 x 22 x 10 cm
Size diseased: 14 x 22 x 13 cm

■ Ref.no. R10063



4 Lung cancer model

This impressive model shows the left lung half of a smoker. The model can be opened and shows a greyish-white, fibrous-feeling cancer. A model for real dramatically demonstration!

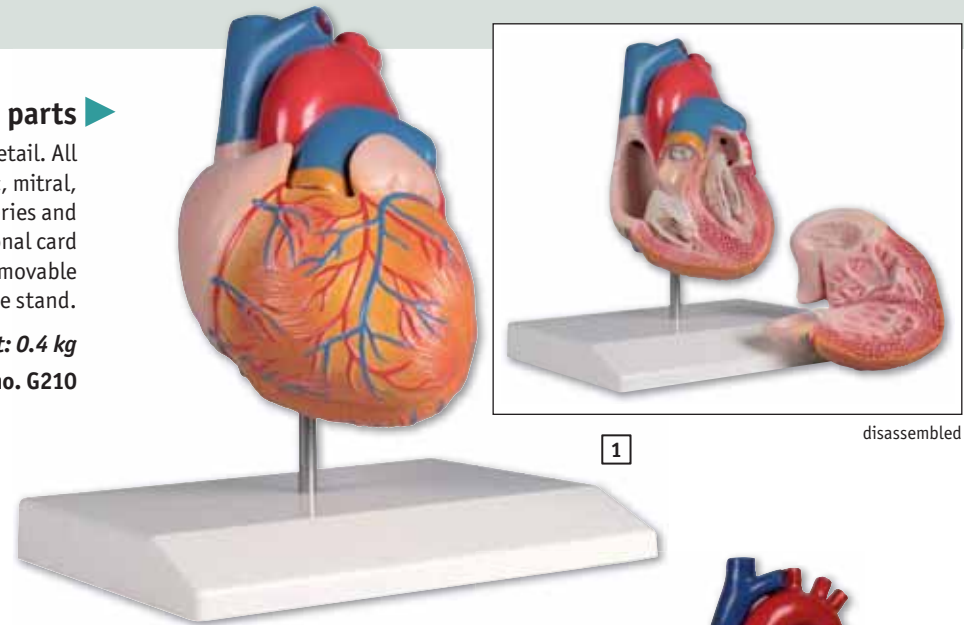
■ Ref.no. R10062

1 Heart model, life size, 2 parts ▶

The front heart wall can be removed to show the inner structures in detail. All important structures are present such as ventricles, atriums, aortic, mitral, pulmonary and tricuspid valves. Heart muscle, fatty tissue, arteries and veins are painted in detail; the structures are shown on the educational card (German/English). The model is made of unbreakable plastic and removable from the stand.

Size: 8 x 8 x 14 cm, **Weight:** 0.4 kg

■ Ref.no. G210



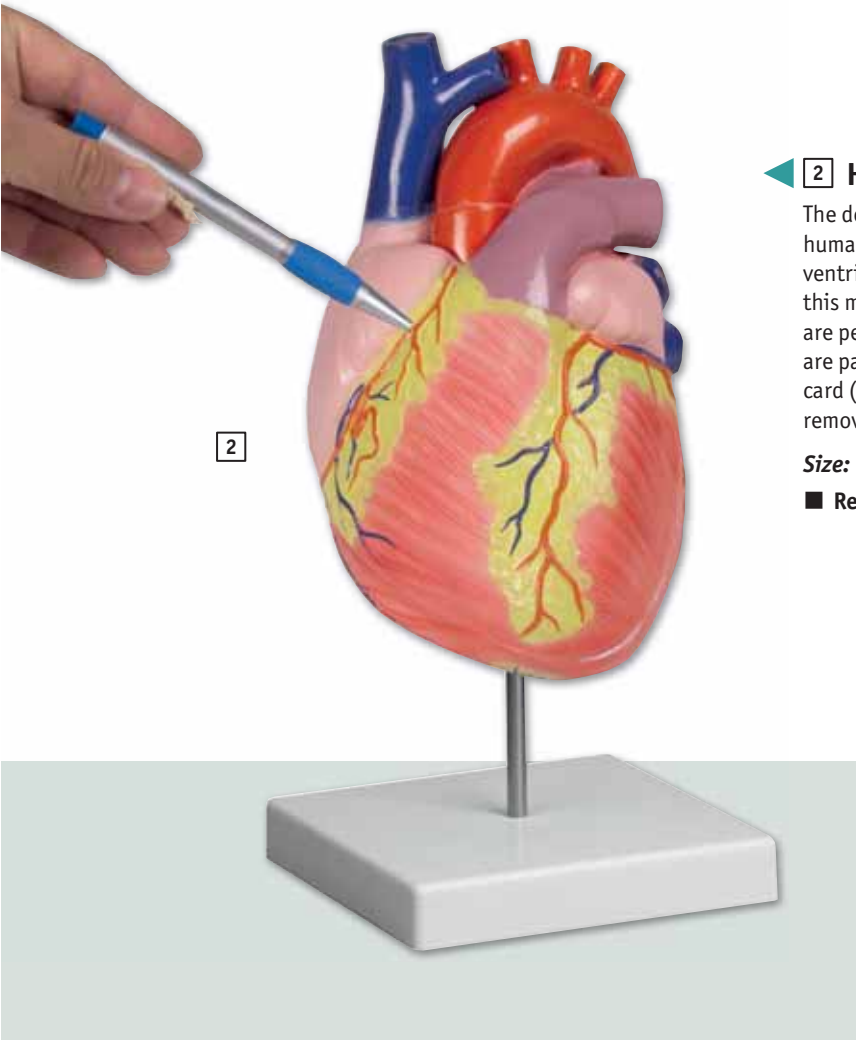
disassembled

2 Human heart, 2 time life size, 2 parts ◀

The double life size model describes all important structures of the human heart very detailed. The front heart wall is removable and shows ventricles, atriums, aortic, mitral, pulmonary and tricuspid valves. In this model the heart muscles cross section and the coronary vessels are perfectly visible. Heart muscle, fatty tissue, arteries and veins are painted in detail; the structures are shown on the educational card (German/English). The model is made of unbreakable plastic and removable from the stand.

Size: 11 x 11 x 18 cm, **Weight:** 1.2 kg

■ Ref.no. G212



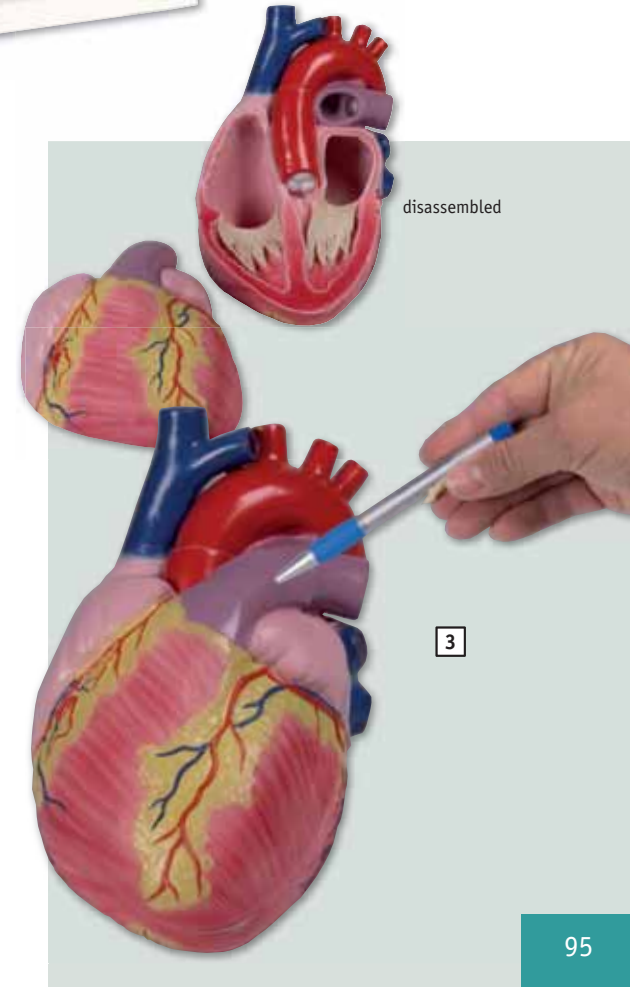
2

3 Giant heart model, 3 time life size, 2 parts ▶

This model in tripple life size is perfect for classroom education. It is sectioned along the anterior plane to show internal structures, including the cardiac valves and the comparative morphology of the right and left ventricles. On base.

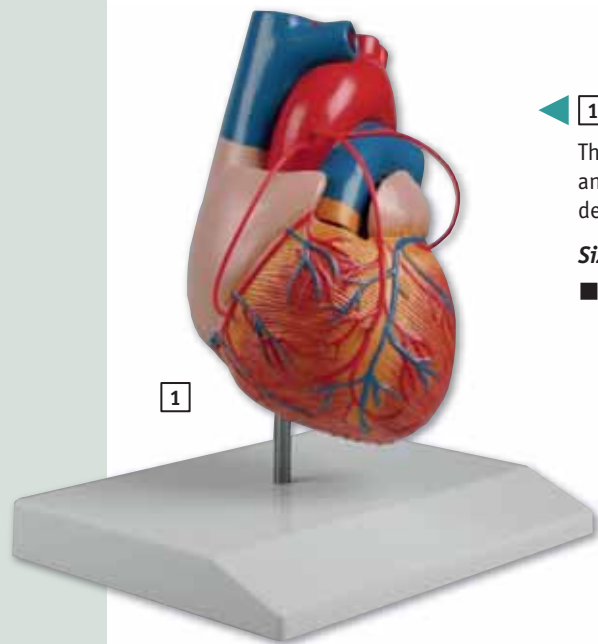
Size: 28 x 19 x 26 cm, **Weight:** ca. 2 kg

■ Ref.no. G254



disassembled

3



1 Heart with bypass

This life-size two-part model provides an extremely detailed illustration of the anatomy of the human heart with three coronary bypasses. The anterior wall can be detached to expose the inner chamber and valves. Mounted on stand.

Size: 8 x 8 x 14 cm , Weight: 0.4 kg

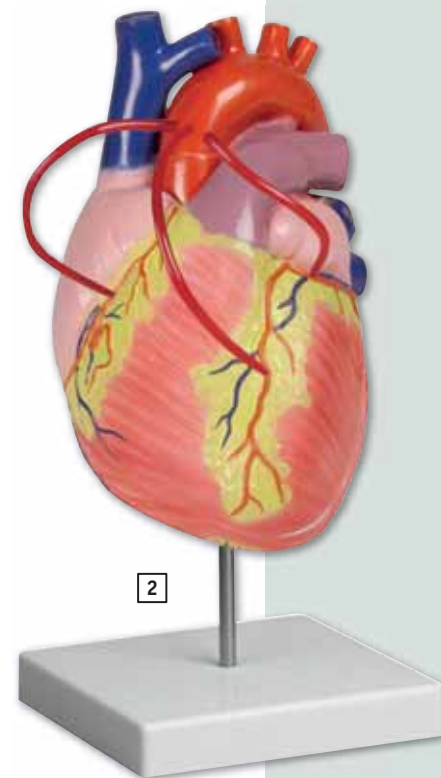
■ Ref.no. G205

2 Heart with bypass, 2x life size, 2 parts

The double life size model describes all important structures of the human heart very detailed. The front heart wall is removable and shows ventricles, atriums, aortic, mitral, pulmonary and tricuspid valves. In this model the heart muscles cross section and the coronary vessels are perfectly visible. Heart muscle, fatty tissue, arteries and veins are painted in detail; the structures are shown on the educational card (German/English). The model is made of unbreakable plastic and removable from the stand. Additionally this model shows bypass to the right coronary artery as well as bypass to the left interventricular artery and to the ramus circumflexus.

Size: 11 x 11 x 18 cm, Weight: 1.2 kg

■ Ref.No. G206



3 Heart model, 2 part, with conducting system

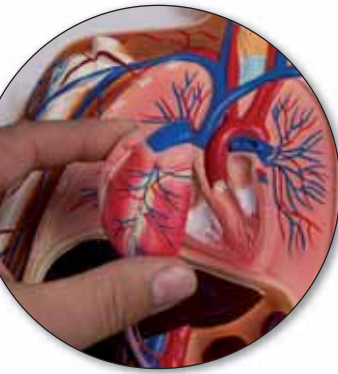
The front heart wall can be removed to show the inner structures in detail. All important structures are present such as ventricles, atriums, aortic, mitral, pulmonary and tricuspid valves. Heart muscle, fatty tissue, arteries and veins are painted in detail, the conducting system is marked in color. The model is made of unbreakable plastic and removable from the stand.

Size: 8 x 8 x 14 cm , Weight: 0.4 kg

■ Ref.no. G207



1



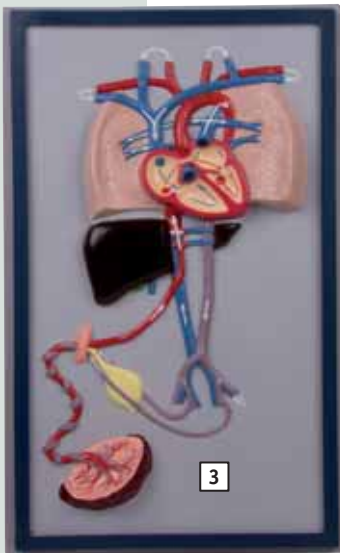
1 Circulatory system, relief model, 1/2 life size

The human circulatory system as overview. The perfect opportunity to explain and understand the blood supply in the human body. The model pictures clearly the lung circulation, the heart with its chambers, atriums and valves, the large vessels and the blood supply to the extremities. Of course liver, kidneys, spleen and a part of the intestines are shown. The front wall of the heart can be removed. To locate the vessels the model shows the skeleton, allowing to understand the three-dimensional paths of the vessels.

On base board, also suitable for hanging.

Size: 90 x 35 x 5 cm

■ Ref.no. G230



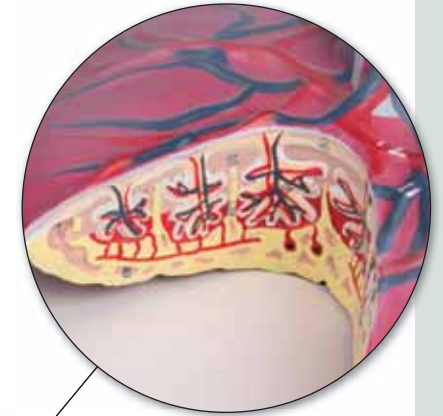
3

3 Foetal circulation

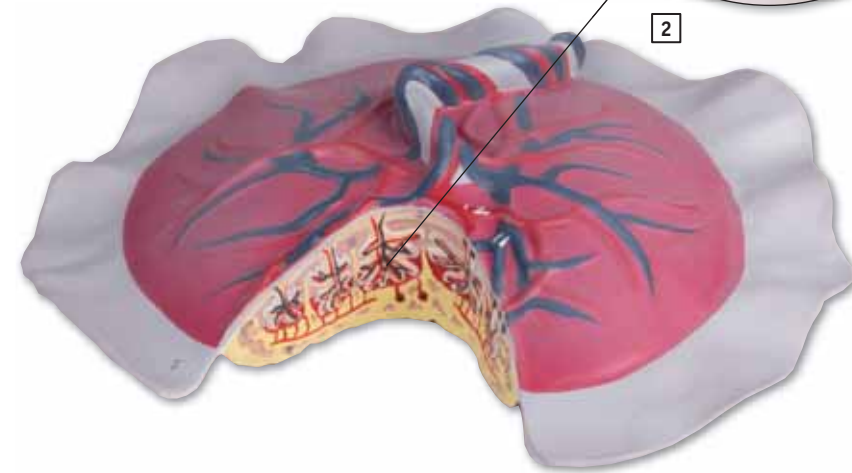
An one piece, half schematic model of the foetal heart, lungs, liver placenta and cord, aorta and vena cava in distinctive colours and marked to show the circulation and direction of flow of the blood.

Mounted on base 27 x 44 cm

■ Ref.no. G29



2

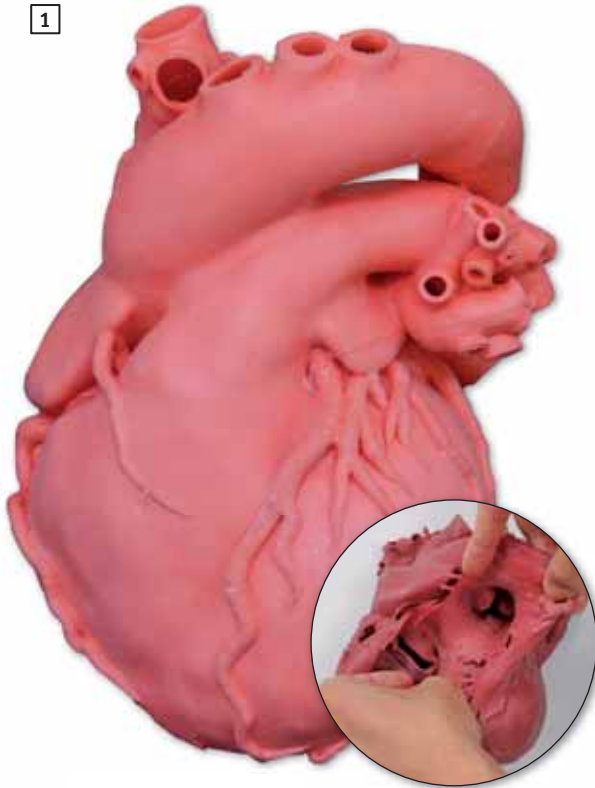


2 Placental circulation

A detailed model, natural-size, showing all the major structures of the placenta in realistic coloring, manufactured in flexible material. The cotyledons on the maternal surface are shown, with the amnion and chorion membranes on the foetal surface. The umbilical vessels can be seen through the membrane of the cord. A section into the placenta exposes the subchorial space, villi with foetal arteries and veins, decidual septa, spiral arterioles and marginal sinus. With key.

■ Ref.no. G28

1



1 Heart model, professional

2-times life size heart model is based on CT scan data of a healthy, adult male and is anatomically correct inside and out.

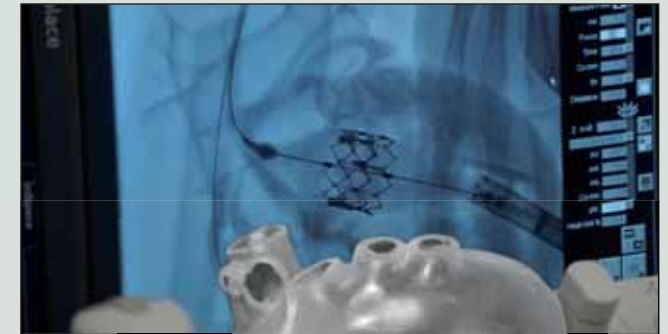
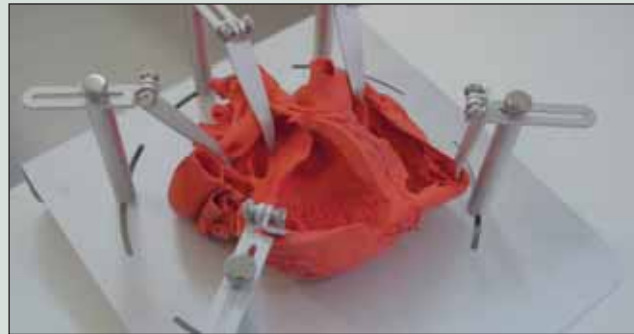
Reproduced sections: (external & luminal surfaces) right atrium, left atrium / right ventricle, left ventricle / aorta / superior & inferior vena cava / pulmonary vein / coronary artery, veins (luminal) mitral valve, tricuspid valve, aortic valve, pulmonary valve / papillary muscle / coronary sinus

The model is pliable which allows seeing all internal structures.

For easy examination a scalpel can be used on the model for opening requested areas.

Uses of the model:

- A simulator for practice in coronary artery bypass grafting or other surgery
- A catheterization simulator (coronary arteries not hollow)
- Educational model for learning surgery skills.
- **Ref.no. G520**



2 Heart model, professional, clear

This 2-times life size heart model is based on CT scan data of a healthy, adult male and is anatomically correct inside and out.

Reproduced sections: (external & luminal surfaces) right atrium, left atrium / right ventricle, left ventricle / aorta / superior & inferior vena cava / pulmonary vein / coronary artery, veins (luminal) mitral valve, tricuspid valve, aortic valve, pulmonary valve / papillary muscle / coronary sinus

The model is pliable which allows seeing all internal structures.

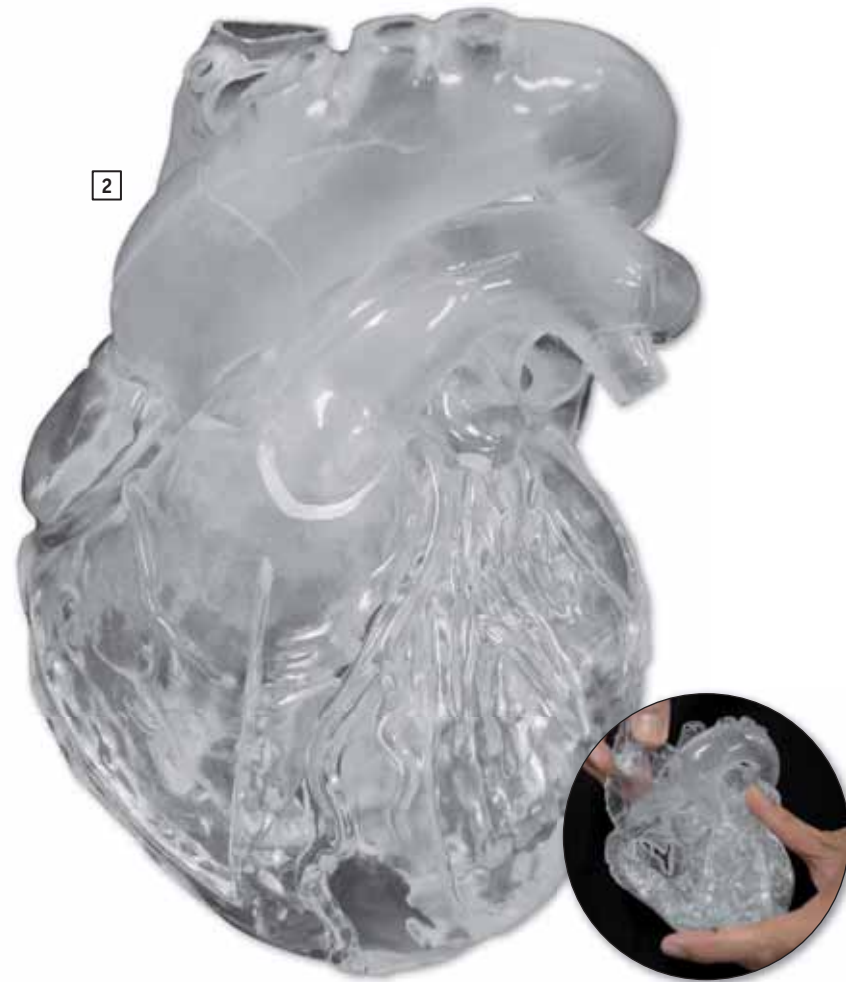
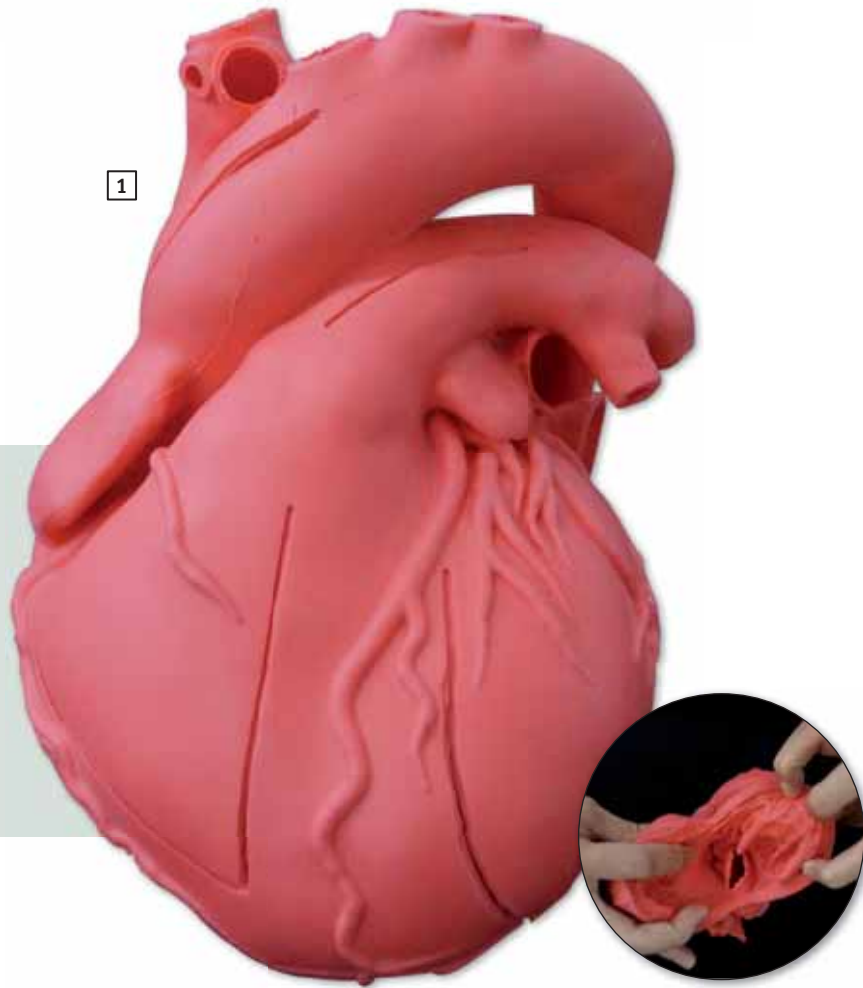
For easy examination a scalpel can be used on the model for opening requested areas.

Uses of the model:

- A simulator for practice in coronary artery bypass grafting or other surgery
- A catheterization simulator (Coronary arteries not hollow)
- Educational model for learning surgery skills.
- Stent placement
- **Ref.no. G530**

2





1 Heart model, flexible, didactical version

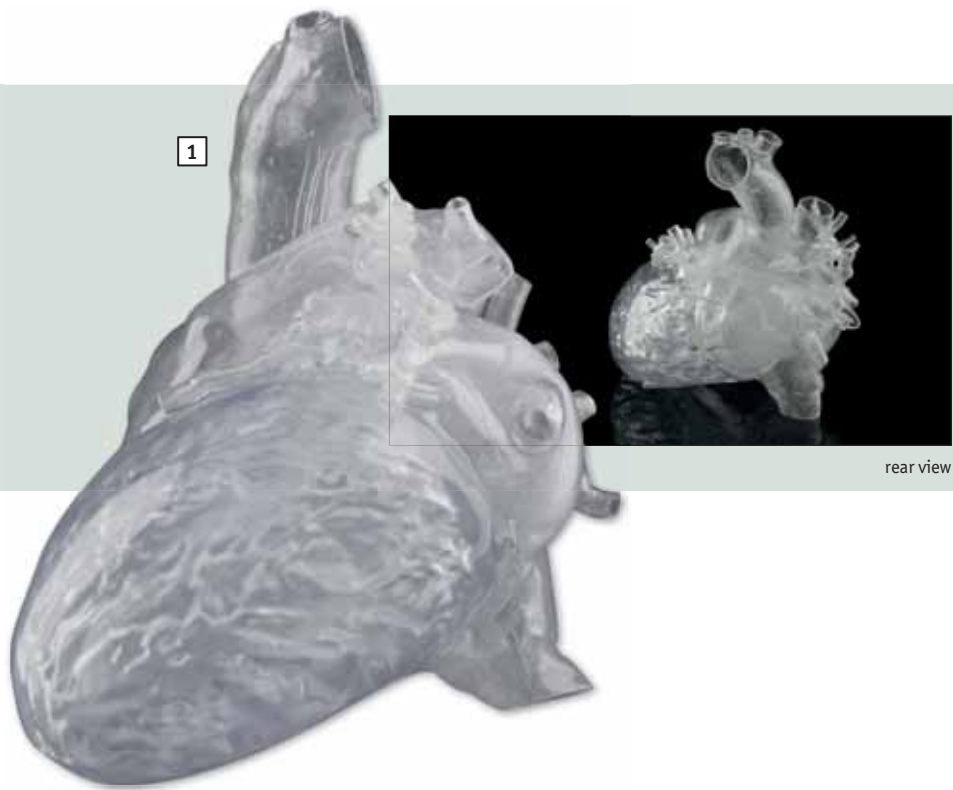
This world-wide unique model is based on CT scan data of a healthy, adult male and is anatomically correct inside and outside. The heart is made of soft and lifelike material. It is pre-cut at different positions to allow easy access to the internal structures. The perfect model for anatomical studies and for explaining the function of the heart.

■ Ref.no. G500

2 Heart model, flexible, didactical version

This world-wide unique model is based on CT scan data of a healthy, adult male and is anatomically correct inside and outside. The heart is made of soft and lifelike material and translucent. It is pre-cut at different positions to allow easy access to the internal structures. The perfect model for anatomical studies and for explaining the function of the heart.

■ Ref.no. G510



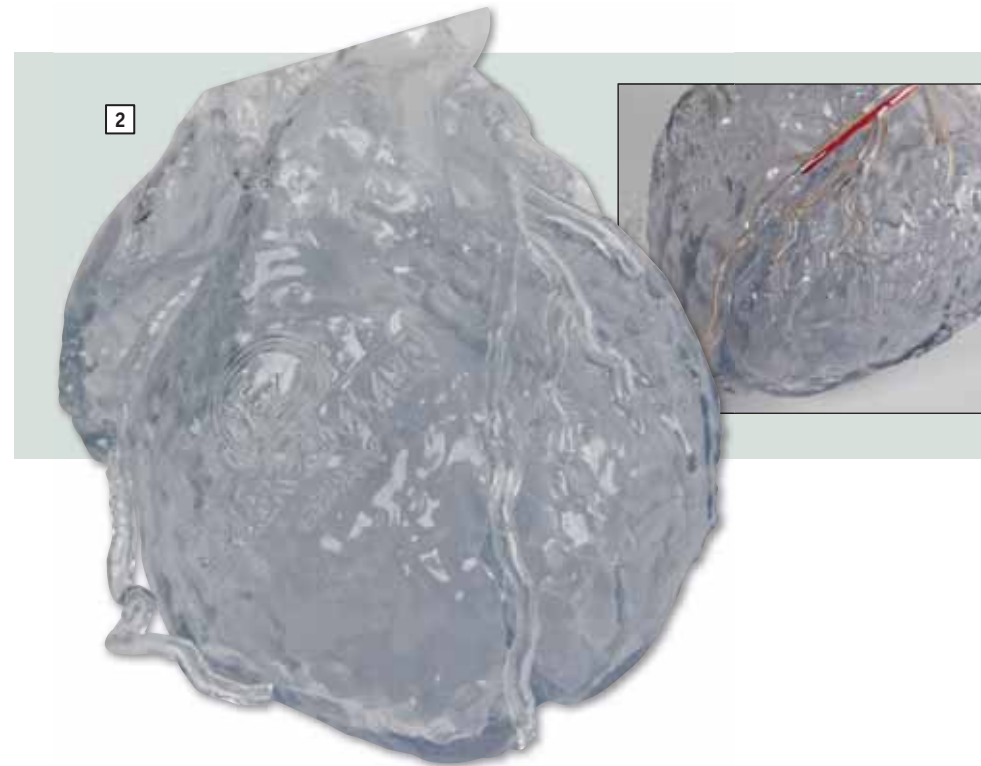
1 Transparent reproduction of a real human heart

This reproduction of a real human heart of a 76-year-old man was created from DICOM files and is exactly like the real heart. It is made of transparent plastic and has the following features:

- Full heart model with hollow chambers
- Calcifications virtually removed
- Valve annuluses present
- R&D catheter motion testing

Size: 19 x 18 x 13 cm

■ **Ref.no. R50220**



2 Transparent reproduction of a real human heart with hollow Coronaries

This reproduction of a real human heart of a 79-year-old female was created from DICOM files and is exactly like the real heart. It is made of transparent plastic and has the following features:

Training options:

- Coronary stent training and marketing
- R&D catheter motion testing
- Heart anatomy education
- Physician training demo model

Anatomy / Pathologies:

- Coronary and aortic valve calcifications
- Hollow, cosmetic transparent coronaries
- Right and left ventricle trabeculations and main papillary muscles
- Visualization cuts in the ventricles

Size: 7.5 x 6 x 9.3 cm

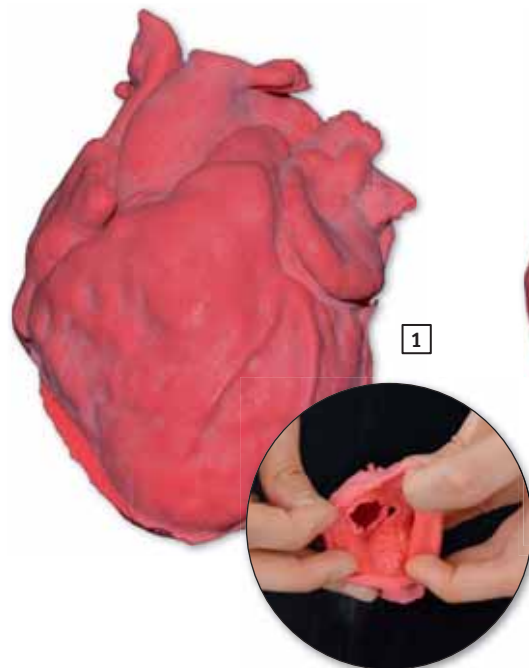
■ **Ref.no. R50320**

▼ **1 Pediatric heart with ventricular septal defect (VSD)**

The pediatric congenital heart disease model is based on actual CT data, and is a precisely produced, urethane based, soft model. This product was created with the intention of being a support tool for doctors performing treatments which require advanced skills and considerable experience. The parts listed below are reproduced along with disease specific areas: right ventricle, left ventricle, right atrium, left atrium, coronary arteries, coronary veins, aorta, superior vena cava, inferior vena cava, pulmonary vein, mitral valve, tricuspid valve, aortic valve, pulmonary valve, papillary muscle and coronary sinus.

Size: 7.4 x 7.1 x 6.6 cm

■ Ref.no. G550

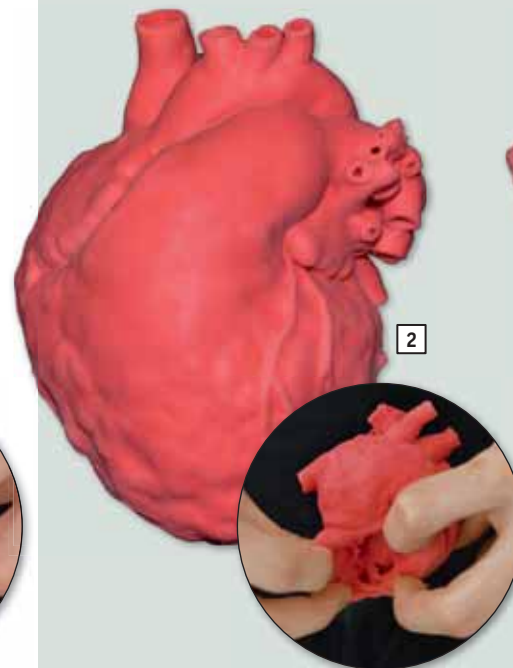


▼ **2 Pediatric heart with atrial septal defect (ASD)**

The pediatric congenital heart disease model is based on actual CT data, and is a precisely produced, urethane based, soft model. This product was created with the intention of being a support tool for doctors performing treatments which require advanced skills and considerable experience. The parts listed below are reproduced along with disease specific areas: right ventricle, left ventricle, right atrium, left atrium, coronary arteries, coronary veins, aorta, superior vena cava, inferior vena cava, pulmonary vein, mitral valve, tricuspid valve, aortic valve, pulmonary valve, papillary muscle and coronary sinus.

Size: 7.5 x 8 x 7.4 cm

■ Ref.no. G560

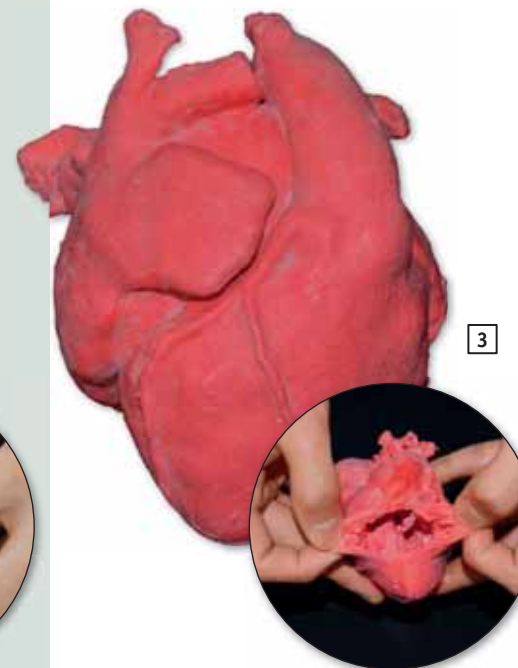


▼ **3 Pediatric heart with corrected transposition of great arteries and ventricular septal defect (VSD)**

The pediatric congenital heart disease model is based on actual CT data, and is a precisely produced, urethane based, soft model. This product was created with the intention of being a support tool for doctors performing treatments which require advanced skills and considerable experience. The parts listed below are reproduced along with disease specific areas: right ventricle, left ventricle, right atrium, left atrium, coronary arteries, coronary veins, aorta, superior vena cava, inferior vena cava, pulmonary vein, mitral valve, tricuspid valve, aortic valve, pulmonary valve, papillary muscle and coronary sinus.

Size: 8.1 x 8.9 x 8.6 cm

■ Ref.no. G570

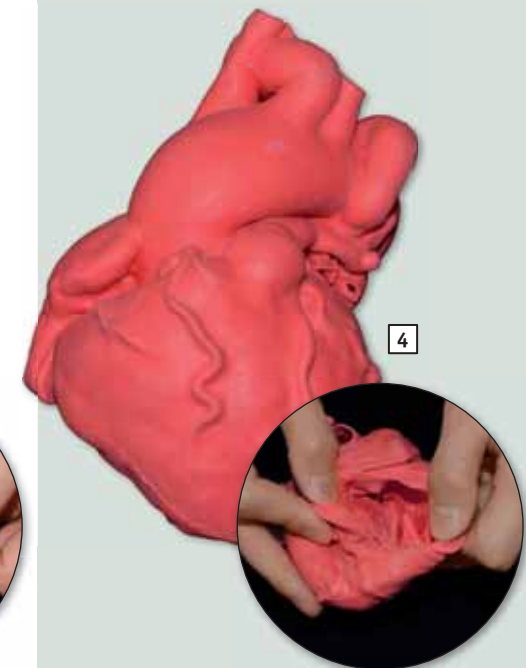


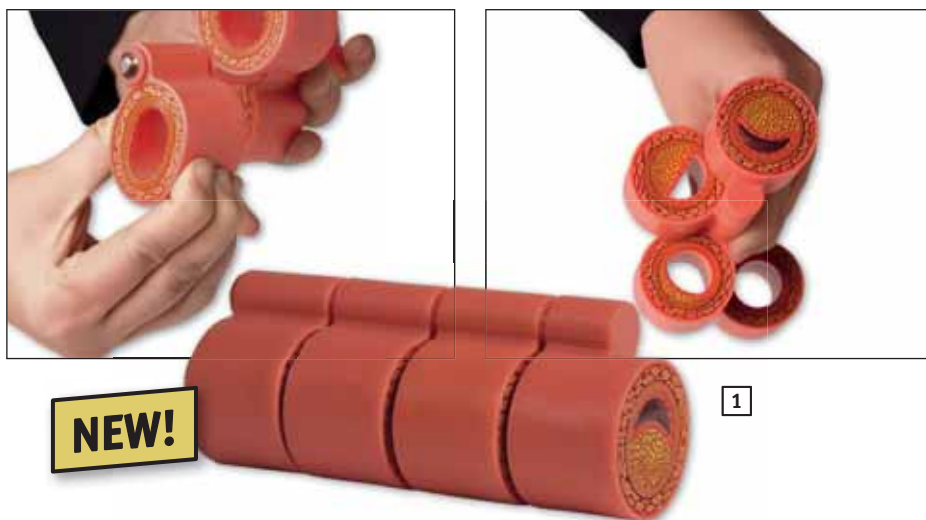
▼ **4 Pediatric heart with tetralogy of Fallot (TOF)**

The pediatric congenital heart disease model is based on actual CT data, and is a precisely produced, urethane based, soft model. This product was created with the intention of being a support tool for doctors performing treatments which require advanced skills and considerable experience. The parts listed below are reproduced along with disease specific areas: right ventricle, left ventricle, right atrium, left atrium, coronary arteries, coronary veins, aorta, superior vena cava, inferior vena cava, pulmonary vein, mitral valve, tricuspid valve, aortic valve, pulmonary valve, papillary muscle and coronary sinus.

Size: 11.1 x 12.3 x 11 cm

■ Ref.no. G580





1 Arteriosclerosis Model, 4 sections

Cross section of an artery showing 4 different stages of arteriosclerosis. The model demonstrates the narrowing of the artery due to buildup of fatty deposits (cholesterol) and formation of plaque. The Artery model is simulated with the softness of the real artery. Starting with the normal artery which is done in soft material, up to the blockage which is done in hard material.

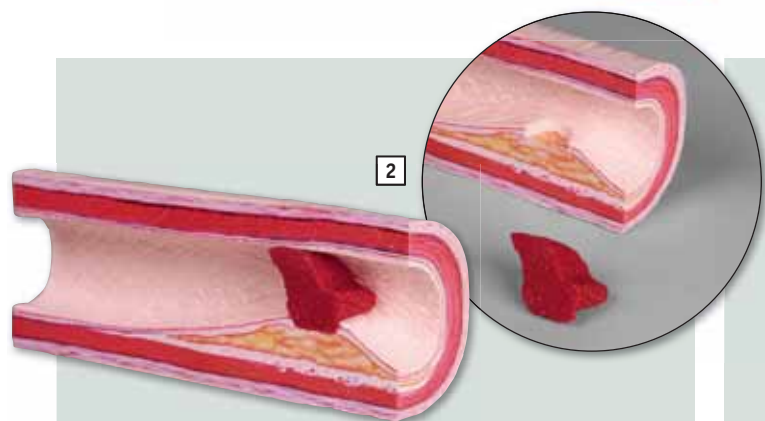
The Artery model contains 4 sections showing:

- healthy (soft)
- stage 1 (medium soft)
- stage 2 (medium hard)
- stage 3 (hard)

The narrowing of arteries limits the flow of oxygen-rich blood to parts of the body and can result in a blockage by a thrombus. The stages are mounted rotatable. The model is movable and cannot be dismantled.

Size: 13 x 5 x 4 cm

■ Ref.no. G265

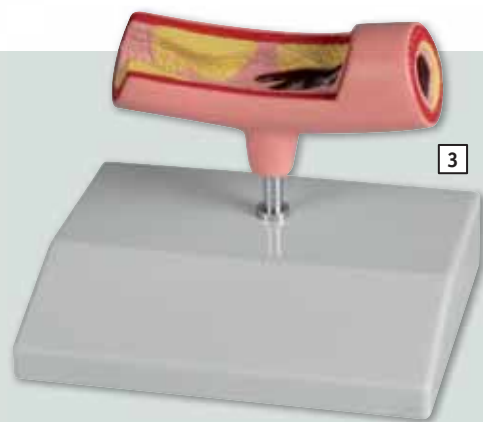


2 Atherothrombosis-model with removable thrombus

This greatly enlarged model of a human artery shows a cut through the vascular wall with intima, media and adventitia. Clearly visible there is a plaque accumulation in the vascular wall with rupture and a thrombus. The thrombus can be removed to explain the principles of formation very easily.

Size: 15 x 5.5 x 4.5 cm

■ Ref.no. G245



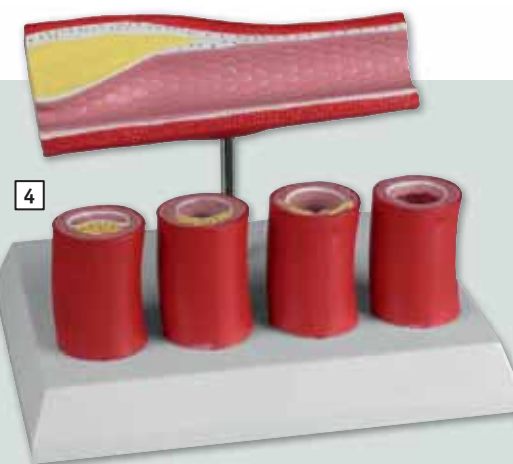
3 Artery model

Longitudinal section of an artery with constriction caused by plaque adsorption and a blockage caused by a thrombus.

Size: 10 x 4 x 4 m

Weight: 0.1 kg

■ Ref.no. G241



4 Artery with 4 artery sections

Longitudinal section of an artery with constriction caused by plaque adsorption. Four cross sections on the base show step-by-step build-up of plaque at the artery wall.

Size: 14 x 18 x 13 cm

Weight: 0.4 kg

■ Ref.no. G240

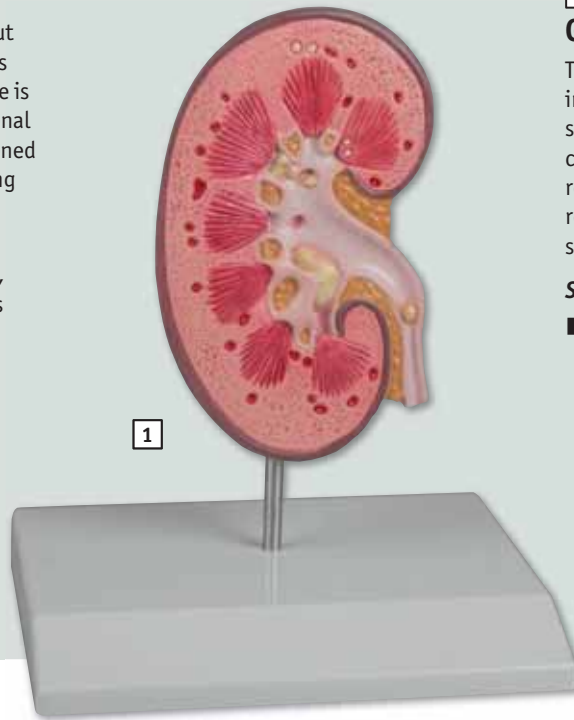
1 Kidney Stone Model ▶

This model is designed to inform patients about urinary stones (urolithiasis) and kidney stones (nephrolithiasis). A right kidney in natural size is opened to show the internal structures. The renal pelvis, the renal calices and the ureter are opened to show concretions and stones in the following locations which are typical:

- origin of the upper calix group
- connecting tubule of the lower calyx group, resulting in congestion of the minor calices
- renal cortex
- ureter
- renal pyramids

Mounted on base. With Key Card.

■ Ref.no. K229

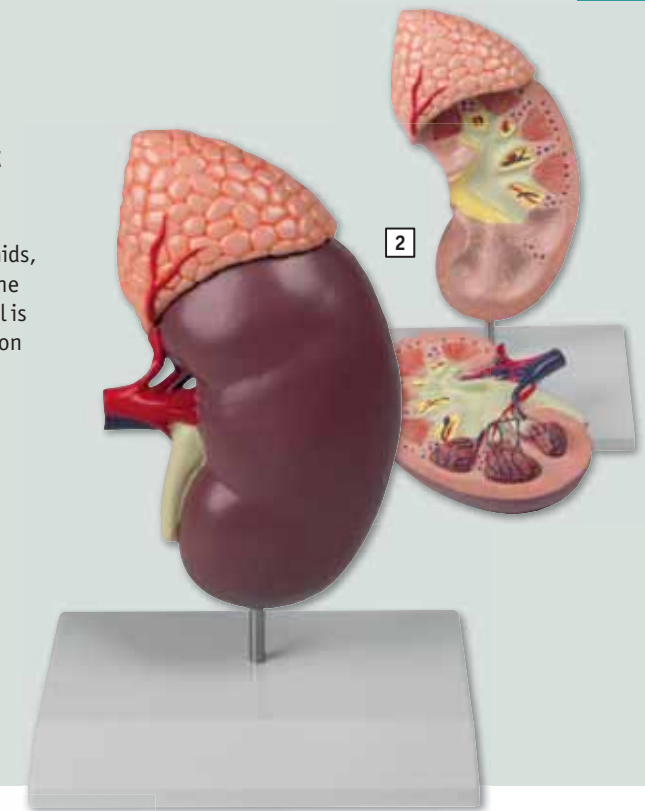


2 Kidney with Adrenal Gland, 2 times enlarged, 2-part ▶

This 2-part model shows the human kidney in about double life size. It shows internal structures including cortex, medulla, pyramids, calyces, renal pelvis, ureter and origins of the renal artery and vein. The front of the model is removable for inner examination. Mounted on stand. With Key Card.

Size: 19 x 12 x 7 cm, Weight: 0.4 kg

■ Ref.no. K213

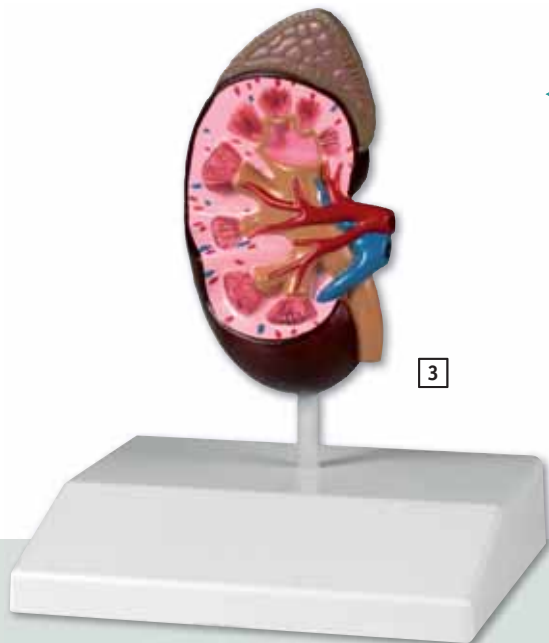


3 Kidney model ◀

This model of a human kidney in almost life size shows hand painted details of renal pelvis, renal medulla, renal calyx, renal cortex, renal artery and vein, ureter and adrenal gland. With educational card and stand.

Size: 10 x 6 x 4 cm, Weight: 0.2 kg

■ Ref.no. K212

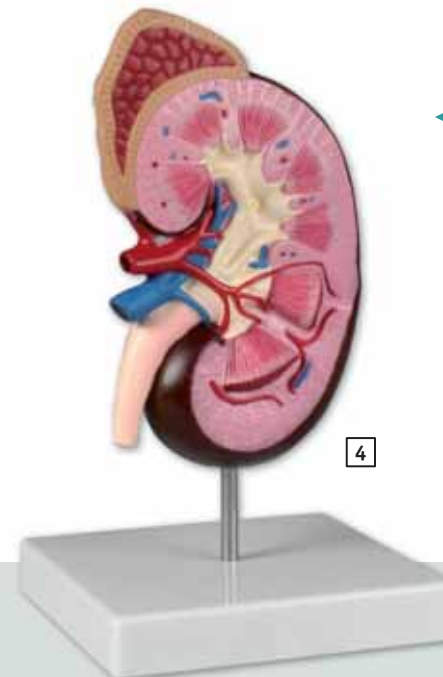


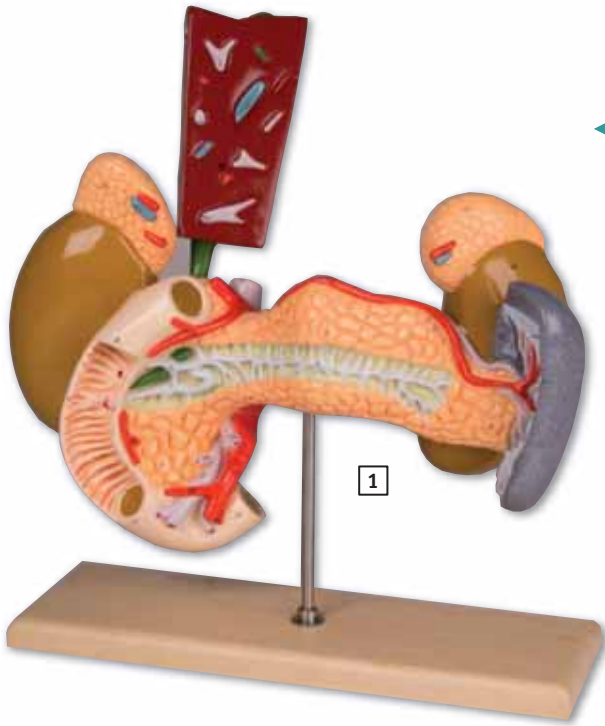
4 Kidney model, 2 times life size ◀

This model of a human kidney in about 2 times life size shows hand painted details of renal pelvis, renal medulla, renal calyx, renal cortex, renal artery and vein, ureter and adrenal gland. With educational card and stand.

Size: 16 x 10 x 5 cm, Weight: 0.3 kg

■ Ref.no. K260





1 Internal Organs, 2-part

The organs are shown partially opened, and the gall bladder is removable with part of the liver.

It depicts:

- Pancreas
- Duodenum
- Gall bladder
- Spleen
- Kidneys
- Adrenal glands
- Blood vessels

Mounted on wooden stand.

Size: 33 x 28 x 15 cm

■ Ref.no. W42509

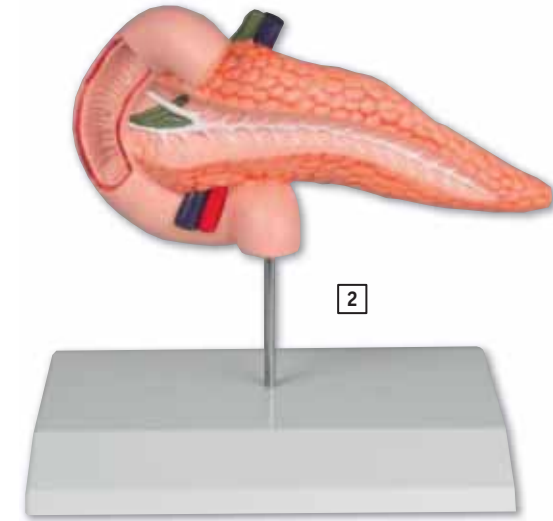
2 Pancreas and duodenum

This life size model is an accurate representation of the pancreas and duodenum.

The pancreas is open to show the entire pancreatic duct. The duodenum is partially dissected to expose its internal structure. Mounted on stand.

Size: 18 x 9 x 4 cm, Weight: approx. 0.3 kg

■ Ref.no. K222

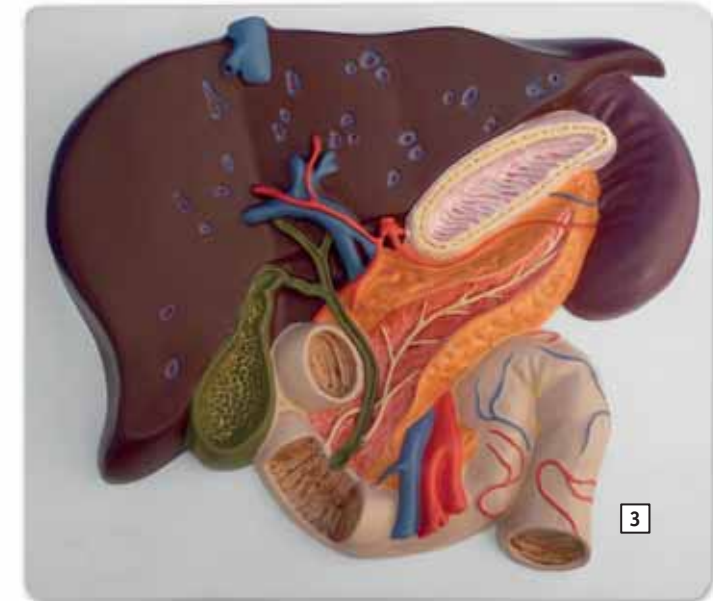


3 Liver with gall bladder, pancreas and duodenum

This life size model shows a section of the liver with gall bladder, pancreas and duodenum; includes hepatic and pancreatic ducts. Mounted on board.

Size: 4 x 20 x 18 cm

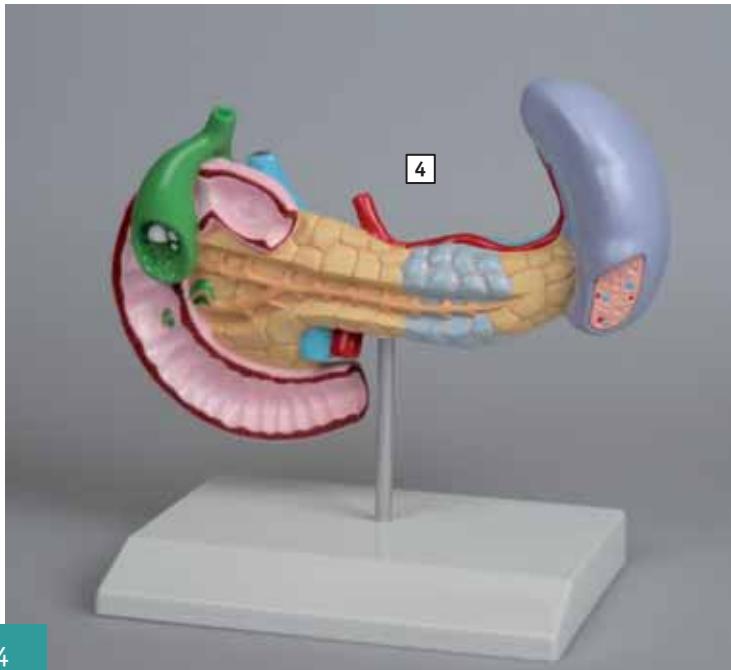
■ Ref.no. K440

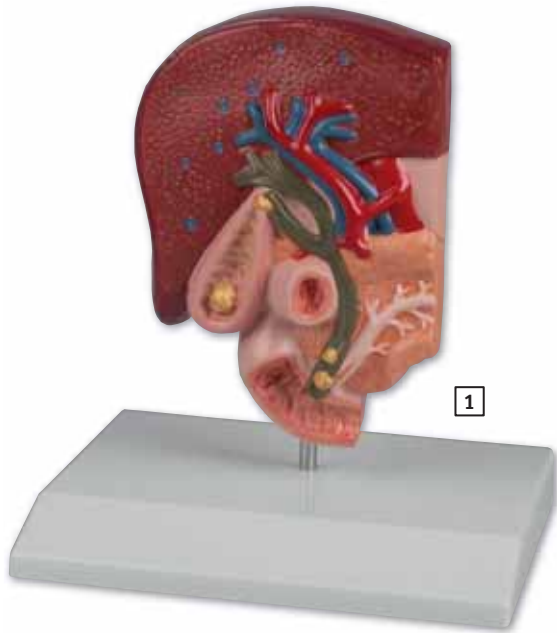


4 Diseases of Pancreas, Spleen and Gall bladder

This full size model shows pancreatic cancer, the gallbladder with stones, a ruptured spleen and duodenum with an ulcer.

■ Ref.no. K295





1 Gallstone Model

This half natural size model shows the anatomy of the biliary system and its surroundings in great detail. Both the tissue changes caused by chronic inflammation and acute inflammation (cholecystitis) are represented in the gallbladder wall. Gallstones are shown in the following typical places:

- spiral valve
- fundus of the gall bladder
- common bile duct
- papillary opening to the small intestine.

Mounted on base.

■ Ref.no. K226

2 Liver model with gallbladder

This realistic model reproduces a liver with the gall bladder. The hilus vessels are shown as well as the extrahepatic ducts and the main ligaments. Mounted on removable stand.

Size: 16 x 12 x 11 cm

■ Ref.no. K225



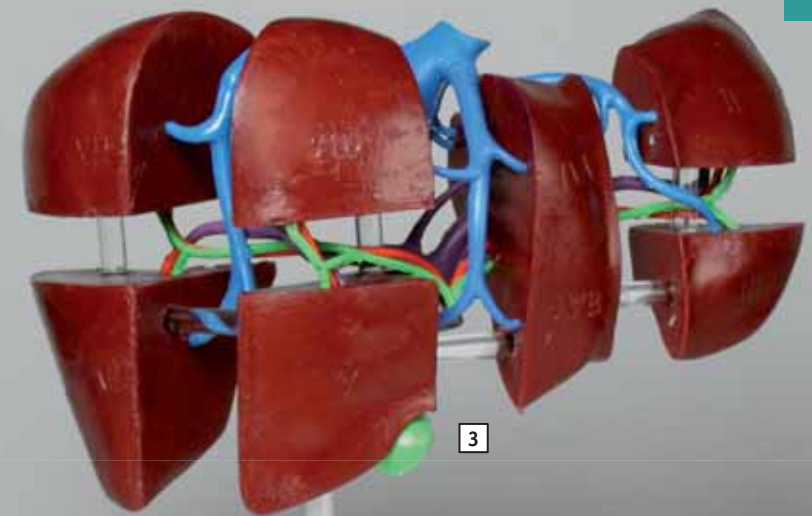
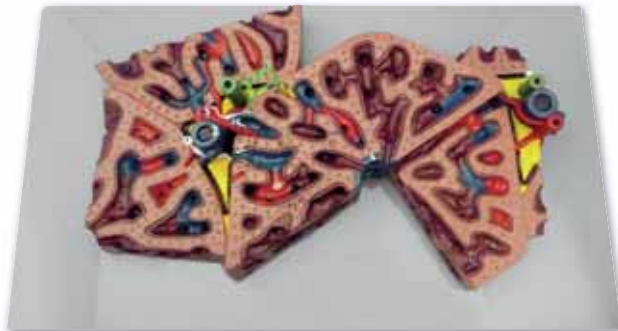
4

4 Liver Lobule

This greatly enlarged model shows the fine detail of a single liver lobule, which is sectioned and shown in relationship to portions of surrounding lobules. The fine colouring distinguishes the portal veins and vessels, venous sinusoids and central veins with sections through the bile canaliculi. With key.

Size: 25 x 15 x 6 cm

■ Ref.no. K78



3 Segmental Liver

This reduced size model shows the division of the liver into 8 liver segments after C. Couinaud. It explains the separate vessel supply of the individual segments. The distribution of the portal vein separates the liver in a transverse plane into an upper (cranial) and lower (caudal) Segment group.

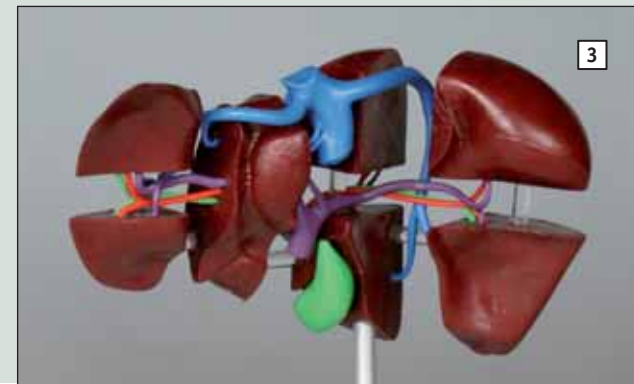
The following segments are depicted:

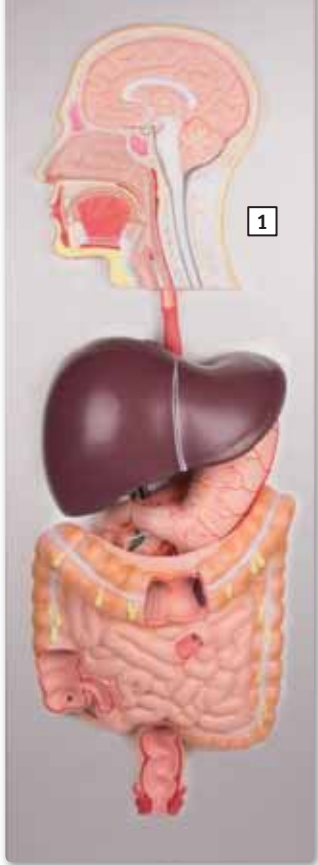
- Left Liver Lobe
- Segment I caudate lobe
- Segment II cranial part of lateral segment
- Segment III caudal part of lateral segment
- Segment IV quadrate lobe
- Segment IVa cranial part
- Segment IVb caudal part
- Right Liver Lobe
- Segment V caudal part of anterior segment
- Segment VI caudal part of posterior segment
- Segment VII cranial part of posterior segment
- Segment VIII cranial part of anterior segment

The model is not dissectible and comes on a removable stand.

Size: 18 x 13 x 17 cm, **Weight:** 0.5 kg

■ Ref.no. K79



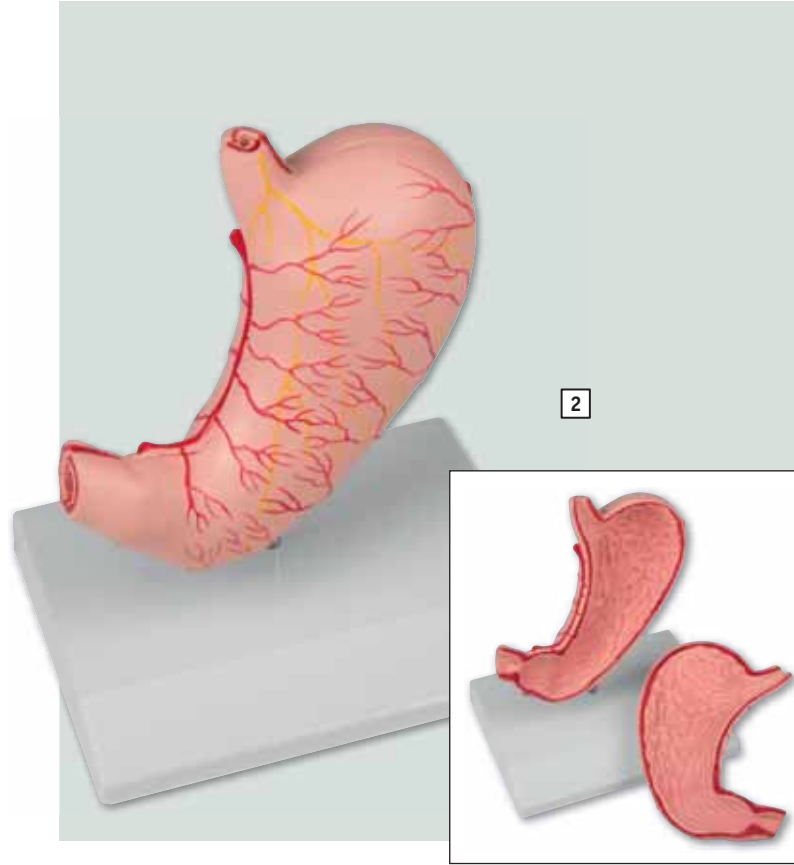


1 Human digestive system, 5 parts

This life size model shows the human digestive tract from mouth cavity to rectum. The oral cavity, the pharynx and the first part of the esophagus are dissected along the medial sagittal plane. The liver is shown together with the gall bladder and is removable. The removable pancreas and duodenum are dissected to expose internal features. The stomach is removable and can be dismantled into two parts, the duodenum, caecum, part of the small intestine, large intestine and the rectum are open to expose the interior. Mounted on board.

Size: 90 x 31 x 13 cm

■ **Ref.no. K221**

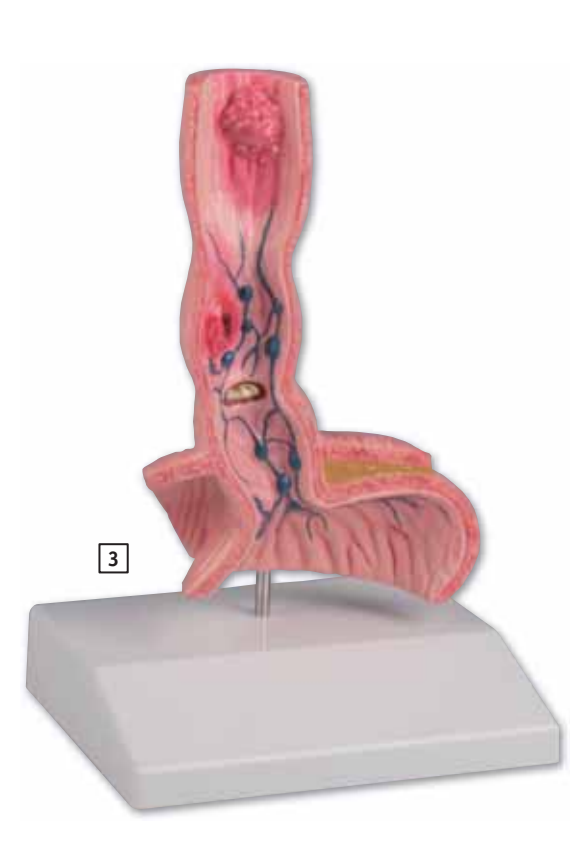


2 Stomach, life size, 2 parts

This life size model is dissected along the medial plane and can be opened to show the internal structure of the stomach, including the cardia, the mucosa and the pylorus. The model also shows the blood vessels. Mounted on stand.

Size: 15 x 15 x 6 cm, **Weight:** 0.5 kg

■ **Ref.no. K215**



3 Oesophagus Diseases

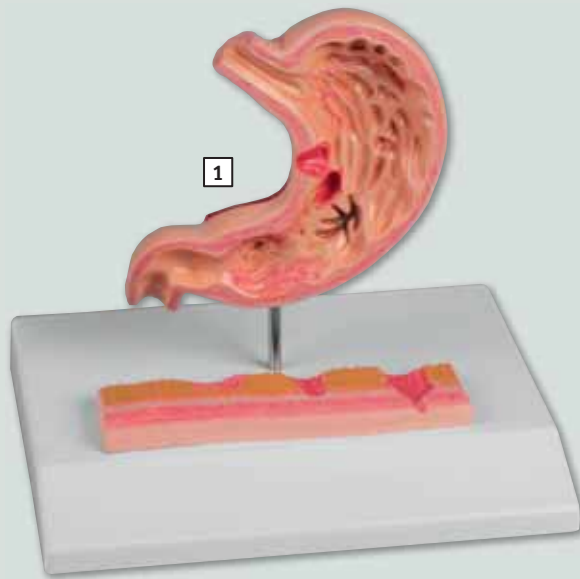
This life-size model shows a frontal section of the lower part of the oesophagus and the upper part of the stomach.

The most common diseases are depicted:

- Hiatal hernia
- Ulcer
- Reflux oesophagitis
- Barrett's Ulcer
- Oesophageal varices
- Oesophageal carcinoma

Mounted on base.

■ **Ref.no. K218**



1 Stomach with Ulcers

This reduced size model shows different stages of gastritis starting from light ulcer and ending in perforation. The section model shows the lower part of esophagus, the stomach and the start of duodenum.

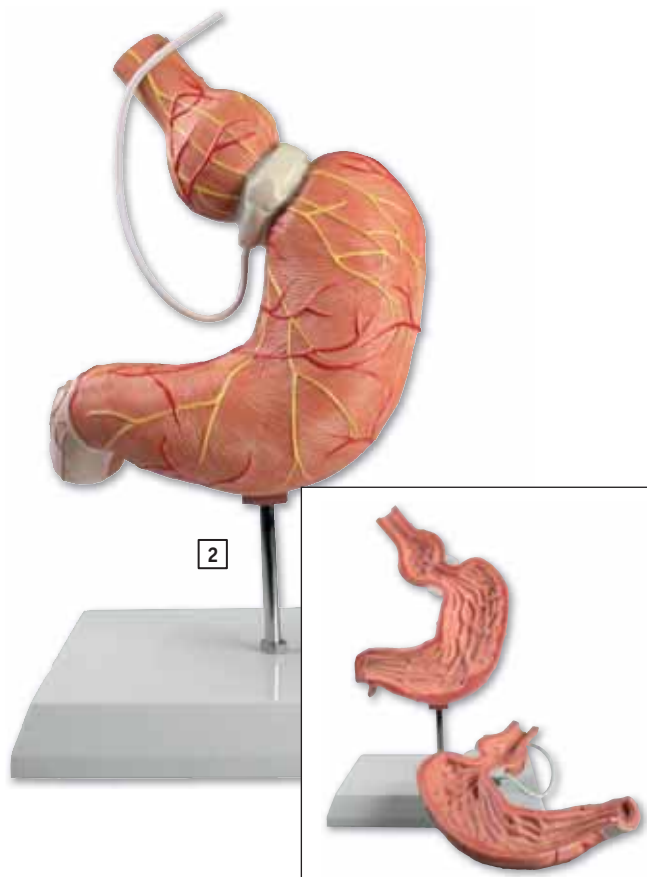
It shows the following pathologies:

- Hypertrophic gastritis
- Hemorrhagic gastritis
- Erosive gastritis
- Erythematous gastritis
- Healing stage with scar formation
- Bleeding ulcer
- Perforated ulcer

On Stand.

Size stomach: 12 x 9 x 2 cm, **Size cross section:** 12 x 3 x 1 cm
Weight: 0.2 kg

■ Ref.no. K217

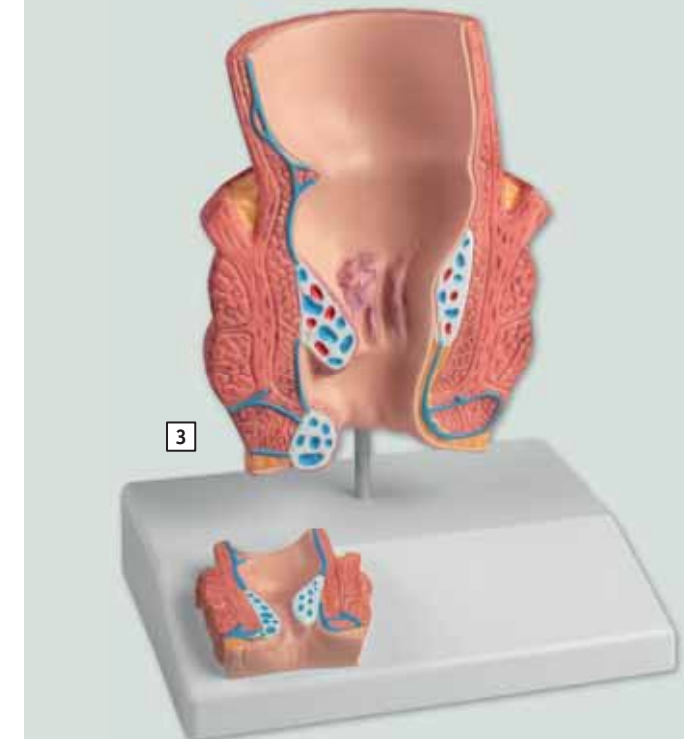


2 Stomach model with gastric band

This stomach model in life size shows the function of a gastric band. In this model the effect of this band used in morbid obesity can clearly be seen. The model can be taken apart into two halves to show the inner anatomical structures. On removable stand.

Size: 15 x 6 x 18 cm, **Weight:** 0.5 kg

■ Ref.no. K82

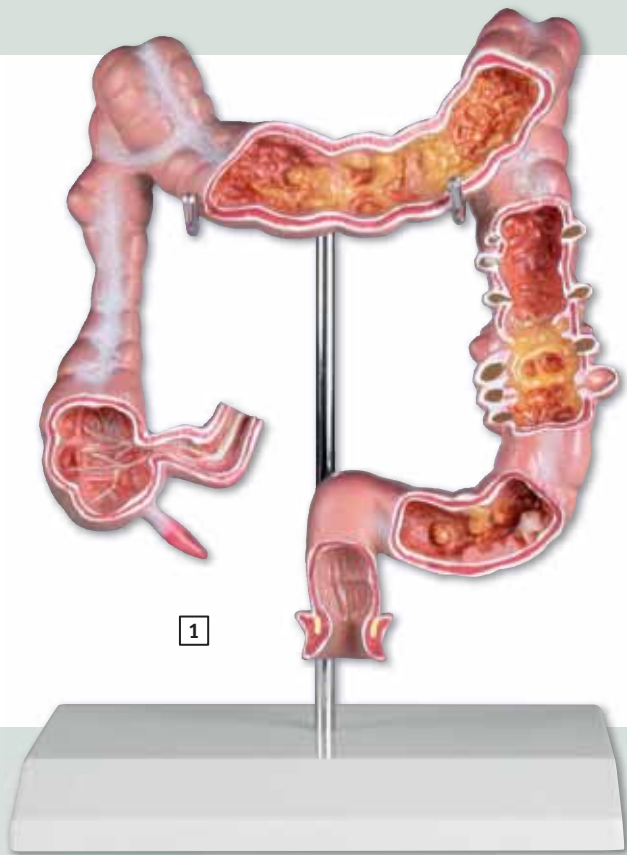


3 Haemorrhoids model

This descriptive model for patient education in about twice life size shows a frontal section through the rectum. Additionally a smaller section can be found on the base as relief. The model shows outer haemorrhoids as well as inner haemorrhoids stage I and II. The additional relief model shows haemorrhoids stage III and IV. Also the anatomical structures of rectum, sphincter and venous plexus are represented.

Size: 17 x 12 x 10 cm

■ Ref.no. K227



1

1 Colon model with diseases

Reduced size model of a human colon showing ileum, caecum, ascending colon, transverse colon, descending colon, sigmoid colon and rectum. The following diseases are depicted: appendicitis, Crohn's disease, irritable bowel syndrome, ulcerative colitis, pseudomembranous colitis, diverticulosis, diverticulitis, carcinoma and colorectal polyps. On removable stand. With educational card.

■ Ref.no. K285



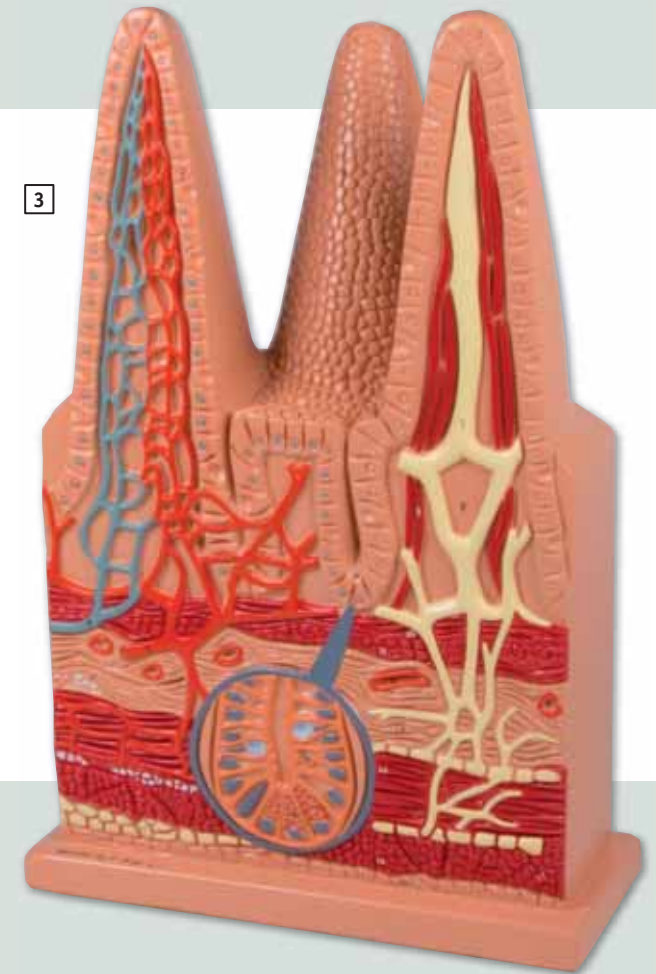
2

2 Villus enlarged, 2-parts

This greatly enlarged 2-part model of a villus from the small intestine shows detail from a transverse and longitudinal section. Mounted on base, with key card.

Size: 17.5 x 15 cm

■ Ref.no. K490



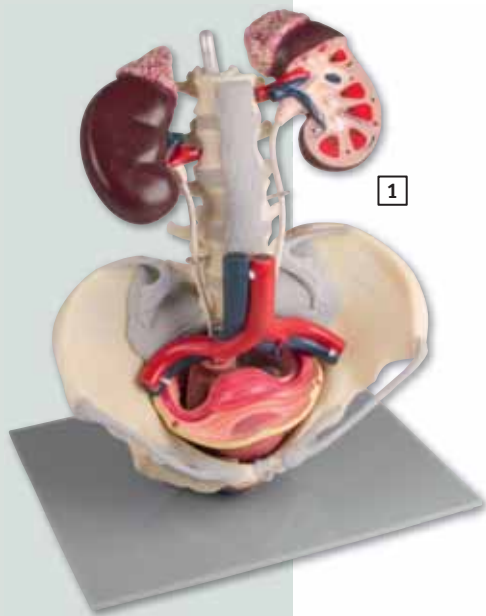
3

3 Intestinal Villi, 100 times life-size

This 100 times life-size model consists of one entire villus, one longitudinally sectioned villus showing the arterioles and venules and one cross-sectioned villus to show the lymphatic vessels. Also includes a longitudinal section of Lieberkühn's crypt.

Size: 43 x 28 x 10 cm

■ Ref.no. W42507

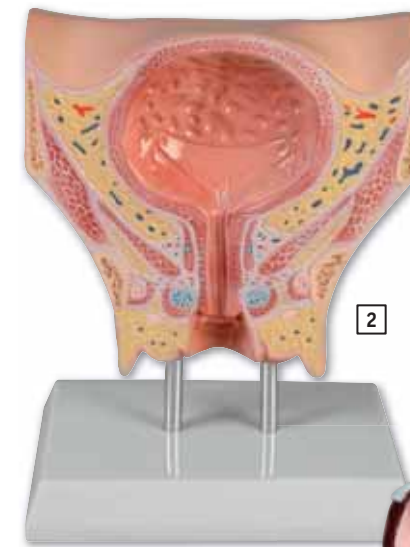


1 Urogenital Organs, Female

Life size, with pelvis and five lumbar vertebrae with ligaments, pelvic floor, urogenital organs, kidneys, ureters and abdominal aorta. Mounted on stand.

Size: 44 x 30 x 20 cm

■ Ref.no. K33

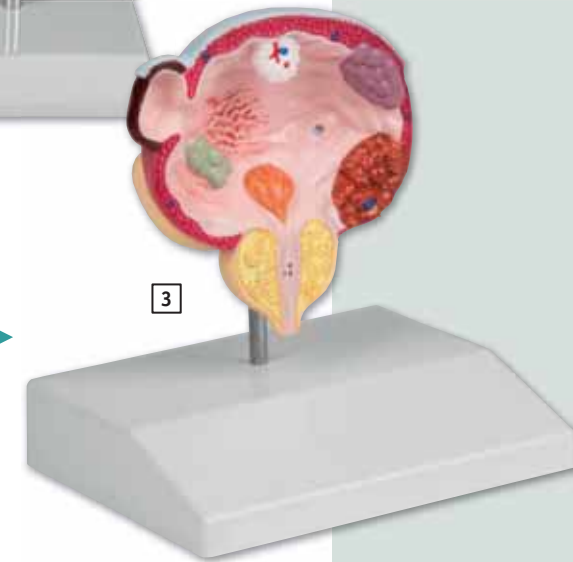


2 Female bladder

This model of a female bladder in about life size shows all anatomical structures as cross section. Bladder, urethra and sphincter are clearly visible. Perfect as patient education tool for pelvic floor training.

Size: 16 x 15 x 4 cm, **Weight:** 0.6 kg

■ Ref.no. K245

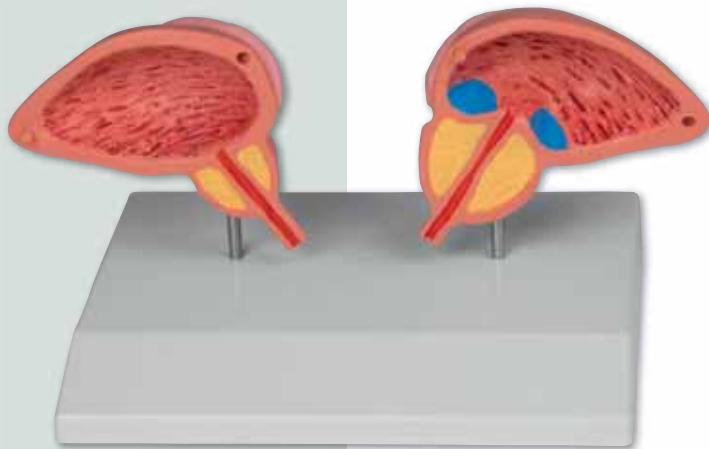


3 Diseases of bladder and prostate

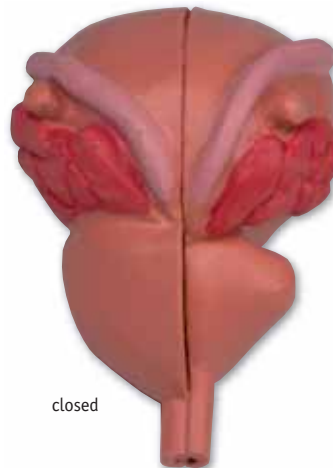
This life-size model is sectioned along the frontal plane and shows, five different pathologies of the male urinary bladder in the typical location: cystitis, bladder stones, benign prostatic hypertrophy (BPH), diverticulum, as well as bladder tumour at three different stages. Mounted on stand.

Size: 12 x 10 x 16 cm, **Weight:** 0.2 kg

■ Ref.no. K243



4



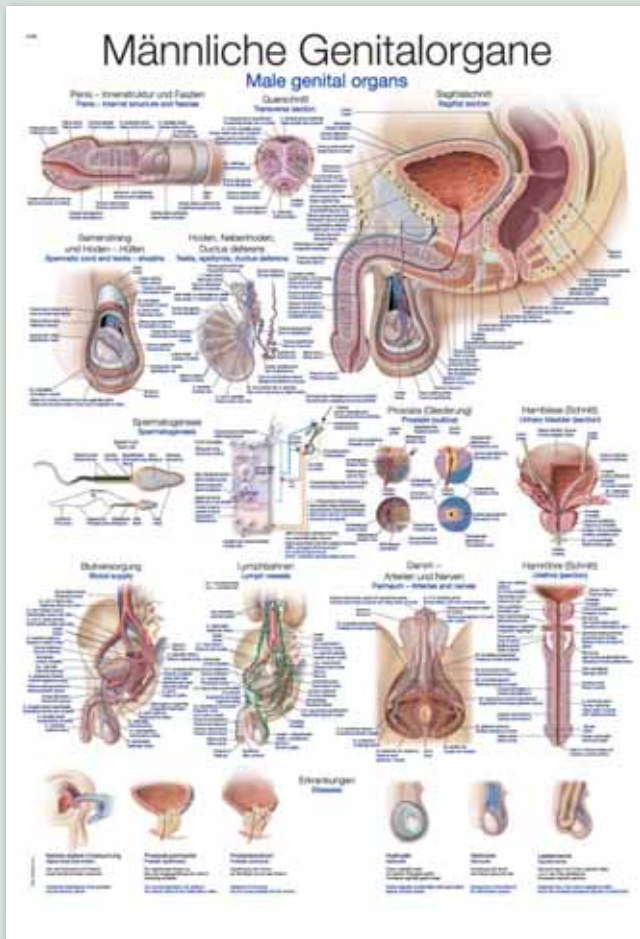
closed

4 Prostate Model, 2-part

This model shows very impressive the changes of the prostate caused by BPH. One side of the model shows a healthy prostate with bladder and the other half has a diseased prostate with narrowing of the urethra and residual urine. On removable stand.

Size: 20 x 9 x 13 cm

■ Ref.no. 1261



1

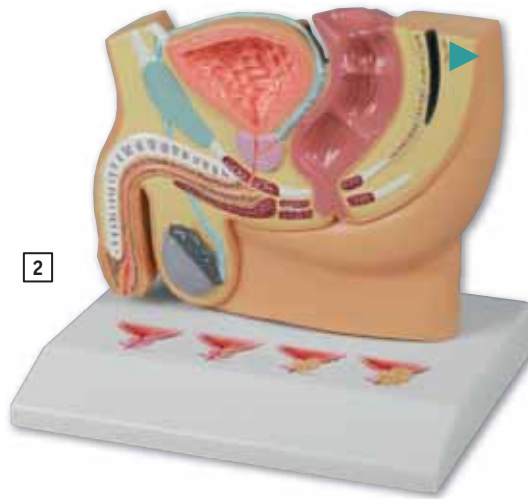
1 Chart „Male genital organs“

70 x 100 cm, plastic, with metal edging and hanger.
German, English.

■ Ref.no. AL123

50 x 70 cm, art paper, with rods and hanger.
German, English.

■ Ref.no. AL523



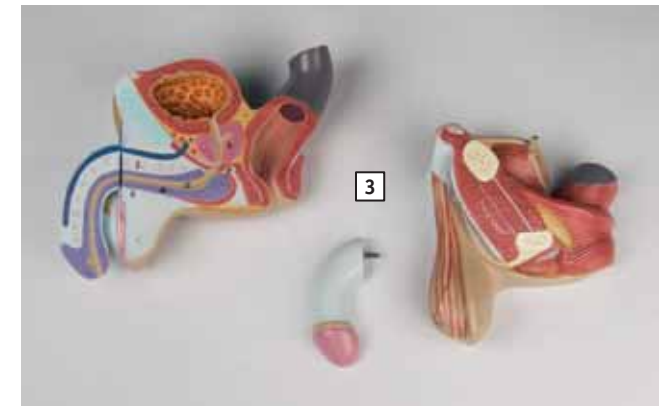
2

2 Male Pelvis section with PBH

This model in about halflife size schows a sagittal section of a male pelvis. The base shows four cross sections of the prostate gland. One cross section shows a helathy prostate, the others show three stages of Benign Prostatic Hyperplasia (BPH).

Model size: 13 x 16 x 2 cm, **Base** 13 x 16,5 cm

■ Ref.no. H224



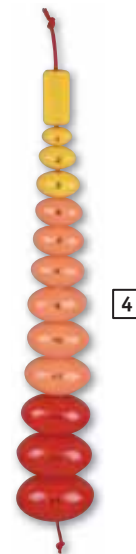
3

3 Male genital organs, 4 part

This life size 4 part model is dissected through the median sagittal plane and provides excellent views of external and internal structures. The removable parts include two halves of the penis, showing medial and transverse sections, and two halves of the male reproductive system with excellent detailing of internal structures.

Size: 14 x 20 x 12 cm, **Weight:** approx. 0.5 kg

■ Ref.no. L250



4

4 Orchidometer, plastic

Orchidometer for diagnosis of testicle volume. Consists of prepubertal testicles (1 to 3ml) in yellow, pubertal testicles (4 to 12ml) in orange and adult testicles (15 to 25ml) in red. Strong plastic material, hygienic, on rope.

■ Ref.no. OM20

1 Male Pelvis, life size, 4-part

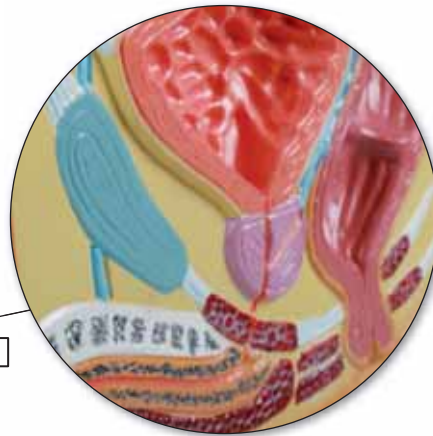
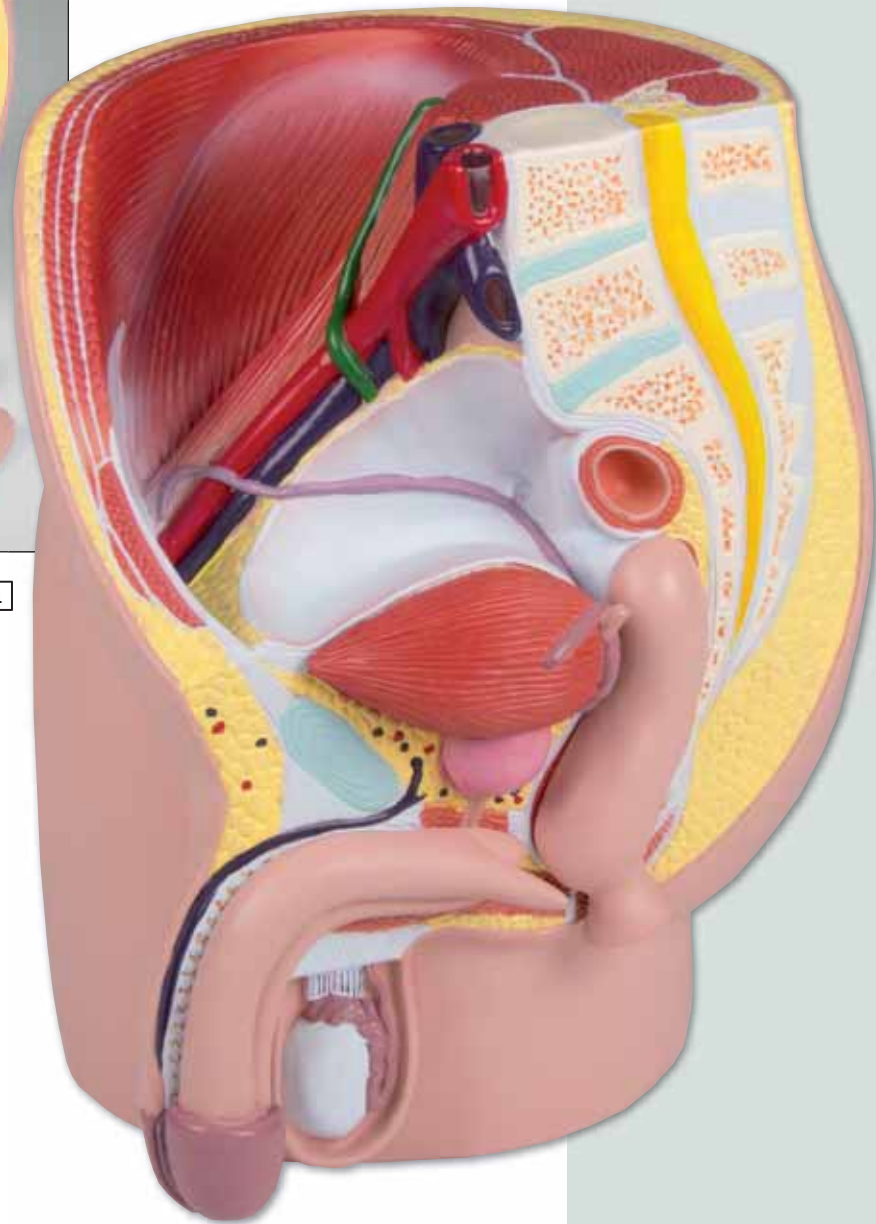
This life size model is median sagittal sectioned and shows the male pelvis in 4 parts. Additional to muscles and vessels of the abdomen it depicts particularly the urogenital organs. Removable are one half of the cavernous body, one half of the bladder with prostate and one half of bowel with rectum.

Size: 21 x 19 x 25 cm, Weight: approx. 1 kg

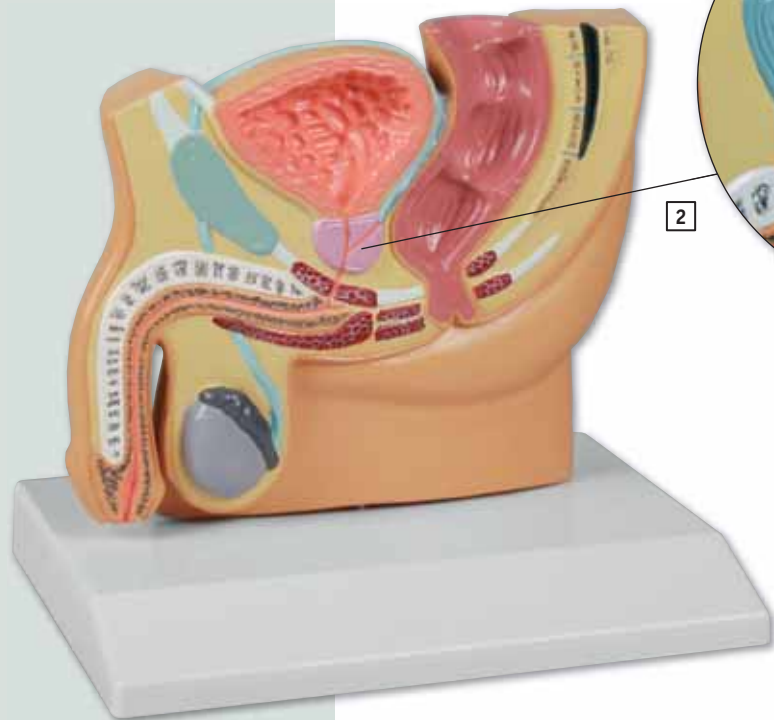
■ Ref.no. H211



1



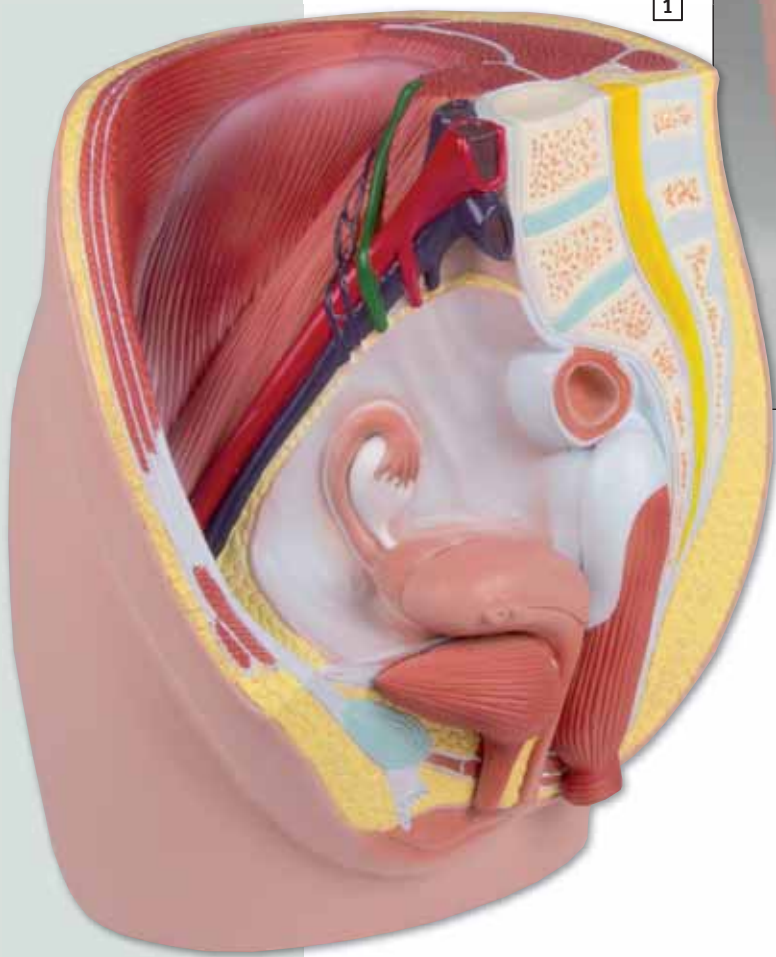
2



2 Male pelvis section, reduced size

Median section of a male pelvis reduced to about half life size. Representation of male reproductive system, bladder, prostate, urethra and rectum.

■ Ref.no. H221



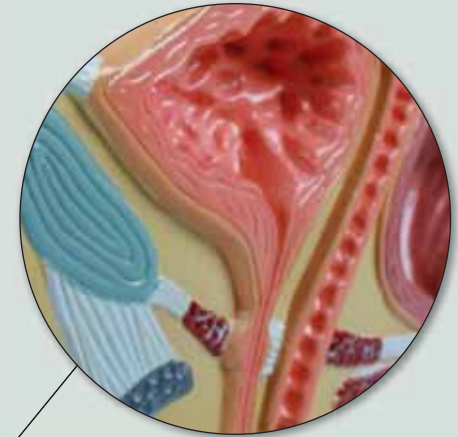
1

1 Female Pelvis, life size, 3-part

This life size model is median sagittal sectioned and shows the female pelvis in 3 parts. Additional to muscles and vessels of the abdomen it depicts particularly the urogenital organs. Removable are one half of the uterus, vagina and bladder as well as one half of bowel with rectum.

Size: 22 x 20 x 25 cm, Weight: approx. 1 kg

■ Ref.no. H210

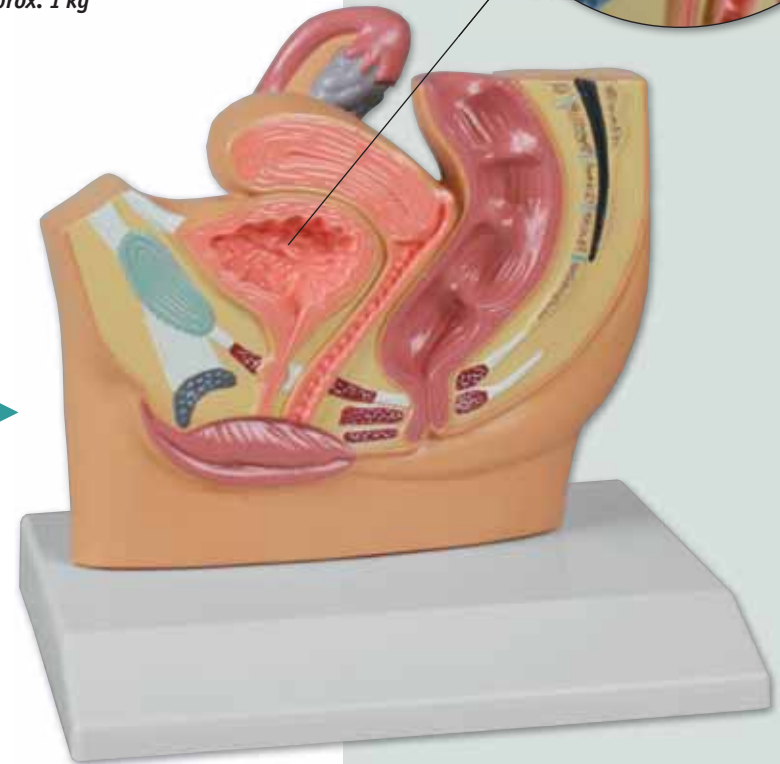


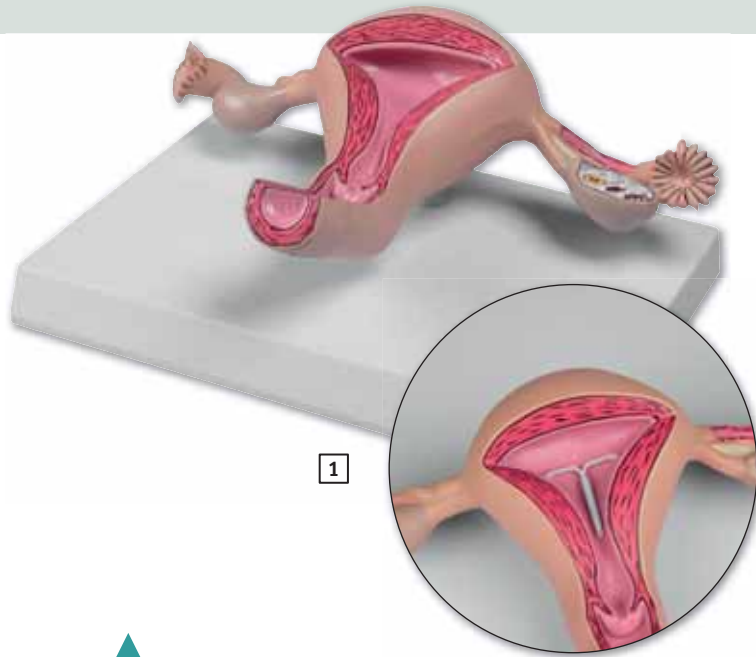
2

2 Female pelvis section, reduced size

Median section of a female pelvis reduced to about half life size. Representation of female reproductive system, bladder, urethra and rectum.

■ Ref.no. H220





1 Uterus model

Life size model of a healthy uterus. Anatomy is shown in detail, structures are carefully painted by hand. Cervix, endocervical canal, uterine cavity are sectioned to show endometrium and myometrium. Also one fallopian tube and one ovary are opened, follicles and oogenesis can be seen. An educational card locates the anatomy. Perfect for IUD demonstration. IUD not included. On removable stand.

Size: 23 x 16 x 6 cm, **Weight:** 0.5 kg

■ Ref.no. L261

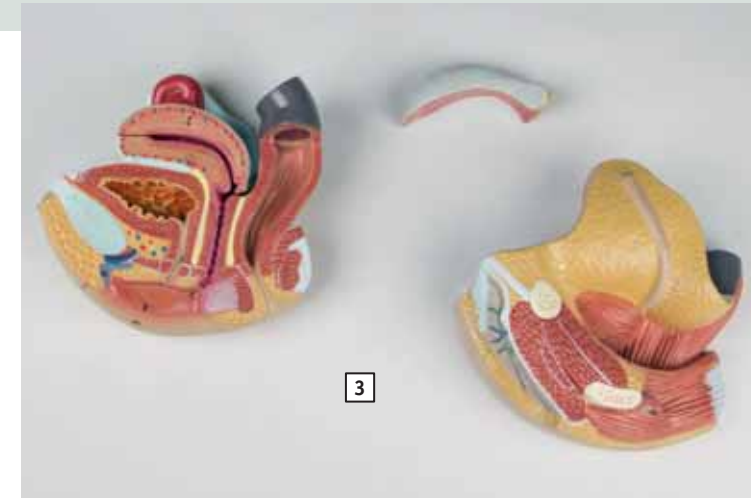


2 Uterus with diseases

Life size model of an uterus with multiple diseases. It shows endometriosis, cysts, adhesions, fibroma, cervical carcinoma, sarcoma, adenomyosis, polyps and salpingitis. Of course normal anatomy is also represented. It shows vagina, cervix, endometrium, myometrium, endocervical canal, uterine cavity, fallopian tube, ovary, fimbria, follicles and mesosalpinx. An educational card locates the diseases and anatomy. On removable stand.

Size: 23 x 16 x 6 cm, **Weight:** 0.5 kg

■ Ref.no. L262



3 Female genital organs, 4 parts

This life size model, composed of 4 parts, is a detailed representation of the female reproductive system as viewed through a median sagittal dissection. Removable parts include a 2-part uterus and two halves of the female reproductive apparatus with details of the internal structure.

Size: 14 x 14 x 12 cm, **Weight:** approx. 0.5 kg

■ Ref.no. L251



1 Pregnancy Model Set, 9 models

This series was developed in cooperation with a German midwifery school and is composed of 8 life-size models and one enlarged model. It illustrates the human development from the 4th week to the 24th week. All the main anatomical structures of the uterus and embryo/fetus are well represented and explained on the manual.

The models show:

- Embryo, 4 weeks, enlarged
- Embryo in uterus, 4 weeks
- Embryo in uterus, 8 weeks
- Fetus in uterus, 12 weeks
- Fetus in uterus, 16 weeks
- Fetus in uterus, transverse presentation, 24 weeks
- Twins in uterus, 2 separate placentas, 16 weeks
- Twins in uterus, 1 common placenta, 16 weeks

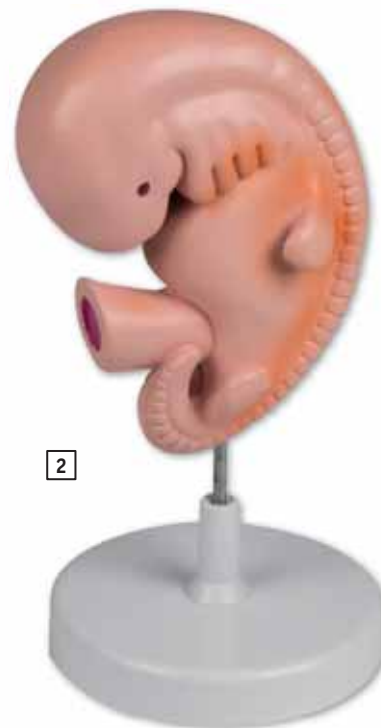
Each model is mounted on a removable stand. Some models allow removable of the fetus.

■ Ref.no. L204

2 Human Embryo, 4 Weeks

This model, about 40 times life size, shows structural details of a human embryo at 4 weeks of development.

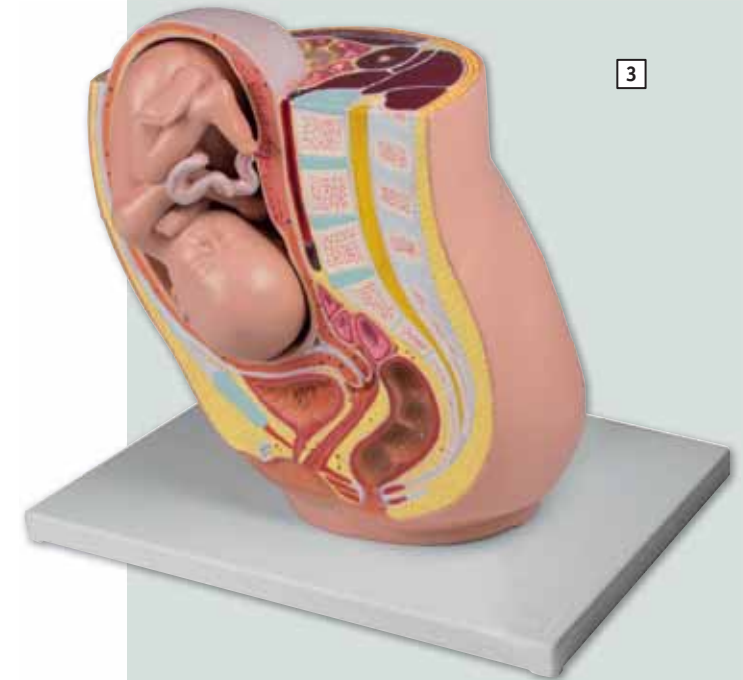
■ Ref.no. L215

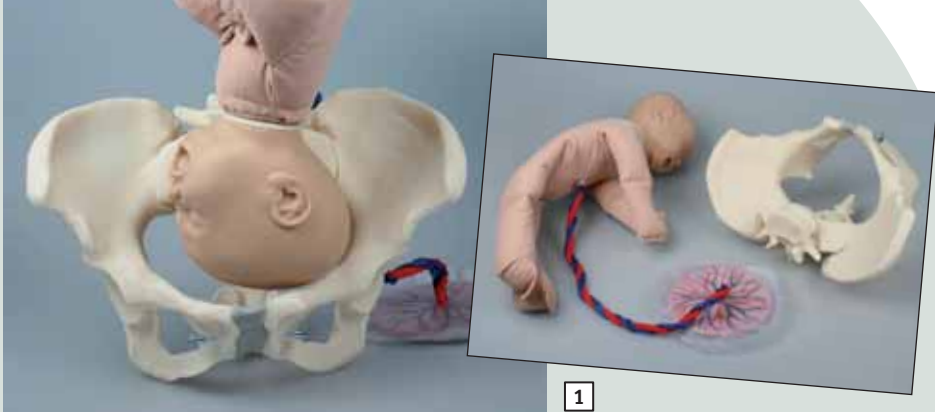


3 Pregnancy Pelvis with Fetus in the 32nd week of pregnancy, 2 Parts

This life size model depicts the female human pelvis in median section with a fetus in the 32nd week of pregnancy. The fetus is in the normal presentation and position. The model depicts graphically the position and relation of fetus and inner organs during normal pregnancy. All anatomical details of pelvis and fetus are depicted. The fetus is detachable for closer examination. Mounted on base.

■ Ref.no. L220





1 Female pelvis with fetus doll

With foetus doll, umbilical cord, and placenta. Natural casting of a female pelvis with life-size foetus doll made of cloth (plastic head). Comes in carrying bag.

■ Ref.no. 4071

2 Fetus doll with placenta

■ Ref.no. 4071-1

3 Fetus doll without Placenta

■ Ref.no. 4071-2



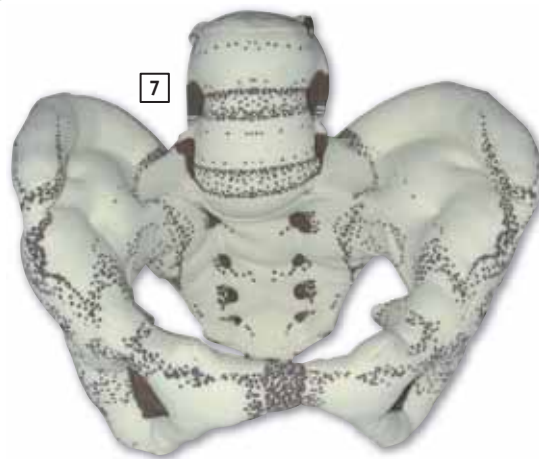
6 Miniature birth demonstration set

In carrying bag.

■ Ref.no. 4072



Female bony pelvises and pelvic floor models can be found on pages 18 - 21



7 Cloth Pelvis

Made of flexible cloth, this pelvic model shows how the different pelvic shapes affect pregnancy, labor and birth.

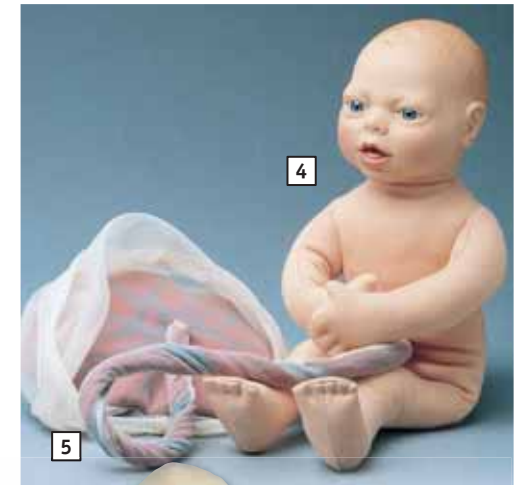
■ Ref.no. R10072

4 Fetus doll

Simulating an average full-term fetus, made of soft and durable cloth (head plastic). The body is flexible to show all presentations and positions.

Fits into pelvis R10072.

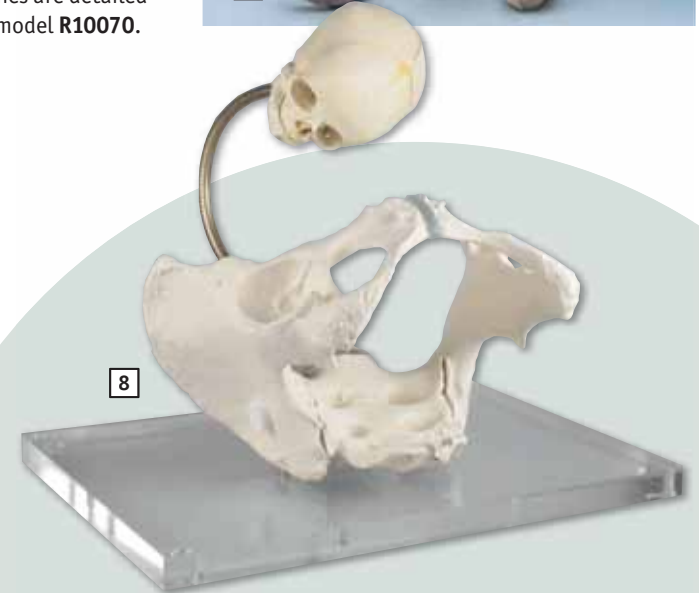
■ Ref.no. R10070



5 Model of Placenta & Umbilical Cord

The amniotic membrane allows you to show the fetal model inside the sac. The snap-on umbilical cord clearly shows the vein and arteries and a convenient drawstring closes the sac. Both amniotic and chorionic membranes are detailed accurately in two colors. Fits to model R10070.

■ Ref.no. R10071



8 Pelvis for demonstration of birth canal

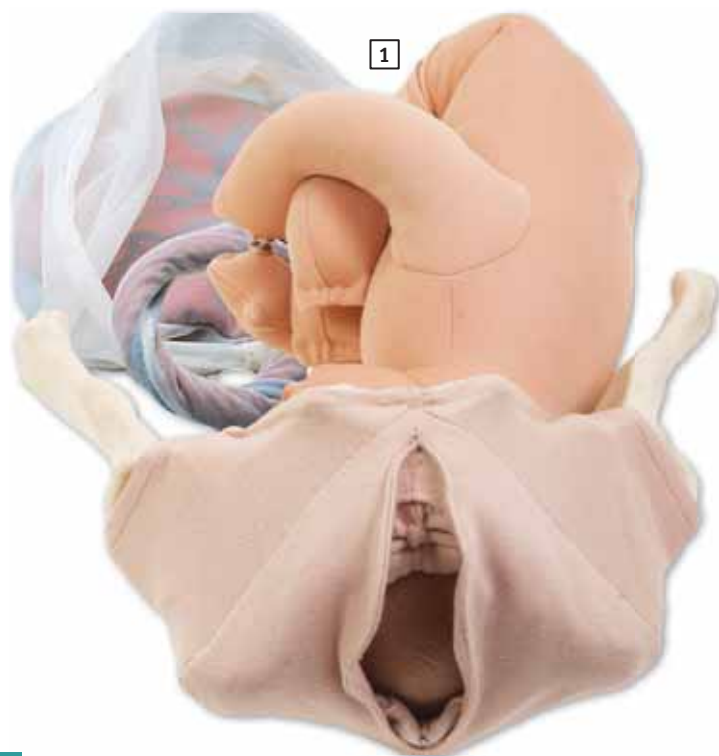
With this model birth canal and the passage of the fetal head through the female pelvis during labour can be clearly demonstrated. The pelvic skeleton consists of flexible hip bones with movably mounted symphysis, sacrum with flexible coccyx and 2 lumbar vertebrae. The foetal skull is mounted with a flexible spiral rod on the base and can be moved freely.

■ Ref.no. L230

1 Deluxe Childbirth Model Set

With these essential models, you can easily demonstrate the birth process. The 48cm-long Fetal Model represents an average-sized, full-term baby. The body flexes to show all presentations and positions, and the head has palpable anterior and posterior fontanel. The Perineal Cloth Model (13 x 16,5 cm) is perfect to demonstrate the stretching of the perineum, possible episiotomy, and the emergence of the fetal head. The cloth attaches securely to our Flexible Pelvis Model with elastic straps and accommodates the head of the Fetal Model. The Flexible Pelvis Model can be manipulated to demonstrate how the pelvis moves to accommodate delivery. The Placenta/Cord/Amnion/Chorion Model allows the Fetal Model to be shown inside a simulated amniotic sac. The snap-on cord clearly reveals the vein and arteries, and a convenient drawstring closes the sac. The amniotic and chorionic membranes are accurately detailed in two colors. The placenta measures 18 x 20 cm.

■ Ref.No. R10074



2 Abdominal Palpation Model Set

A unique, 3-D teaching tool, this model set is perfect for performing Leopold's maneuvers and for demonstrating palpation of the abdomen to determine fetal lie, presentation, and position. The Abdominal Palpation Model includes a fetus with movable arms and legs, firm buttocks, and a head with palpable anterior and posterior fontanel. The fetal body flexes to allow demonstration of all presentations and positions. The fetus and included vinyl pelvis rest within the abdominal portion of the model. The abdomen, a padded cloth attached by Velcro to the base, makes it easy to visualize and change fetal positions. Comes with a gel pad that provides added cushion over the fetus for a more realistic feel, movable gel packs to simulate amniotic fluid, and a practice guide with detailed suggestions on how to use the model. The Set also includes extra movable gel packs to simulate amniotic fluid and a carrying bag. Size appr.

Size: appr. 48 x 29 x 24 cm

■ Ref.No. R10075

1



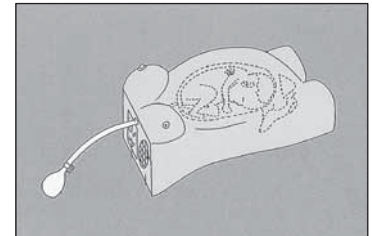
1 Pregnancy examination model with heartbeat simulation

This fantastic model allows practice of examination using the 4 Leopold gestures, external pelvic measurement, auscultation of the foetal heartbeats and breast care. The abdominal wall consists of a special synthetic material, which conveys an entirely natural feel and reproduces the skin and underlying tissue very naturally. By adding or releasing air, the simulated quantity of amniotic fluid can be adapted to the desired conditions. Any modification of foetal position is possible. The simulated heartbeats can be modified in both rate and intensity. By means of exchangeable inserts, it is possible to simulate a smaller or larger birth canal.

■ Ref.no. LM43N



Examination with Leopold gestures (here: second gesture)



Interior structure



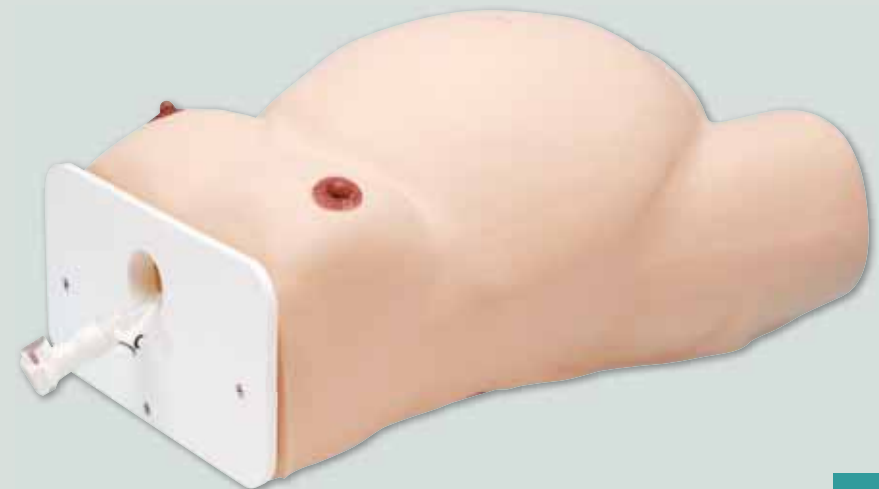
2 External Cephalic Version Model

This model represents a pregnant woman in the 36th week of pregnancy. ECV technique can be practiced with this model. The amniotic sac can be filled with glycerine to simulate amniotic fluid. Different conditions can be simulated by the amount of glycerine inserted. The model is made of soft, skin like silicone to provide realistic feel and touch. The foetus head, hands and legs are harder than the other structures, the spine is structured, this allows palpation of the foetus position from outside.

Size: 32 x 52 x 25 cm, **Weight:** 8.6 kg

■ Ref.no. LM80

2





1 Female Condom Model

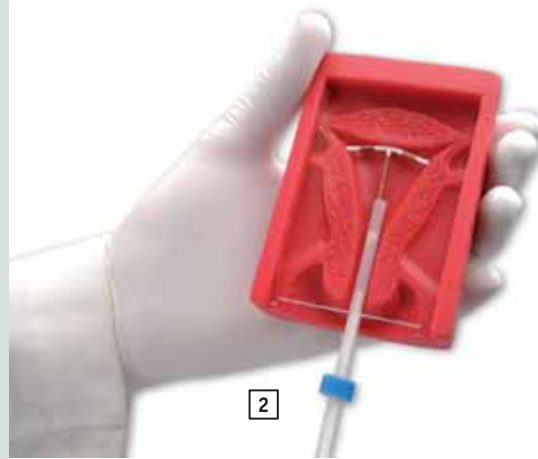
This model may be placed in the clients lap to simulate the position in which the female condom should be inserted. Demonstration of use of female condom, contraceptive sponge, and cervical cap.

The model features:

- Life-size anteverted uterus in simulated pelvic cavity
- Cervix attaches to uterus with patented „screw“ design
- Soft vulva and vagina
- Soft plastic stomach cover

With Instruction manual and soft nylon carrying bag

■ Ref.no. R10128

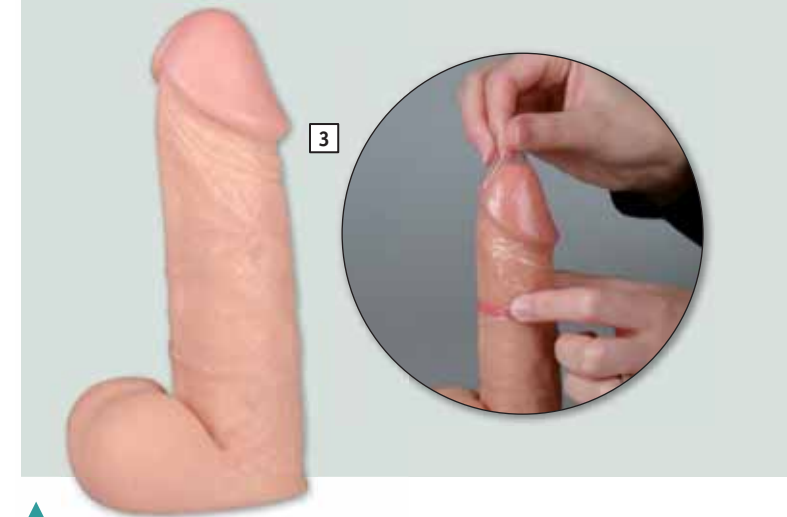


2 I.U.D Trainer

An anatomically accurate hand-held trainer which is a suitable aid for understanding correct positioning of I.U.D. (Intrauterine Device) in the uterus. Made of durable plastic, the trainer features a transparent cover which allows easy visualization of insertion and placement of I.U.D. (I.U.D. not included).

Size: 7.5 x 16.5 cm

■ Ref.no. R10127



3 Condom Training model

This life size model of an erected penis can be fixed on the table using a sucker foot and is perfect for training the correct use of a condom. Can be used with normal condoms, no special condom required. Condoms not included.

Penis length: 13.5 cm

■ Ref.no. L45



4 Condom Training model

Economic priced Classroom set with 20 Styrofoam penis models for group education in schools. The models can be fixed at the desk with self-adhesive strips to leave both hands free for training.

Diameter: 3.5 cm, Penis length: 12.5 cm, Weight: 0.1 kg

■ Ref.no. L75

5 Training Model for Contraceptive Implants

This training model was developed for a manufacturer of a contraceptive implant to train doctors in implanting and explanting the contraceptive implants. It represents the upper arm of a woman showing muscle and skin layer. After implanting it shows the position of the implant underneath the skin.

■ Ref.no. 7086



1 Vulva – Casts showing anatomical differences ►

All vulva casts are actual casts of real women. A life-like appearance is the result. The outer female anatomy is represented with its finest details and structures. Detailed and surprisingly authentic these casts show smallest wrinkles, and in some casts even the orifice of urethra and vagina. Carefully colored the differences of inner and outer labia as well as surrounding skin are clearly visible. Because each woman is different, this product represents a unique collection of 19 vulva casts.

Perfect for sex education

Whoever is interested in female anatomy often finds in books schematic drawings that differ a lot from the real anatomy. This often causes confusion, uncertainty and even causes shame in young women and girls who do not have the „standard“ anatomy as shown in books. Each cast shows in detail that each vulva is something unique and individual. Therefore this collection is a great tool for sexual education. Also boys and men learn a lot about different shapes in female anatomy and what is considered „normal“. Girls and women make a comforting experience that for example the size of labia is just a normal whim of nature.

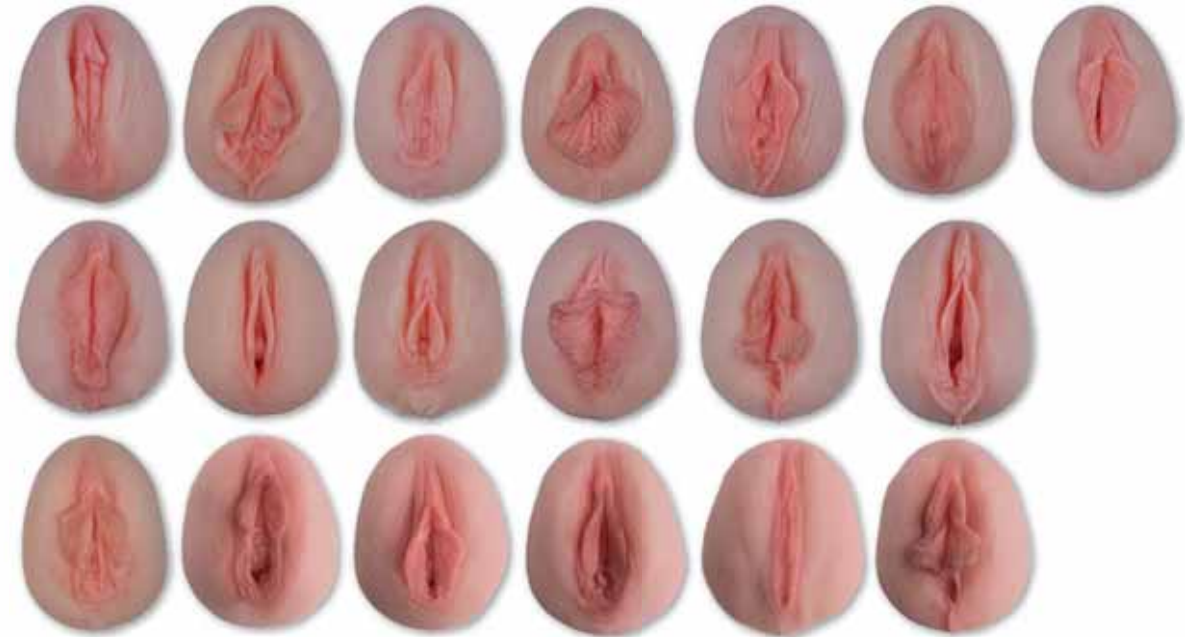
Skin friendly Silicon material

The vulva casts are made of high grade medical silicone, non-toxic, authentically soft and hygienic to clean. Because of this they are perfect for use in classrooms and information centers. Especially by comparing different shapes of anatomy this collection creates better confidence dealing with women's own sexuality.

Size each 11 x 8 cm, Weight each 0,11 kg

■ Ref.no. L222

1



2 Female Contraceptive Model ►

Great for sex education classes, this model provides an affordable way to demonstrate proper insertion of female condoms, diaphragms, cervical caps, and spermicides for the prevention of pregnancy. Allows realistic practice in inserting each of these contraceptives with a unique cutaway section to help users assess their technique.

Includes carrying case and lubricant. Contraceptives not included

Size: 9 x 14 x 14 cm

■ Ref.no. L55

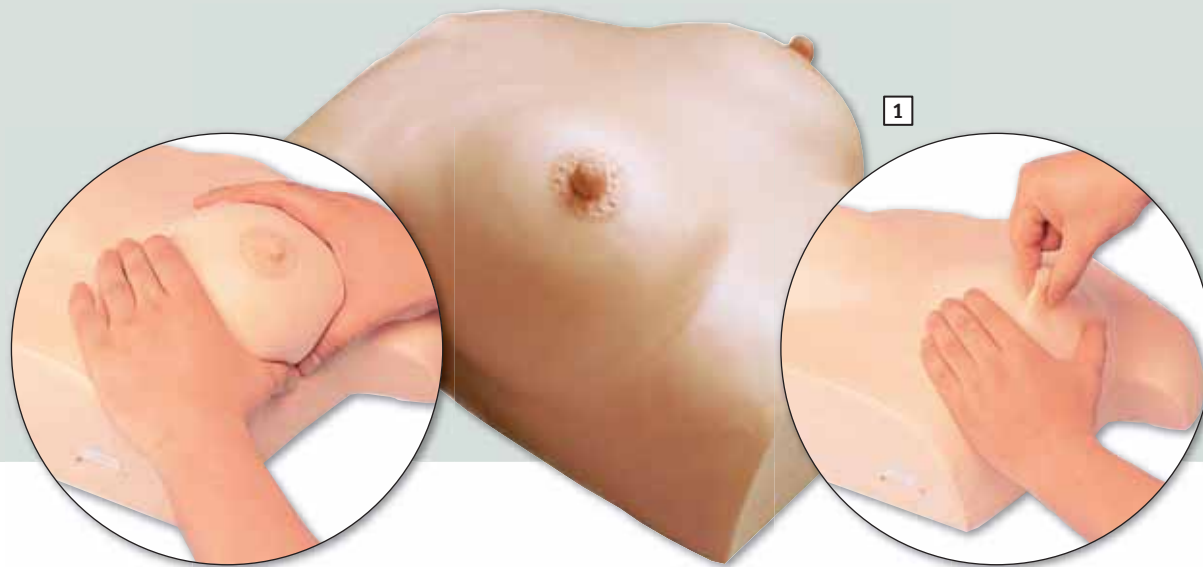


1 Breast care and massage model

This replica of the breast of a puerperent corresponds to the natural conditions in terms of firmness, elasticity and mobility. The model is intended for practicing of breast care, breast massage and explanation of breast-feeding (smoothing of the breast, manipulation of milk pumps, correct application on the breast, etc.). Via the use of various special synthetic materials, this model is extremely realistic in appearance and feel. Also suitable for demonstration of lactation aids and appliances (e.g. milk pumps).

Size: 29 x 44 x 14 cm, **Weight:** 2.2 kg

■ **Ref.no.** LM24



2 Maternity Simulator

This simulation jacket gives the trainee an impressive experience about the difficulties a pregnant woman has to handle. The additional weight (7.2 kg) and the dimensions make even simple things like bending down very difficult. This simulator is designed to make expectant fathers, pupils or students in medical professions understand the situation of a pregnant woman.

■ **Ref.no.** LM65



3 Breastfeeding simulation set

The perfect set for experiencing breastfeeding support. Users can feel adequate close fit when wearing the Postpartum Breast Care Model and can take a natural breastfeeding position. By attaching the strap-on-mask to a Baby manikin, users can simulate a baby's appropriate latch.

- By using both the Breastfeeding Simulation Set and a Baby manikin together, users can practice a „hands-on“ approach to the support of breastfeeding.
- Users can observe and practice caring for the nipples and breasts.
- Simulation of engorgement of the breast enables users to observe the engorgement state and practice methods for alleviating engorgement.
- Users can learn through experience that a correct latch cannot be achieved when the breast is engorged.

Weight: 1.7kg

■ **Ref.no.** LM113A



NEW!



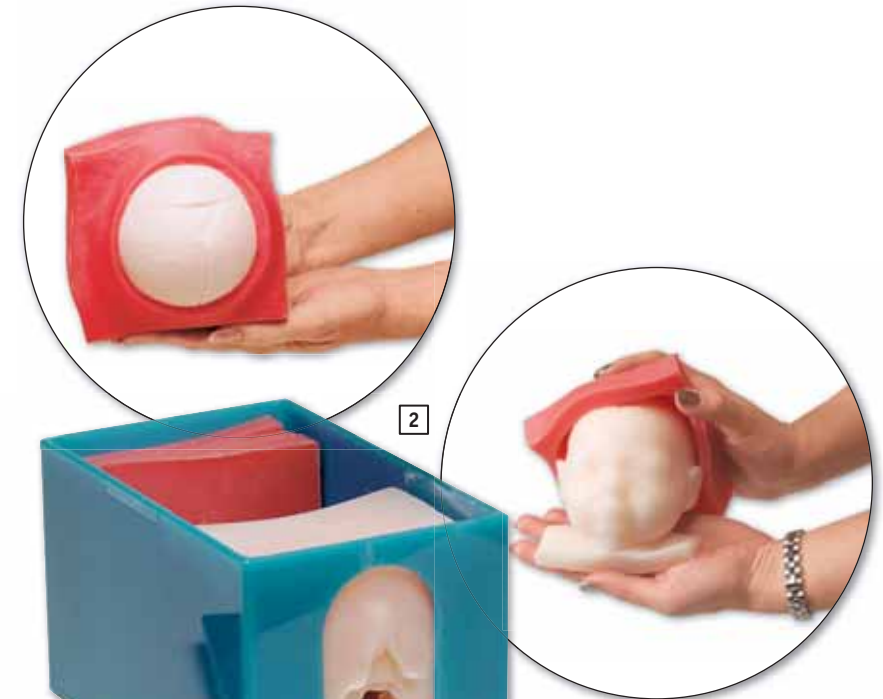


1 Cervical Dilatation and Effacement Simulators

These simulators have been redesigned to be incredibly soft with a realistic feel and touch to enhance the birthing simulation experience. The newly revised three-dimensional simulators provide lifelike simulation of cervical examination prior to birth. Every effort has been made to provide exceptional realism so that the visual and tactile sensations experienced provide a positive transition to patient procedures. The set consists of six separate 10 x 11 x 12 cm pelvic blocks. The external appearance of all six blocks is identical, with the variations being in the internal structure. The internal texture, tissue density, and correct anatomical size are all carefully represented to provide the most realistic condition possible. The simulators depict six different cervical conditions prior to birth. Each is clearly identified on the back side to indicate which condition exists internally. Students will gain a tactile understanding of no dilatation, 2 cm, 5 cm, 7 cm, 9 cm, and effacement conditions. Includes six simulation blocks (stages one through six), acrylic stand, and a hard carry case.

Weight 8.62 kg

■ Ref.no. R10922



2 Fetal Monitoring and Labor Progress Model Set

Provide realistic simulation for vaginal examinations, labor progress, assessment of dilation, palpation of fetal fontanels and suture lines, and assessment of the position of the vertex. Versatile model set includes fetal head, lower uterine segment, fetal buttocks for breech presentation, and four interchangeable cervical dilation models. The fetal head and cervical dilation models have been updated for a more lifelike feel and greater durability. Components fit in a durable plastic case that facilitates visualization and cleaning.

This model set includes a fetal head, lower uterine segment, fetal buttocks for breech presentation, four interchangeable cervical dilation models (1, 3, 4, and 8 cm), and durable plastic case.

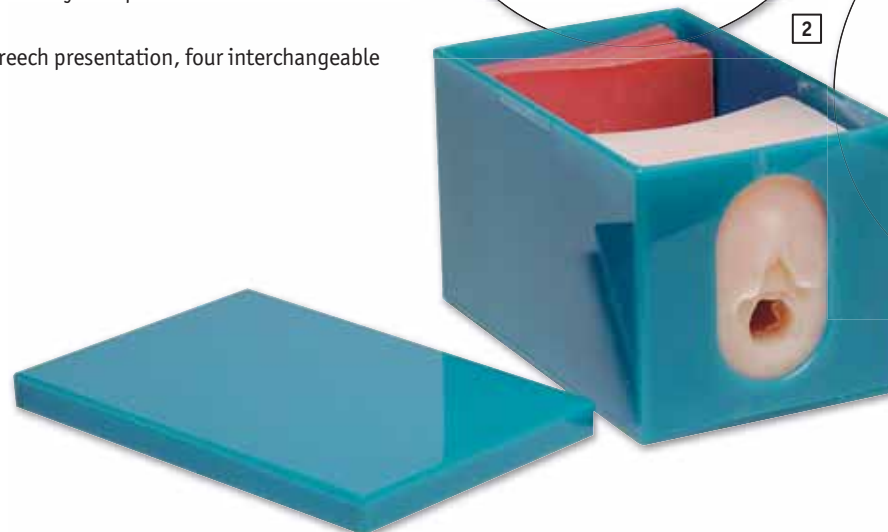
Training options:

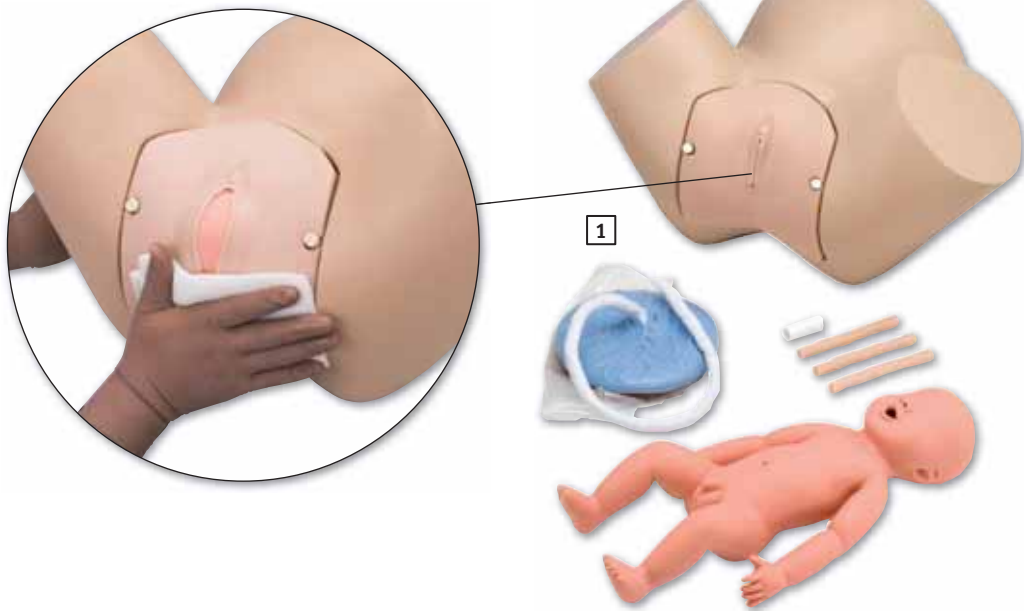
- Performance of vaginal examinations
- Assessment of labor progress and dilation
- Palpation of fetal fontanels and suture lines
- Assessment of the position of the fetal head

Comes with lubricant, teaching suggestions, and carrying case.

Size: 14 x 13 x 22 cm

■ Ref.no. R10925





1 Birth simulator

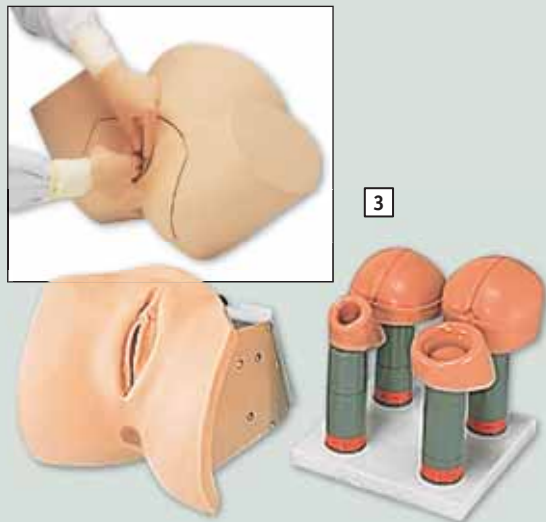
Lower torso with vulva and foetus doll. The highly flexible vulva is made of a special new material which is extremely dilatable and makes it possible to learn protection of the perineum. Included is a primipara vulva, a multipara vulva is available as an option. The placenta and umbilical cord have a three-layer egg membrane. The foetus doll is made of highly realistic material, and can be used to learn how to examine and aspirate an infant. In addition to normal birth, it is also possible to show breech birth. The umbilical cord can be cut, the cut area can be replaced.

■ Ref.no. LM101B

optional:

2 Multipara – Vulva (not pictured)

■ Ref.no. LM101M



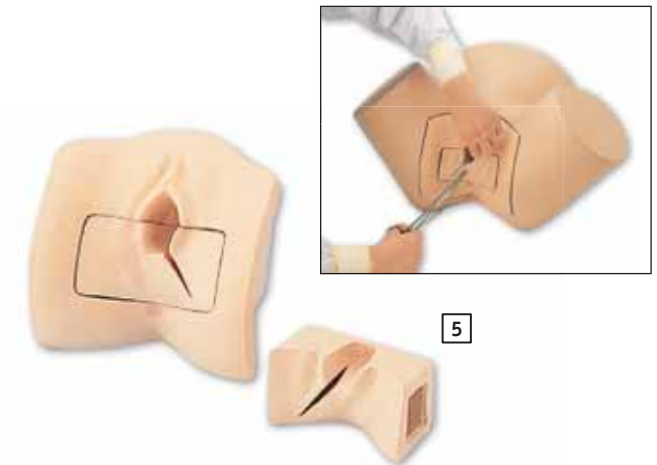
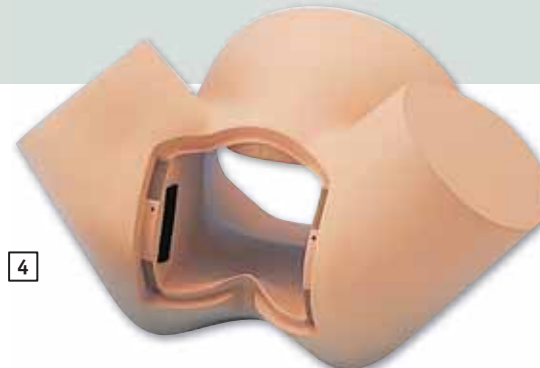
3 Stages-of-Birth Module

Model for upgrading LM101B. For determining a Bishop Score. This module contains three different stages of the cervix as well as a foetal head. The foetal head can be placed in various positions. The cranial sutures and fontanelles are palpable. Also useable as a stand-alone model with the optionally available lower torso. The model is made of a new type of highly flexible and durable material

■ Ref.no. LM101F

4 Matching lower torso

■ Ref.no. LM637



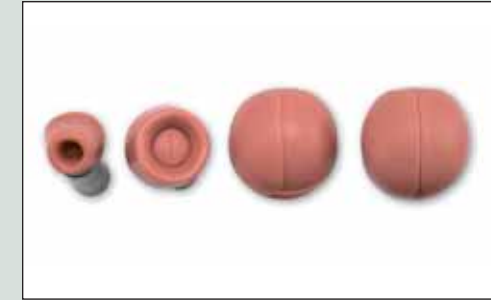
5 Episiotomy Suture Simulator

Model for upgrading LM101B. Contains a simulator for practicing episiotomy sutures. The two included inserts can be sewed again and again. Also useable as a standalone model with the optionally available lower torso.

■ Ref.no. LM635

6 Matching lower torso

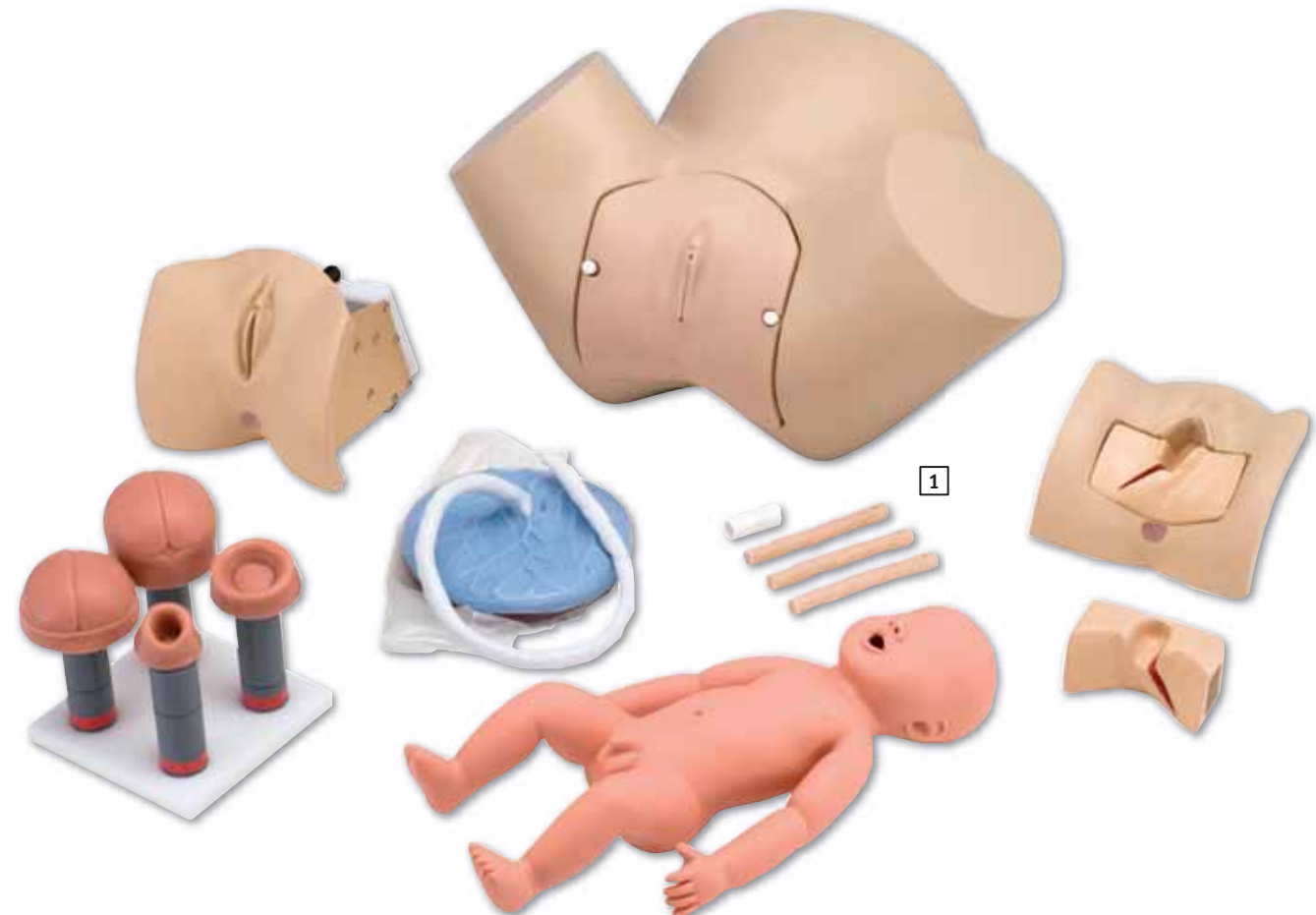
■ Ref.no. LM637



1 Obstetric Trainer

This modular model offers the practice capabilities of three individual simulators. It includes a stages of birth / palpation model for determining Bishop Scores. This module contains three different stages of the cervix as well as a foetal head. The foetal head can be placed in various positions. The cranial sutures and fontanel are palpable. The module is made of a new type of highly flexible and durable material. The second component of the model comprises a complete birth simulator that permits realistic simulation of birth. The highly flexible vulva made from new and extremely dilatable material makes it possible to learn protection of the perineum. The placenta and umbilical cord have a three-layer egg membrane. The umbilical cord can be cut and the cut area can be replaced. The foetus doll is made of highly realistic material, and can be used to learn how to examine and aspirate an infant. In addition to normal birth, it is also possible to show breech birth. The third module contains a simulator for practicing episiotomy sutures. The two included inserts can be sewed again and again.

■ Ref.no. LM101J



1 Super OB Susie ▶

The Super OB Susie childbirth training torso is designed to aid educators teach labor and delivery management skills to learners of all levels. The anatomically accurate pelvis and full-term neonate allows learners to develop clinical skills transferable to scenario-based exercises. The modular design allows the functionality to expand with growing specific training needs.

Features:

- Adult-sized lower torso from diaphragm to quadriceps
- Smooth skin with seamless joints for enhanced realism
- Anatomically accurate pelvic landmarks including ischial spines and coccyx
- Removable pregnant abdominal cover
- Articulating hip joints aid in performing McRobert's maneuver
- Removable cervix and birth canal
- Lifelike placenta with removable cotyledons
- Practice catheterization exercises with patent urethra
- Urine reservoir holds up to 400mL
- Patent rectum accepts suppositories Birthing Baby
- Full-term neonate has palpable landmarks, articulating limbs, and soft full-body skin
- Seamless, articulated joints
- Nasal and oral cavities
- Palpable fontanelle and sutures
- Smooth, seamless scalp
- Realistically articulating neck and torso
- Detachable umbilical cord and cord stumps for additional cutting and clamping

Package content:

- OB Susie® Childbirth Training Torso
- Pregnant Abdomen
- Full Term Neonate
- Placenta
- (2) Umbilical Cord
- (2) Umbilical Stump
- (2) Cervices
- (2) Birth Canals
- Ref.no. R17860

Procedures:

- Execute cephalic deliveries
- Perform Ritgen's maneuver
- Practice breech deliveries (complete, frank, and footling)
- Perform Pinard's maneuver
- Simulate shoulder dystocia
- Practice emergency interventions including McRobert's maneuver, suprapubic pressure, posterior arm sweep, and Wood's Screw
- Perform placental and umbilical exercises (placental delivery, partial placenta previa, nuchal cord, cord prolapse, and many others)
- Practice Umbilical cord procedures like clamping and cutting
- Demonstrate internal rotation, expulsion, and external rotation Birthing Baby
- Perform operative deliveries with real instruments like vacuum suction delivery and forceps assisted delivery
- Simulate nasal and oral suctioning



Options:

2 Postpartum hemorrhage management package

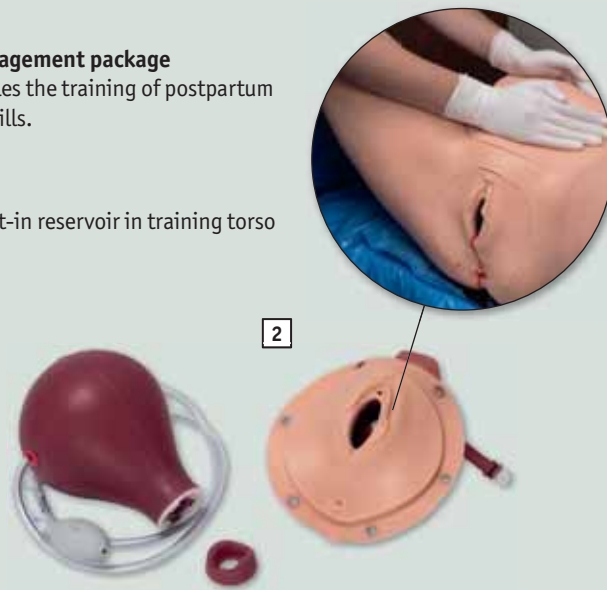
The PPH Management Package enables the training of postpartum care and emergency management skills.

Features:

- Realistic post-delivery perineum
- Uterine hemorrhaging using built-in reservoir in training torso
- Uterine tamponade placement
- Adjustable uterine tone
- Urinary bladder catheterization
- Suppository administration

Package Contents:

- PPH Perineum
- Boggy Uterus
- PH Cervix
- Blood Concentrate
- Ref.no. R17860-1



3 Postpartum episiotomy suture trainer

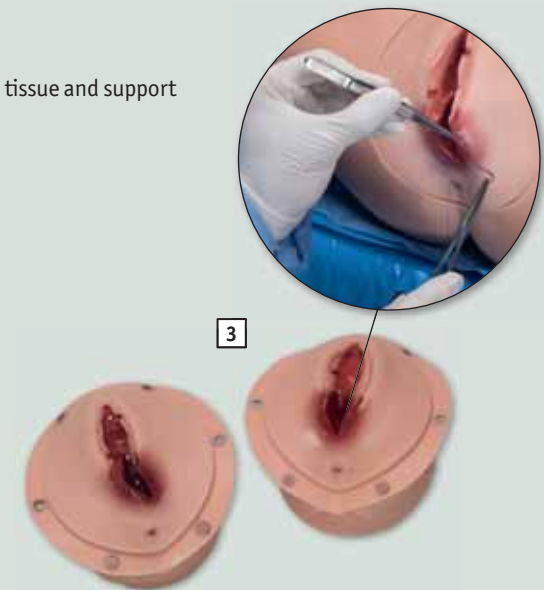
The episiotomy repair trainers simulate human tissue and support the use of real sutures and instruments.

Features:

- Realistic soft skin
- Supports real sutures
- Durable self-healing skin

Package Contents

- Mediolateral left episiotomy perineum
- Midline episiotomy perineum
- Ref.no. R17860-2



Realistic Palpable Anatomy

Palpable pelvic landmarks and dilating cervix for vaginal exam



Realistic Fetal Presentation

Illustrate cardinal movements, descent, rotation, and expulsion



Removable Abdomen

Visualize and understand the internal view of fetal movements



Breech Deliveries

Practice emergency Breech maneuvers: Pinard's, Mauriceau, Ritgen's, Lovset



Forcep Assisted Delivery

Practice force indication, application, and traction techniques



Smooth, Supple Neonate Skin

Perform vacuum cup application, suctioning, and traction



Realistic Umbilical Cord

Practice realistic clamping and cutting of the umbilical cord



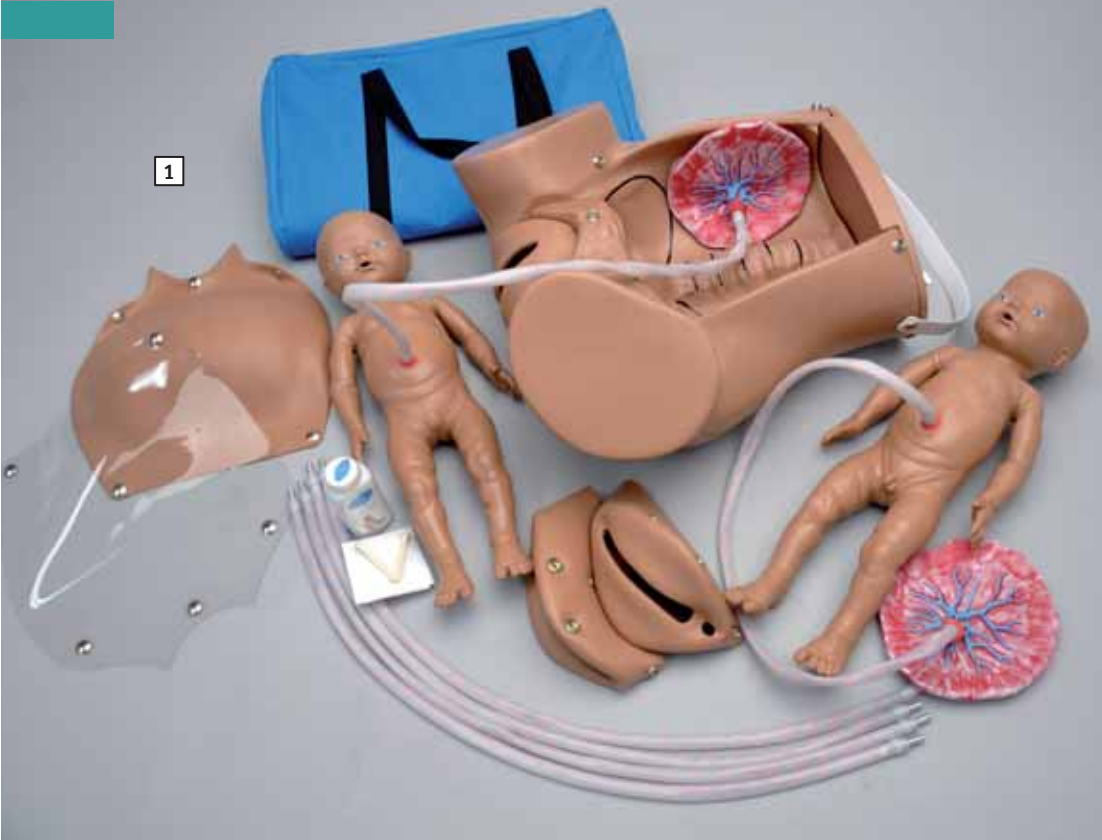
Placental Delivery

Placenta with removable cotyledons to practice managing retained fragments



Placental and Umbilical Complications

Partial placenta previa - nuchal cord - true knots - cord prolapse - and more



1

1 Advanced Childbirth Simulator

This versatile childbirth simulator is used worldwide by healthcare educators. It not only provides an excellent simulation of the normal delivery experience for the student and educator, but also provides instruction in abnormal and multiple deliveries.

It may be used for demonstration of the following obstetric procedures:

- Normal vaginal delivery
- Complete, frank, and footling breech birth
- C-section delivery
- Ritgen's maneuver
- Episiotomy
- Vertex presentation
- Intrauterine manipulation
- Vertex/vertex, vertex/breech, breech/vertex, or breech/breech presentation in multiple birth
- Prolapse of umbilical cord
- Demonstration of placenta previa: total, partial, and marginal
- Normal delivery of umbilical cord and placenta
- Palpation of fetal fontanelles

Features/Scope of Delivery: Removable diaphragm end plate for manual positioning of fetal baby/babies • Removable stomach cover for positioning fetus • Life-size pelvic cavity with major anatomic landmarks • Hand-painted outline of the bony pelvis • Three soft vulval inserts for episiotomy exercises • One baby boy and one baby girl, each with umbilical cord and placenta • Anatomically accurate backbone and fontanelles on fetal baby/babies • One skin-tone stomach cover • Four extra umbilical cords • Two umbilical clamps • Talcum powder • Instruction manual • Soft carrying bag

■ Ref.no. R17840

2 Palpation Module for Leopold Maneuvers

■ Ref.no. R17840A

3 Articulating Newborn for Leopold Maneuvers

■ Ref.no. R17840B

4 Postpartum Suturing Trainer

■ Ref.no. R17840C

5 Labor Delivery Module

■ Ref.no. R17840D

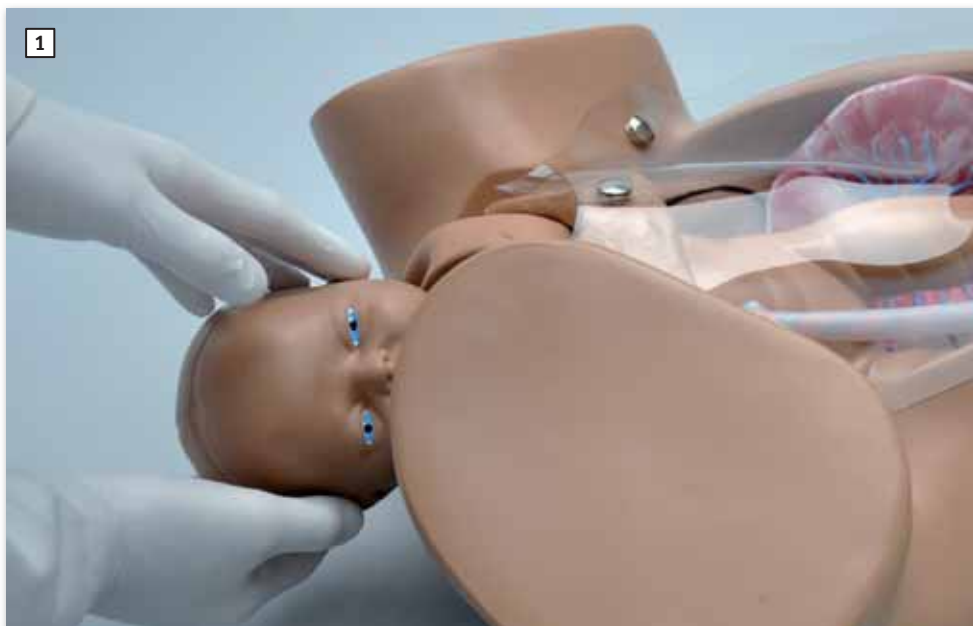
6 Fetal baby, Umbilical Cord, and Placenta for Vacuum Delivery

Smooth, soft skull with fontanelles for realistic vacuum delivery.

■ Ref.no. R17840E

7 Birthing Mechanism

■ Ref.no. R17840F



1

1 Advanced birthing torso

Versatile, lightweight birthing torso allows you to simulate every stage of the birthing process. Simulator is ideal for practicing Leopold maneuvers. Practice vaginal breech deliveries and free the legs using the Pinard maneuver. Includes torso, birthing baby, and newborn baby.

Features:

- Audible maternal and newborn heart sounds from 0-220 BPM
- Audible newborn cries, grunting, and stridor
- Bladder catheterization with variable urinary flow — use conventional urinary bladder to reduce bladder size
- Clamp placement and umbilical cutting
- Delivery of placenta — position placenta to simulate placenta previa
- Fetal palpation through transparent or abdominal cover
- Insertion of medication through rectum
- Use blood concentrate to simulate postpartum bleeding
- Uterine massage
- Vacuum assisted or forceps deliveries with or without abdominal cover
- Vertex or breech deliveries

Birthing torso includes:

- Blood collection stand with squeeze bulb to regulate pressure
- Directions for use
- Distensible cervixes (3)
- Midwifery gown with snaps
- Nonsterile urinary catheter (not for human use)
- Non-latex gloves (2 pairs)
- Placentas with removable fragments (2)
- Postpartum hemorrhage fluid
- Silicone lubricant
- Requires 4 "AA" batteries (not included)
- Simulated blood concentrate
- Simulated urine concentrate
- Stethoscopes — 1 conventional and 1 Pinard
- Storage bag
- Talcum powder
- Suction bulb

Weight: 18 kg

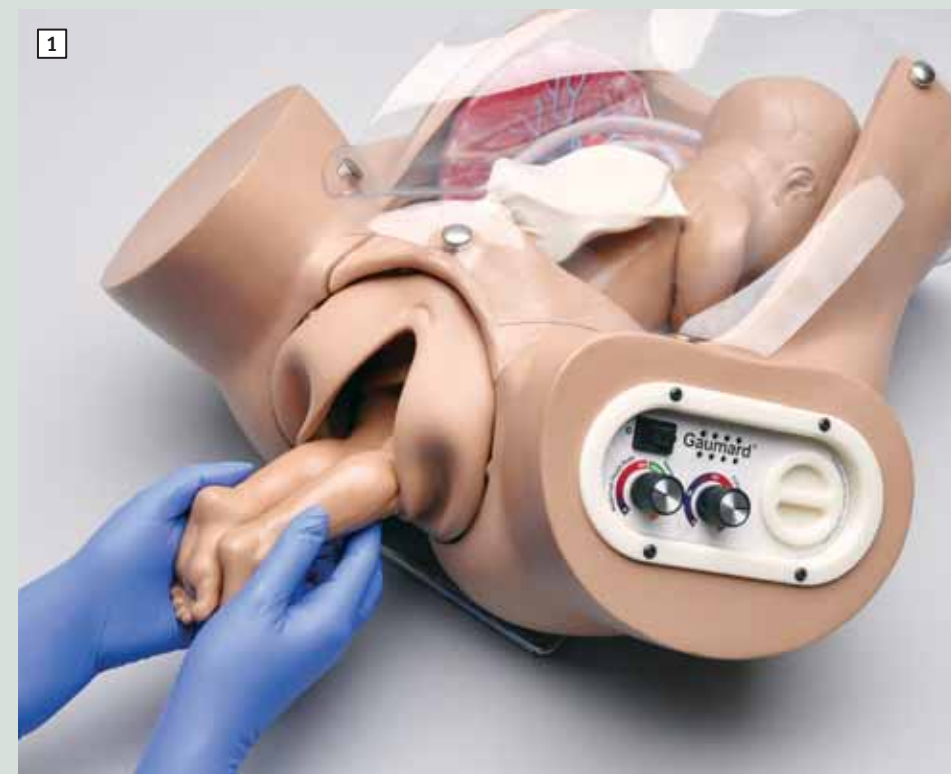
■ **Ref.no. R17850**

Birthing baby includes:

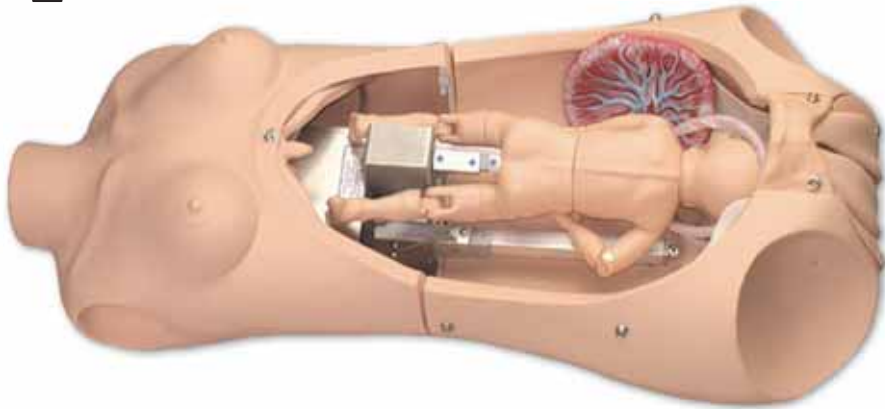
- Connectors (2)
- Placentas with removable fragments (2)
- Skull with fontanelles
- Soft face skin that fits over head for vacuum or forceps delivery
- Umbilical clips (2)
- Umbilical cords (4)

Newborn baby features:

- • Head cap to minimize hypothermia
- • Squeeze bulb for operating umbilical pulse
- • Umbilical catheterization



1



1 Noelle Birthing Torso

An economical simulator for those programs dedicated to practicing all facets of childbirth. This full-size upper and lower female torso comes with removable stomach cover and one articulating birthing baby with umbilical cord and placenta. The automatic birthing system rotates baby as it moves through the birth canal. Allows you to listen to foetal heart sounds, measure head descent, and cervical dilation. Features multiple placenta positions. Replaceable dilating cervixes, practice on postpartum suturing on vulval inserts, and practice of Leopold Maneuvers.

Weight: 23 kg

■ **Ref.no. R17820**

Available options:

2 Perinatal Monitor CD-ROM

contains teaching basics and NOELLE scenarios

■ **Ref.no. R17800A** (not pictured)

3 Perinatal Monitor CD ROM with scenario builder

contains teaching basics, NOELLE scenarios and the option to create your own „custom build“ scenarios.

■ **Ref.no. R17800B** (not pictured)

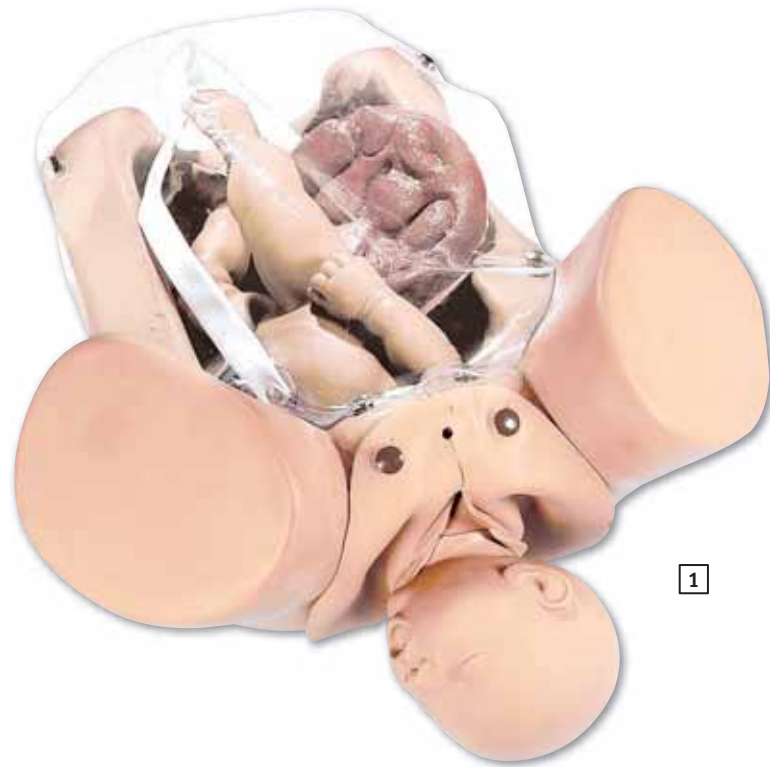
4



4 Postnatal examination and care model

This true to life replica of a female lower abdomen allows digital examination of the regressing uterus following birth. Special synthetic material conveys a highly natural feel. Exchangeable uterus models allow differentiation of normal and abnormal regression, in addition to regression during the first week (first, third and fifth day). In addition to these examination possibilities, the model is eminently suited to practice of postnatal care. The vulva is washable and the labia and anus can be examined.

■ **Ref.no. LM55**

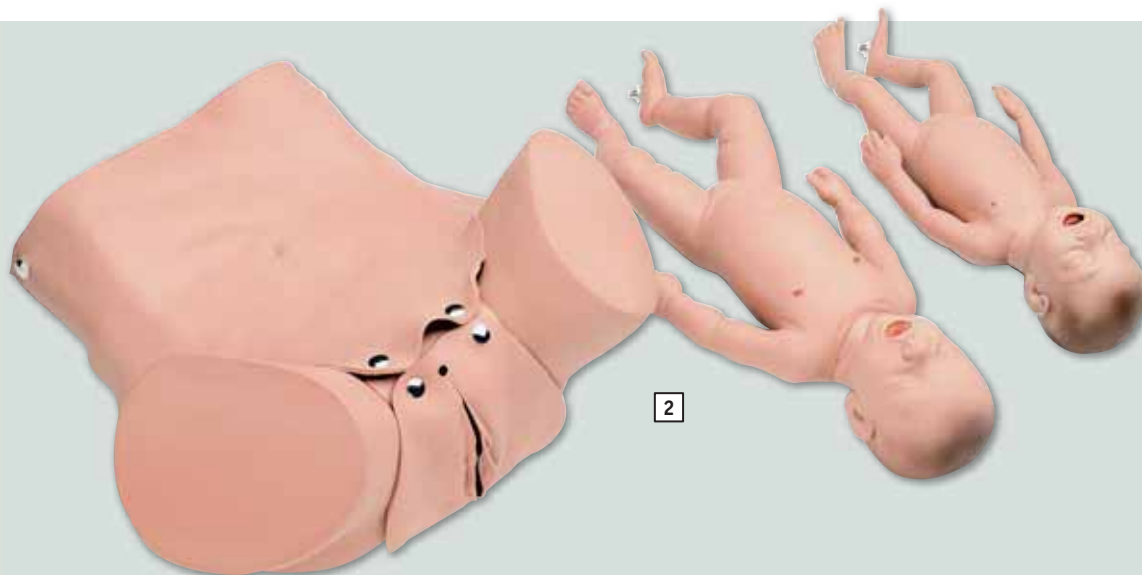


1 Obstetrical Manikin

An anatomically correct pelvic model with full term newborn and placenta to give your trainees realistic practice in multiple techniques, and to learn the procedure for emergency childbirth. Disposable umbilical cords with clamps, easily replaced extra vulva, powder to make simulated blood, a modular pregnant belly overlay to determine the foetus' lie by palpating its skull and kneecaps, and a clear abdominal overlay to see positioning are all included. The lifelike pelvic cavity has pronounced pelvic landmarks, located spinal column, angled birth canal, ilium, ischium, sacrum, sacro spinous ligaments, and greater sciatic notch. The foetus provided is of a realistic newborn size with fontanelles and cranial sutures. A soft carry bag is included.

Size: 53 x 33 x 43 cm, Weight: 9 kg

■ Ref.no. R10180

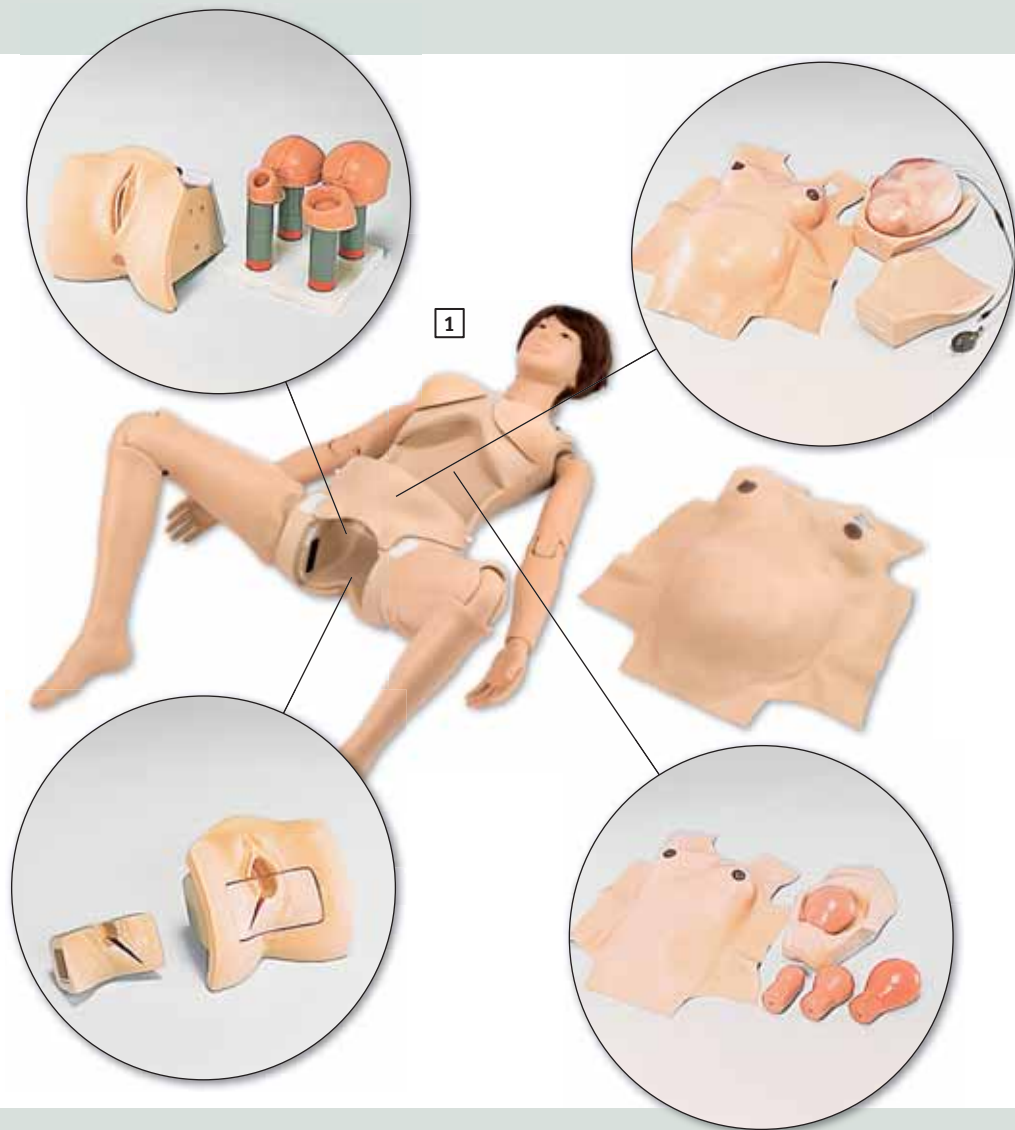


2 Forceps/Vacuum Delivery OB Manikin

The manikin used in Advanced Life Support in Obstetrics (ALSO) training programs. An anatomically correct pelvic model with both premature and full term foetuses to give trainees realistic practice in multiple techniques and to learn the procedure for emergency childbirth. The soft vinyl pelvis replicates the resistance encountered in delivery requiring forceps or vacuum intervention. Comes with removable abdominal overlay, powder to make simulated blood, extra vulva, and soft carry bag. Forceps and vacuum extractor not included.

Size: 53 x 33 x 43 cm, Weight: 7 kg

■ Ref.no. R10181



1 Obstetric Practice Doll

This modular practice doll is the universal tool for Midwifery education. It was developed in co-operation with midwifery schools and provides training for all important skills. Exchangeable modules allow practice of Leopold-gestures, breast care, vaginal examination of birth process, different birth positions, birth simulation, Episiotomy and postpuerperal examination. The model includes a heartbeat-simulation. Special material makes the doll feel like a real human and reacts realistically during training. While developing the model special attention was drawn to details that are important for practical training. The vulva for example is not just an opening, it stretches like a real vulva during birth. As a full body manikin this model has the advantage against other simulators that it can be used in a complete theatre, for example the birth procedure can be practiced in a real birth position.

■ Ref.no. LM101HV

The supplied modules are:

A Pregnancy module

This module contains an amniotic sac with foetus (36th to 40th week of pregnancy), a heartbeat simulation and an abdominal wall with breasts. This module is suitable for practicing Leopold's gestures, palpitation, and heartbeat monitoring (volume and rhythm can be modified by the teacher). The amniotic sac can be inserted in different ways to simulate different positions of the foetus within the womb. Additionally, the model can be used to teach breast care and breast feeding. This module was redesigned and is now made of a new material which is even more realistic in touch and feel.

B Stages-of-Birth Module

The stages-of-birth module can be used to keep the Bishop Score. Three different stages of the cervix and a foetal head can be inserted. The foetal head can be placed in various positions; the cranial sutures and fontanels are palpable. All inserts can be rotated and modified. This module was redesigned and is now made of special soft and flexible material which makes it even more realistic and natural in touch and feel.





C Obstetrics Module

This module can be used to practice birthing in all common birthing positions. It can be used for setting up a full training theatre. The highly flexible vulva made of new extremely dilatable material responds very realistically, providing an ideal opportunity to practice protecting the perineum. The foetus doll is made of soft plastic, weighs 2.3 kg, and is 42 cm long. The circumference of the head is 30 cm. The doll can be used to practice the initial examination and aspiration. The highly realistic umbilical cord and placenta complete the model. The umbilical cord can be cut and the cut area can be prelated. Birth can be demonstrated in breech position realistically.



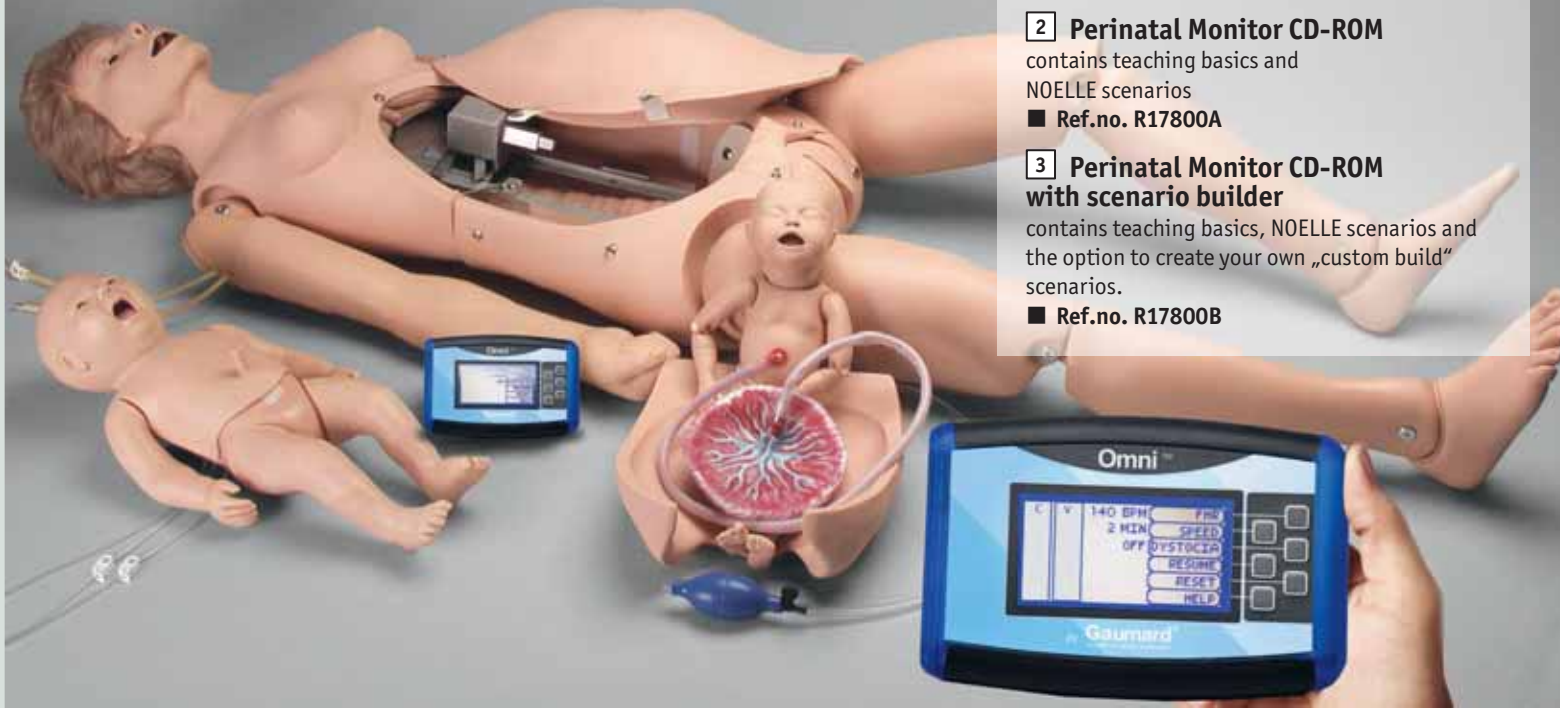
D Episiotomy Module

Replaceable episiotomy inserts make it possible to teach and practice episiotomy sutures. The individual inserts can be reused repeatedly, provided the sutures are removed with due care.



E Postpartum Module

Four different uterus inserts permit postpartum palpitation and measurements. The module contains three normal uterus inserts (first, third, and fifth day) as well as an abnormal uterus (first day). The abdominal wall included has breasts for practicing breast care.



Available options:

2 Perinatal Monitor CD-ROM

contains teaching basics and NOELLE scenarios

■ Ref.no. R17800A

3 Perinatal Monitor CD-ROM with scenario builder

contains teaching basics, NOELLE scenarios and the option to create your own „custom build“ scenarios.

■ Ref.no. R17800B

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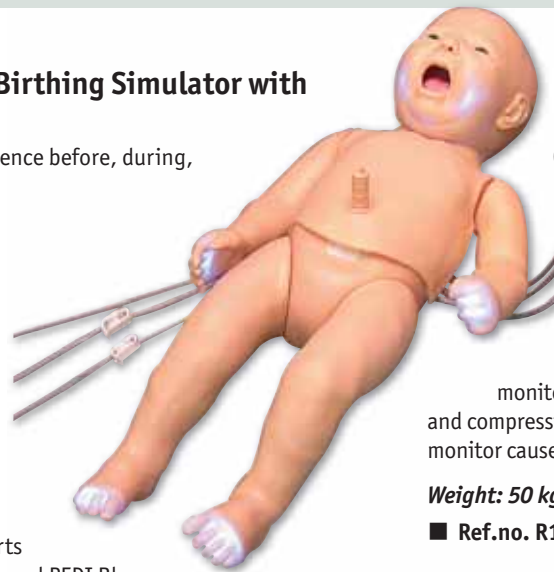


1 Noelle Maternal and Neonatal Birthing Simulator with PEDI Blue Neonate

Designed to provide a complete birthing experience before, during, and after delivery.

Features:

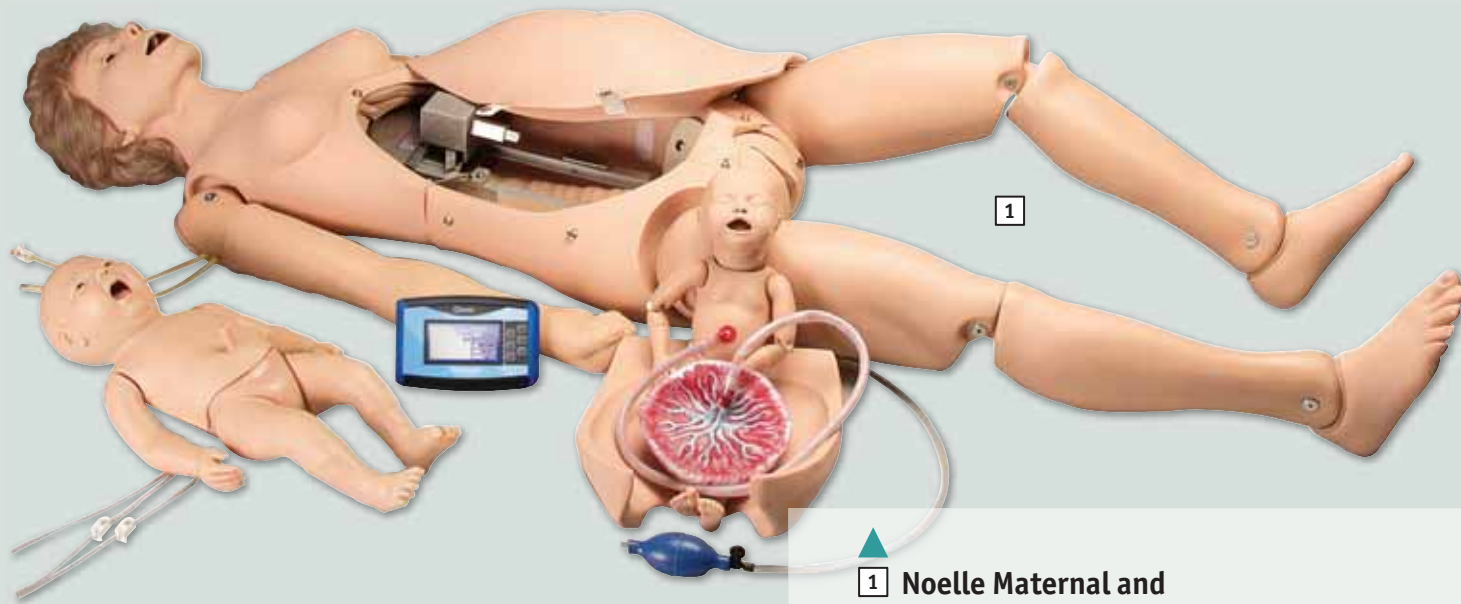
- articulating full-body female manikin
- intubatable airway with chest rise
- IV arm for meds/fluids
- removable stomach cover
- practice Leopold maneuvers
- multiple fetal heart sounds
- automatic birthing system
- measure head descent and cervical dilation
- multiple placenta locations
- replaceable dilating cervixes
- practice postpartum suturing on vulval inserts
- one articulating birthing baby with placenta and PEDI Blue Neonatal Simulator



Comes with PEDI® Blue Neonatal Simulator with SmartSkin™ technology. The PEDI® Blue Neonatal Simulator has the unique ability to change colour based upon an initial pre-selected condition and the effectiveness of airway ventilation and chest compression provided. A Code Blue® monitor, containing a small computer, observes ventilations and compressions and determines whether they meet or exceed conventional neonatal CPR standards. If acceptable, the monitor causes the skin to turn to a more healthy color. If ventilations and compressions are determined to be inadequate or nonexistent, the monitor causes the skin to turn toward an ominous blue color.

Weight: 50 kg

■ Ref.no. R17800



1 Noelle Maternal and Neonatal Birthing Simulator

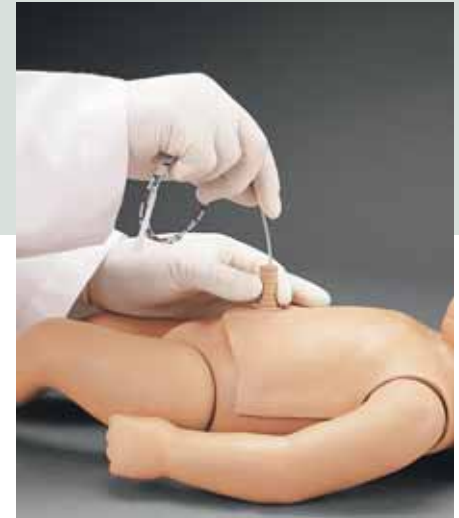
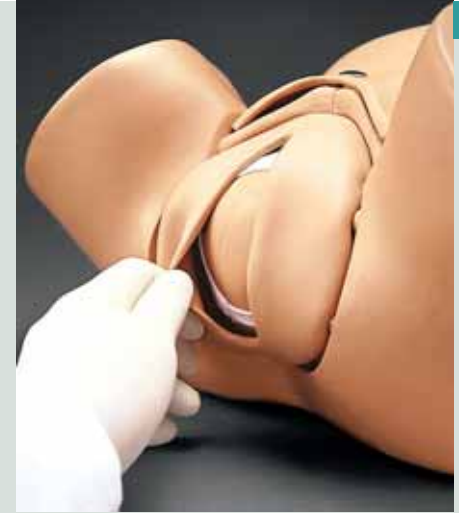
Designed to provide a complete birthing experience before, during, and after delivery.

Simulator features include

- full-size articulating female manikin
- intubatable airway with chest rise
- IV arm for meds/fluids
- removable stomach cover
- practice Leopold maneuvers
- multiple foetal heart sounds
- automatic birthing system
- measure head descent and cervical dilation
- multiple placenta locations
- replaceable dilating cervixes
- one articulating birthing baby with placenta
- one resuscitation baby with intubatable airway and umbilical catheter site.

Weight: 48 kg

■ Ref.no. R17810



2 Noelle Maternal Birthing Simulator

Birthing Simulator like R17815, but without the additional resuscitation baby

Weight: 46 kg

■ Ref.no. R17815



1 „Basic“ Lucy Maternal and Neonatal Birthing Simulator ►

Lucy Maternal and Neonatal Birthing Simulator is a simulation system designed to present the complex needs of a growing demographic with unique health and physical challenges. Creating a new level of physical realism will allow a near-human connection and enhance the immersion in training. Designed to provide a comprehensive and economical birthing experience from prenatal to postnatal delivery scenarios. This anatomically accurate birthing simulator allows students to experience realistic normal and abnormal deliveries. The quality and simple design make Lucy easy to use and care for while teaching patient techniques for all levels of educator training.

Product Features

General

- Lightweight, full-body female - 167 cm long, 16 kg weight
- Simple to transport in pre-hospital scenario training
- Superior range of motion with fully articulated joints
- Bony landmarks including ischial spines
- Change appearance quickly with multiple hair and eye color combinations

Functions

- Airway management - intubation and ventilation with chest rise
- Amniotic sac
- Articulating arms and legs
- Articulating baby - 45 cm long, 1 kg weight
- Birthing positions - hands and knees, lateral, supine
- Breech deliveries - complete, incomplete, Footling, and Frank
- Cervical dilation - 6 stages
- Cesarean section delivery
- CPR
- Deliveries - vaginal, cesarean, forceps-assisted, and vacuum-assisted
- Episiotomy repair
- External version
- Fetal palpation - abdominal and Leopold's maneuvers
- Fetal suction
- Fundal massage
- Intramuscular injection sites (maternal only), right deltoid, left deltoid, right thigh
- Manual birthing maneuver - instructor/student-controlled fetal descent
- Membrane rupture
- Oral and nasal care - lavage, gavage, suctioning
- Patient positioning and transfer techniques
- Placenta previa
- Postpartum care
- Postpartum hemorrhage
- Scale electrode placement
- Shoulder dystocia maneuvers - McRobert's, Suprapubic Pressure, Rubin's I and II, Wood's Screw, Reverse Wood's Screw, Posterior Arm, Gaskin
- Umbilical cord clamping and cutting
- Umbilical cord prolapse

Includes

- Abdominal pad
- Abdominal skin, 2 - 1 normal and 1 cesarean
- Amniotic sac, 50
- Articulating baby
- Cervices, 6 - stages 1-6
- Chest skin
- CPR chest
- Eyes, 3 sets - brown, blue, and green
- Fundus
- Hospital gown
- Inflation tubing with squeeze bulb
- Lubricating jelly
- Lung bag
- Pelvic block
- Perineal skin, 3 - prenatal, birthing, and episiotomy
- Perineal skin stabilizer pad
- Placenta
- Positioning bag
- Umbilical clamp
- Umbilical cords, 4 - 1 long and 3 short
- Wigs, 3 - black, blond, and brown
- **Ref.no. R13100**

NEW!

Complete Lucy Maternal and Neonatal Birthing Simulator“

Additional to the Functions and Features of the Basic Lucy manikin the Complete Lucy is supplied with a complete set of blot clots and hemorrhages as well as the Newborn Nursing Skills and ASL Simulator (Ref.no. BA96)

Includes all features and functions of “Basic” Lucy

Additional features of package “complete”:

- Large soft rolling carry case
- Complete Set of Clots and Hemorrhages, 5 - 1 each of small blood clot, medium blood clot, large blood clot, perineal hemorrhage, and hemorrhage blood pool
- Newborn Nursing Skills and ALS Simulator - full-term newborn
- Ref.no. R13200

NEW!

„Lucy” Maternal and Neonatal Birthing Simulator, Advanced

Additional to the Functions and Features of the Complete Lucy manikin the Advanced Lucy is supplied with an IV training arm, a Blood pressure training arm and a Micro-preemie Newborn Simulator.

Includes all features and functions of “Basic” Lucy

Includes all features of package “complete”:

- Large soft rolling carry case
- Complete Set of Clots and Hemorrhages, 5 - 1 each of small blood clot, medium blood clot, large blood clot, perineal hemorrhage, and hemorrhage blood pool
- Newborn Nursing Skills and ALS Simulator - full-term newborn

Additional features of package “advanced”

- Blood Pressure Arm
- IV Arm
- Micro-Preemie Simulator (BA95, page 155)
- Ref.no. R13300

NEW!



1 Episiotomy & Perineal Laceration Trainer

This Simulator gives students the opportunity to learn and train the techniques needed to treat the most common birth injuries. The student or teacher can cut the model after his needs to simulate all kinds of episiotomies or all stages of perineal laceration and to repair them. Embedded in the model there are representations of the bulbocavernosus muscle, transverse perineal muscle and external anal sphincter, which can be cut and repaired individually. The tough tissue material is held in a plastic stand. The simulator comes with tissue pad in stand, instruments in foldover case, one suture and a soft carrying case.

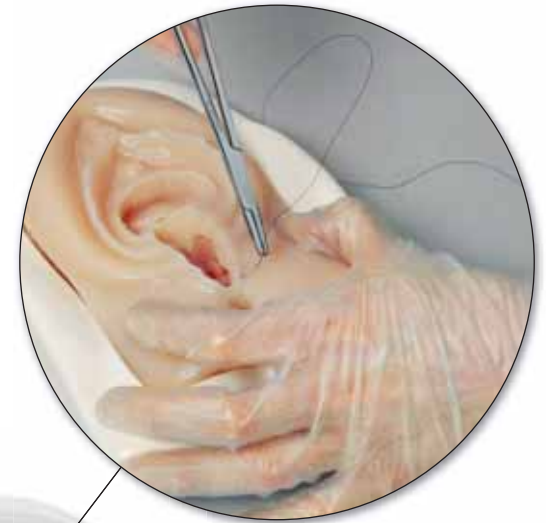
■ Ref.no. R10910

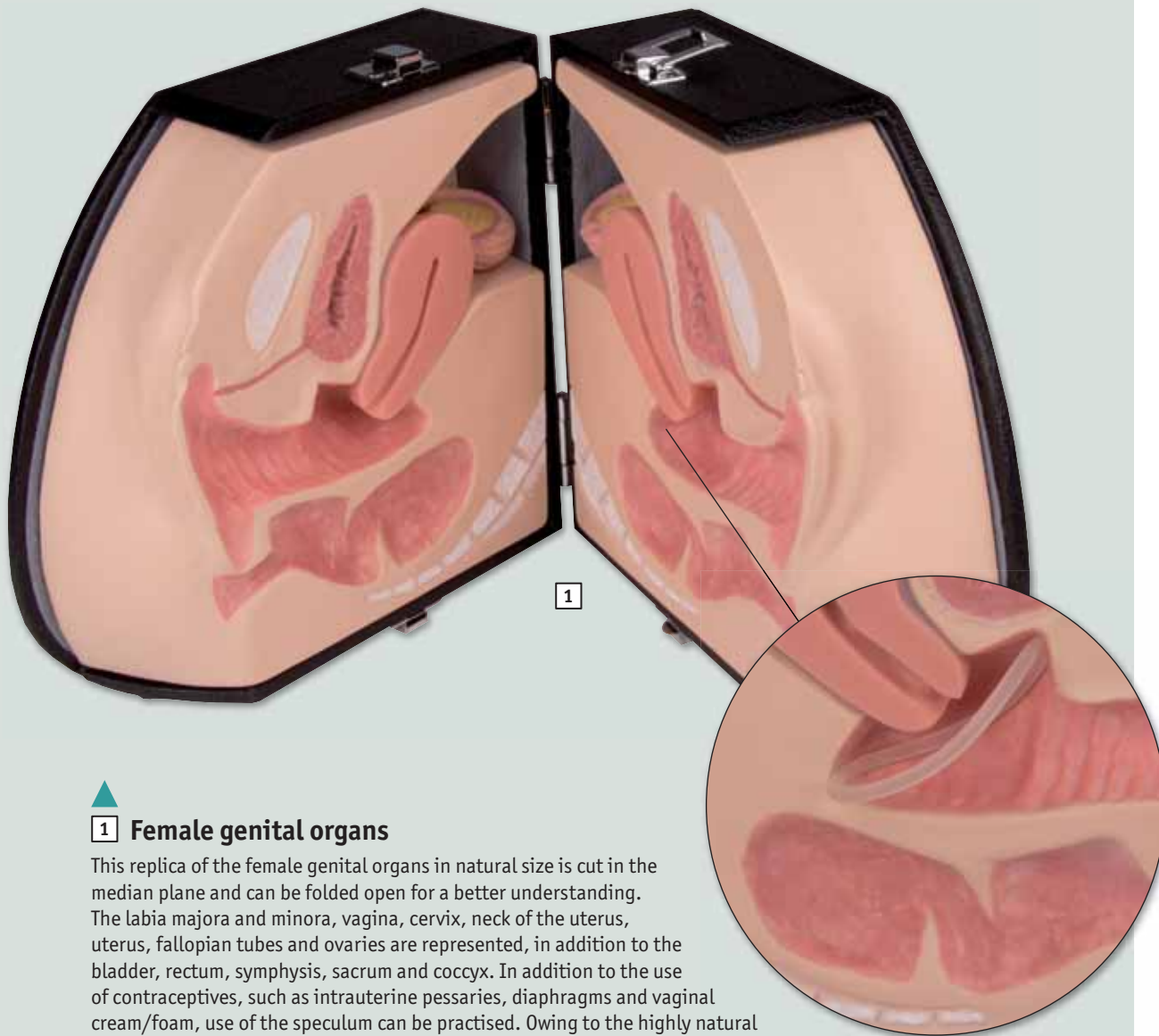
2 Replacement soft tissue insert

■ Ref.no. R10910A

3 Replacement soft tissue insert, set of 3

■ Ref.no. R10910B



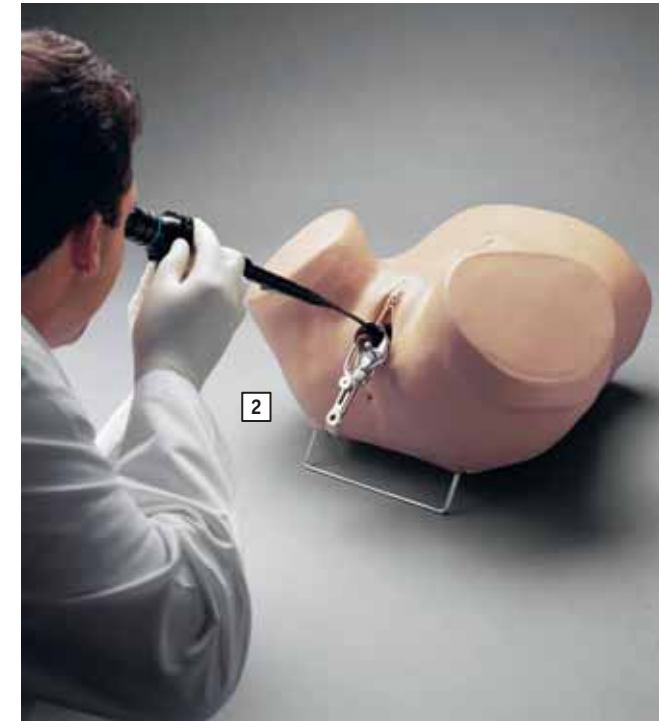


1 Female genital organs

This replica of the female genital organs in natural size is cut in the median plane and can be folded open for a better understanding. The labia majora and minora, vagina, cervix, neck of the uterus, uterus, fallopian tubes and ovaries are represented, in addition to the bladder, rectum, symphysis, sacrum and coccyx. In addition to the use of contraceptives, such as intrauterine pessaries, diaphragms and vaginal cream/foam, use of the speculum can be practised. Owing to the highly natural characteristics of the material, the model can be used for digital examinations. It is also, of course, eminently suitable as an illustration object for teaching. When opened, the model demonstrates very clearly the location and function of contraceptives. Contraceptive ring not included.

Size: 15 x 26 x 26 cm

■ **Ref.no. LM30**



2 Hysteroscopy Simulator

This simulator features:

- Full size female adult lower torso with removable soft outer skin
- Seven uteri including normal "control" uterus with healthy internal and external appearance
- Internal anatomic artwork of normal and abnormal uteri
- Internal representation of endometrial polyposis, fibroids, early and advanced carcinoma of the endometrium, torsion of sloughing fibroid, and carcinoma of the fundus
- External representation of normal and abnormal uteri
- Palpation of normal and abnormal uteri
- Normal cervix and interchangeable uteri with patented "screw" design
- Instruction manual (english)

Supplied with carrying bag.

■ **Ref.no. R10184**

1 ZOE Gynecological Skills Trainer ▶

The ZOE Simulator is an adult-sized lower torso designed to add hands-on experience for learners practicing gynecologic skills. Realistic anatomy helps educators train clinical skills for easy transition to scenario-based simulations. Optional add-ons model more pathologies for expanding curricula easily with the modular design.

Lifelike realism makes the new ZOE the perfect hands-on addition to any gynecologic skills curricula, providing invaluable experience on various gynecologic procedures including speculum examinations, fallopian occlusion, catheterization, uterine sounding, and more.

Package contents:

- ZOE Gynecologic Torso
- Anteverted uterus
- Retroverted uterus
- Clear IUD uterus
- Pregnant uteri
 - 6-8 week
 - 6-8 week w/ short ovarian ligaments
 - 10-12 week
 - 20 week
- Normal patent cervixes (5 pcs.)
- Abnormal cervixes (6 pcs.)
- Pregnant Cervices
 - 6-8 week (3 pcs.)
 - 10-12 week (3 pcs.)
- Mineral oil
- Instruction manual

■ Ref.no. R10188



Optional Modular Add-ons:

2 Uteri with Externally Palpable Abnormal Pathologies

Interchangeable uteri for recognizing abnormalities with bimanual examination

- Enlarged uterus
- Small uterus
- Bicornate uterus
- Uterus with anteversion/anteflexion
- Uterus with large ovarian cyst
- Uterus with medium ovarian cyst
- Uterus with moderate retroversion
- Myomatous uterus
- Uterus with salpingitis on left side
- Uterus with salpingitis on right side

■ Ref.no. R10188-1

3 Uteri with Normal and Abnormal Internal Pathologies

Interchangeable uteri for recognizing abnormalities by hysteroscopic viewing

- Uterus with healthy characteristics
- Uterus with advanced carcinoma
- Uterus with fundus carcinoma
- Subseptate uterus
- Myomatous uterus
- Uterus with early carcinoma
- Uterus with polyposis
- Uterus with varied polyps
- Uterus with hyperplasia

■ Ref.no. R10188-2

4 Vulva with Integrated Fistula Model

Lifelike material supports realistic practice of suturing fistulous tracts.

Modular vulva insert includes three fistulous tracts: vesicovaginal, rectovaginal, and urethrovaginal

■ Ref.no. R10188-3



Intrauterine Device Placement

Clear uterus provides visual feedback on placement and removal of IUDs



Urinary Catheterization

Realistic urethra and bladder for catheterization and drainage exercises



Speculum Examination

Lifelike skin resistance and elasticity create valuable tactile experience



Bimanual Examination

Realism of uterus and vaginal canal provide valuable examination practice



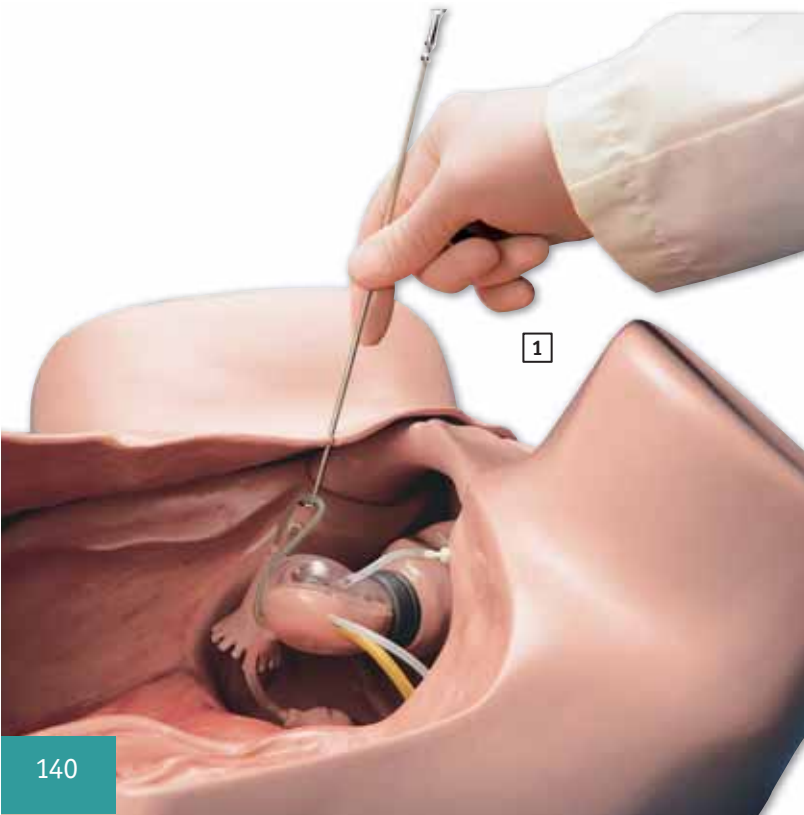
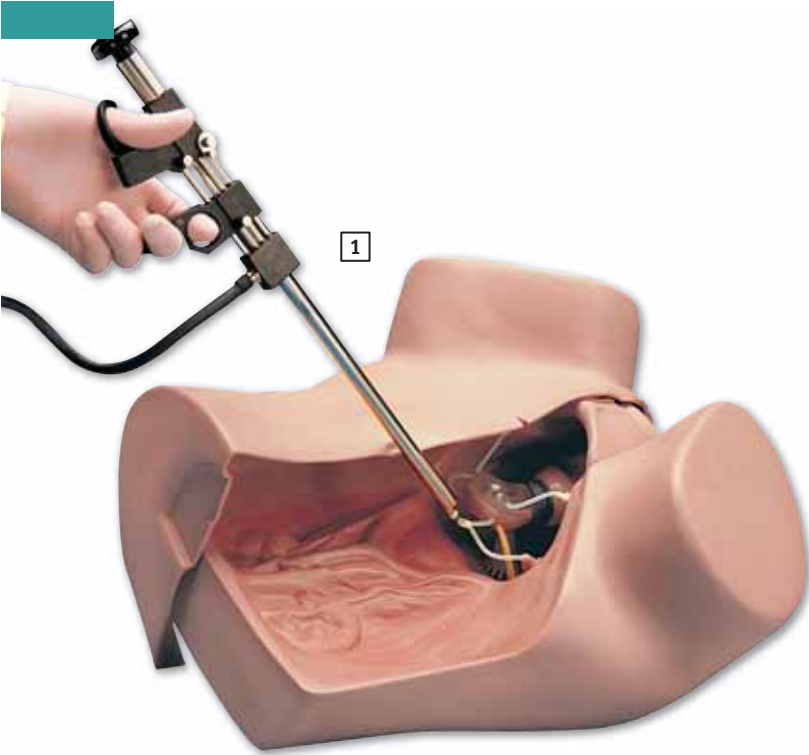
Interchangeable Cervices

Normal and abnormal pregnant and nonpregnant cervices for visualization



Suppository Administration

Patent rectum supports administration of suppository



1 Gynaecologic Simulator

Designed by physicians for physicians and health care providers, this gynaecologic examination simulator combines the ability to demonstrate multiple gynaecologic procedures as well as practice laparoscopic examination and minilaparotomy. Features: full-size adult female lower torso with relevant internal anatomic landmarks, bi-manual pelvic examination, palpation of normal and pregnant uteri, vaginal examination (including insertion of speculum), visual recognition of normal and abnormal cervixes, uterine sounding, IUD insertion and removal, contraceptive sponge insertion and removal, female condom insertion and removal, diaphragm and cervical cap insertion and removal, laparoscopic visualization and occlusion of fallopian tubes, minilaparotomy, one anteverted and one retroverted parous uterus, one 6-8 week, one 10-12 week and one 20 week pregnant uterus, five normal cervixes with patent os, four abnormal cervixes, 10 fallopian tubes, realistically sculpted and anatomically accurate ovaries and fimbriae, and uterus and cervix feature patented "screw" design for fast and easy change-out. Simulator comes with talcum powder and carrying bag.

Size: 51 x 46 x 25 cm, **Weight:** 8.5 kg

■ Ref.no. R10183

OPTIONS:

2 Set of seven normal and abnormal uteri with external palpable pathologies.

■ Ref.no. R10183-1 (not pictured)

3 Set of seven normal and abnormal uteri with internal pathologies for hysteroscopic viewing.

■ Ref.no. R10183-2 (not pictured)

4 48 hour postpartum uterus with duckbill cervix and fallopian tubes for IUD insertion, using long curved forceps.

■ Ref.no. R10183-3 (not pictured)

5 Postpartum uterus, 10 minutes after birth, for training of IUD insertion.

■ Ref.no. R10183-5 (not pictured)





1 Gynaecological Training Manikin

A lifelike female pelvis for developing diagnostic skills in gynecologic procedures, anatomical instruction, abdominal palpation, and speculum instruction. The model allows the comprehensive, stress free introduction of gynecological examinations, or more advanced tactile comparisons of pelvic pathologic conditions in a classroom setting easing the way into clinical experience. Constructed of soft, easily cleaned, vinyl materials that approximate skin texture, the model provides detailed, life-like anatomical features and references.

Included are the following interchangeable inserts:

- normal cervix for IUD insertion and removal
- normal parous cervix
- cervix with endocervical polyp
- cervix with ectropian characteristics
- cervix with neoplasia (carcinoma)
- normal uterus for IUD insertion and removal
- pregnant 10-week uterus, and two adnexal masses.

Does not include ovaries. Comes with transport bag.

Size: 33 x 33 x 30 cm, **Weight:** 3 kg

■ **Ref.no. R10182**



2 Gynecological Examination Simulator

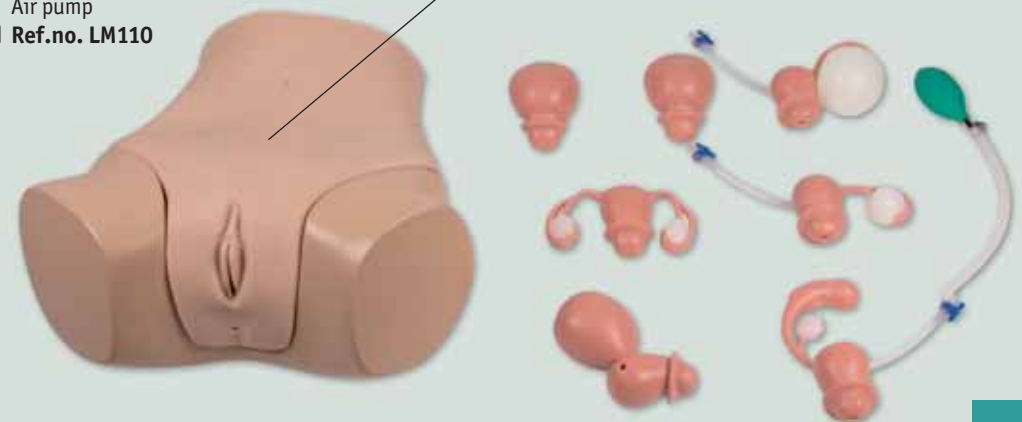
This model allows practical training in basic gynecological examinations. This is a model best suited for educational purposes for doctors-in-training and medical students not only in gynecology but in general medical practice as well.

Features:

- Soft, special material used for the external genital and abdominal cover allow the product to provide realistic simulation of bimanual examination (internal and external examination) and rectal examination.
- All uteri are movable which allows the product to recreate realistic examination of conditions such as cervical motion tenderness.
- Internal reproductive organs such as the uterus and ovaries have normal and abnormal states, and the examination of their respective disease states (intramuscular hystero myoma, subserous myoma, ovarian cyst, hydrosalpinx, etc.) can be practiced by changing the uterus. The uterus can be changed easily.
- Size of the ovarian cysts and hydrosalpinx can be adjusted by pumping in air to achieve the size and texture that closely resembles a living body.
- The product can be used for the practical training of vaginoscopy, probing, and cytology such as collection of intimal smears.
- The genital unit can be detached easily for simple care and replacement.

Interchangeable uterus

- Normal uterus
- Early pregnancy uterus
- Hystero myoma 1 (in tunica muscularis)
- Hystero myoma 2 (under endometrium)
- Ovarian cyst 1 (ping-pong ball size)
- Ovarian cyst 2 (tennis ball size)
- Hydrosalpinx
- Air pump
- **Ref.no. LM110**



1 GYN/AID Gynaecological Simulator

The full size female adult lower body gives students and educators a graphic experience in vaginal speculum examination, bi-manual pelvic examination, IUD insertion techniques, diaphragm sizing and fitting, uterine sounding, and viewing of normal and abnormal cervixes.

Features

- Full size female adult lower body with removable soft outer skin
- One normal anteverted uterus with transparent top and round ligaments
- Seven uteri with one normal "control" uterus and six with external uterine abnormalities
- Two normal cervixes for IUD insertion/removal
- Uterus and cervix feature patented "screw" design for fast and easy change-out
- Contraceptive sponge insertion and removal
- Female condom insertion and removal
- Diaphragm and cervical cap insertion and removal
- Talcum powder
- Instruction manual
- Soft carrying bag
- 6 cervixes with cervical abnormalities
- Anatomically accurate fimbriae
- Ref.no. R10186



1 Advanced Pelvic Examination and Gynecological Simulator*

Now in one completely redesigned unit, the Advanced Pelvic Examination and Gynecological Simulator is ideal for all aspects of gynecological education, training, and competency evaluation, including the bimanual exam, speculum exam, and cytology sampling. Students will appreciate the unprecedented realism of its internal and external features; while instructors will love the interchangeable components that make up its unique modular system. You choose the scenarios you want to teach! Components can be combined in a multitude of ways. This simulator allows you the flexibility of customizing your scenarios with use of included makeup, blood, and thickener. Additional specialized modules are also available (STD, post-menopause, S.A.N.E., and pre-puberty). Starter unit includes torso, normal genital pad, normal pelvic organ block with vagina and rectum, abdominal gel pad, fabric abdominal pad, abdominal overlay skin, seven uterus/cervix pieces (normal/normal with discharge option, retroverted/cervicitis, cancer/cancer, transparent IUD trainer, postmenopause/herpes, fibroids/polyp, early pregnancy), five detachable ovaries (normal, polycystic, small cyst, large adnexal mass), bladder insert, pelvic organ prolapse insert, baby powder, Injury Shades Makeup Wheel, Primary Colors Makeup Wheel, blood mix, methyl cellulose thickener, syringe, lubricant, instruction manual, and hard carry case. Completely washable, disassembles for easy cleaning.

Weight: 11 kg

■ Ref.no. R10940



2 Complete Set of Specialized Examination Modules

Includes one of each module listed below.

Weight: 2.5 kg

■ Ref.no. R10941

3 Sexually Transmitted Diseases (STD) Module

Includes external genital pad and pelvic organ block/vagina and rectum.

- Herpes blisters
- Venereal warts
- Syphilis chancre

Weight: 0.7 kg

■ Ref.no. R10941-1

4 Post-Menopause Module

Includes external genital pad and pelvic organ block/vagina and rectum.

- Shrunken labia
- Narrow introitus
- Eversion of urethral meatus
- Anal tags
- Small thrombosed hemorrhoid
- Pale, smooth vaginal walls
- Vaginal lesions
- Vaginal adhesions
- Vaginal cancer

Weight: 0.7 kg

■ Ref.no. R10941-2

5 Sexual Assault Nurse Examiner (S.A.N.E.) Module

Includes external genital pad only.

- Implanted pubic hair for evidence collection

Weight: 0.8 kg

■ Ref.no. R10941-3

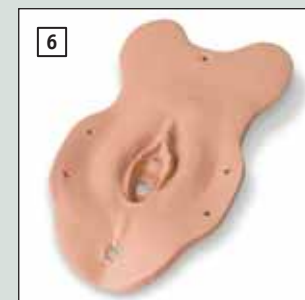
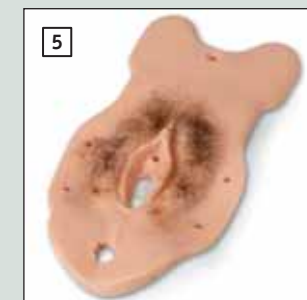
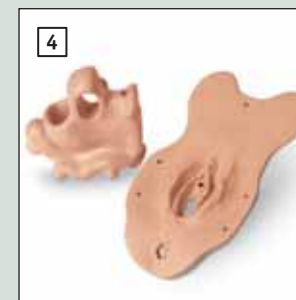
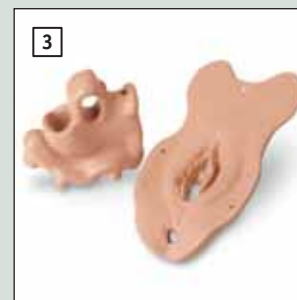
6 Pre-Puberty Module

Includes external genital pad only.

- Represents 6-10 year-old
- Pre-pubertal appearance
- Intact hymen

Weight 0.3 kg

■ Ref.no. R10941-4





1 Breast cancer palpation model

Life size model of a female breast made of tissue-like material. The model includes a palpable lump as well as a mastopathy. The supplied educational card shows the position of the lumps as well as the statistical distribution of possible lumps in the breast. Additionally the card includes an overview of breast cancer classification.

Size: 9 x 10 x 4 cm, **Weight:** 0.3 kg

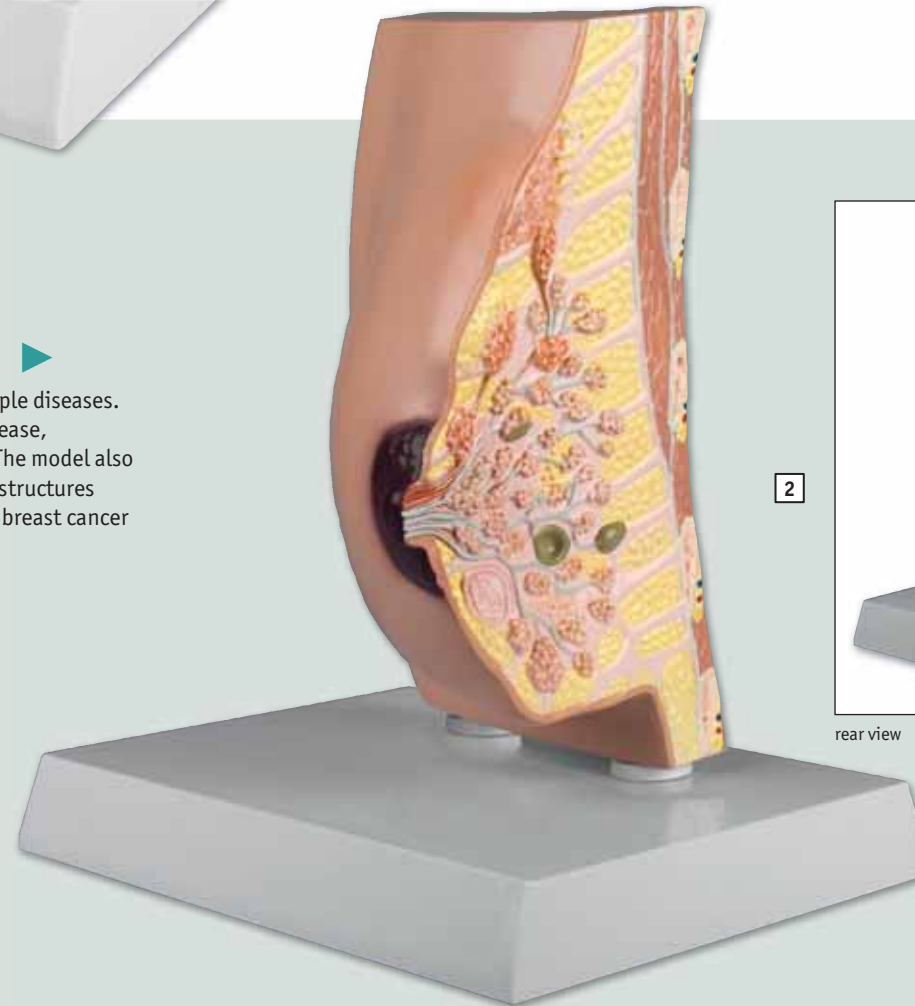
■ Ref.no. L281

2 Breast cross section with diseases

Cross section of a female breast in life size with multiple diseases. The model shows IBC, precancerosis, ILC, IDC, t's disease, fibroadenoma, pseudo lump, mastopathy and cysts. The model also shows normal anatomy of the breast as well as other structures like muscle layer and ribs. With educational card and breast cancer classification. On stand, removable.

Size: 10 x 16 x 8 cm, **Weight:** 0.4 kg

■ Ref.no. L280



2



rear view



1

1 Single breast examination trainer

The Single Breast Examination Trainer has been designed for use in education in breast cancer prevention and breast self-examination. Breast self-examination is an important way of detecting cancer at an early, more treatable stage. Use the trainer to demonstrate proper manual examination and discussion of normal and abnormal findings. Soft, lifelike simulated breast tissue fits over a sturdy base with molded ribs. Interchangeable lumps and nodules of various sizes, shapes, and densities can be placed within the breast in any combination, offering a complete educational experience. Reddened peau d'orange area on skin represents inflammatory breast cancer (IBC). Dimpling indicates invasive disease. The Single Breast Examination Trainer includes four soft (skin color) nodules that represent normal tissue; three medium (white) lumps; and four hard (red) lumps, including a fixed-wall tumor. Lumps and nodules vary in size from 1-3 cm, are round and irregular in shape, representing both cysts and malignant tumors. Also included are baby powder, soft carry case, and instruction card.

Weight 1.3 kg

■ Ref.no. L63



2



2 A-B-C breast examination set

Teaching models available in three different breast (cup) sizes, because all women are not the same. The set includes small (142 ml), medium (255 ml), and large (794 ml) models. Each model contains five lumps which, just as in real life, are more difficult to detect in larger breasts than in the smaller breasts. Each model is washable with soap and water. A must for any comprehensive teaching program. Includes slipcovers and carry case.

Weight: 2.5 kg

■ Ref.no.L61



3

3 Breast examination simulator

Use the Breast Examination Simulator for teaching and practicing breast palpation techniques. This is an excellent model for hospitals and medical clinics to use in teaching women the proper techniques of breast examination. Special skin creates a lifelike look and feel. A unique feature of this simulator is the realistic fluid breast mass. This mass allows displacement of breast tissue under palpation almost exactly as it occurs in a live patient. Each breast contains abnormalities. The left has a small nodule in the upper outer quadrant and a fibroadenoma in the lower inside quadrant. The right breast has a fixed lump in the upper outer quadrant, and a fluid-filled cyst in the lower inside quadrant. The simulator allows women to practice all phases of breast examination in both a sitting and supine position. This lightweight simulator is designed with a concave back to allow placement against the patient for ease in demonstrating or practicing palpation techniques. Can be used as a body overlay or attached to body for a standing examination. Includes instruction manual, American Cancer Society Guide to Breast Examination, and storage box. Also includes a neck strap (3 ft. long) and a waist strap (4 ft. long) that are adjustable and can be strapped on.

Weight: 3 kg

■ Ref.no. L62

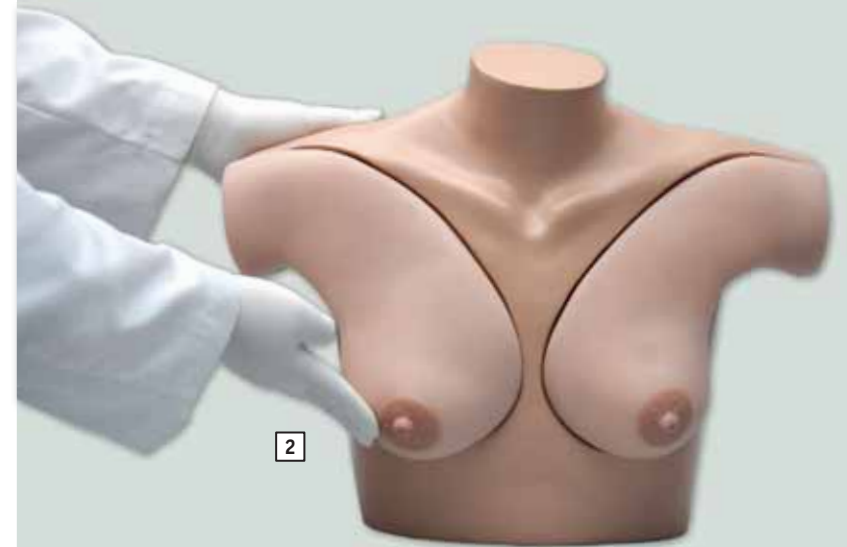


1 Advanced Breast Exam Simulator

Breast cancer is the second leading cause of cancer death among women; a properly performed manual examination is an important way of detecting cancer at an early, more treatable, stage. The Advanced Breast Exam Simulator offers unparalleled realism for teaching both clinical and self-breast examination. Unlike other simulators, tissue density actually varies within the simulated breast, just as it does in a live patient. Tumors of varying sizes (1-4 cm diameter), shapes (round, oval, irregular/stellate), and densities can be inserted by the instructor for an expanded combination of training scenarios. Tumors represent adenomas, cysts, malignant tumors, and enlarged lymph nodes. The torso is correctly positioned in the supine position and allows access to both axillae. The trainer features palpable ribs, sternum and clavicles, and enlarged lymph nodes in the axillary and subclavicular areas. Peau d'orange ("orange peel skin") with inflammation, inverted nipple, skin dimpling, and asymmetry are also depicted on the incredibly realistic skin. The Advanced Breast Exam Simulator has been designed for supine examination, but may also be used standing upright if desired. Training may also be done without the overlay skin. Includes a rigid underbody, right and left breast inserts, overlay skin, three tumor sets (27 lumps), nine soft lumps to represent soft breast tissue, one hard lump to represent chestwall infiltration, baby powder, hard carrying case, and instruction manual.

Torso size: 36 x 30 x 15 cm

■ Ref.no. L57



2 Breast Self Examination Simulator

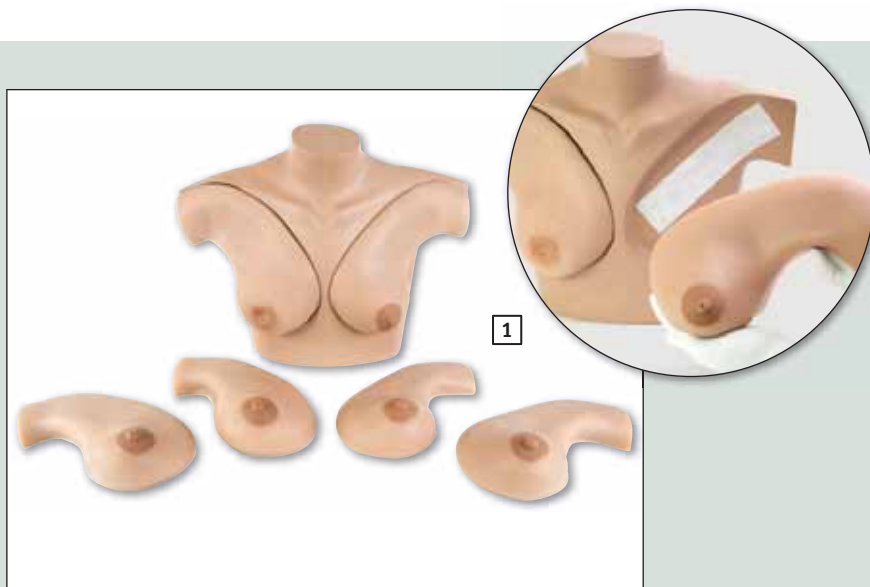
The BSE simulator has received top marks from healthcare professionals. They are thrilled with its durability, texture, and realism. Now with new softer & more realistic breasts. Teaching is made easy and realistic since the BSE simulator may be used in either the vertical or reclining position - Each breast may be detached from the simulator

- One breast has nine lumps from 3 to 25 mm in diameter
- Abnormal breast includes two lumps beneath the arm
- Three lumps may be palpated easily; six are extremely subtle
- Teach the spiral or grid pattern to improve detection techniques

Use this simulator, stress the need for monthly self-examination, encourage the recording of results and prompt reporting of any unusual findings to a health care professional. With instruction manual and carrying bag.

■ Ref.no. L56



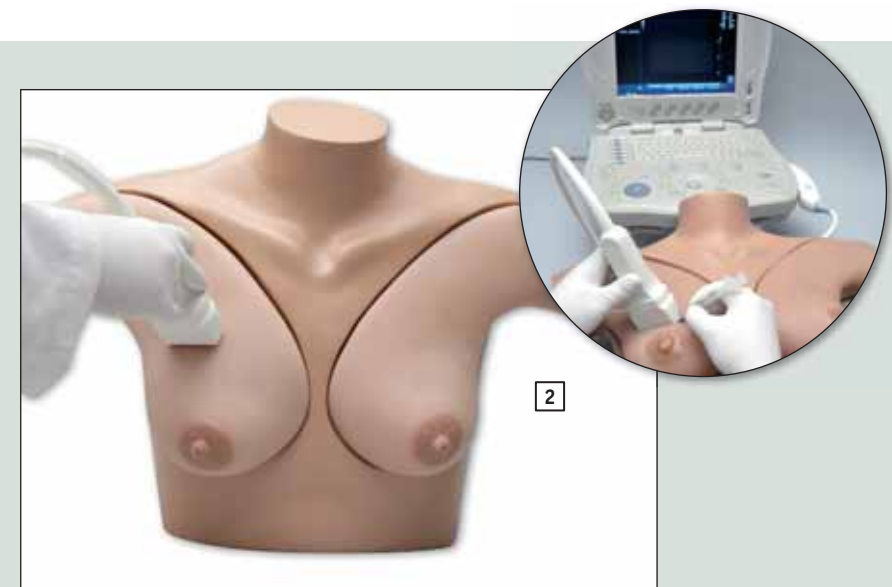


1 Breast Palpation Simulator for Clinical Teaching

The new Breast Palpation Simulator for Clinical Teaching combines state-of-the-art materials to create a realistic look, feel, and texture in addition to lifelike softness and durability. The simulator incorporates a combination of left and right breasts, including axilla regions, with a variety of masses that have distinct textures useful in recognizing normal and abnormal conditions. This simulator offers an excellent training platform on which breast examination techniques may be demonstrated.

The Breast Palpation Simulator's six interchangeable breasts include a variety of different pathologies for training of breast examination. An assortment of malignant and benign tumors is included within both the mammary and axilla regions.

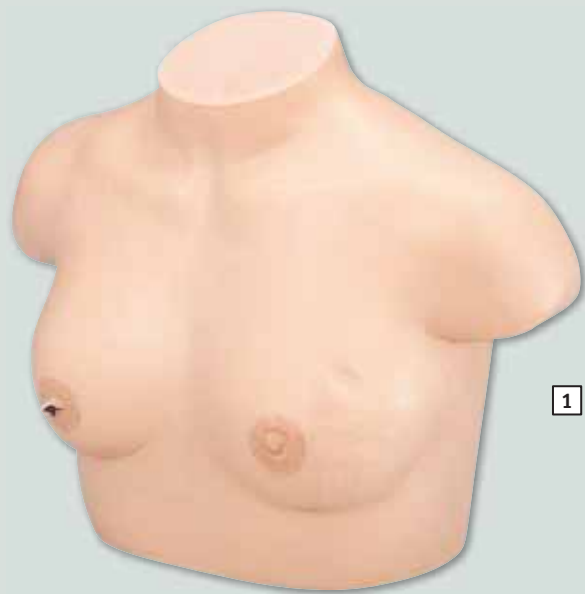
- Three interchangeable left breasts
- Three interchangeable right breasts demonstrating carcinoma and the "orange skin effect, giant sarcoma, and normal breast tissue
- Demonstrating chronic mastitis, benign growth, and scirrhous carcinoma
- Lifelike softness, texture and look. Nevertheless durable.
- Breasts are attached to adult upper torso and can be easily removed and re-assembled
- The trainer can be used in either the upright or reclining position
- carrying bag and instruction manual included
- **Ref.no. L60**



2 Breast Phantom Simulator

Left and right breasts attach to adult upper torso. The left breast permits ultrasound identification of cysts versus dense masses, while the right breast permits identification of cysts of different sizes and depths.

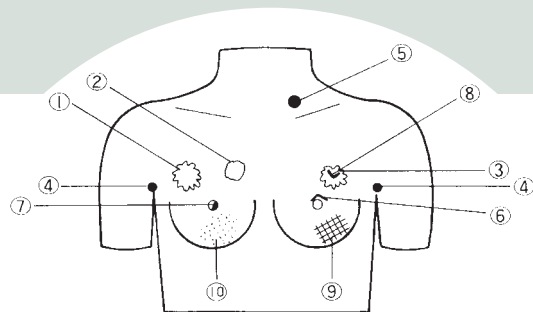
- Visualize cysts and masses using REAL ultrasound equipment
- Left breast contains six dense masses and three cysts randomly oriented
- Right breast contains ten cysts of different sizes and depths
- Cysts used to teach ultrasound guided needle aspiration
- Dense masses used for ultrasound guided needle biopsies
- Realistic texture and look
- Self-healing skin
- Breasts easily removed and assembled
- Use in either the upright or reclining position
- Medium skin tone standard
- Light or dark skin tone optional at no extra cost
- Soft carrying bag
- Instruction manual
- **Ref.no. L58**



1 Breast cancer palpation model

True to life replica of a female breast with pathological changes. Suitable for training of physicians and medical specialists, but also for instruction in self-examination. Via the use of various special synthetic materials, this model is extremely realistic in appearance and feel. Includes lumps, lymph node metastases and breast and skin changes.

■ Ref.no. LM18



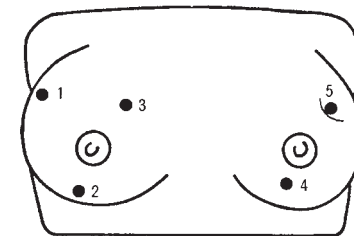
1. Irregular lump, cancer, 2. Soft, flat lump, benign tumour 3. Irregular lump, cancer, 4. Lymph node metastasis, axillary 5. Lymph node metastasis, cervical, 6. Inverted nipple (as symptom of underlying cancer), 7. Paget's disease, 8. Indentation (caused by underlying cancer), 9. Oedema of the skin, orange peel skin, 10. Mastitis with erythema



2 Breast cancer palpation model

True to life replica of a female breast with pathological changes. Suitable for instruction in self-examination, but also for physicians and medical specialists. Owing to the possibility of strapping the model around the patient, particularly suitable for practising self examination. Via the use of various special synthetic materials, this model is extremely realistic in appearance and feel. Highly suitable for group instruction.

■ Ref.no. LM17



The model contains 5 lumps and one lump (no. 5) is produced with a skin indentation.



1

Basic		Transparent Hand-Eye Coordination Hyperechoic target Size of targets: 6 mm dia. and 10mm dia. Type of targets: Hyperechoic (blue) Number of targets: 12 pieces
Advanced		Opaque Acquisition of skills in safe and reliable needle biopsy Hypochoic target Hyperechoic target Size of targets: 6 mm dia. and 10mm dia. Type of targets: Hypochoic (blue), Hypochoic (red) Number of targets: 12 pieces

1 Ultrasound-Guided Breast Biopsy Phantom

We would like to introduce the new training phantom for ultrasound-guided breast biopsy.

It features:

- Fine Needle Aspiration Biopsy (FNAB), Core Needle Biopsy (CNB) and Mammotome biopsy can be performed under ultrasound guidance.
- Tissue of the breast phantom(s) represents softness and resistance of the mammary gland.
- Excellent image quality.
- Targets are colored to confirm successful sampling.
- Targets are embedded in three levels to allow training in needle access with different angles and depth.

The phantom is available in two versions. The basic version is transparent and contains 12 hyperechoic targets, size 6 mm and 10 mm, targets colored in blue. The advanced breast is opaque and has also 12 targets, 6 hyperechoic (blue) and 6 hypoechoic (red) targets, sizes 6 mm and 10 mm.

Size: 136 mm diameter x70 mm height, weight: 0.7 kg

Set of one basic and one advanced breast

■ Ref.no. R16675

Set of two basic breasts

■ Ref.no. R16675-1

Set of two advanced breasts

■ Ref.no. R16675-2



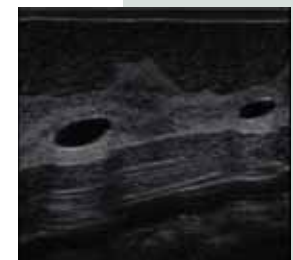
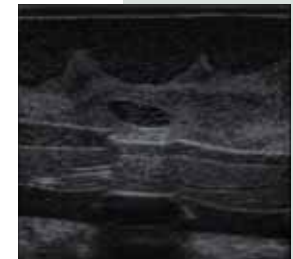
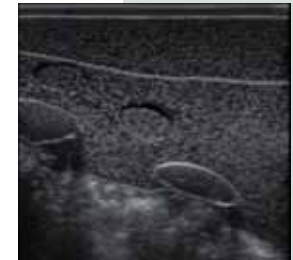
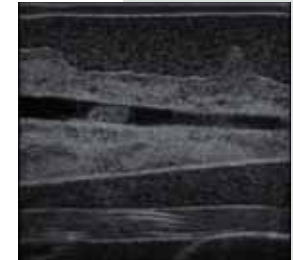
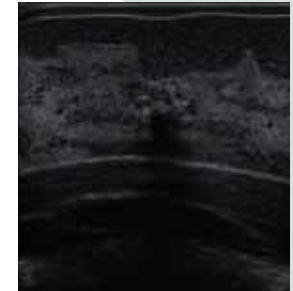
2



2 Breast Ultrasound Examination Phantom

A unique phantom for training in basic breast ultrasound examination. Simulated targets with different echogenicities are embedded in the phantom mammary gland. The subcutaneous adipose, the mammary gland, the galactophonre, Cooper's ligament, the retromammary adipose, the costae, the clavicle, the pectorails major and the lung can be visualized as well as the lymph nodes at axilla.

- Training in basic breast ultrasound examination.
- Sonography for patients: Simulated targets with different echogenicities are embedded in the phantom mammary gland.
- Ref.no. R16670





1

1 Testicle Self Examination Model

Made from soft material, these life-size model features 2 lumps in each testicle. Perfect for teaching TSE (Testicle Self Examination). Supplied with carrying bag.

■ Ref.no. R10065



3

3 Testicle Self Examination Model

Self-examination of the testicles is just as important as self-examination of the female breasts for early detection of tumours. Providing exceptional realism, this simulator features soft, thin outer skin with delicate underlying structures and four embedded, simulated tumours. Ideal for teaching proper palpation techniques. To maintain the lifelike feeling of the skin, baby powder (included) should be applied from time to time.

Size: 23.5 x 16 x 6.5 cm, **Weight:** 0.5 kg

■ Ref.no. R10034

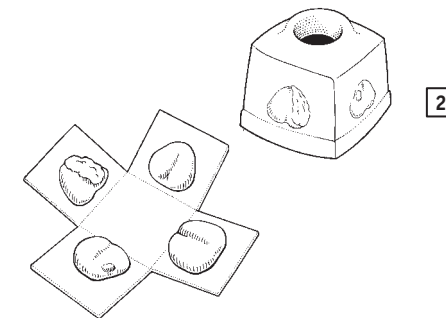
2 Prostate Examination Trainer

The trainer is supplied as a four sided box housing 4 prostates: Normal Benign, Enlarged Benign, Early Malignant, Advanced Malignant.

- Realistic tactile feeling
- No prostates must be replaced
- Each is identified via a single, gloved finger access port
- Easy to handle

The soft but firm touch of these prostates has been extensively tried and tested by specialist urologists

■ Ref.no. R10082



2



4

4 Orchidometer, plastic

Orchidometer for diagnosis of testicle volume. Consists of prepubertal testicles (1 to 3ml) in yellow, pubertal testicles (4 to 12ml) in orange and adult testicles (15 to 25ml) in red. Strong plastic material, hygienic, on rope.

■ Ref.no. 0M20

1 Scrotal Ultrasound Phantom

Scrotal Ultrasound Phantom provides trainees life-like training with high quality ultrasound images. Interchangeable normal and cancerous phantoms offer not only an anatomical understanding but also pathological images.

Training Skills

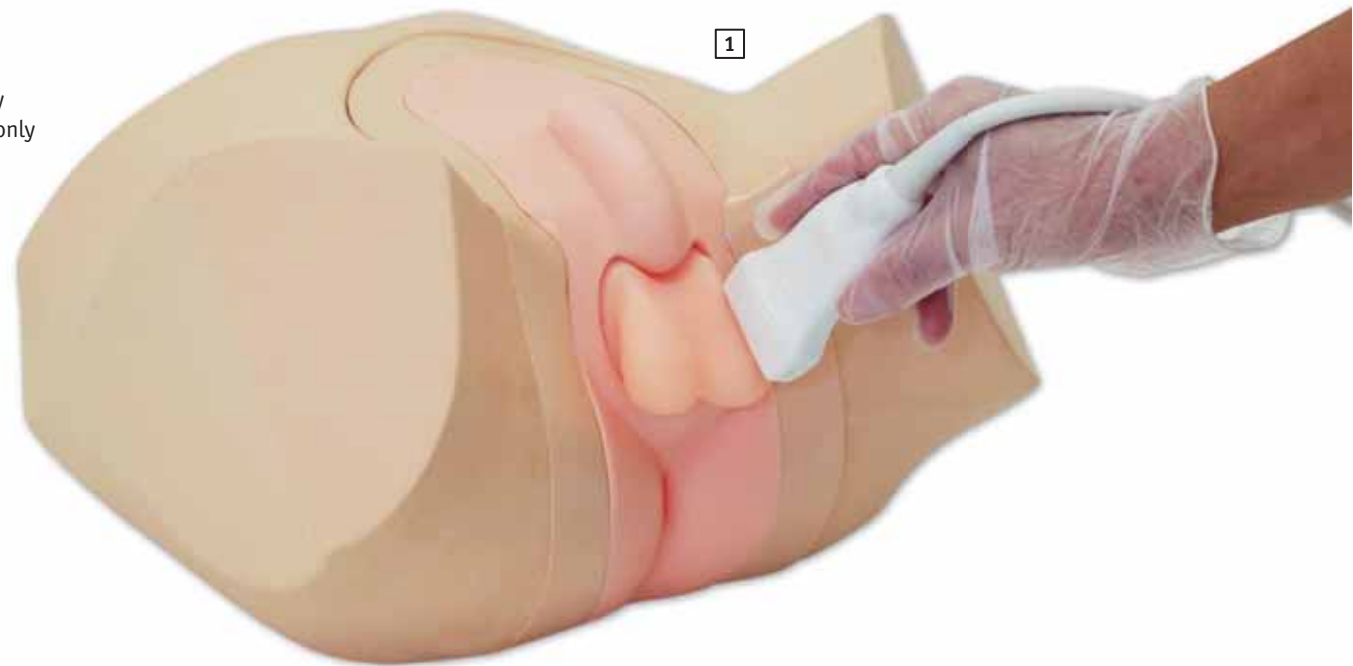
- Scrotal ultrasound screening
- Visualization of testicular cancer

Features

- Excellent ultrasound image quality.
- Normal and pathological units provide various cases.
- Scrota can easily detach from the model for replacing and cleaning.

Size: 34 x 33 x 24 cm

- **Ref.no.** R16018



2 Prostate Examination Simulator

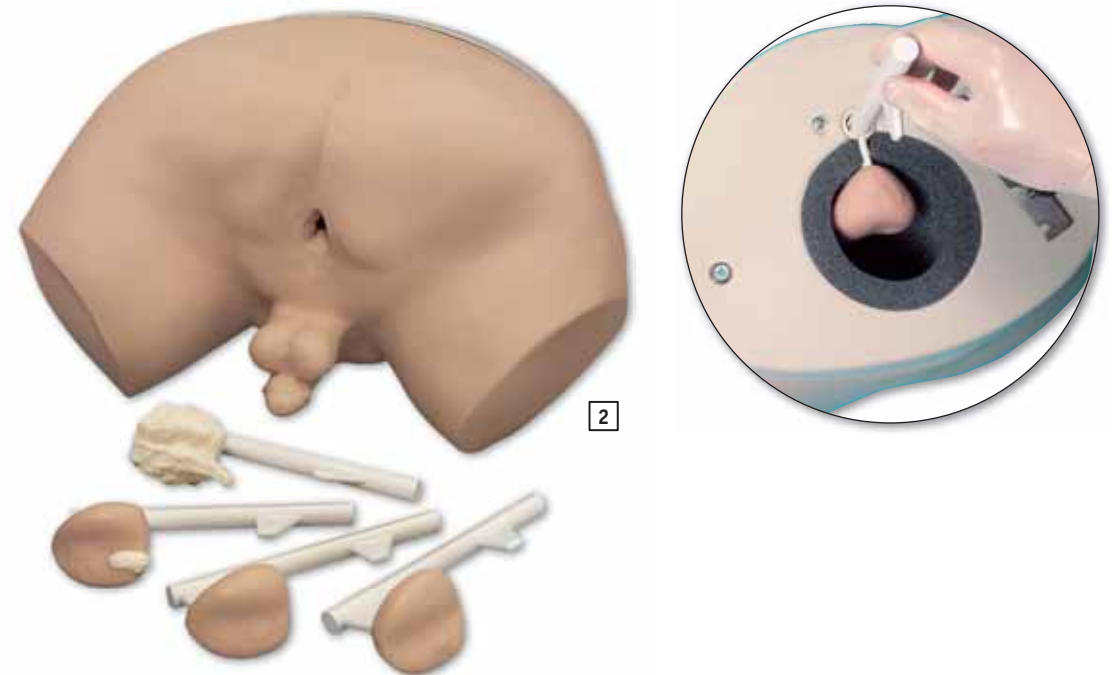
This simulator consists of a male abdomen body and 4 different interchangeable prostate glands which can be inserted to allow realistic practice in diagnosis by rectal examination. Supplied with lubricant, cleaner and transport case.

The 4 prostate glands represent the following characteristics:

- Benign, slightly enlarged, but otherwise normal
- Beginning stage of carcinoma, a discrete, hard nodule is palpable in the upper right quadrant
- The spread of carcinoma is demonstrated; the small nodule has increased in size and has become an external hard mass on the surface of the gland
- Totally replaced with carcinoma, the entire gland feels hard and irregular

Size: 54.5 x 38 x 30.5 cm, **Weight:** 11 kg

- **Ref.no.** R10031



1



1 Prostate & Rectal Simulator

The Prostate & Rectal Simulator include 9 types of prostates and 4 types of rectums that are easily changeable and can be positioned in 3 different ways.

Training Skills

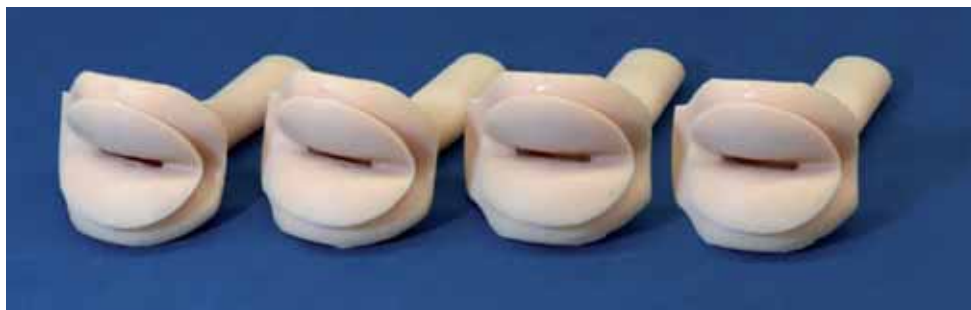
- Digital-examination of the prostate and rectum
- Insertion and the use of the anal-scope and the proctoscope

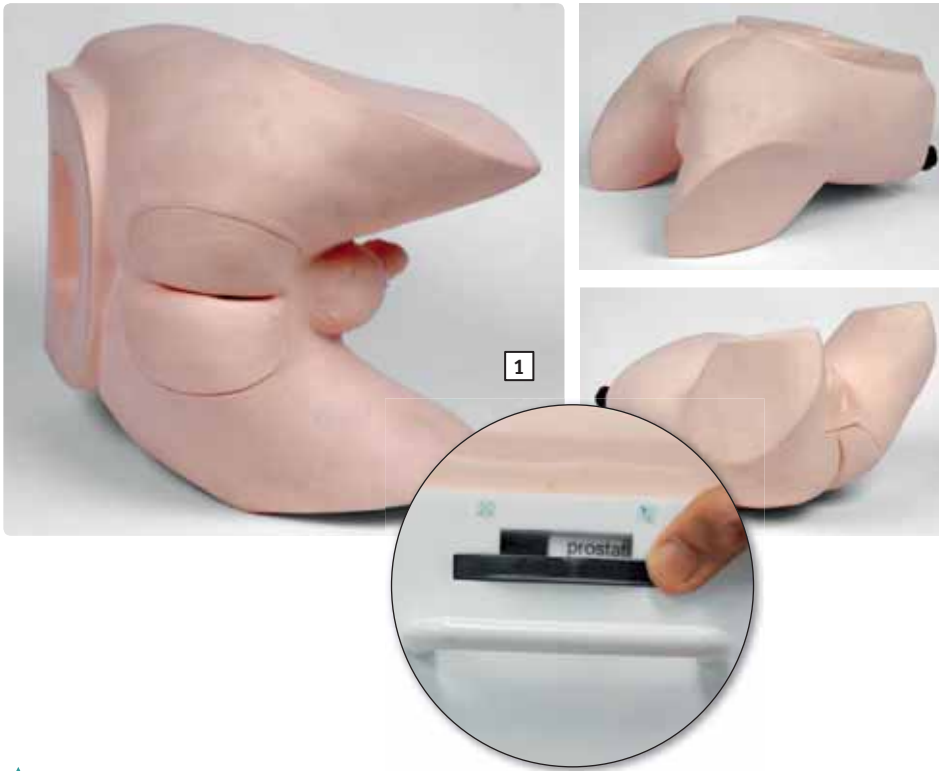
Features

- Nine types of prostate simulate different scenarios: Normal, prostatitis, enlargement 1, enlargement 2, carcinoma 1, carcinoma 2, carcinoma 3, carcinoma 4, carcinoma 5
- Four rectum units: normal, small carcinoma, large carcinoma, polyp combined with small carcinoma
- Training with multiple prostates and rectal cases is concurrent and time efficient
- Lateral, supine and prone positioning.
- 3 revolving units with 9 prostates can easily be changed

Size: 34 x 33 x 24 cm

■ **Ref.no.** R16016





1 Prostate examination trainer

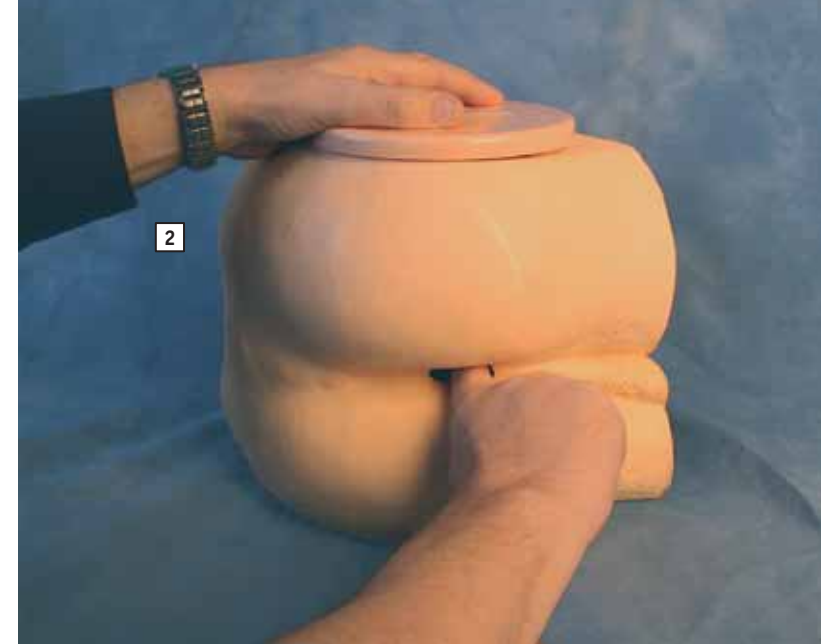
This trainer allows the realistic practice of the digital prostate examination. The model comes with 10 different prostate inserts. 5 of these insert can be placed inside the model simultaneously, the teacher can easily switch between them using a steering switch.

The inserts are:

- 1x normal
- 2x prostate gland enlargement
- 2x prostatitis
- 5x cancer

Because this model is made of special soft material it gives a lifelike impression and is a teaching aid that cannot be replaced.

■ Ref.no. R16230



2 Clinical Prostate/Rectal Examination

This unique trainer has a realistic feel to practice a clinical examination and diagnostic technique. The trainer has a realistic anus and rectum mounted within the buttock shape and presents in the left lateral position. Both the rectum and the five interchangeable prostates are replaceable. When in use the prostate is hidden and cannot be seen by the trainee. To make the change over from one prostate to another could not be simpler, lift the lid, unplug and replace.

Features:

- Allows for procedural skills training for rectal examination.
- **There are 5 interchangeable prostates:**
 - asymptomatic
 - bilateral benign
 - unilateral benign
 - bilateral carcinoma
 - unilateral carcinoma
 - rectal polyp

Skills:

- Use of a proctoscope
- Digital rectal examination
- PR examination technique and diagnosis.
- All parts are latex free and washable.

■ Ref.no. R10081





1 Rectal examination model

This model was developed to give the opportunity for lifelike digital rectal examination training. The unisex model can be modified with 4 different inserts to represent different patient cases.

It comes with 4 modules:

- Normal
- Cancer A
- Cancer B
- Polyps

Additionally the model has a prostate insert as well as an endocervix insert. The anus is palpable to a depth of 7 cm. The model comes with lubricant and storage box. Inserts are wear parts and can be re-ordered separately.

■ Ref.no. R16240

Insert with normal anatomy

■ Ref.no. R16240A

Insert with cancer A

■ Ref.no. R16240B

Insert with cancer B

■ Ref.no. R16240C

Insert with polyps

■ Ref.no. R16240D



2 Premature Infant Model

The ideal model for practicing how to care for premature infants. Developed for training in incubator care. Suitable for practicing washing, cleaning, and feeding, as well as aspiration and other procedures involving equipment. The front fontanel is palpable.

2 Model A

30 week old boy

Size: 36 cm, circumference of head: 30 cm

Weight: 1.6 kg

■ Ref.no. LM62A

3 Model B

24 week old boy

Size: 32 cm, circumference of head: 24 cm

Weight: 0.7 kg

On this model, the head can be turned to the side.

■ Ref.no. LM62B



1 Micro-Preemie-Simulator ▶

According to a WHO study one out of ten babies is born prematurely. Delivery of an extremely low birth weight infant ($\leq 1000\text{g}$) remains to be an extreme medical emergency. The Micro-Preemie manikin simulates a 25-week neonate – the smallest, most realistically proportioned. The manikin is entirely flexible and offers training opportunities for a number of commonly performed procedures

- Extraordinary realism is achieved with the preemie's pose and lack of muscle tone
- Invaluable for simulation training in the care and handling techniques for infants requiring multiple medical interventions at the limits of viability
- Perfect for NICU, emergency medical response teams, flight medics, mock code scenarios, nursing schools, medical schools, hospitals, and family education
- Simple to use for simulation, requires no specialized equipment, and is compact and highly mobile

Features & Functions:

- Airway, breathing, and ventilation
- Chest tube
- Cleaning and diaper changing
- Delivery
- GI
- IV access
- Monitoring
- Neural tube defect (Myelomeningocele)
- Observation and measurement
- Scenarios
- Simulated breathing
- Skin and wound care
- Skin is very soft and lifelike
- Stoma care
- Suction
- Umbilicus with optional omphalocele
- Various monitors, sensors, electrodes, etc., can be attached to the manikin wherever needed
- Ventilation

Includes Micro-Preemie Simulator, diaper, hat (color may vary), umbilicus, omphalocele, neural tube defect, bilateral chest block, unilateral chest block, airway, 3 cc syringe, 25-gauge butterfly needle, lubricant, blood powder, and bulb and tube assembly.

Specifications:

Age: 25-week gestation, **length:** 30 cm from head to heel, **hand-to-hand width:** 22 cm, **head circumference:** 23 cm, **head depth:** 8 cm, **shoulder-to-shoulder width:** 10 cm, **stomach circumference:** 22 cm, **toe-to-toe width:** 15 cm, **torso depth:** 5 cm, **weight:** 0.91 kg

- Ref.no. BA95



1 Newborn Nursing Skills and ALS Simulator

This training model was developed to meet the objectives of the Neonatal Resuscitation Program's course curriculum published by the American Academy of Pediatrics. It offers multiple training opportunities:

Airway, Breathing, and Ventilation

- Anatomical landmarks
- Auscultation of lung sounds during ventilation
- Bilateral lung expansion with visually dramatic chest rise
- ET tube insertion
- Manually control rate and depth of respiration
- Positive pressure ventilation
- Realistic chest compressions
- Sellick maneuver
- Unilateral chest movement option (collapsed lung and mainstem intubation)

Birth Anomalies

- Neural tube defect (Myelomeningocele) easily attaches to the back
- Omphalocele

Chest Tube

- Practice chest tube insertion and care of the chest tube area

Cleaning and Diaper Changing

- Practice cleaning, bathing, and diaper changing
- Waterproof and completely immersible

Gastrointestinal (GI)

- Accepts a OG/NG tube for practicing tube feeding and suctioning

Monitoring

- Various monitors, sensors, and electrodes may be attached and connected

Observation and Measurement

- Observe and measure each part of the body (head, umbilicus, skin, etc.)

Scenarios

- Build your own high-risk delivery, emergency, transport, and NICU scenarios

Skin

- Delicate appearance and texture of real skin
- Soft, durable lifelike skin

Suction

- Practice suctioning nose, oral cavity, and stomach

Umbilicus

- Can be attached and detached easily
- Made of soft, realistic material
- Practice blood withdrawal or infuse fluids
- Patent umbilicus with venous and arterial access

Venous Access

- Accepts IV catheter or butterfly infusion needle
- IV hand and foot with realistic flashback from pressurized system
- Soft, lifelike skins with small lumen tubing for realistic practice

Includes:

Simulator, replaceable airway (2), bilateral lung, collapsed lung, functional (patent) umbilicus, omphalocele, myelomeningocele, hand skins (2), foot skins (2), vein system for hand, vein system for foot, 500 ml fluid supply bag (2), 3 cc syringe with needle, 25 gauge infusion butterfly needle, 25 ml syringe, artificial blood powder, lubricant, baby powder, and hard carry case.

Newborn size: 48 cm (crown to heel), 3400 g weight, 36.8 cm head circumference

- Ref.no. BA96



1 Baby C.H.A.R.L.I.E. Neonatal Resuscitation Simulator with ECG

Baby CHARLIE was designed to satisfy all training needs of the Neonate Resuscitation Program, 7th Edition by the American Academy of Pediatrics.

C: Compressions, Cardiac

H: Heat compatible

A: Airway, Arterial access via the umbilicus

R: Resuscitation

L: Laryngeal mask capable for oxygen use or PPV

I: Intravenous, Intraosseous, Intubation

E: ECG (EKG)

Features

- Airway, breathing, intubation, and ventilation
- Birth anomalies
- Chest tube placement
- CPR
- ECG simulation
- Gastrointestinal (GI) tube
- Interchangeable genitalia
- Intraosseous infusion
- IV hand and foot
- Observation and measurement
- Palpable manual pulse points in 7 locations
- Patent umbilicus with venous and arterial access
- PICC site in arm
- Urinary catheterization

C.H.A.R.L.I.E. comes complete with:

Airways, 2; standard and advanced

- Baby powder
- Bilateral chest
- Blood
- Carry bag
- Defibrillation chest
- Intraosseous bones and skin
- IV bag
- IV skin and veins for hand and foot
- Male and female genitalia
- Myelomeningocele
- Needles
- Omphalocele
- Umbilicus
- Instruction manual

Interactive ECG Simulator

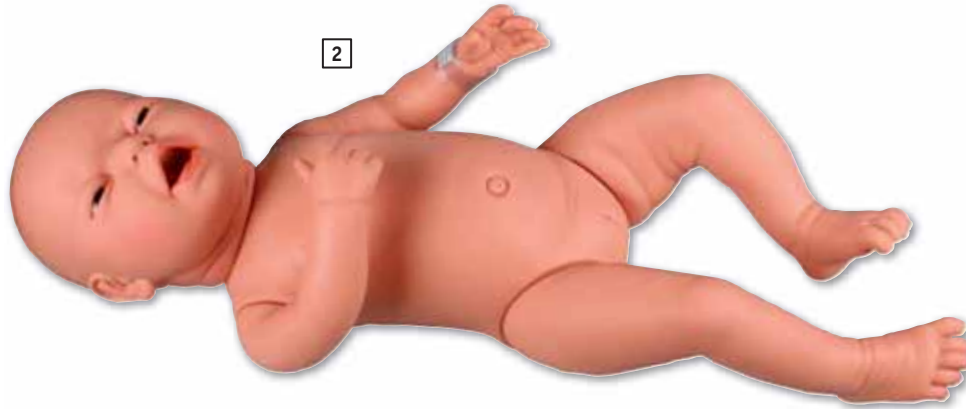
- Defibrillation shock can be delivered through manikin or simulator
- Connect defibrillator/external pacer to simulator using adapters
- Built-in circuitry allows you to defibrillate and pace directly into the ECG simulator and observe ECG rhythms through the PADS connector
- Convert feature
- Select another rhythm to run immediately after defib discharge
- Pacing can be done on any manufacturer's defibrillator
- Battery saver feature powers-off simulator automatically when not in use
- 6 waveforms
- 17 adult/pediatric rhythms
- Ref. no. BA97

2 Baby C.H.A.R.L.I.E. Neonatal Resuscitation Simulator without ECG

You do not need the ECG and defibrillation function? This product offers all functions of Baby C.H.A.R.L.I.E. but without the interactive ECG simulator.

- Ref. no. BA97-1





◀ Neonate doll for nappy practice

This model of a neonate is a true to life replica, but nevertheless highly economically priced. It is therefore eminently suited to group training (bathing and nappy practice). Mobile joints allow all the main exercises in infant care.

Size: 50 cm, Weight: 1.2 kg

- 1 Male version
■ Ref.no. BA72
- 2 Female version
■ Ref.no. BA73
- 3 Male version, dark skin
■ Ref.no. BA82
- 4 Female version, dark skin
■ Ref.no. BA83 (not pictured)

Parent Education Baby ▶

This Newborn baby doll can be used for nappy practice and baby care courses for parents. The movable doll can be used for holding and carrying practice, practice of navel care, skin care and nappy practice. The model weighs approx. 1.2 kg, but feels a little heavier because of missing body tension in comparison with a real baby. It has a slightly open mouth and can be used for breastfeeding practice. A stump of the umbilical cord is present to allow navel care practice. Skin folds allow training of proper body hygiene. Head, arms and legs are movable.

White Skin, Size: approx. 50 cm

1 Male version 1,2 kg

■ Ref.no. BA77

2 Male version 2,4 kg

■ Ref.no. BA77-1 (not pictured)

3 Female version 1,2 kg

■ Ref.no. BA78

4 Female version 2,4 kg

■ Ref.no. BA78-1 (not pictured)

Dark Skin, Size: approx. 50 cm

5 Male version 1,2 kg

■ Ref.no. BA87

6 Male version 2,4 kg

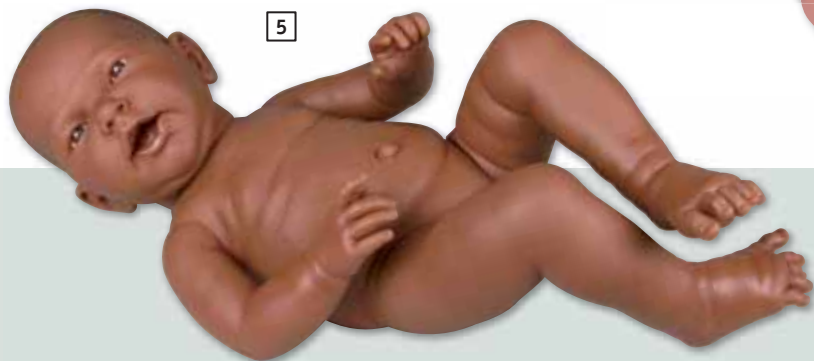
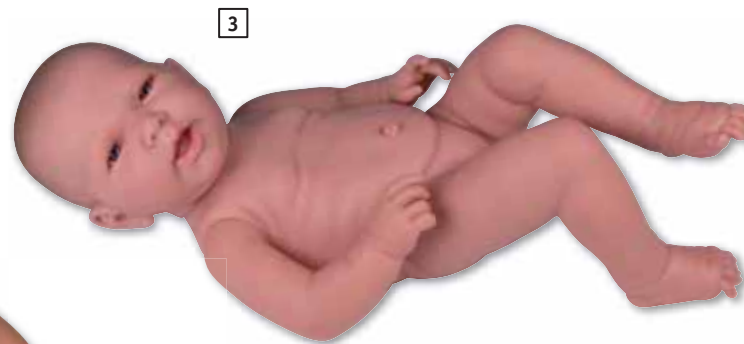
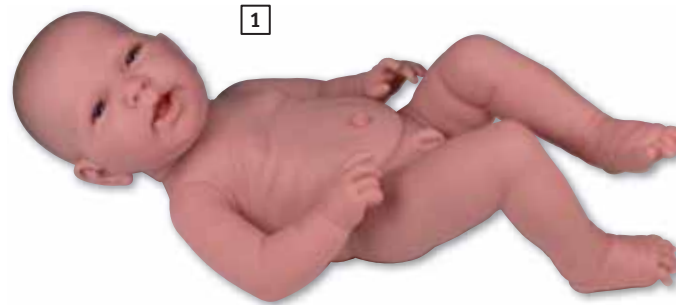
■ Ref.no. BA87-1 (not pictured)

7 Female version 1,2 kg

■ Ref.no. BA88 (not pictured)

8 Female version 2,4 kg

■ Ref.no. BA88-1 (not pictured)



9 Neonate doll for Physiotherapy

For the special needs of physiotherapists this doll is manufactured with a cloth body to allow all kind of movements. This model is perfect to instruct parents how to do Vojta or Bobath exercises. Color of clothes may vary.

Size: 48 cm, Weight: 0.7 kg

■ Ref.no. BA75



1 Nursing Newborn

Our newborn looks just like a 0-8 week old baby. The chubby face and body with beautifully detailed tiny, soft hands and feet make you want to hold and care for this addition to our family of pediatric and adult advanced patient care simulators.

It has the following features:

- Soft and flexible face skin
- Self-molded hair
- Realistic eyes
- NG exercises to demonstrate tube feeding and gastric suction
- Simulated ear canal
- Soft arms and legs rotate within the torso body for lifelike feel and position
- Soft hands, feet, fingers, and toes
- Heel stick and finger prick technique
- Soft upper body skin over torso for “babylike” feel
- Bathing and bandaging activity
- Intramuscular injection in upper thigh
- Interchangeable male organ
- Urethral passage and bladder
- Male and female catheterization
- Removable internal tanks
- Enema administration
- T-shirt and diapers
- Soft carrying bag
- Instruction manual
- **Ref.no. R17700**

Available options:

Intravenous Training arm

- **Ref.no. R17700-1**

Intraosseous leg

- **Ref.no. R17700-2**

Stoma sites with reservoirs

- **Ref.no. R17700-3**

Umbilical catheterisation

- **Ref.no. R17700-4**

Temporal venous access site

- **Ref.no. R17700-5**



2 Special needs Infant

Special needs infants require specific yet gentle care which includes the performance of vital medical procedures. This newborn-size infant allows health care facilities and medical staff to teach special procedures and develop a nursing care plan for special needs infants. The Special Needs Infant was developed for a wide range of educational training, including beginning nursing students. Medical devices that can be used include: tracheostomy tube and suction catheter, gastrostomy tube, nasogastric tube, and urethral catheter. Other general cares that may be practiced include: bathing, diapering, and various dressing changes. Carrying bag included. Tracheostomy and gastrostomy tubes not included.

Procedures that can be practiced include:

- Tracheostomy care (placement and suctioning) - size 3 mm
- Gastrostomy care (lavage and gavage) - size 14 FR
- Nasogastric care (placement, lavage, gavage, and suctioning) - size 8 FR or smaller
- Urethra catheterization (insertion, placement, and care) - size 8 FR
- Colostomy stoma (basic care purposes only)

Male version

- **Ref.no. BA85**

Female version

- **Ref.no. BA86**





1 Newborn baby, male

This baby is perfect for bathing exercise because of his seamless skin. It has palpable internal structures such as spine, sternum, clavicle and testicles. The head features palpable anterior and posterior fontanel as well as coronal suture and sagittal suture. The model may be used for suction training in mouth (depth 15 cm) and nose (depth 5 cm). Thermometer practice in the anal canal (depth 5 cm) is possible. The umbilical cord can be removed.

Size: 48 cm, Head circumference: 34 cm, Weight: 3 kg

■ Ref.no. LM82



2 Neonatal Wound Kit

These gross abnormalities fits many neonate manikins. Development of each wound coincides with the S.T.A.B.L.E. program, which consists of Sugar, Temperature, Airway, Blood pressure, Lab work, and Emotional support. Each wound's lifelike detail encourages the proper treatment and handling of the infant.

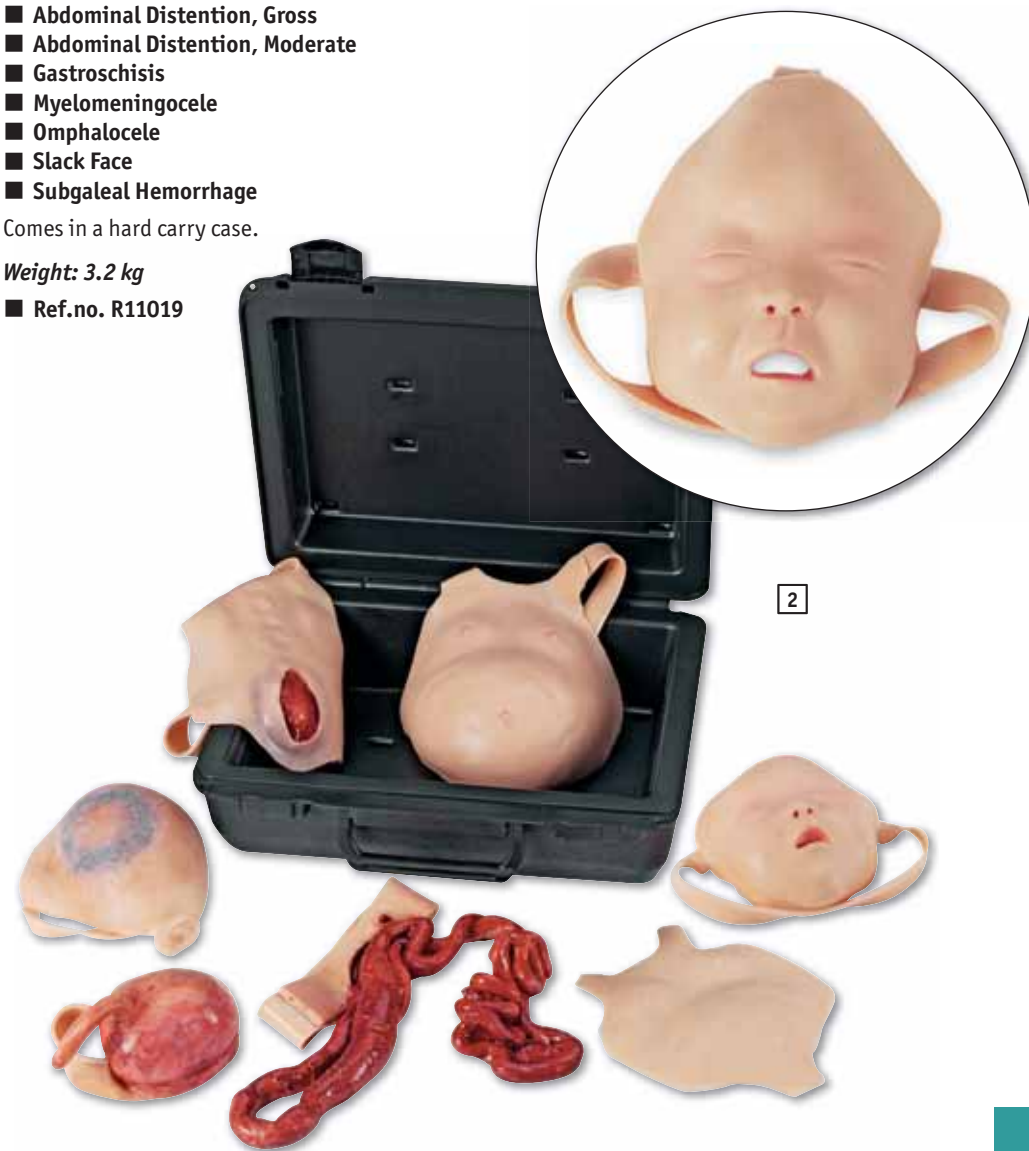
Included in the kit are the following abnormalities:

- Abdominal Distention, Gross
- Abdominal Distention, Moderate
- Gastroschisis
- Myelomeningocele
- Omphalocele
- Slack Face
- Subgaleal Hemorrhage

Comes in a hard carry case.

Weight: 3.2 kg

■ Ref.no. R11019





1 Bathing Babies, male and female

This set consists of one male and one female baby dolls. The dolls are made of soft, flexible plastic material and give a lifelike impression in touch and handling. Due to the seamless design of the dolls they are ideal for bathing practice. The soft material allows a natural range of motion, the head falls backwards if not supported. The fontanelles are palpable; a removable umbilical cord is present for umbilical cord care practice. Additional to bathing and clothing training these dolls are suitable for feeding, hygiene and temperature measurement practice. The dolls are life like in weight and size and represent a 0 to 4 weeks old newborn.

Size: 50 cm, Head circumference: 33 cm, Weight: 3 kg

Supplied as set: 1 male, 1 female

■ Ref.no. R16210

Also available separately:

Male model

■ Ref.no. R16210-1

Female model

■ Ref.no. R16210-2

2 Baby-care doll, male

A highly realistic replica of a neonate. The skin feels very natural via the use of a special synthetic material. Weighting corresponds to the normal conditions. The anterior and posterior fontanelles in addition to the acute and sagittal sutures are carefully reproduced and palpable. The head tips backwards when not held correctly. The vertebral column and the mobile testicles are palpable. The nasal cavity, oral cavity and stomach can be aspirated. Measurement of body temperature can be practised in the 5 cm deep anal canal. Owing to the completely stitch-free manufacture, the model is absolutely watertight and can be safely used for bathing practice. The residual umbilical cord allows demonstration and practice of umbilical care and can be simply removed. Use for demonstration of physiotherapeutic exercises (Vojta, Bobath) is very readily possible owing to the flexible arms and legs. General examinations, such as measurements for example, can of course be performed. Putting on nappies and dressing can also be practised. Supplied in a storage bag.

Size: 48 cm, head circumference: 33 cm, weight: 3 kg.

■ Ref.no. LM26M

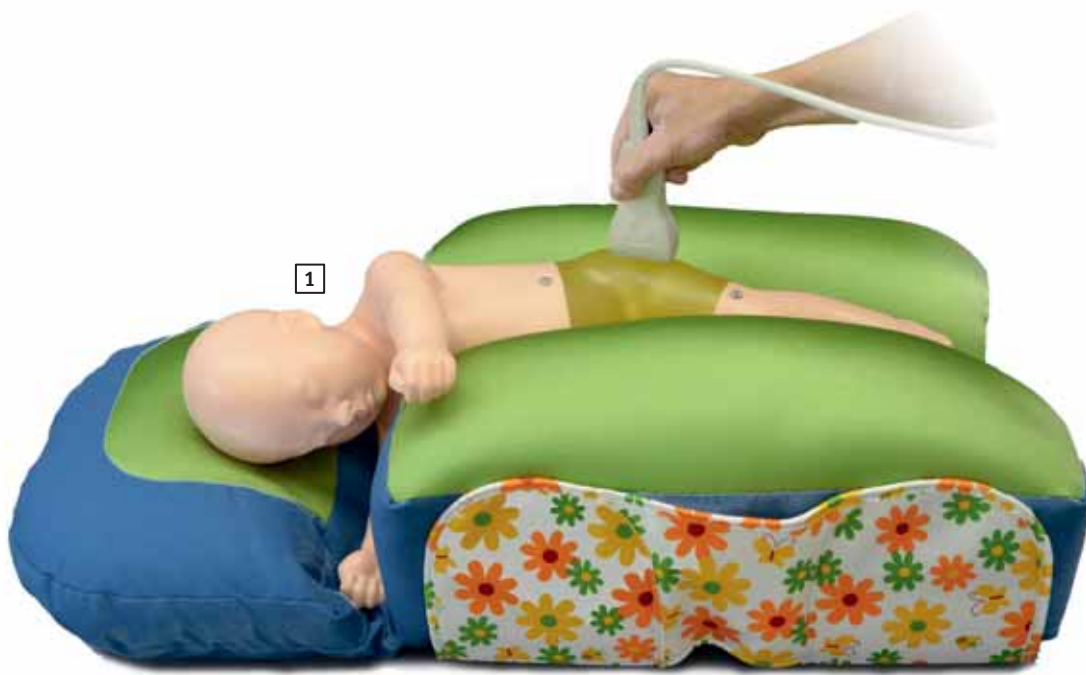
3 Baby-care doll, female

This doll offers the same characteristics as LM26M and is suitable additionally for practising breast-feeding and urine sampling. The mouth is open and the oral cavity and urethra are connected with one another. Supplied in a storage bag.

Size: 48 cm, Head circumference: 33 cm, Weight: 3 kg

■ Ref.no. LM26G





1 Infant Hip Sonography Training Phantom

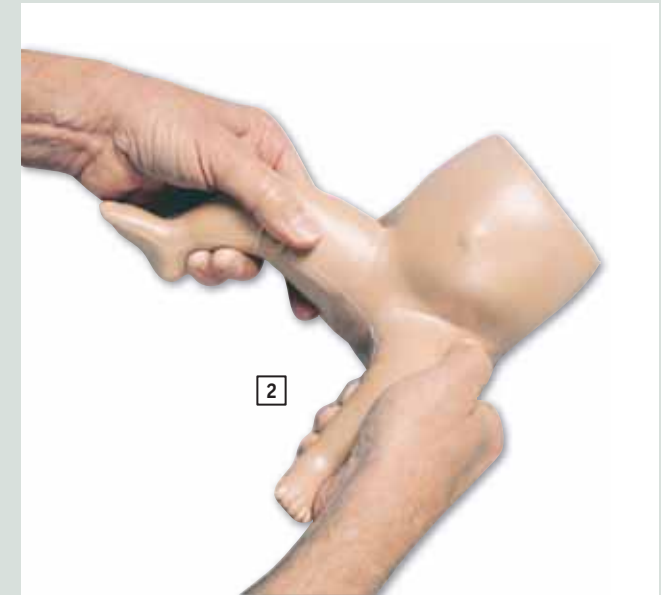
This is the world's first training phantom with ultrasound anatomy of a 6-week-old infant and it expands training opportunities for pediatricians, radiologists and orthopedists. Before working on real infants, trainees can repetitively practice on this phantom to become familiar with the examination procedures and key points. Using real ultrasound devices, trainees can learn key ultrasound landmarks to identify standard plane for Graf's classification. This is a foundation to acquire skills in handling and positioning of the baby as well as correct positioning of the transducer. The life-size full body manikin has movable arms that allows for realistic training in supporting and changing the position of the infant while interacting with his/her guardian.

Training Skills

- Setting and preparation for hip sonography
- Changing the position of the infant
- Communication and interaction with the infant's guardian
- Correct positioning and use of the transducer
- Recognition of ultrasonic landmarks for hip sonography
- Visualization of standard, anterior and posterior planes
- Interpretation and morphological classification of the sonogram

Features / Anatomies

- World exclusive training model for hip sonography on a full body manikin of 6-week-old infant
- Bilateral hips for examination Key landmarks that can be recognized under ultrasound include:
 - chondro-osseous junction (bony part of femoral neck), femoral head, synovial fold, joint capsule, labrum, hyaline cartilage preformed acetabular roof, bony part of acetabular roof, bony rim (check listI), lower limb of os ilium, correct plane, labrum (check listII).
- Facilitate anatomical understanding
- The full body manikin with movable arms allows training in supporting and changing the position of the infant.
- **Ref.no. R16609**



2 Baby Hippy

Reproduction of the lower torso and limbs of a female newborn designed to train professionals in diagnosing both congenital hip dislocation and hip dislocatability

- Dislocated left hip for practice of the Ortolani Jerk-Sign
- Lax right hip for performing the Barlow Maneuver
- **Ref.no. R10104**



Nursing Baby Nursing manikin

Nursing Baby is an infant manikin designed for scenario-based training of the care and management of a variety of infant in-hospital patients. Training includes sounds auscultation, IV and IO skills, fontanel assessment, urinary catheterization and general pediatric patient care. This infant is unrivaled for clinical training in core pediatric in-hospital clinical skills.

Product benefits:

- Educationally effective for training of in-hospital infant skills
- Effective education in the special care of infant patients
- Economical and educationally efficient skills and scenario based trainer for care and management of a variety of common and uncommon in-hospital infant patients in multiple clinical settings and hospital transport
- Durable, rugged and lifelike; made to withstand years of use

Product features:

- Normal, bulging and depressed fontanelles for assessment and diagnosis
- Head with anatomical landmarks, trachea and esophagus along with simulated lungs and stomach allow the practice of many procedures, including NG, OG, tracheal care and suctioning
- Bilateral deltoid and bilateral thigh intramuscular injections are possible
- Articulating IV arm and IV leg allows for practice of IV cannulation, medication administration, site care and maintenance
- Medication and fluid administration through intraosseous infusion allowed via tibia access with landmarks at the tibial tuberosity and medial malleolus
- Gastrostomy tube opening for care and feeding
- Interchangeable genitalia allows for urinary catheterization with fluid return, rectal temperature simulation, and administration of suppositories

SimPad™ Controller:

- Pre-programmed scenarios provide standardized training while customizable scenarios and real time instructor control allows adaptation to meet individual students needs
- Presents normal and abnormal heart, breath, and bowel sounds for auscultation

1 Nursing Baby, SimPad capable

- Ref.no. P130

2 Technical setup on site for Nursing Baby (mandatory at purchase of Nursing Baby)

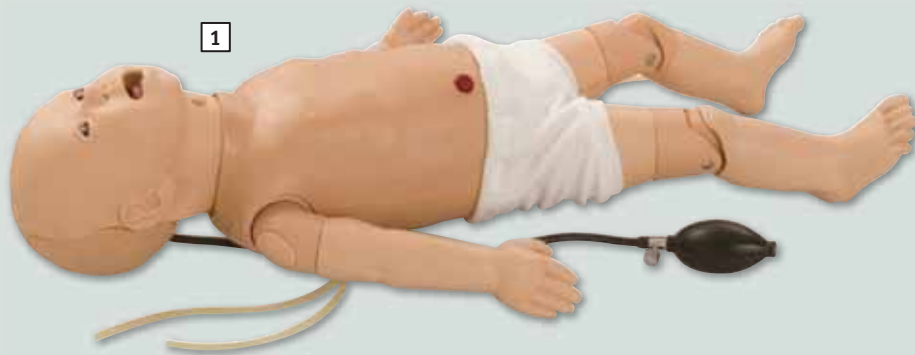
- Ref.no. P131

3 SimPad-Plus System without Software Licence

- Ref.no. P210

4 LLEAP Software Licence for SimPad Plus

- Ref.no. P211



3

SimPad™



Important: If a SimPad product is purchased for the first time, product training by the manufacturer is mandatory. This has to be ordered with **Ref.no. P300**. Purchase without product training is not possible.

1 One Year Pediatric Care Simulator ▶

This nursing manikin has the following features:

- Soft, childlike face skin, self-molded hair
- Eyes open and close in realistic eye sockets for ophthalmic procedures
- Fully articulating head and jaw with teeth and tongue
- NG and otic exercises
- Bends at waist as in human, jointed elbows and knees
- Realistic hands, feet, fingers, and toes
- Soft upper body skin over hard upper body for realistic feel
- Detachable at waist for easy storage
- Bathing and bandaging activity
- Intramuscular injection sites in left and right upper thighs
- Interchangeable male organ
- Tracheotomy opening
- Male and female catheterization
- Removable internal tanks, Enema administration
- Neck brace, T-shirt and shorts, soft carrying bag, Instruction manual

■ Ref.no. R17710

Available options:

Injection training arm

■ Ref.no. R17710-1

Site specific heart and lung sounds

■ Ref.no. R17710-2

Intraosseous infusion system

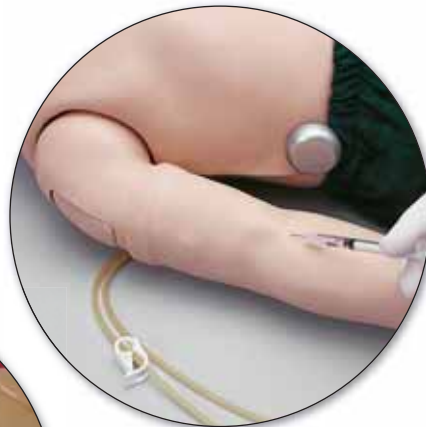
■ Ref.no. R17710-3

External stoma sites

■ Ref.no. R17710-4



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2

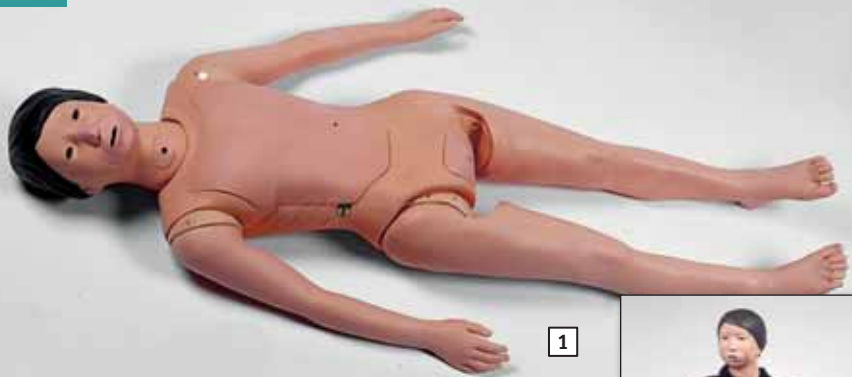
2 Infant-nursing doll

Female infant (6–8 months) for care assistant training. This model is manufactured from a special synthetic material, allowing an extraordinary practice experience. The flexible, soft skin is seamlessly sealed and no liquid can therefore penetrate. The model offers the following practice opportunities: correct holding and carrying, physiotherapeutic exercises, feeding, breast-feeding, bathing, hair washing, measuring, weighing, preventative examinations, temperature measurement, blood pressure measurement, insertion of a gastric tube, aspiration of the oral and nasal cavities, attachment for blood sampling or spinal anesthesia.

Size: 70 cm, Weight: 8 kg

■ Ref.no. LM52





1



1 Pediatric Patient care doll

This model of a 6 year old child is perfect for nurse education or home care practice.

It features:

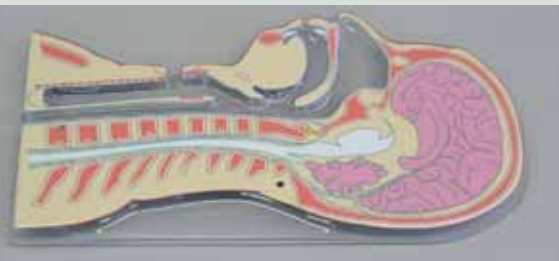
- Positioning and patient handling
- Airway suction orally, nasal or through tracheostomy opening
- Percutaneous Endoscopic Gastroscopy PEG care
- Feeding tube management
- Male and female catheterisation
- Injection intramuscular and intravenous

The model is movable and able to sit without support.

A section model for airway explanation is included.

Size: 125 cm

■ Ref.no. R16601



Section model for airway explanation

2 Five Year Pediatric Care Simulator

The five year old is a sophisticated pediatric simulator for training in standard and advanced clinical procedures. This simulator is now available with optional site specific heart and lung sounds

Product features:

- Soft, lifelike faceskin, self-molded hair
- Eyes open and close in realistic eyesockets for ophthalmic procedures
- Fully articulating head and jaw with teeth and tongue
- NG and otic exercises
- Bends at waist as in human, jointed elbows, wrists, knees and ankles
- Realistic hands, feet, fingers and toes
- Soft upper body skin over hard upper body for realistic feel
- Detachable at waist for easy storage, bathing and bandaging activity
- Intramuscular injection sites in deltoid and upper thigh
- Interchangeable male organ, male and female catheterization
- Tracheotomy opening
- Removable internal tanks, enema administration
- T-shirt and shorts, neck brace, soft carrying bag, instruction manual
- Ref.no. R17720

Available options:

Training arm and hand for intravenous, intramuscular, and subcutaneous access

■ Ref.no. R17720-1

Site Specific Heart and Lung Sounds kit with Stethoscope

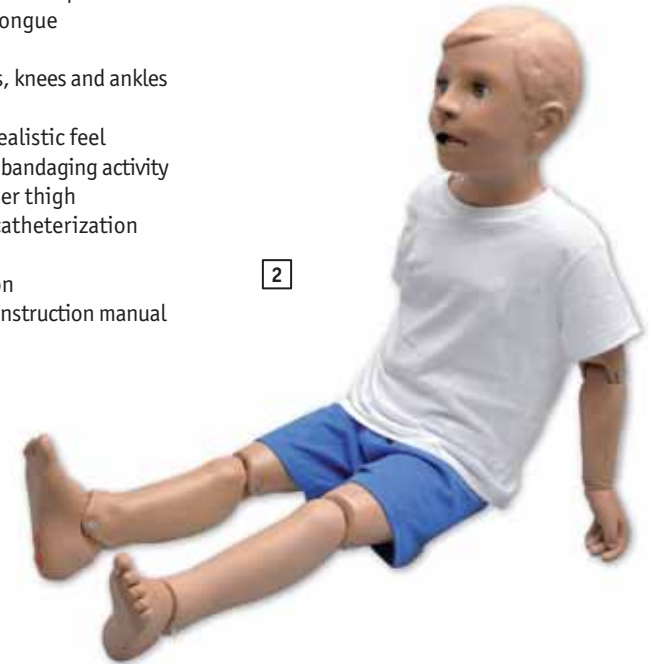
■ Ref.no. R17720-2

Intraosseous infusion system

■ Ref.no. R17720-3

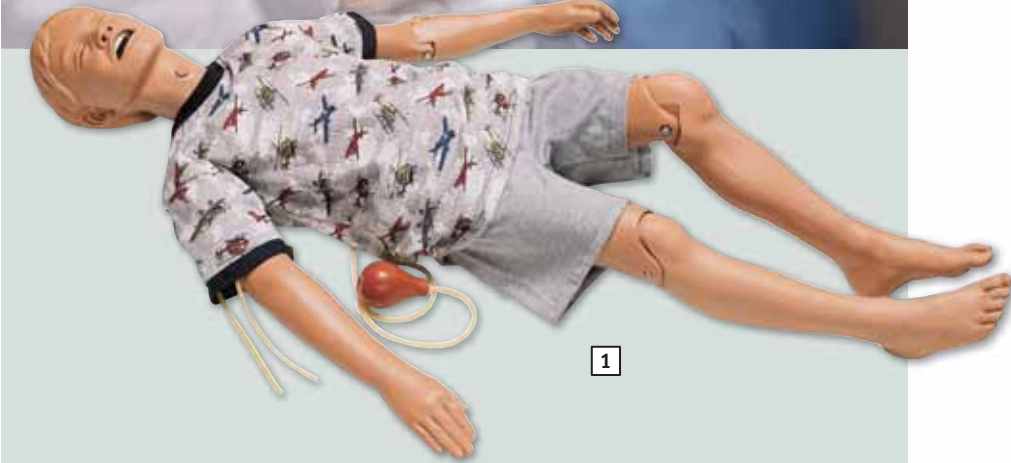
External stoma sites with internal tanks

■ Ref.no. R17720-4



2





3
SimPad™



1 Nursing Kid training manikin

Nursing Kid is a training manikin realistically representing a six-year old child. He is designed for skill and scenario based training of the care and management of a variety of pediatric in-hospital patients. Training includes sound auscultation (optional), IV cannulation, urinary catheterization, and general pediatric patient care. This child is ideal for clinical training in core pediatric in-hospital clinical skills.

Product benefits:

- Delivers education efficiently, targeting key skills specific to pediatric care providers
- Durable, rugged and lifelike; made to withstand years of use
- Highly mobile for use in multiple clinical settings and hospital transport
- Efficient training care and management of a variety of both common and uncommon in-hospital pediatric patients including wound assessment and care, first aid, and child abuse training

Product features:

- Head with anatomical landmarks, trachea, and esophagus along with simulated lungs and stomach allow the practice of many procedures, including NG, OG, tracheal care and suctioning, and insertion, securing and care of endotracheal tubes
- Bilateral deltoid, bilateral thigh, gluteal intramuscular injections possible
- Articulating IV arm allows for practice of IV cannulation, medication administration and site care and maintenance
- Exchangeable male and female organs for Catheterization training
- Enema administration

Shipment:

Nursing Kid is shipped with manikin, airway lubricant, simulated blood, hospital gown, carry case, and directions for use.

SimPad™ Controller:

- Pre-programmed scenarios provide standardized training while customizable scenarios and real time instructor control allows adaptation to meet individual students needs
- Presents normal and abnormal heart, breath, and bowel sounds for auscultation

1 Nursing Kid, SimPad capable

- Ref.no. P125

2 Technical setup on site for Nursing Kid (mandatory at purchase of Nursing Kid)

- Ref.no. P136

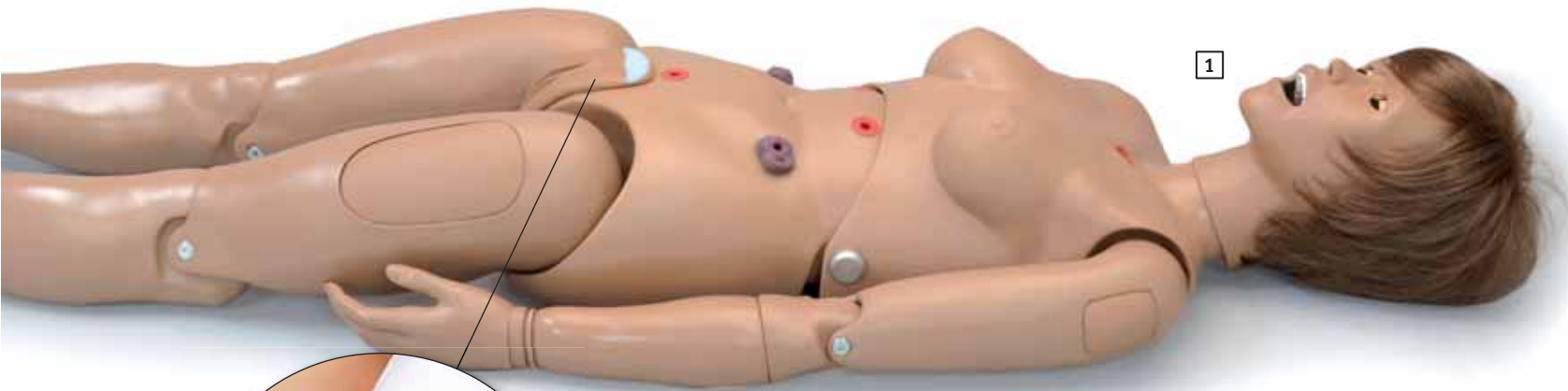
3 SimPad-Plus System without Software Licence

- Ref.no. P210

4 LLEAP Software Licence for SimPad Plus

- Ref.no. P211

Important: If a SimPad product is purchased for the first time, product training by the manufacturer is mandatory. This has to be ordered with **Ref.no. P300**. Shipment without product training is not possible.



1 Nursing Doll, Standard Version

This doll offers training in a variety of clinical procedures to nurses and other health care professionals. The external appearance of the model is female. Attachment of the male genitals, however, converts the manikin into a male model. It can simulate a number of exercises from transverse colostomy management to tracheotomy, from intramuscular injection to ophthalmological treatment.

It offers the following features:

- Douching and pap smear exercises
- Enema administration
- Head supplied with wig for combing, shampooing, and head draping exercises
- Injection site on buttock for intramuscular injection
- Injection sites on left and right arm for intramuscular and subcutaneous injections
- Instruction in complete intestinal lavage with stomas connected to internal reservoir system
- Instruction in gastrostomy, ileostomy, and transverse colostomy management
- Interchangeable male and female organs
- Male and female urinary catheterization
- Otic, nasal, tracheotomy, and gastrostomy openings and connections for ear syringing, gastric suction, and tracheotomy exercises
- Removable dentures
- Separated fingers and toes for bandaging exercises
- Separately inserted eyes for administration of orbital medications, removal of foreign bodies, and eye irrigation
- Suprapubic stoma management and drainage

The joints are strong and movements lifelike, even to the extent of permitting pronation and supination of the forearm. Made from the highest quality vinyl plastic with a high degree of resistance to wear and tear. The surface is smooth, impervious to water, oils, and liniments.

Weight: 16 kg

■ Ref.no. R17600



2 Nursing doll, Basic Version

This version comes without internal tanks and without male genital. Made for training of basic nursing like positioning, washing exercises and dressing.

Weight: 16 kg

■ Ref.no. R17610



Additional Options:

3 Advanced IV training arm with subtle venous network
 ■ Ref.no. R17600B

4 Amputation stump for bandaging
 ■ Ref.no. R17600D

More options available on request!

1 Clinical Chloe Patient Care Simulator

Sophisticated simulators for training in clinical nursing procedures. A variety of exercises may be performed, from simple bandaging and general patient care to breast palpation, catheterization, ostomy management, injection training, and cervical examination.

Features include:

- Articulating head, jaw, elbows, wrists, ankles, and knees
- Bathing and bandaging activity
- Bends and detaches at waist for easy storage
- Breast palpation capability with one abnormal breast
- Detachable and removable internal tanks
- Enema administration capability
- Full body
- Instruction manual
- Interchangeable male and female breast inserts
- Interchangeable male and female organs
- Intramuscular injection sites in arm, thighs, and buttock
- Latch provides secure seal between ostomies and internal tanks
- Nasal and oral tube placement
- Neck brace
- NG and OG tube feeding and gastric suction
- Opening for gastrostomy
- Realistic eyes for ophthalmic exercises
- Realistic urethral passage and bladder for catheterization exercises
- Simulated ear canal for otic drops and irrigation
- Soft, realistic face skin, hands, feet, fingers, and toes
- Stylish wig for hair care exercises and surgical draping
- Tracheotomy placement
- Transverse colostomy, ileostomy, and suprapubic stomas, to practice irrigation
- Upper and lower dentures for oral hygiene
- Vaginal douching and pap smear exercises with realistic vagina and cervix

Weight: 21 kg

■ **Ref.no. R17625**



2 Attachable Advanced IV Training Arm

Features subcutaneous injection area on flexor and lateral sides of forearm, intramuscular injection capability in the deltoid area, and dorsum of the hand with two veins for additional intravenous line setups. Use for infusion and blood collection procedures. Also allows administration of medication by intravenous bolus. Comes with set-up kit consisting of blood powder concentrate, pressure bulb, blood dispensing bag, and spare arm skin. May be attached directly to the Patient Care Simulator.

Weight: 3.2 kg

■ **Ref.no. R17600B**



1 Clinical Chloe Advanced Patient Care Simulator ▶

Take nursing training to a whole new level! Simulator allows you to monitor and log compressions and ventilations with Omni Code Blue pack that can be connected to any computer for CPR logging and feedback (monitor and computer not included).

General Patient Care

- Bathing and bandaging activity
- Full body
- Interchangeable male and female organs (Both Included)
- Eyes open and close
- One pupil is dilated
- Realistic eyes for ophthalmic exercises
- Realistic urethral passage and bladder for catheterization exercises
- Upper and lower dentures for oral hygiene
- Soft, realistic faceskin, hands, feet, fingers, and toes
- Simulated ear canal for otic drops and irrigation
- Transverse colostomy, ileostomy, and suprapubic stomas, to practice irrigation
- Opening for gastronomy
- Enema administration capability
- Stylish wig for haircare exercises and surgical draping
- Set of two decubitus ulcers
- Ulcerated foot
- Manual palpable pulses

Breast Palpation

- Interchangeable male and female breast inserts
- Breast palpation capability with one abnormal breast

CPR

- Practice CPR
- Practice BVM with realistic chest rise
- Realistic heart, lungs, ribs, stomach and liver for unparalleled CPR performance
- Omni Code Blue Pack included to monitor compressions and airway ventilations

1



Airway

- Anatomically accurate airway
- Tracheotomy placement
- Tracheotomy intubation with replaceable trachea
- Trachea, bronchi, and lungs enable assessment of airway management skills
- Tongue, epiglottis, vocal chords and esophagus look and feel real
- Nasal and oral tube placement
- NG and OG tube feeding and gastric suction

Articulating

- Head
- Jaw
- Elbows
- Wrists
- Knees
- Ankles

Injection Training

- Intramuscular injection sites in arm, thighs, and buttock
- Advanced training arm and hand for IV, IM, and sub-Q techniques

GYN Training

- Vaginal douching and pap smear exercises with realistic vagina and cervix

Other

- Detachable and removable internal tanks
- Bends and detaches at waist for easy storage
- Latch provides secure seal between ostomies and internal tanks
- Carrying bag
- Instruction manual
- Neck brace

Weight: 36.3 kg

■ **Ref.no. R17650**

1 Nursing Doll „Keiko“

This nursing doll offers all training opportunities for basic patient care and has soft limbs with invisible joints at knee, ankle, elbow and wrist.

The complete training opportunities include:

- General patient positioning, re-positioning, assistance for getting up and for wheelchair access.
- Passive physiotherapy
- Body hygiene, washing, nappy change, skin care
- Decubitus care (heel, great trochanter, sacrum and shoulder)
- Dressing and undressing
- Hair care (wig)
- Oral and dental hygiene
- Gastric probe insertion, PEG
- Nasotracheal intubation (Tube insertion)
- Airway suctioning
- Tracheostomy care / tube change
- Attachment of stoma bag
- CVC care / explanation
- Catheterization male / female (without liquid)
- Enema insertion (without liquid)
- Oxygen inhalation
- Suppository insertion
- Postmortem care

The model has a high quality finish and is sturdy. It is perfect for daily use in schools.

Size: 149 cm, Weight: 15 kg

■ Ref.no. R16500





1 Patient Care Simulator „Yaye“

With its various patient settings and range of training features, „Yaye“ brings uninterrupted training flow in community care and in-hospital procedures. Featuring more than 40 training skills, „Yaye“ serves an array of trainees from students to experienced nurses.

Features:

- Tube Feeding (oral/nasal)
- Enema
- Urinary catheterization female
- Stoma care
- Bowel irrigation
- Bedpan practice
- TPN care
- Body Positioning
- Passive exercise
- Wheelchair transfer
- Oral care
- Bed bathing
- Partial bathing
- Change of clothes
- Intimate hygiene
- Hair care (shampooing, brushing, blow-drying)
- Oxygen inhalation
- Airway suction
- Postural drainage
- Tracheotomy care
- Pressure sore care (decubitus ulcer stage 4 on back, unstageable on heel)
- Bandaging
- Suppository administration
- Subcutaneous injection
- Intramuscular injection
- Intravenous injection and infusion (left median vein, left hand dorsal vein)
- Intubation assistance
- Chest compression
- Airway management
- Assessment of chest and abdomen (Observation, palpation, percussion)
- Stomach pumping
- Vaginal douche
- Postmortem care





Using the optional face mask and wig, the manikin can be converted into an older person. A male genital for bladder catheterization is available as optional part too.

Size: 152 cm, Weight: 17 kg

■ Ref. no. R16228

2 Face mask elderly

■ Ref.no. R16228-1

3 Grey Wig

■ Ref.no. R16228-2

4 Male genital

■ Ref.no. R16228-3

Assessment of chest and abdomen

- Soft and elastic abdomen allows deep palpation
- Thoracoabdominal inspection, palpation and percussion
- Anatomical landmarks and soft tissue offer realistic training

Infusion care and management

- IV route training
- Left median vein
- Left hand dorsal vein

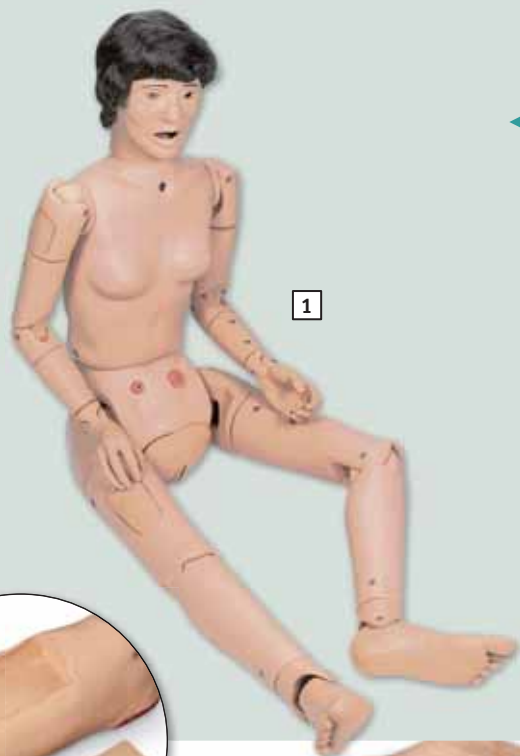


Appearance variety

- Patient variations with different age, sex and personality
- Variations in face masks, wigs and external genitals offers wide possibilities of simulation settings and realistic training
- Easy transformation

Intubation assistance

- Airway management and CPR
- Oral intubation (Laryngoscope and video laryngoscope)
- Confirmation of correct intubation by chest rise
- Chest compression



1

1 KERi nursing care doll

This highly realistic care doll finds its uses specifically in nursing care. This doll is characterised particularly by the very high mobility and the extremely true to life imitation of the face, hands and feet.

This model offers the following equipment and practising possibilities:

- Male and female bladder catheterisation
 - Prostatic examination (stage B)
 - Stoma care (ileostomy and colostomy)
 - Tracheostomy care (rinsing and aspiration)
 - Percutaneous Endoscopic Gastroscopy PEG care
 - Changing dentures (upper and lower mandible)
 - Administration of drugs to the eye
 - Body care, hair care, positioning methods
 - Enema care (female), oral and nasal douches
 - I.m injection (4 injection sites), oral hygiene
 - Syringing of the ears, insertion of hearing aids
 - Bandages on fingers and toes (mobile and individually shaped)
 - Care of lesions, bandaging practice, pressure sore care
- Ref.no. LF4020

2 KERi nursing care doll, basic

Same as LF4020, but without inner liquid reservoir and orifices. Catheterisation and PEG care is therefore not possible.

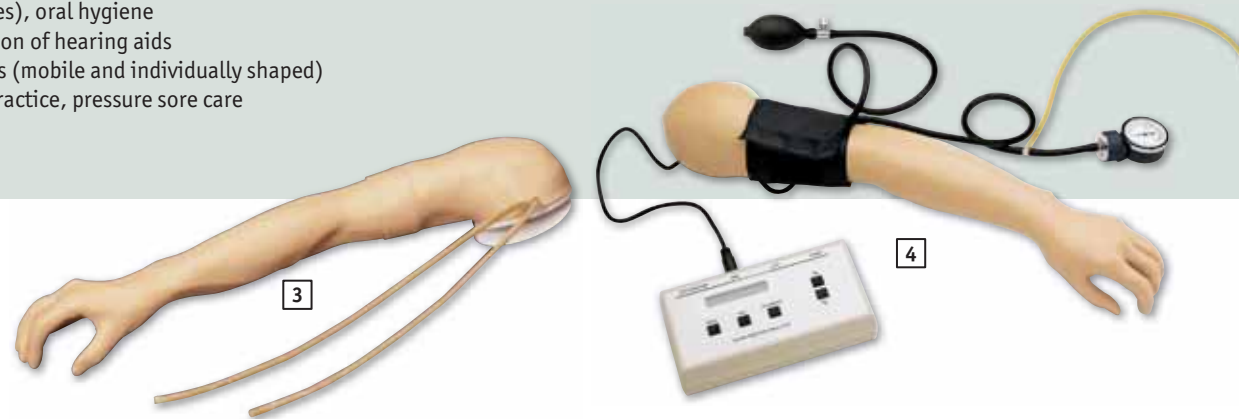
- Ref.no. LF4021 (not pictured)

▼ AVAILABLE ACCESSORIES:

3 Arm for intravenous injection
■ Ref.no. LF4001-1

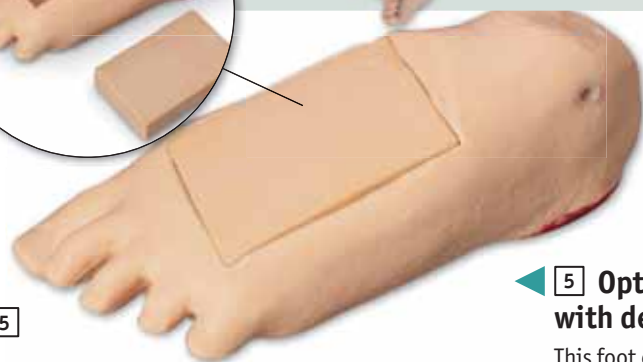
4 Blood pressure measurement arm
■ Ref.no. LF4001-2

Auscultation Upgrade Kit (see page 216)



3

4



5

5 Optional GERi and KERi Edema foot with deep tissue injury

This foot comes with five edema inserts which react to pressure in a different way, depending on the stage of edema. Additionally the foot shows a deep tissue injury on the heel. It can be easily attached to the leg of your KERi/GERi manikin.

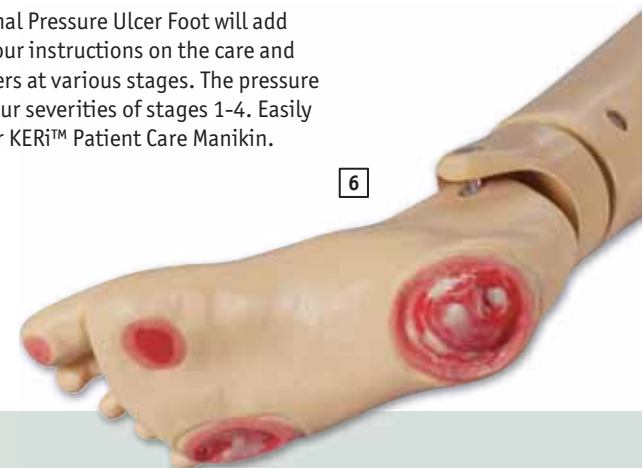
- Ref.no. LF4084



6 Optional GERi and KERi Pressure Ulcer Foot

The GERi™/KERi™ Optional Pressure Ulcer Foot will add wound care realism to your instructions on the care and cleaning of pressure ulcers at various stages. The pressure ulcer foot contains all four severities of stages 1-4. Easily attaches to any GERi™ or KERi™ Patient Care Manikin.

- Ref.no. LF4041



6

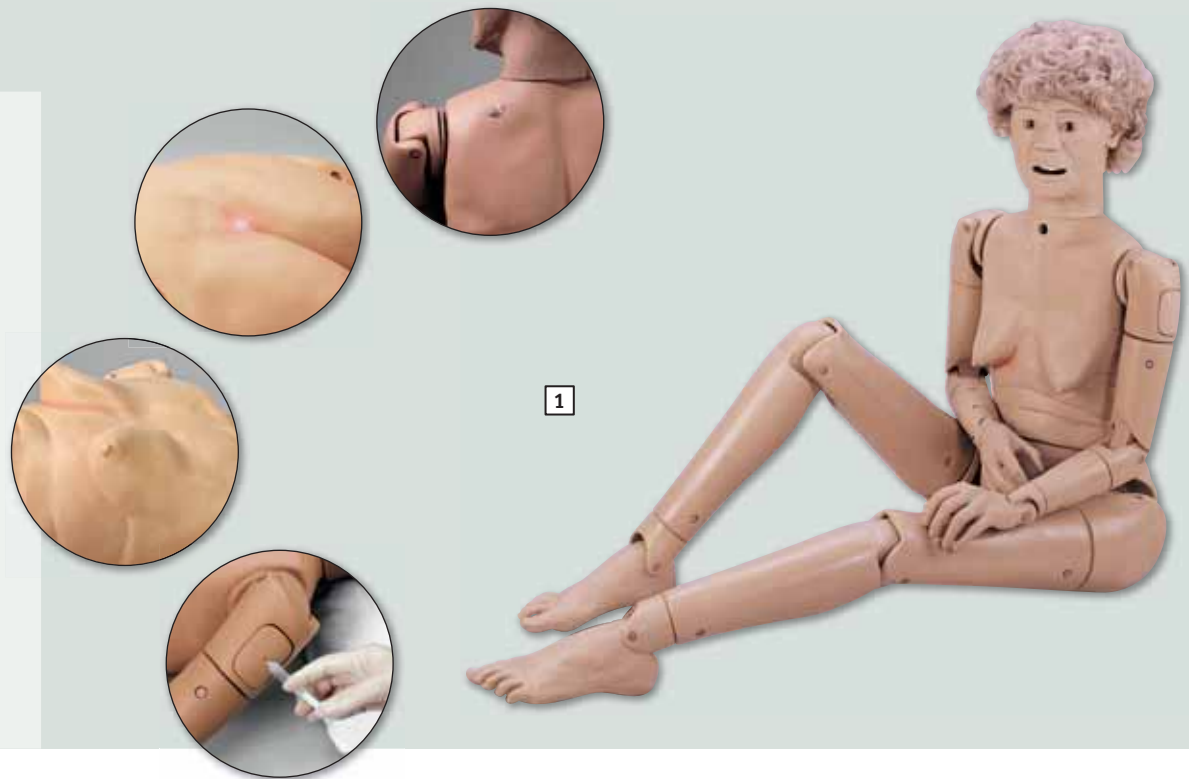
1 GERi geriatric care doll

With this special model, geriatric training acquires particularly high esteem. It presents itself as the ideal aid to teachers of geriatric care, who can practise all the relevant measures realistically using this model. The outer aspect of this special care doll is an impressive imitation of the appearance of an elderly person. Lesions specifically reproduced on the body, such as, for example, liver spots (normal and pathological), skin inflammation under the female breast and a pressure sore complete the appearance and further increase the didactic value of the model.

The following care measures can be practised:

- Male and female bladder catheterisation
- Prostatic examination (stage B)
- Stoma care (ileostomy and colostomy)
- Tracheostomy care (rinsing and aspiration)
- Percutaneous Endoscopic Gastroscopy PEG care
- Changing dentures (upper and lower mandible)
- Administration of drugs to the eye
- Body care, hair care, positioning methods
- Enema care (female), oral and nasal douches
- I.m injection (4 injection sites), oral hygiene
- Syringing of the ears, insertion of hearing aids
- Bandages on fingers and toes (mobile and individually shaped)
- Care of lesions, bandaging practice, pressure sore care

■ Ref.no. LF4001



2 GERi geriatric care doll, basic

Same as LF4001, but without inner liquid reservoir and orifices. Catheterisation and PEG care is therefore not possible.

■ Ref.no. LF4040 (not pictured)

AVAILABLE ACCESSORIES:

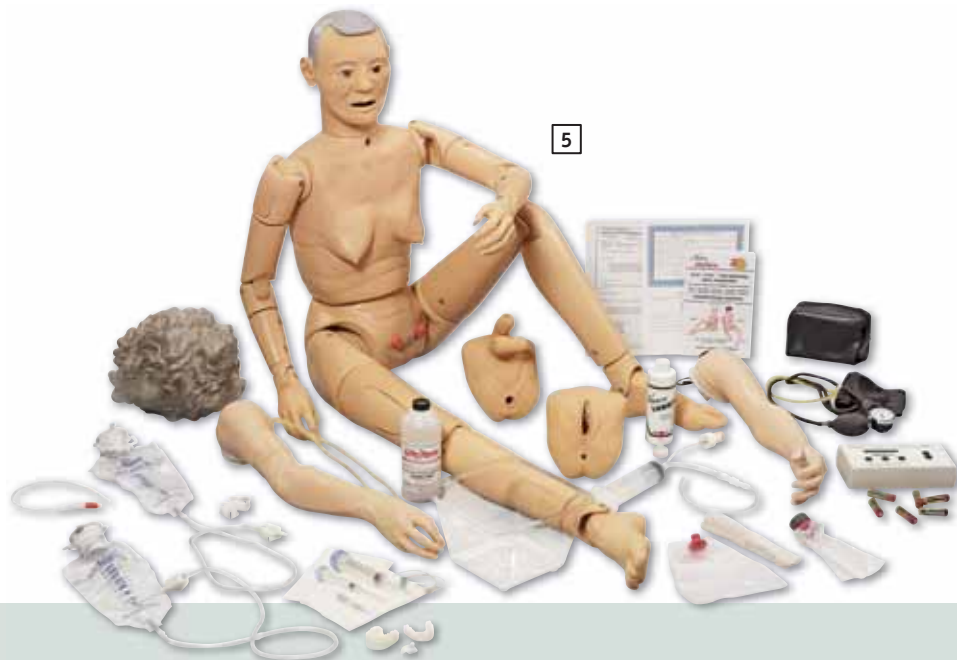
3 Arm for intravenous injection

■ Ref.no. LF4001-1 (see picture on page 174)

4 Blood pressure measurement arm

■ Ref.no. LF4001-2 (see picture on page 174)

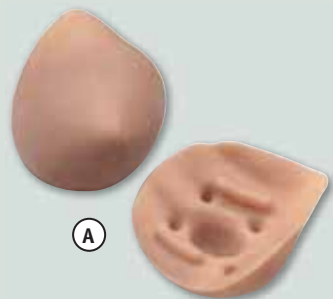
Auscultation Upgrade Kit (see page 216)



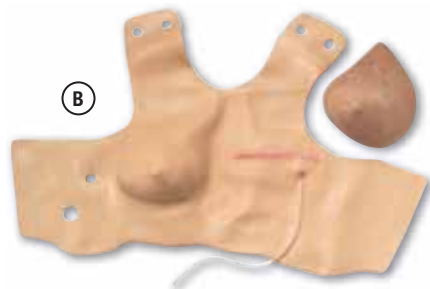
5 Advanced GERI geriatric care doll

This nursing doll has the same features as the GERI manikin (LF4001), but comes complete with the additional IV injection arm as well as the additional blood pressure arm. An economic alternative if you need both of the two arms anyway.

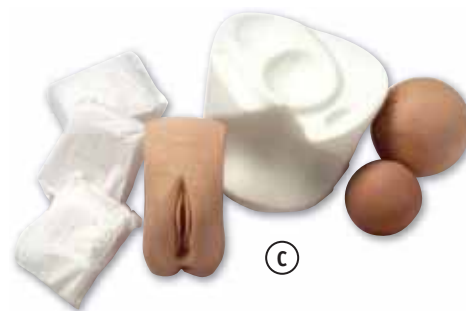
■ Ref.no. LF4030



(A)



(B)



(C)



(D)



Available options:

- (A) Breast examination module Ref.no. P150-1
- (B) Mastectomy module Ref.no. P150-2
- (C) Fundus module Ref.no. P150-3
- (D) Wound assessment and care module Ref.no. P150-4



1



1 Nursing Anne Manikin

Nursing Anne is a manikin designed for scenario-based training for the care and management of a wide variety of in-hospital patients. Nursing Anne is an efficient, effective, flexible manikin for clinical training in women's health, obstetrics, post-partum, wound assessment and care, and general patient assessment and care.

Product Benefits:

- Educationally effective for in-hospital training targeting key skills for in-hospital care including women's health, obstetrics, post-partum care, wound assessment and care, and general patient care
- Economical and educationally efficient skills and scenario based trainer
- Durable, rugged and lifelike; made to withstand years of use
- Flexible manikin platform allows multiple accessory modules to be added for use in multiple clinical settings

Product Features:

- Head with anatomical landmarks, can be used for ear or eye irrigation, application of medication in eye, ear, nose, as well as mouth and tooth care.
- Manually operated carotid pulse
- Trachea and esophagus with simulated lungs and stomach allow the practice of many procedures, including NG, OG, tracheal care and suctioning
- Different procedures for oxygen administration
- Stomach lavage
- Articulating IV arm allows for practice of IV cannulation, medication administration, and site care and maintenance
- Practice medication dose calculations and administration through intramuscular injections at the deltoid, gluteal, ventrogluteal, and thigh sites
- Exchangeable belly covers with colostomy and ileostomy, access for suprapubic catheters
- Exchangeable male and female genitals for catheterization
- Enema practice

Optional modules can be added for breast examination, post-surgical mastectomy care, fundus massage skills, and assessment and care of wounds and surgical incisions.

Available with optional SimPad Controller:

- Pre-programmed scenarios provide standardized training while customizable scenarios and real time instructor control allows adaptation to meet individual students needs
- Normal and abnormal heart, breath, and bowel sounds and fetal heart tones for auscultation
- 1400+ rhythm variants for ECG interpretation using standard clinical monitors
- Instructor-controlled blood pressure arm allows for realistic palpation and auscultation. Systolic and diastolic pressures, auscultatory gap, and volume are variable

Nursing Anne, SimPad capable

- Ref.no. P152

Technical setup on site for Nursing Anne#

(mandatory at purchase of Nursing Anne)

- Ref.no. P153

SimPad-Plus System without Software Licence

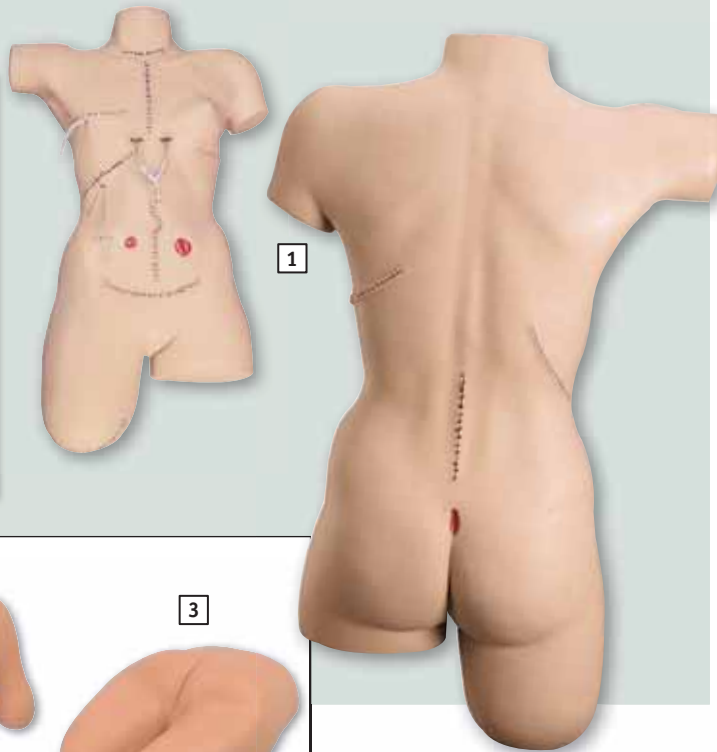
- Ref.no. P210

LLEAP Software Licence for SimPad Plus

- Ref.no. P211



Important: If a SimPad product is purchased for the first time, product training by the manufacturer is mandatory. This has to be ordered with **Ref.no. P300**. Ordering this product without product training is not possible



1 Bandaging Simulator

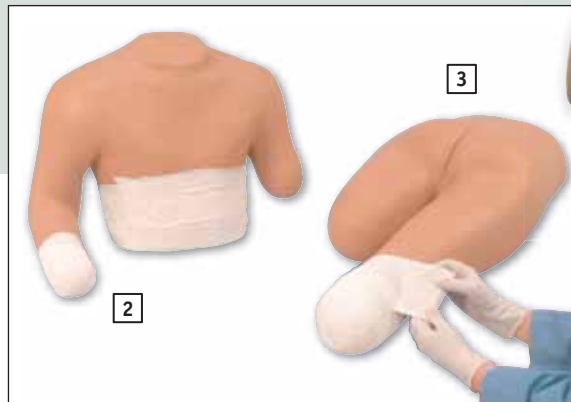
This simulator consists of a female torso with flexible, lifelike skin which realistically responds to adhesives and all types of bandaging procedures. 14 different wounds allow one to practice wound management techniques, cleaning and bandaging techniques just like on a real patient. Wound closures feature surgical staples and sutures which cannot be removed.

The simulator is supplied in a carrying case and features the following wounds:

- Thyroidectomy
- Mid-sternal split with chest tube drains (surgical staples)
- Mastectomy with simulated drain
- Cholecystectomy with simulated T-tube
- Laparotomy (surgical staples)
- Appendectomy
- Colostomy
- Ileostomy
- Abdominal hysterectomy (surgical staples)
- Thoractomy (surgical staples)
- Nephrectomy (surgical staples)
- Laminectomy
- Sacral decubitus ulcer (stage II)
- Leg amputation stump (surgical staples)

Size: 84 x 30.5 x 63.5 cm, Weight: 12 kg

■ Ref.no. R10021



2 Stump Bandaging Upper Torso

Upper torso with amputation stumps for bandaging training.

Life size.

■ Ref.no. R10022

3 Stump Bandaging Lower Torso

Lower torso with amputation stumps for bandaging training.

Life size.

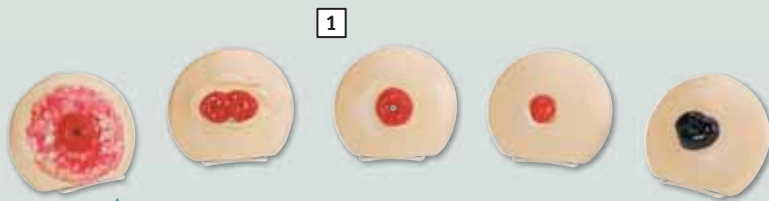
■ Ref.no. R10023



4 Enema training model

This model simulates a bedridden or geriatric patient having difficulty of evacuation by himself. The model can be used for practice of digital insertion and fluid injection. An opening in the front of the model permits to see the transparent bowel and to allow the teacher to control the training visually. Comes with artificial stool.

■ Ref.no. LM68



1

1 Ostomy Care Training Models Set

Includes 5 independent Ostomy Care Training Models: Nonfunctioning Double Barrel Ostomy Care Training Model, Nonfunctioning Prolapsed Ostomy Care Training Model, Functioning Healthy Ostomy Care Training Model, Functioning Infected Ostomy Care Training Model, and Functioning Necrotic Ostomy Care Training Model. Designed to help introduce the essentials of ostomy care to patients and students, these units are ideal for demonstration and practice of ostomy care procedures. The anatomy of the ostomies is carefully reproduced to provide lifelike functions and appearance. A soft, pliable material is used for the stomas in order to achieve the most realistic tactile sensation. Dilation of the stomas can be demonstrated and practiced, along with application of postoperative and permanent ostomy bags. Both functioning and nonfunctioning models are included.

■ Ref.no. R11010

3



3 Ostomy Care Model

This model contains four stomas that can be lubricated and dilated with an inserted finger. Model may be washed, taped, banded or fitted with ostomy bags. Supplied with lubricant.

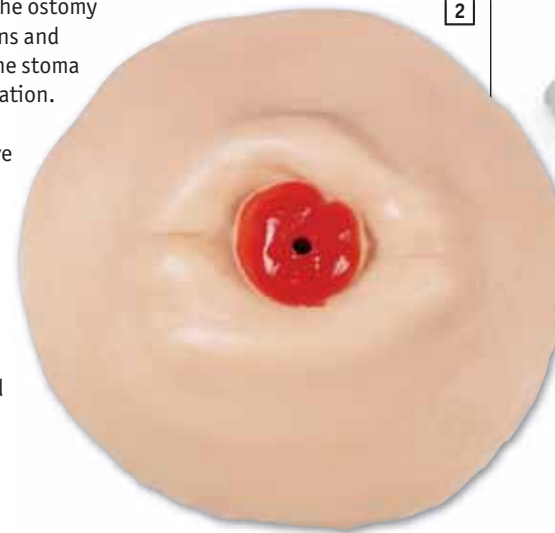
■ Ref.no. R10132

2 Retracted Ostomy Care Training Model

Designed to help introduce the essentials of ostomy care to patients and students, this model is ideal for demonstration and practice of ostomy care procedures on a stoma that has sunk below skin level, including cleaning and changing the pouching system. The anatomy of the ostomy is carefully reproduced to provide lifelike functions and appearance. A soft, pliable material is used for the stoma in order to achieve the most realistic tactile sensation. Dilation of the stomas can be demonstrated and practiced, along with application of postoperative and permanent ostomy bags on stomas that can often be difficult to obtain a good seal around. The ostomy can actually be irrigated. Syringe is included to pump simulated stool through the unit to provide drainage and excretion at the ostomy. The consistency of the stool can be varied by using water to thin the material. Includes model, display easel, syringe, simulated stool, lubricant, and instruction manual.

Size: 18 x 8 cm, Weight 1.6 kg

■ Ref.no. R11040



2

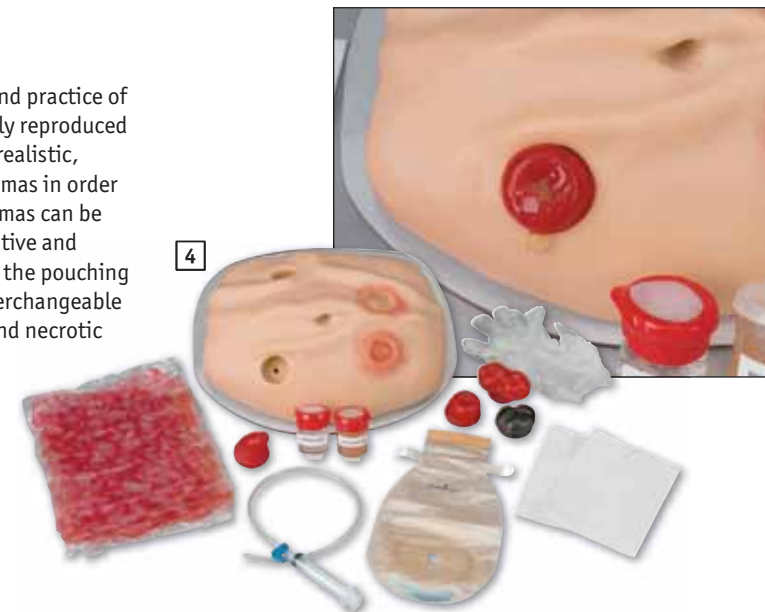


4 Complete Ostomy Care Simulator

The Complete Ostomy Care Simulator is ideal for demonstration and practice of ostomy care procedures. The anatomy of the ostomies are carefully reproduced to provide lifelike functions and appearance. The skin is made of realistic, flesh-like material, and a soft, pliable material is used for the stomas in order to achieve the most realistic tactile sensation. Dilation of the stomas can be demonstrated and practiced, along with application of postoperative and permanent ostomy bags. Practice fitting, cleaning, and changing the pouching system. The simulator consists of three locations to place the interchangeable stomas (healthy stoma, double barrel stoma, prolapsed stoma, and necrotic stoma). The healthy and necrotic stomas can be irrigated and simulated stool can be pumped to provide drainage and excretion at the ostomy. There is a permanent, retracted stoma to practice ostomy care procedures on stomas sunk below skin level. Includes simulator, four stomas, simulated stools, adult ostomy bag, lubricant, syringe with tubing, base, gloves, and infected tissue roll.

Size: 35.5 x 30.5 x 10 cm, Weight 4.6 kg

■ Ref.no. R11045



4

1 Infant Ostomy Trainer

Caring for a baby with an ostomy may feel overwhelming. The Infant Ostomy Trainer has been created to educate caregivers and parents on how to give special care to an infant with a stoma. This trainer will help by teaching step-by-step procedures for cleaning and caring for a baby's stoma and changing the pouching system. The anatomy of the colostomies were carefully reproduced to provide lifelike appearance and functions. A soft, pliable material is used for the stomas in order to achieve the most realistic tactile sensation. The syringes included are used to inject simulated stool through ports to the colostomy sites. Consistency of the simulated stool can be thinned by adding water. The colostomy sites can also be irrigated. The simulated stool may be reused.

■ Ref.no. R10136



2



2 Ostomy Care Simulator

Reproduction of an abdomen showing the anatomy of both a colostomy and ileostomy to provide lifelike functions and appearance. Dilation of the stomas can be demonstrated and practiced, along with application of postoperative and permanent ostomy bags. The colostomy can be irrigated. Drainage and excretion at the ileostomy (water) and colostomy (simulated stool) can be pumped by syringes. Delivered with simulated stool and carrying case.

Size: 45.5 x 45.5 x 30.5 cm, Weight: 11 kg

■ Ref.no. R10133

3 Otto Ostomy Advanced

Otto Ostomy Stoma Package-Advanced includes the following: 0,9 cm Diameter Stoma, 5 cm Diameter Stoma, Urostomy Stoma with 8 cm Stents in place, loop Stoma with Rod, loop Stoma without rod, Double Barrel Stoma, Oval Stoma, Mushroom Stoma, Prolapsed Stoma, 8 cm Diameter Stoma, Granulomas Stoma, Necrotic Stoma, Ischemic Stoma, In-Skin-Fold Stoma, Parastomal Hernia Stoma, Mucocutaneous Separation Stoma, Recessed Stoma, Flush Stoma, Ileal Conduit, Small Intestine Loop, Small Intestine Loop Adapter and Large Intestine Loop Adapter.

■ Ref.no. R11009 (not pictured)

3



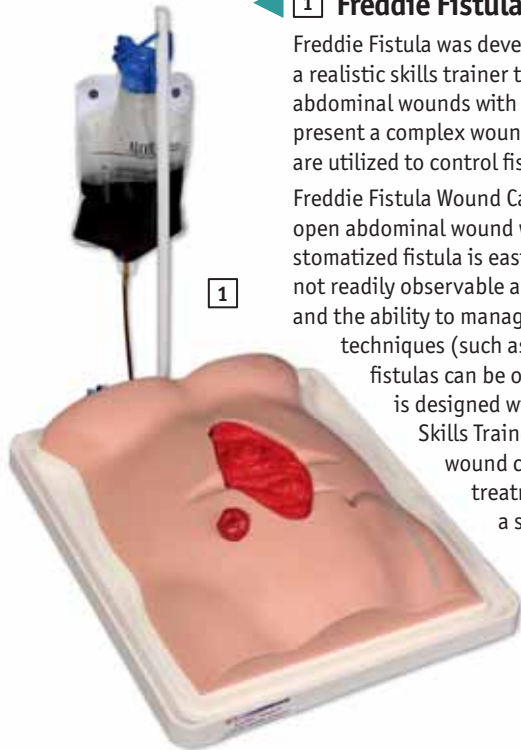
1 Freddie Fistula Skills Trainer with case

Freddie Fistula was developed to provide health care providers and medical educators with a realistic skills trainer to facilitate instruction and practice in the management of open abdominal wounds with active fistulas. Open abdominal wounds with actively draining fistulas present a complex wound care challenge that requires that multiple wound care modalities are utilized to control fistula effluent and allow for optimal wound healing.

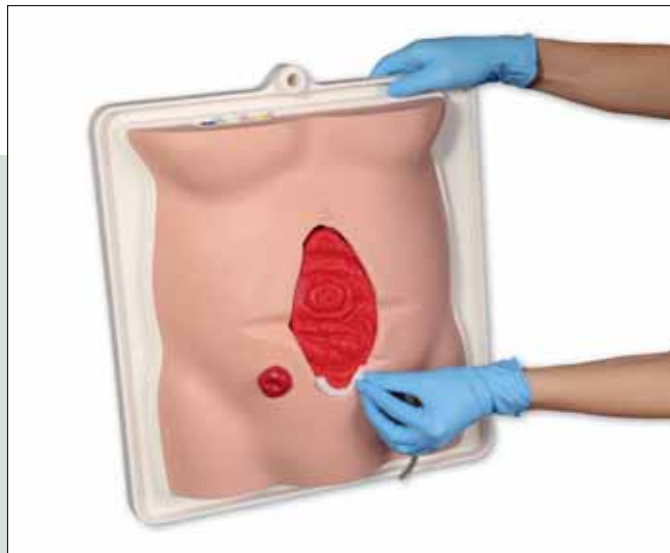
Freddie Fistula Wound Care Skills Trainer incorporates an innovative design with a realistic open abdominal wound with exposed intestines and three actively draining fistulas. A central stomatized fistula is easily observed, while both the non-stomatized and hidden fistulas are not readily observable and add to the complexity of identifying the source of effluent flow and the ability to manage drainage, while employing various wound dressing materials and techniques (such as negative pressure wound therapy). Any combination of the three fistulas can be opened to permit effluent flow, while the integral base of the trainer is designed with a tray that can contain up to 700ml of fluid. The Freddie Fistula Skills Trainer helps to build competency and confidence in this challenging wound care scenario by allowing the user to employ some of the latest wound treatments and techniques. Included with the Freddie Fistula trainer is a support rod to hold the 500ml effluent fluid bag, a drainage tube, a bottle of effluent fluid concentrate and 3-way, color-coded tubing sets with pinch clamps

Size: 46 x 41 x 13 cm, Weight: 4 kg.

■ **Ref.no. R11050**



1



2

NEW!

2 Ostomy Pouching Trainer

The Ostomy Pouching Trainer™ helps prepare patients, their families, and healthcare professionals for this life-changing event, improving their initial exposure and their future quality of life. The Ostomy Pouching Trainer™ will facilitate the practice of proper pouching techniques to maintain healthy skin while developing good hand-eye coordination. Pre-operative teaching allows patients and their families to begin learning about ostomies prior to surgery when they are less distracted—reducing anxiety. They can practice using four different stomas,

- Urostomy with Stents
- Loop Stoma (you provide the bridge)
- End Stoma
- Flush Stoma

With the Ostomy Pouching Trainer™, each of these stomas can have simulated stool or urine output and can be placed in four different locations,

- Contact dermatitis
- Standard healthy skin
- Flush placement with folds and mucocutaneous separation
- Candidiasis

Patients and healthcare staff can grasp, in a realistic, life-sized model, what they may have had difficulty understanding from pictures, especially in those cases where language or comprehension may be an obstacle. Seeing the stomas and visualizing the location and function of the various types, including the discharge from them, is essential to learning. Proper teaching helps increase patients' understanding of their condition and the adjustments which may be necessary for achieving a satisfactory standard of life with their new stoma.

■ **Ref.no. R11054**



1 Training phantom for ultrasonic detection of tissue damage

This unique training phantom allows training of ultrasonic detection of DTI (deep tissue injury). The phantom has two replaceable pads in two locations where DTI typically occurs easily. One pad represents the sacral region, the other the greater trochanter region.

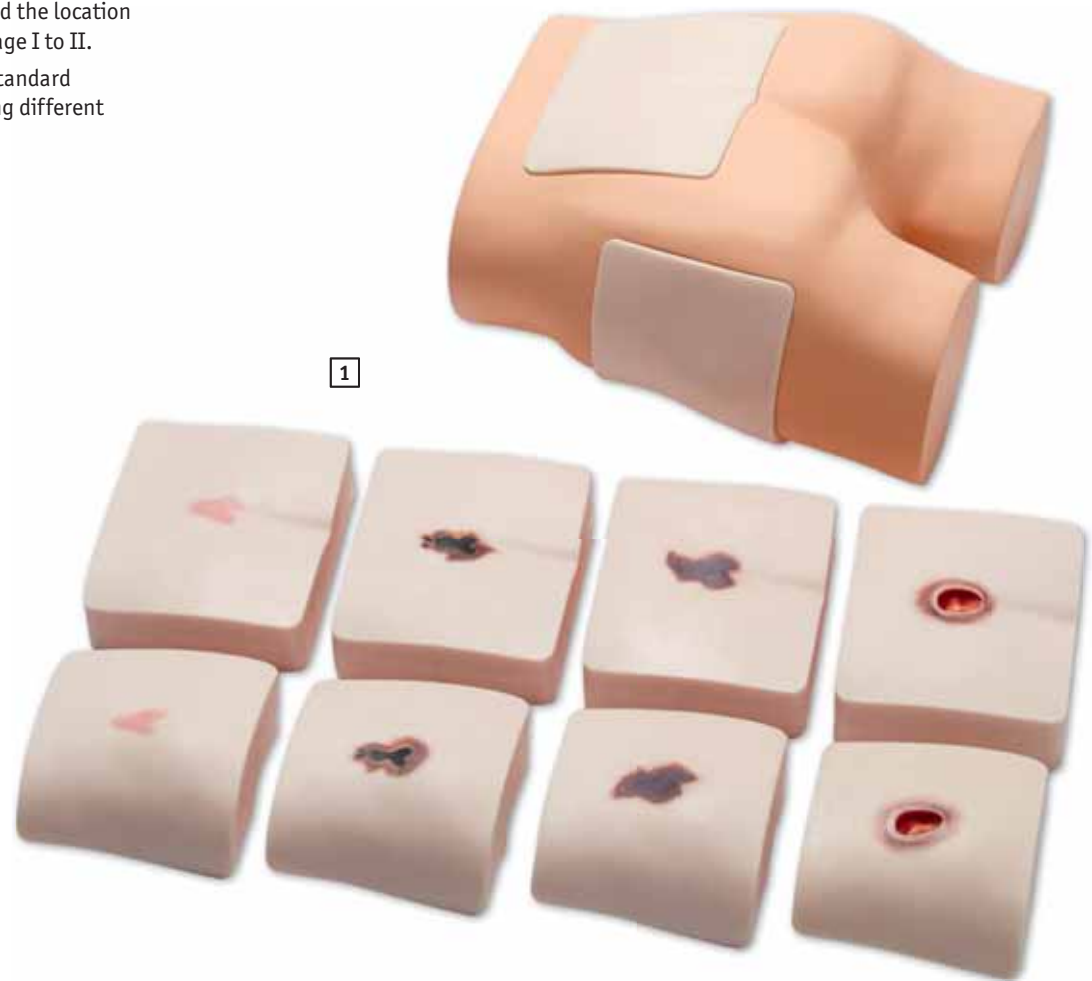
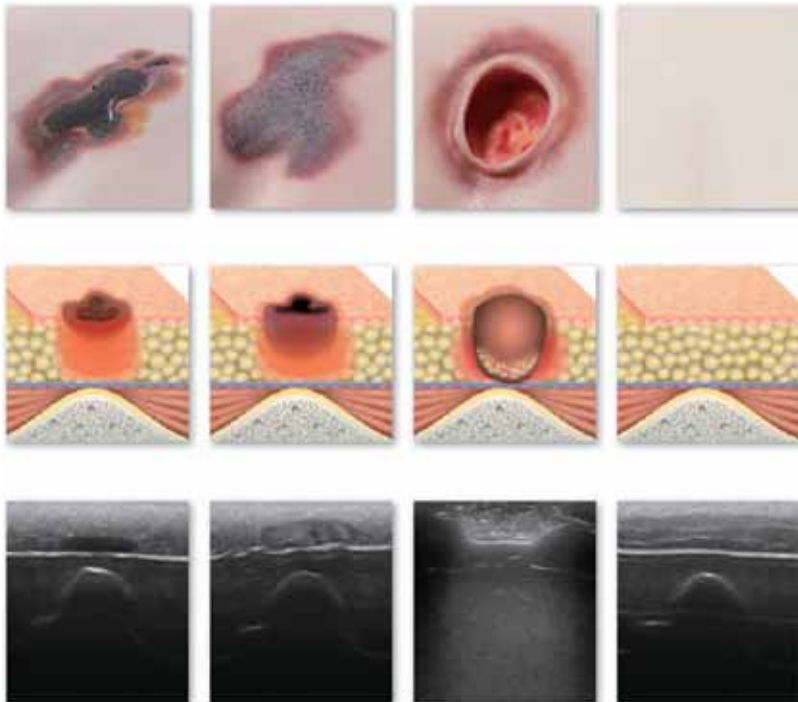
The phantom has 5 different pads for each of the two regions:

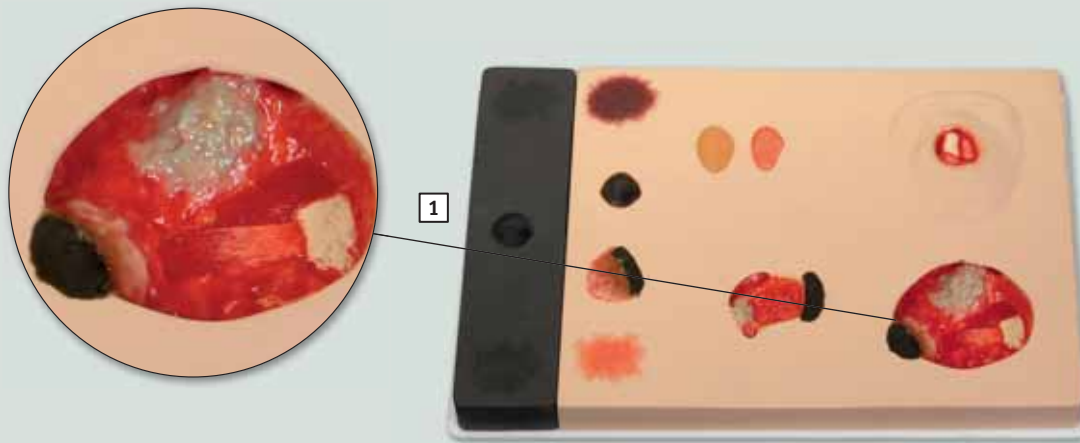
- Healthy tissue – no defect
- Mild bedsore – edema and hypoechoic area
- Moderate bedsore – edema and abscess
- Severe bedsore – edema and cobblestone-type abscess
- Pocket-type bedsore – tissue wound and pocket formation

Observing features such as loss of superficial fascia, localized areas of low brightness, and the location and depth of abnormal findings make it possible to confirm mild bed sore at category/stage I to II.

Of course the model can also be used for visual classification of decubitus ulcer as well. Standard classification and treatment practice can be practiced and inserts can be used for teaching different stages. Supplied in storage case.

■ Ref.no. R16661



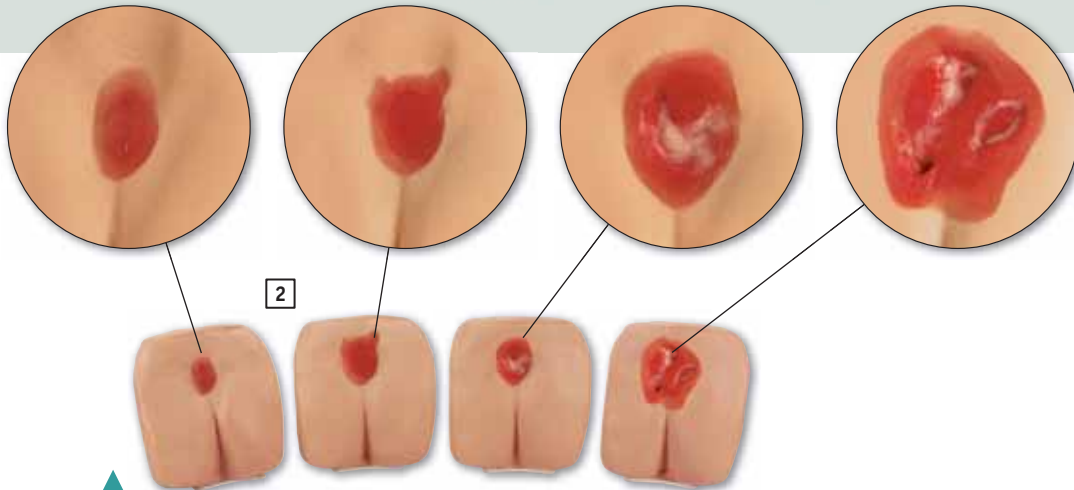


1 Pat Pressure Ulcer Staging Model

A unique, compact, comprehensive and realistic model displaying the following pressure ulcers: an unstageable eschar/slough wound, Stage I (in both darkly and lightly pigmented skin), Stage II, Stage III with undermining, tunneling and slough, a shallow Stage IV over the malleolus with exposed bone and tendon, and a Stage IV with exposed bone, tendon, muscle and undermining, tunneling, eschar and slough. The darkly pigmented skin section shows how different a Stage I, blood blister and suspected DTI (Deep Tissue Injury) may appear depending on the pigmentation.

Size: 21 x 32 x 4.5 cm, **Weight:** 1.5 kg

■ Ref.no. R10167



2 Pressure Ulcer/Bedsore Models

Pressure ulcers, also known as bedsore or decubitus wounds, affect over one million adults every year. The wounds can range from superficial and mildly red on the skin surface to an extremely infected, deep, open wound penetrating down to the bone with blackened or dead tissue. These models illustrate all four wound stages and are used to give instruction on the care and cleaning of the ulcers. The four stages include:

- Stage 1 — Reddening, unbroken skin
- Stage 2 — Open wound that is reddened with partial skin loss
- Stage 3 — Deep, open wound that reaches through all layers of skin and into the muscle
- Stage 4 — Severe, deep, open wound that reaches through all layers of skin and damages muscle, bone, tendons, and joints

The Pressure Ulcer/Bedsore Models are made with our lifelike skin. Includes four buttocks models representing each stage, four display easels, and instruction key card.

Size: 16.5 x 15.9 x 2.5 cm, **Weight:** 3.6 kg

■ Ref.no. R11047



3 Negative-Pressure Wound Therapy (NPWT) Trainers

The Negative-Pressure Wound Therapy (NPWT) Trainers assist with the instruction of advanced therapy management for many types of acute and chronic wounds. Use the trainers for demonstration of application, placement, and management of a negative-pressure wound therapy system and for the care of wounds. These unique trainers have different depths of wound care, including tunneling. The lifelike texture of the skin and realistic appearance of the wounds give added realism to training. Appropriate wound care bandaging products can be used. Pump device and bandaging supplies not included.

■ Ref.no. R11011





1 Decubitus Treatment Simulator

This model of a human buttock shows first-, second-, and third-degree decubitus and allows practicing of washing and dressing procedures.

Size: 24 x 37 x 9 cm

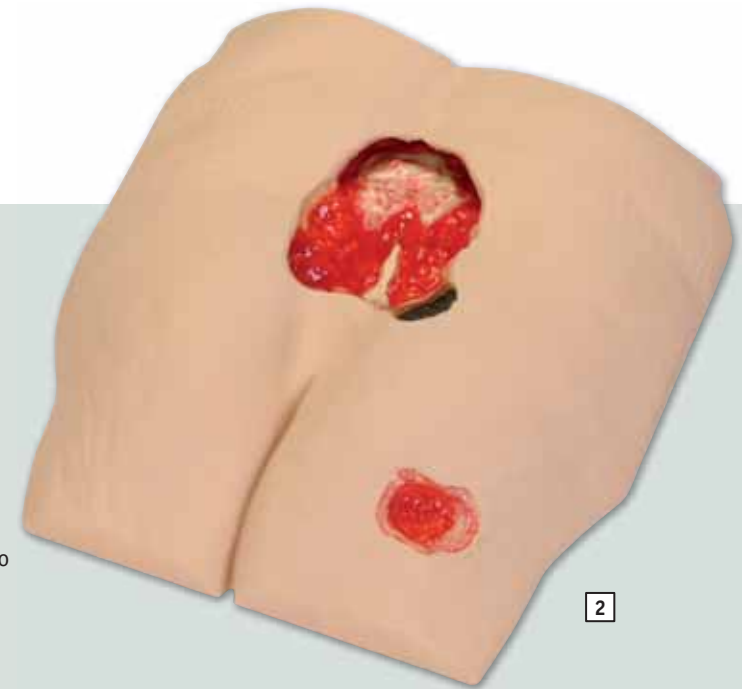
■ Ref.no. R10026

2 Stan Stage IV Pressure Ulcer Model

Designed for teaching and training with vacuum assisted closure and negative pressure wound therapy devices, this model features a large sacral Stage IV pressure ulcer, with eschar, subcutaneous fat, undermining, tunneling, slough, eschar and exposed bone (with osteomyelitis) and a Stage III pressure ulcer with subcutaneous fat and granulation tissue. The large size and depth of the Stage IV pressure ulcer, as well as the undermining and tunneling, make it ideal for practicing the proper dressing and preparation of a large wound for use with a negative pressure wound therapy device. The Stage III pressure ulcer is positioned so that the Stage IV can be dressed by itself or a "bridging" dressing can be applied to the Stage IV and Stage III to demonstrate and practice this skill.

Size: 23 x 23 x 11.5 cm, Weight: 1 kg

■ Ref.no. R10172



3 Seymour II Decubitus-Simulator

This new, improved version of the approved Decubitus-Simulator is made of even more realistic material and is perfect for dressing practice. The model was molded from a 74-year-old patient and shows the following pressure ulcers: Stage I, stage II, stage III and Stage IV. It also shows a suspected deep tissue injury (DTI), a unstageable eschar/slough wound and a 14 cm dehiscence. Life size.

■ Ref.no. R10073

Professional Nursing Wounds

This series of simulated wounds surpasses every other artificial wound that was on the market before. These wounds are made of a new type of skin-like material and are molded by special effects artists, so they can hardly be distinguished from real wounds. The wounds adhere by themselves on human skin and are very durable. Because of the use of especially flexible material the wound moves together with the simulated patient which makes its appearance even more realistic. A very complex coloring makes the artificial skin absolutely real in look and the touch is hard to distinguish from real skin. The wounds adhere without the use of glue and can be re-used again and again what makes them very economic on the long run.

1 Bedsore, deep (table top model with frame)

15 cm x 15 cm x 5 cm

■ Ref.no. 8030

2 Bedsore, flat

22 cm x 14 cm

■ Ref.no. 8031

3 Large wound with cavity

30 cm x 15 cm

■ Ref.no. 8032

4 Large wound, flat

30 cm x 15 cm

■ Ref.no. 8033

5 Wound with cavity

22 cm x 14 cm

■ Ref.no. 8034

6 Surgical wound, recently sutured

22 cm x 14 cm

■ Ref.no. 8035

7 Surgical wound, recently stapled

22 cm x 14 cm

■ Ref.no. 8036

8 Sutured wound, severe inflamed

22 cm x 14 cm

■ Ref.no. 8037

9 Wound with cornification

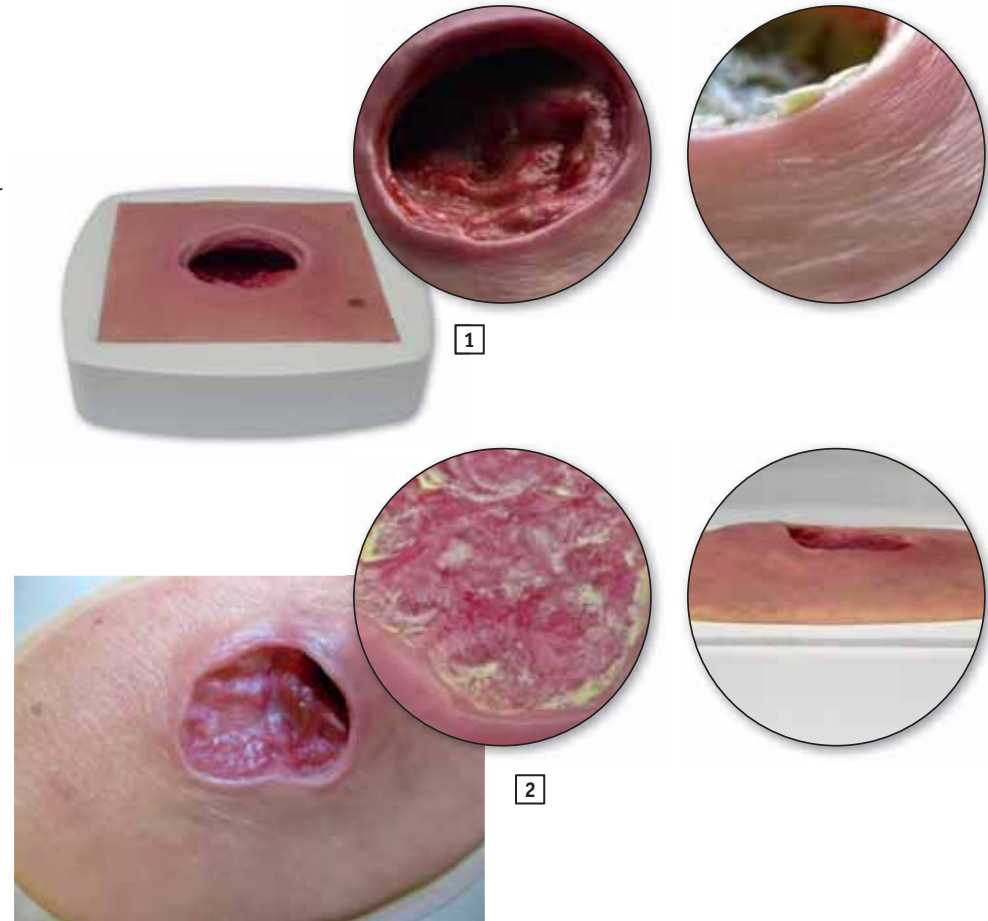
14 cm x 8 cm

■ Ref.no. 8038

10 Debris, wipeable, yellow

100 ml

■ Ref.no. 8039



Adhesion of bandage



1

1 Nursing care moulage kit

This moulage kit offers a highly detailed variety of disease, pressure and surgically induced wounds to assist practitioners in understanding the treatment of their patients. Whether the practitioners' education includes clinical nurse training, certified nursing assistant training, surgical technician, or pre-hospital disciplines, it is beneficial to visualize the problems that arise in caring for these wounds. The kit comes with a spray container of both stinky sweat and vomit to assist in presentation. Comes packaged in a sturdy carrying case for ease of storage and transport.

■ Ref.no. R11013

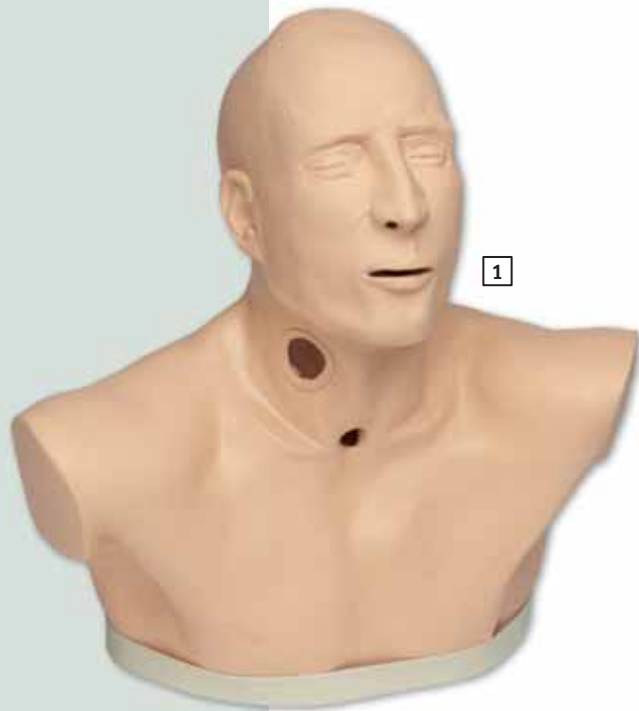
2 Ultra nursing wound simulation kit

The "ultimate" kit designed to assist nursing educators in creating medical experiences that used to only be found in clinical settings. The instructor-created simulation scenarios assist students with making assessments, prioritizing patients, and determining correct treatments. Simulation allows students to make critical mistakes without endangering a live patient, providing them with realistic patient interaction and enabling them to gain experience and gain confidence before entering real-life clinical situations. The more realistic the simulation, the greater the learning experience. Applications of wounds, blisters, abrasions, bruises, and much more act as visual aids. Moulage adds enough realism for students to become completely engaged in the scenarios presented. It allows them to feel the patient or patient simulator is someone for whom they must provide appropriate care. Using very quick, basic simulations and simple makeup, the simulated three-dimensional lifelike wounds can be cleaned, sutured, bandaged, etc., for a realistic nursing experience. Nursing simulation can use simple makeup and include products applied to a real person's or patient simulator's limbs, chest, head, or any other part of the body. The simulation can be as basic or advanced as needed by also adding other elements of realism, including sweat, blood, pus, mucous, or any other "recipes" needed to create a realistic learning environment. The Ultra Nursing Wound Simulation Kit includes everything needed to create complex scenarios to assist students with a multitude of sensory perception experiences. Included are simulated wounds, makeup, and makeup accessories all packaged in a hard carry case.

■ Ref.no. R11014



2



1 Tracheotomy care simulator

This simulator replicates an adult male containing oral and nasal passages and all appropriate anatomy such as pharynx, epiglottis, trachea, oesophagus, stoma, cricoid cartilage, representative cervical vertebrae, left and right bronchi and the bronchial tree. The oesophagus dead ends 5 cm below the tracheal opening. A perfect aid to practice oral, nasopharyngeal, nasotracheal and tracheal suctioning, proper cuff inflation, as well as cleaning of the stoma area and changing dressings or ties. A viewing window in the neck allows observation of the suction and trachea tube. From the bottom of the simulator one can visually verify the location of a suction catheter in the right bronchus (seen) or left bronchus (unseen). Tracheotomy tube is not included. Delivered with cleaner and carrying case.

■ Ref.no. R11083

2 NG Tube and trach skills simulator

The NG Tube & Trach Skills Simulator has been developed to aid with the instruction, training, and practice of vital tracheostomy skills and care for patients with respiratory conditions. The simulator is also designed for instruction of gastrointestinal care procedures through nasal and oral access. With a newly designed head and torso, this simulator features realistic landmarks, trachea, esophagus, lungs, and stomach. For exceptional realism, methyl cellulose can be mixed with water to simulate mucouslike fluids of a real patient. Fluid can be added to the lungs and stomach for realistic tracheostomy care and suctioning. The simulator also allows for the practice of dressing changes and cuff inflation. Other realistic procedures include: NG tube care, including insertion, irrigation, and removal; gastric lavage and gavage; feeding tube insertion and removal with the ability to practice feeding; nasoenteric and esophageal tube care; oropharyngeal and nasopharyngeal care; and tracheostomy tube care. Intubation using a laryngoscope blade and size 6.0 ET tube may also be practiced. The simulator is designed to use size 6 tracheostomy tube and a size 6 NG tube. Spray-pump lubricant, a packet of methyl cellulose, instruction manual, and hard carry case are included. The simulator does not include tracheostomy ET, or NG tube.

Size: 26 x 41 x 69 cm

■ Ref.no. R11006





1 Suction/Tube feeding simulator

This model can be used to practice the insertion of suction catheters into the nasal cavity, oral cavity and tracheostomy site, as well as suction procedures, nasogastric tube feeding, and gastrostomy care procedures, routinely applied in the nursing and care giving fields.

Product features:

- Insertion of the feeding tube all the way to the gastric fundus can be practiced
- The tube feeding components come with an internal tank, allowing nasogastric tube feeding and gastrostomy management using actual liquid
- Air bubble sounds can be heard and suction of gastric fluid can be used to confirm the insertion of the tube
- The tank has a drainage function
- The model can be taken apart for easy maintenance
- The liquid tanks can be flushed

Comes in carry bag.

- Ref.no. LM97B

Tube feeding component only for Use with existing LM97

- Ref.no. LM97C

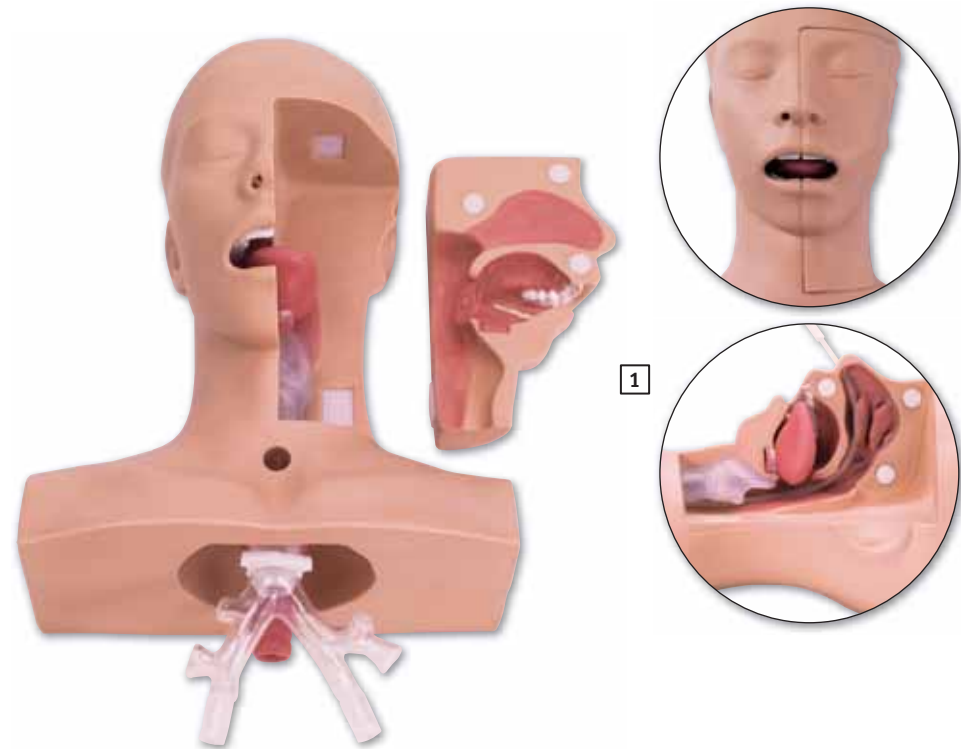
1



1 Suction training model

With this model in life size nasal and oral suctioning techniques can be practiced. The model has a tracheal opening for tube insertion and intrabronchial suction training. The left side of the face can be removed to control tube position. The model comes with artificial sputum which can be removed realistically. Additionally the model has an oesophagus and allows placement of gastric feeding probes. The model is also very good for teaching the anatomy. Supplied with transport bag.

■ Ref.no. LM97



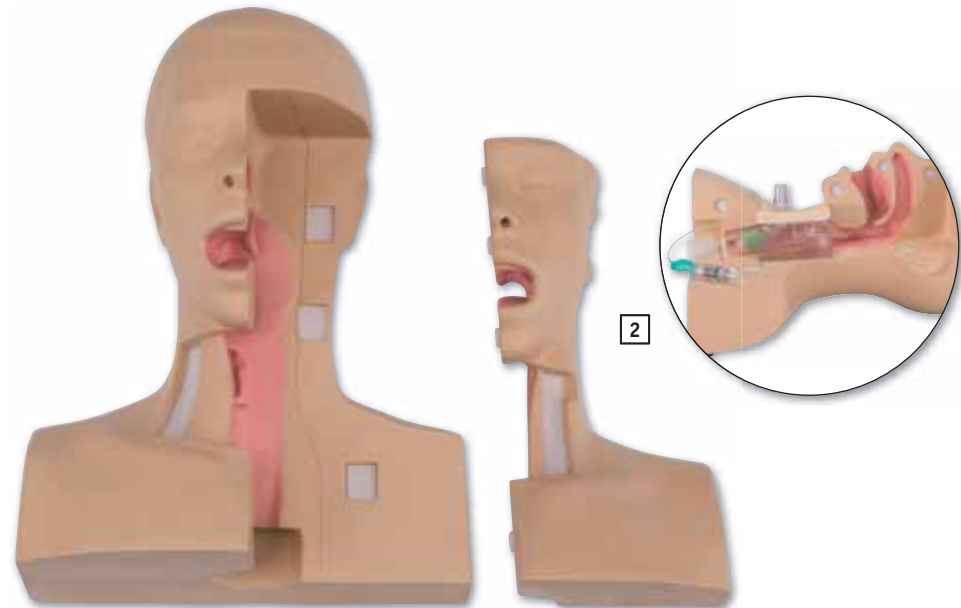
2 Tracheostomy management simulator

This model can be used to practice the procedures carried out for tracheostomy patients in the fields of nursing and caregiving when replacing cannulas or performing suction through a cannula. The model can be divided into two halves and the trachea section is transparent, allowing confirmation of the state of cannula insertion and the position of the suction catheter in the cannula during suction. In addition, with the specially provided cannula attached, a ventilator can be operated by connection a test lung (simulated lung) to the model.

Features

- Allows the user to practice the procedures for replacing cannulas.
- As the trachea section is transparent, the state of inflation of the cuff can be observed, and by using the specially provided cannula, the approximate optimum pressure can be confirmed. (Because the posterior wall of the trachea is soft, the user can feel the compression of the trachea that results when the cuff is overinflated.)
- The transparent trachea facilitates explanation of how the suction catheter should be positioned, and of how to perform suction using the upper part of the cuff. (The above mentioned practicing of suction procedures can be performed using the simulated sputum.)
- The soft neck surface skin allows the user to feel the thyroid cartilage through the surface skin.
- The detachable trachea section facilitates explanation of the areas where granulation tends to develop.
- A ventilator can be operated by attaching the specially provided cannula and connecting a test lung, allowing confirmation of the alarm tone generated when air leakage occurs.

■ Ref.no. LM106



1 Airway Suction Trainer ▶

This lifelike reproduction of the human respiratory organs is designed for temporary airway suction and catheter insertion practice. It is a very effective tool with life-like tactile qualities for training in airway suction.

Features:

- Realistic anatomy including the mouth, tongue, oral and nasal pharynx, epiglottis, trachea and esophagus.
- Catheterization pathways include oral, nasal or through the tracheostomy opening.
- Life-like organs facilitate learning proper catheter insertion length.
- The side window allows the passage of the catheter to be observed.
- Realistically simulated sputum sticks to the airway.

Size: 45 x 23 x 15 cm

■ **Ref.no. R16662**



2 Tracheotomy – moulage ▶

This self-adhering tracheotomy can be used on standardized patients (SP) to practice tracheotomy care realistically. The moulage comes without cannula, normal cannulas can be used.

■ **Ref.no. 8040**



3 Simulation breast plate for tracheotomy care

This throat-plate is designed to be worn like a necklace (attached behind the neck). Its main purpose is to practice exercises about handling and cleaning a tracheotomy tube, whether for medical professionals (nurses, care assistant...) or for the patients' close relatives. Supplied without tube. Note: This model is not designed for practicing surgery.

■ **Ref.no. R66510**

1 Tube feeding simulator NG, OG and PEG

The Tube Feeding Simulator is an effective training tool for caregivers of patients with enteral tube nutrition as well as medical professionals. The manikin has three routes for EN tubes and allows training with real liquid foods. To facilitate anatomical understanding, the feeding routes panel for demonstration and the chest anatomy to overlay the manikin come with the set. The placement of the tubes can be confirmed by auscultation. This simulator is compact and portable. The neck is flexible to learn appropriate neck/head positioning. Oral/Nasal feeding tube insertion and PEG tube setting is possible. Tube placement can be confirmed by auscultation. The transparent structure allows direct observation of progress and placement of the tube. The manikin can be set at Fowler's position. Real liquid foods (formulas) can be administered. The tube feeding routes panel and the chest sheet facilitate demonstration and anatomical understanding.

■ Ref.no. R16660

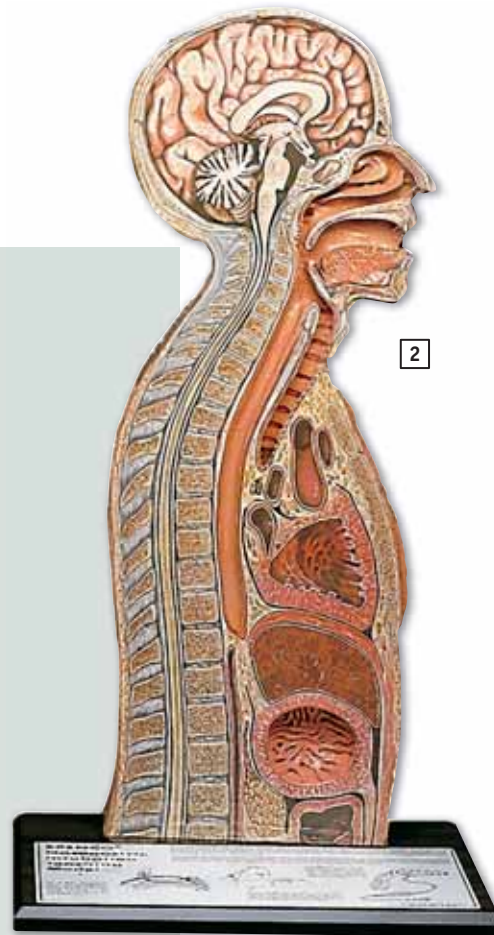


2 Nasogastric intubation model

This instructional model shows a median section through nose, mouth, pharynx, trachea, oesophagus and stomach. Plastic feeding tubes or catheters may be passed through the nose or mouth into the oesophagus and stomach. A tracheostoma has been added to demonstrate endotracheal aspiration.

Size: 58.5 x 30.5 x 8 cm

■ Ref.no. R10115



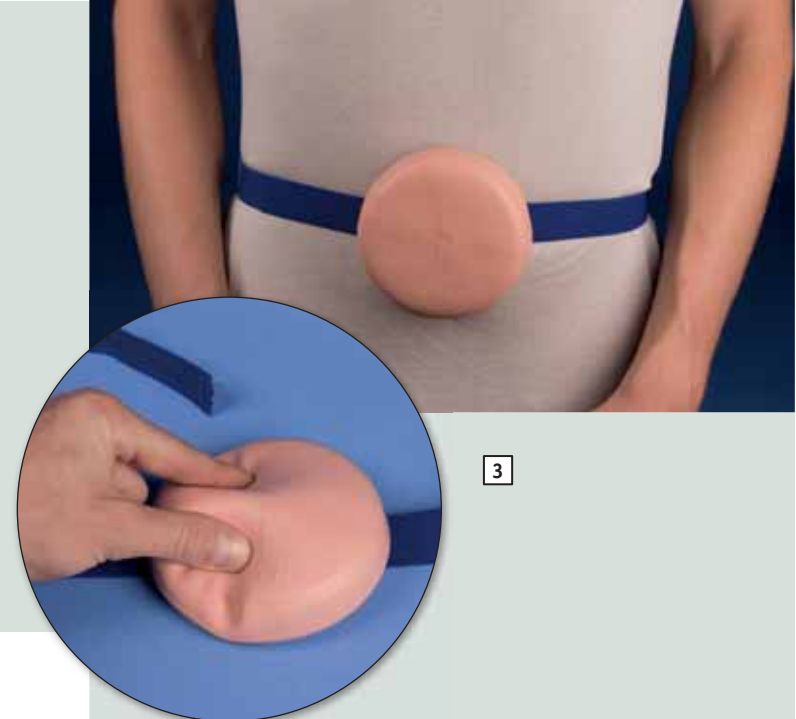


1 Diabetic injection model kit

Made from realistic material, these teaching models facilitate technique practice on both an injection “skin” and a finger stick apparatus. The skin model may be strapped to the user’s arm or leg to simulate a needle injection site, and the finger stick model may be held by the attached grip for lancet practice. Both can be punctured repeatedly. Replacement available. Comes with carrying case.

■ Ref.no. R10066

1



3 Diabetic injection pad, advanced version

Unlike other injection pads this advanced pad gives the opportunity to practice with a normal and a hardened abdominal wall. It allows the student to form a realistic fold for injection. Due to special material it gives a lifelike impression of touch and feel, almost like in a real patient. The model is perforation proof and can be attached to the students’ body using a flexible band.

■ Ref.no. 7070

3



2 Diabetic injection pad

This pad that looks and feels like real human skin is ideal for diabetic instruction and injection practice. May be worn in specific body locations to allow patients to inject fluids into the pad to practice giving themselves injections. Pad is thick enough to accept all insulin needles. For safety purposes the oval pad has a hard plastic backing to prevent the needle from poking through.

■ Ref.no. R10010



1 Injection belly

This soft stomach replica will be an invaluable tool for teaching patients how to properly insert and rotate the infusion set for insulin pumps, avoiding the 5 cm area around the navel, as well as giving self-injections of many types including pen-style injections. The trainer has lifelike skin with what feels like real stomach tissue underneath. There is a soft plastic backing to keep needles from going through and holes to allow the material to breathe and dry, should you choose to inject liquids. Distilled water may be injected, but the more liquid that is injected into the simulator, the longer the time for evaporation. Actual insulin or other medications should not be used, as they may deteriorate the material. The injection belly is considered disposable; however, with proper care and treatment it will serve its purpose for a long period of time. Using the smallest needles possible when simulating injections and rotating the insertion points will help prolong the life of the trainer.

Size: 25.4 x 15.3 x 3.2 cm, **Weight:** 0.4 kg

■ **Ref.no.** R11100

2 Advanced injection velly

This soft stomach replica is an invaluable tool for showing how to properly insert and rotate the infusion set for insulin pumps, avoiding the 5 cm area around the navel, as well as giving many types of self-injections (including pen-style injections). Similar to the Injection Belly, but made of a material that creates a more realistic experience. The trainer has lifelike skin with what feels like real stomach tissue, along with the ability to pinch the skin. Backing keeps needles from going through. Adjustable straps allow the stomach to be attached to a manikin or human patient for simulation practice. The soft material can be punctured repeatedly without showing holes. Liquid injection is not recommended.

Size: 25.4 x 15.3 x 5.1 cm, **Weight:** 0.4 kg

■ **Ref.no.** R11101

1 Diabetic foot model

Realistic replica of an adult foot with presentation of diabetic ulcers in different stages. Perfect for demonstration of the importance of foot hygiene for diabetic patients. The special material does not only give a life like appearance, it allows the attachment of adhesive as well as vacuum bandages.

Size: 26 x 9 x 9 cm, Weight: appr. 0.5 kg

■ Ref.no. R50067



2

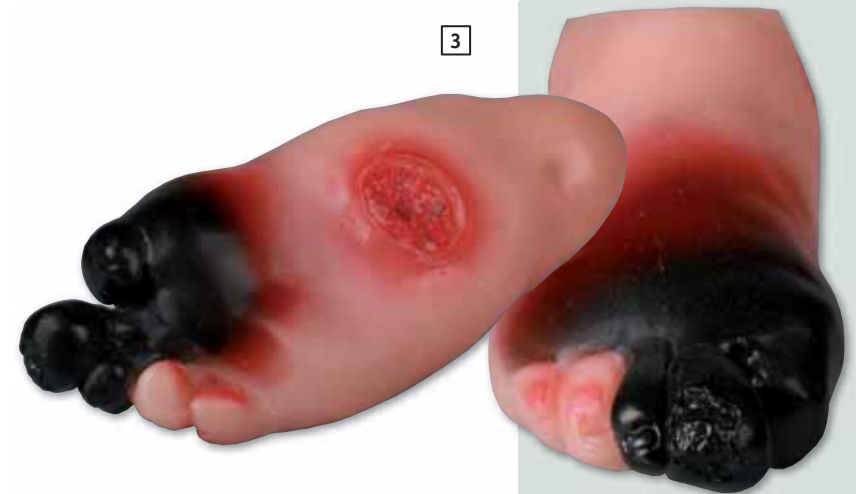


2 Unhealthy foot model

An unhealthy foot model to help teach the importance of proper foot care and nutrition to people with diabetes. This foot replica shows the distal end of the foot with an invasive wound on the bottom of foot and surface inflammation around the big toe and second toe. Life-size foot made of soft, lifelike material with flexible toes.

■ Ref.no. R10027

3



3 Diabetic foot model, severe stage

This model in life size shows the severe consequences of diabetes, including an amputated toe, Charcot foot deformity, and severe infection and gangrene.

Size: 10 x 23 cm

■ Ref.no. R10067-1

1 Common foot problems ▶

An incredibly realistic, life-size, handpainted foot replica moulded from an actual human foot. Abnormalities include: bunion, callus, corn, inflamed toenail, open sore, and dry, cracked skin. Great for use when working with diabetic patients!

Size: 23 x 9.5 x 11.5 cm

■ **Ref.no.** R10035



▶ 2 Advanced foot problems

An incredibly realistic, life-sized, hand-painted foot replica. This replica demonstrates advanced stages of a realistic, unhealthy foot with dry, cracked skin; a bunion; callus; corn; toenail fungus; a hammer toe; open pressure point sore; ingrown toenail; and gangrene. It will help in showing patients what sores will progress to if they do not take care of them. It also helps clients understand what the different common foot problems are.

Size: 8.8 x 22.9 x 11.4 cm, **Weight:** 0.4 kg

■ **Ref.no.** R11102



▶ 3 Foot replica for nursing practice

This first class casts of real human female feet with start of lower leg is perfect for nursing practice, bandaging or washing. Soft, tissue-like material with carefully reproduced separate toes makes the model perfect for hygienic practice in diabetes. Of course it is also suitable for presentation of orthoses or socks.

■ **Ref.no.** M250

1 Wound foot "Wilma"

Moulded from a real foot for a true-life experience when assessing the various wounds. Twenty different conditions are presented so you can see and understand how they are different. Great care has been taken to colour each wound just as you would see it on a patient. Once the different etiologies are understood, you can discuss and devise treatment plans that will deliver optimized patient care. The following wounds and abnormalities are included: pressure ulcers, deep tissue injury, callus, amputated toe, gangrene, maceration, partial thickness wounds, corn, ingrown toenail, blister, hammer toes, and skin stapled wound. Comes with positioning base for "hands free" access to all the sites when applying dressings or teaching.

Size: 32 x 20 x 9 cm

■ **Ref.no.** R10227

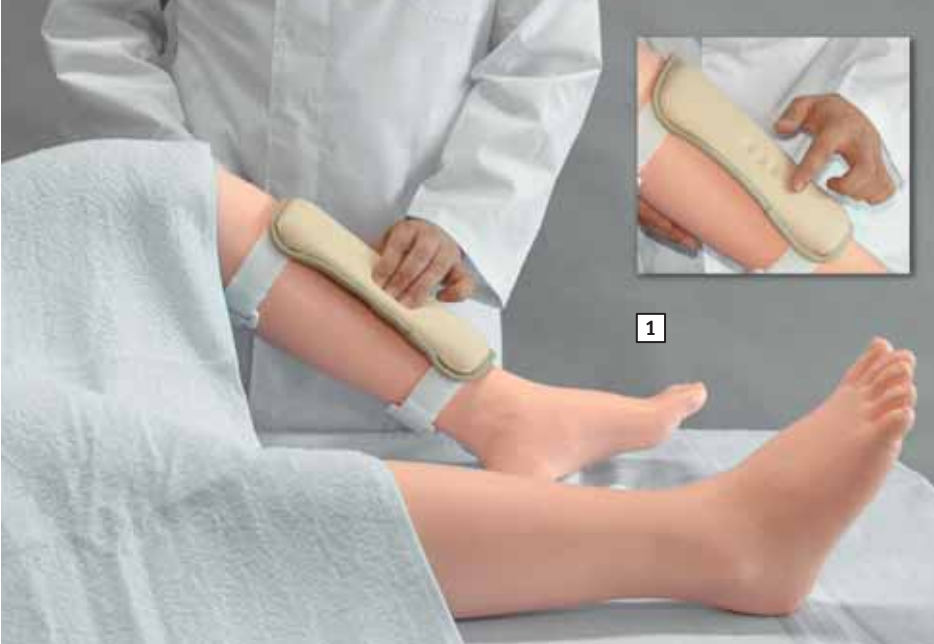


2 Elderly pressure ulcer foot

Chronic foot ulcers affect elderly the most, we have designed the Elderly Pressure Ulcer Foot for instruction on care and cleaning of pressure ulcers in various stages. Pressure ulcers are more likely to appear over pressure points such as heels, tips of toes, between toes, or anywhere the bones may protrude and rub against socks, shoes, or bed sheets. This replica contains all four severity stages:

- **Stage I:** Located on the bottom of the toe. Surface of the skin is red.
 - **Stage II:** Located on the bottom of the foot just under the toe. Surface of the skin is red and deeper into the skin layers.
 - **Stage III:** Located on the side of the foot. Surface of the skin is red, looks more like a crater, and reaches the bottom layer of the skin.
 - **Stage IV:** Located on the heel of the foot. Surface of the skin has been damaged, including muscle, bone, joints, and tendons.
- **Ref.no.** R10228





1

1 Pitting edema model

Five variations of pitting edema models including a healthy one. Grades of the edemas are based on "Mosby's Guide to Physical Examination (7th ed.)". The model can be worn on the lower thighs of a simulation patient or a nursing doll.

- Differentiation of pitting edemas with four different grades and a healthy one
- Learning the examination procedures for edemas on the lower thighs
- Ref.no. R16070



2

2 Medical foot care model

To keep good condition of the patients' feet makes a big difference in quality of life of patients and can be critical for people with particular diseases including diabetes. The model is designed to facilitate training in nail clipping, and trimming as well as smoothing away the corns and callosities of patients. The replaceable nails, corn and callosities set on the life size foot model provide excellent training opportunities with true-to-life feeling until the trainees build enough confidence to move on to actual patients. The foot model also helps to demonstrate anatomical landmarks, foot assessment procedures, foot massaging and other day-to-day treatment.

- Ref.no. R16080



2

SPARE PARTS:

Toe nail, ingrown (20pcs set)

- Ref.no. R16080A

Toe nail, ringworm (20pcs set)

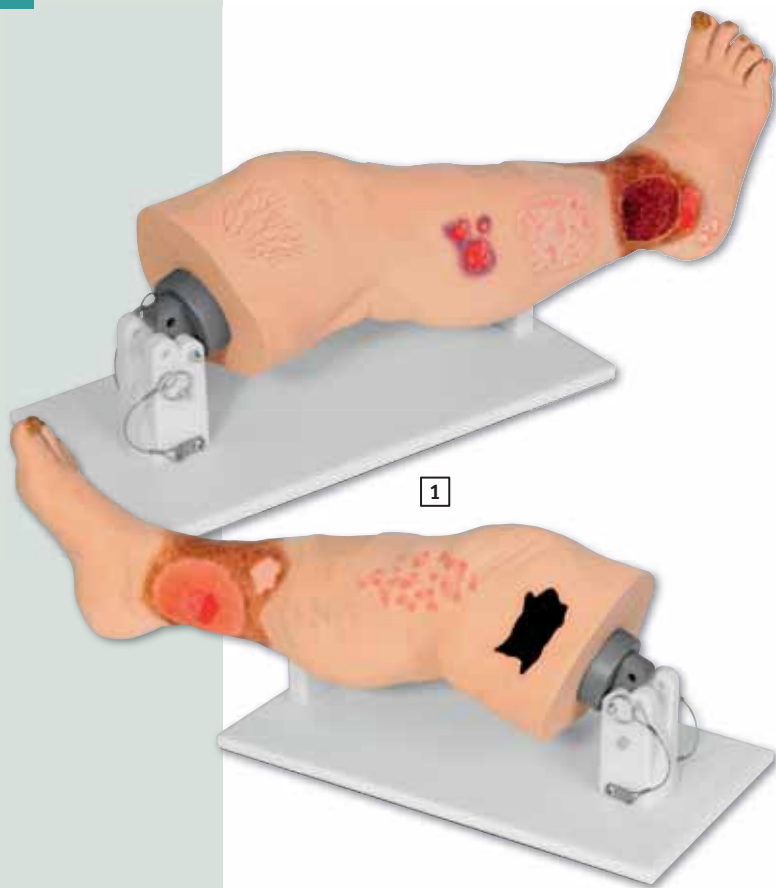
- Ref.no. R16080B

Callosity (10pcs set)

- Ref.no. R16080C

Corn (10pcs set)

- Ref.no. R16080D



1 “Vinnie” venous insufficiency leg

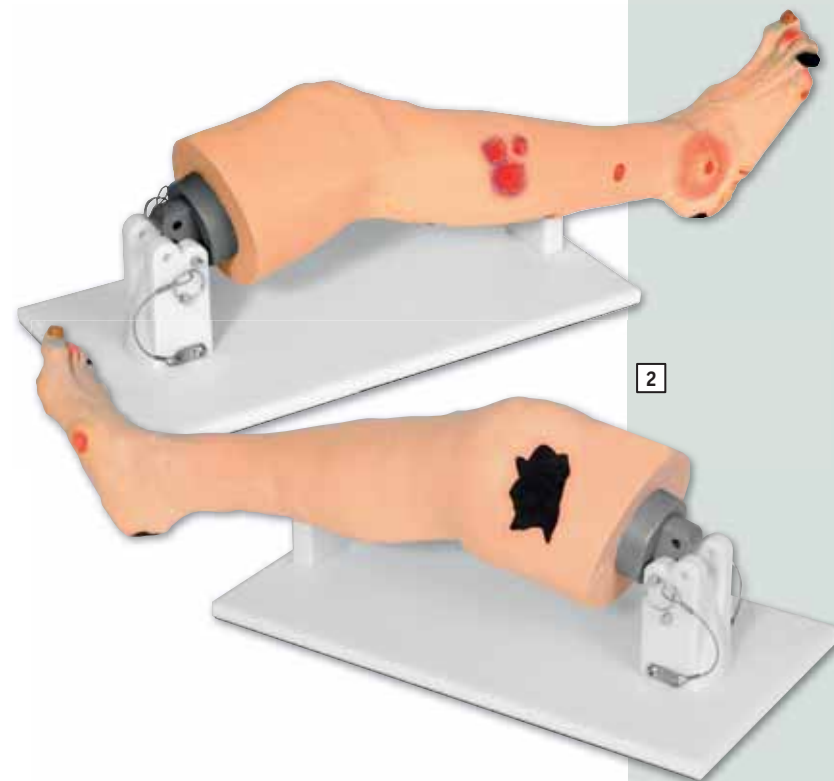
is a great tool for teaching, training, competency testing and skills assessment in the care of patients with this condition. Wounds associated with venous disease and other wounds on the lower leg & foot are often extremely painful for the patient, thus adding urgency to their effective and efficient identification and treatment. The following conditions are represented on “Vinnie” Venous Insufficiency Leg: Venous Ulcer, Cellulitis, Stasis Dermatitis, Varicose Veins, Hemosiderin Staining, Vasculitis, Lipodermatosclerosis, Calciphylaxis, Pyoderma Gangrenosum, Healed Foot Ulcer, Fungal Thickened Toenails, Maceration, Diabetic Ulcer, Atrophe Blanche, Pitting Edema, Reticular and Telangiectasia Veins. This model can also be used as a teaching tool and practice leg for clinicians learning about/practicing compression wrapping. An Optional Display Stand is available which permits ,Vinnie’ to pivot from above the knee, providing a realistic experience in supporting the leg while practicing compression wrapping, dressing changes or identifying conditions.

■ Ref.no. R11020

2 “Annie” arterial insufficiency leg

is a great tool for teaching, training, competency testing and skills assessment in the care of patients with this condition. The following conditions are represented on “Annie” Arterial Insufficiency Leg: Arterial Ulcers, Necrotic Toes, Eschar Heel, Charcot Foot, Diabetic Foot Ulcer, Cellulitis, Dystrophic Nail, Mottling, Callous and Heel Fissures. This model also includes a unique Arterial Doppler Sound module with individual buttons to activate the following doppler sounds: Monophasic, Biphasic, Triphasic and Venous. An Optional Display Stand is available which permits ,Annie’ to pivot from above the knee, providing a realistic experience in supporting the leg while practicing compression wrapping, dressing changes or identifying conditions.

■ Ref.no. R11021



3 Display stand for “Vinnie” or “Annie”

■ Ref.no. R11020A



1 PAT Professional Adipositas Trainer

With this new kind of suit student understand the perniciousness and painfulness of daily life with overweight and adipositas playful and easy. Our professional „Fatsuit“ represents this condition impressive and effective. This new acquired prospect supports the appreciation for the situation as well as points out the special needs of overweighted people. The field of application for the Professional adipositas trainer PAT is almost unlimited. It supports you in your work with overweighted people, can be used for prevention programs and graphically displays the effects of being overweighted on the students own body.

PAT offers you:

- Gaining body weight within seconds. Adjustable in steps of 230 g, gradable up to max. 30 kg additional weight (which is an extreme experience since there is no slow increase)
- Gaining body volume, especially at preferred localizations like breast, belly, buttocks, thighs and upper arms

The standard supply of PAT Professional Adipositas Trainer consists of:

- Weighted vest with variable weight. Standard comes with a total weight of 9 kg, can be extended to maximum 18 kg
- Weighted trousers with variable weight. Standard comes with a total weight 4,5 kg, can be extended to maximum 9 kg.
- Weight of vest will fit trousers and opposite.
- Volume suit (Unisex), washable, including outer wear.
- Rugged trolley bag for transport and storage (volume suit is stored outside)
- Instructions for use
- Ref.no. 8001 unisex
- Ref.no. 8001M male
- Ref.no. 8001W female





1 EASI Empathic Age Simulator

This simulator was developed as a result of a long term research about age simulation. This suit imparts the main effects of aging, enabling you to change your point of view to reach your educational goals. EASI will help you if you work with aged people and you want to understand their view of the world around them. Or if you want to understand the needs of your aged customers and consider them in your business.

It provides:

- Increased gravity experience because of reduced muscle strength because of aging (physiological after an age of 30)
- Changes in sense recognition especially in the fields of vision and hearing as well as ability in grasping and walking
- Progressive limitation of movement especially in the area of spine as well as shoulder and hip area.

The EASI Empathic Age Simulator consists of:

- A visor with exchangeable simulation foils (cataract, glaucoma and ARMD). Foils can be exchanged quick and easy by magnetic system.
- Weighted vest and shorts, adjustable to size and grade of handicap.
- Weighted shoes and gloves, size adjustable
- Modular rubber connections between head and trunk as well as arms and trunk. Adjustable to grade of handicap.
- Rugged trolley bag for transport and storage
- Instructions for use of the simulator
- Hemiparesis – module under development, will be available as an option soon
- Ref.no. 8002



1 Age simulation Set

This unique set gives the opportunity to experience the inconvenience caused by aging. Joint restrictors, weights, fixators, ear plugs and goggles limit the abilities of the trainee in a way, that physical limitations of older people can be experienced very realistic. This impressive demonstration should be used in any medical education. It makes the students understand the problems of older patients and react appropriate.

■ Ref.no. LM60

2 XL version for people over 175 cm height or bigger body shape

■ Ref.no. LM102 (not pictured)



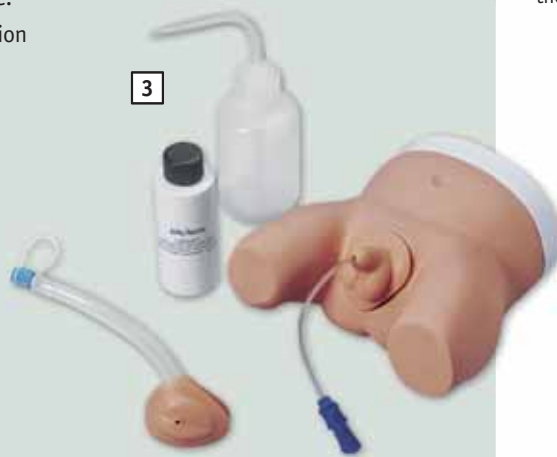
3 Infant male and female catheterization trainer

The Infant Male and Female Catheterization Trainer is an inexpensive 2-in-1 trainer that provides realistic practice of this difficult skills procedure.

- Practice insertion, position, catheter balloon inflation and deflation
- Feel resistance and pressure as with a real patient
- Urine flows when catheter is in proper position
- Practice both male and female infant catheterization training
- Anatomically realistic with both male and female genitals
- Genitals made of soft, lifelike material
- Replaceable male and female genitals
- Lower half of infant only

Includes: infant manikin, one male and one female genital insert, 2 oz. lubricant, infant Foley catheter, and instruction manual.

■ Ref.no. R10857



■ Gloves (left and right)

These gloves make the trainee feel loss of touch to the hands and fingers.

■ Finger restrictors (left and right)

These restrictors limit the movement of the finger joints, which makes the trainee clumsy.

■ Walking stick

Gives the experience how to support yourself with the stick.

■ Ear plugs (50 pairs)

The ear plugs block high frequency sounds, which makes the trainee experience presbycusis

■ Back protector

This protector restricts the posture of the trainee to force him/her to adopt a bent position specific to aging.

■ Restrictors for the elbows (left and right)

These restrictors limit the motion of the elbow joints to make the trainee experience sluggish arms.

■ Weight for the wrists (left and right)

These weights are loaded to the wrists to make the trainee experience the loss of the arm muscle strength.

■ Restrictors for the knee joints (left and right)

These restrictors limit the motion of the knee joint to make the trainee experience sluggish legs.

■ Ankle weights (left and right)

These weights are loaded to the ankles to make the trainee experience the loss of leg muscle strength

■ Goggles

These goggles make the trainee experience the changes in visual function such as the loss of the peripheral vision and the changes in visual function due to cataract.



1 Realistic Urinary Bladder – Catheterization – Training models Henri and Florence

Named after historical figures Henri Dunant and Florence Nightingale, our professional training models realistically simulate and educate on proper transurethral bladder catheterization in both the male and female human.

Their namesake represents our appreciation for important milestones in medical innovation and our commitment to setting new standards for patient care education.

The pelvic housing is modular, allowing for the use of both male and female genital inserts while strictly maintaining the unique anatomical position of each. The innovative bladder is designed to accommodate these different anatomies and guarantee an uninterrupted urethral path from meatus to bladder neck.

Both anatomical inserts are made with high quality materials that closely simulate real human tissues in both appearance and feel while also remaining strong and durable.

The shape of the bladder is specially designed to avoid the unrealistic resistance present in existing catheterization trainers. This helps prevent students from trying to “palpate” the back of the bladder as a way to correctly gauge insertion depth. The bladder also utilizes a new innovative type of valve, preventing unnatural resistance when the catheter enters the bladder. The bladder is also transparent, enabling the student the option to see the catheter’s position and depth. This provides excellent training on foley catheters as the user can actually watch the balloon inflate and be seated. The bladder connects easily to a provided fluid bag which provides natural “urine” flow following successful catheterization.

The male genitalia insert includes a replaceable foreskin, with extremely realistic mobility, to allow training of retraction, handling and other hygiene procedures. The model has the most realistic urethra of all currently available catheterization trainers in the market. All four zones of the urethra are represented with corresponding anatomical shape and resistance during catheterization. Also included is a strap which, when attached will simulate narrowing of the prostate due to BPH or prostate cancer. This module is an excellent to teach and show students exactly why the use of larger or more rigid catheter is critical in this situation.

The female genitalia insert is designed to require spreading the flexible labia in order to locate the urethral meatus. The female urethral opening is not immediately obvious and is located very close to the open vaginal canal highlighting the potential for unsuccessful catheterization. The urethra provides a realistic amount of resistance and feels life-like during catheter insertion.

This training model is available as combination with both genital inserts or as a male only or female only version. The inserts are also available for individual purchase so that customers can easily upgrade from a unisex model to a dual sex version.

Catheterization trainer with male genital insert „Henri” and female genital insert „Florence”.

■ Ref.no. 7030

2 Catheterization trainer with male genital insert „Henri”

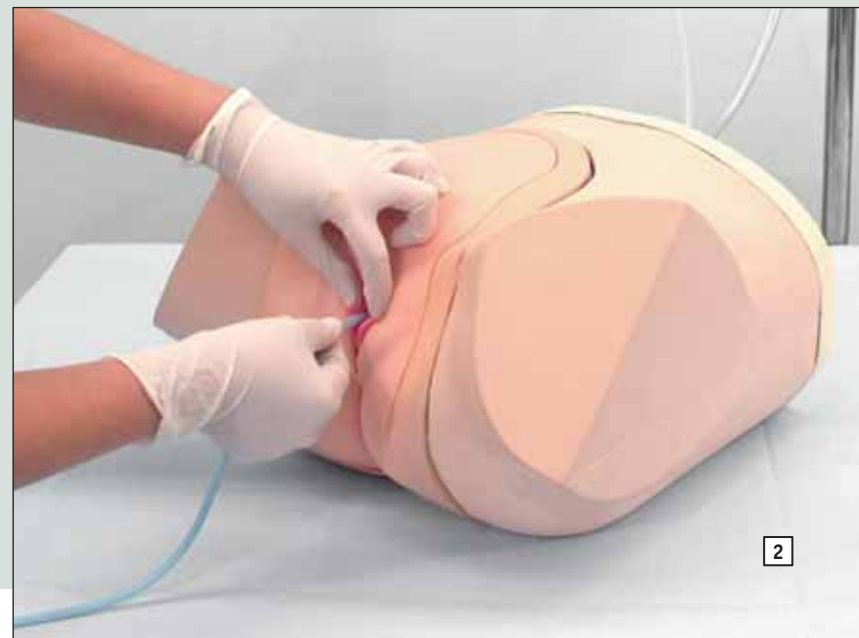
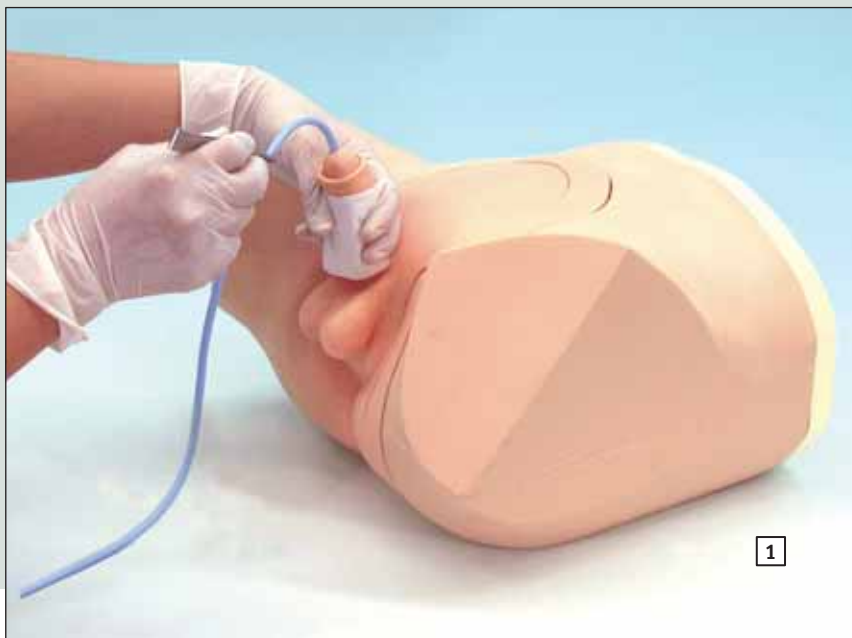
■ Ref.no. 7040

3 Catheterization trainer with female genital insert „Florence”

■ Ref.no. 7050







Catheterization / Enema Simulator

Basic high quality trainings in male or female: urethral catheterization, perineal care and enema.

Soft and anatomically correct genitals and realistic feeling of catheter insertion. Organ unit can be used independently without the lumbar torso, allowing training with simulated patients or full body manikins in clinical settings. The newly devised modular system realize easy set-up, cleaning and maintenance, saving time and cost for training providers.

1 Male version
■ Ref.no. R16630

2 Female version
■ Ref.no. R16640

The model can be used for training of:

- Intermittent catheterization
- Perineal care
- Location of urethral meatus
- Indwelling catheterization
- Enema
- Cleansing
- Catheter insertion and placement
- Withdrawal of catheter
- Manual bladder compression

Features:

- Soft genitals allows realistic cleansing and procedures like
 - parting the labia
 - holding the penis perpendicular to body
 - retracting the foreskin
- Successful catheter insertion is confirmed by urine (water) outflow.
- Manual bladder compression is possible.
- Enema training in lateral position.



1 Male catheterization and enema simulator

The simulator imitates the special shape of the urethral canal of a male patient. A urinary bladder catheter is inserted according to a suitable technique to reach the bladder. Reaching the bladder causes urine (water) to flow out. The feel of the penis is closely similar to that of a real human penis. Techniques such as disinfecting of surroundings of the urethral orifice and cleaning of the pubic area can be practiced. The main body can be separated at median line so that the shape of the urethra, the insertion position of the catheter, and the anatomical positional relationship can be studied.

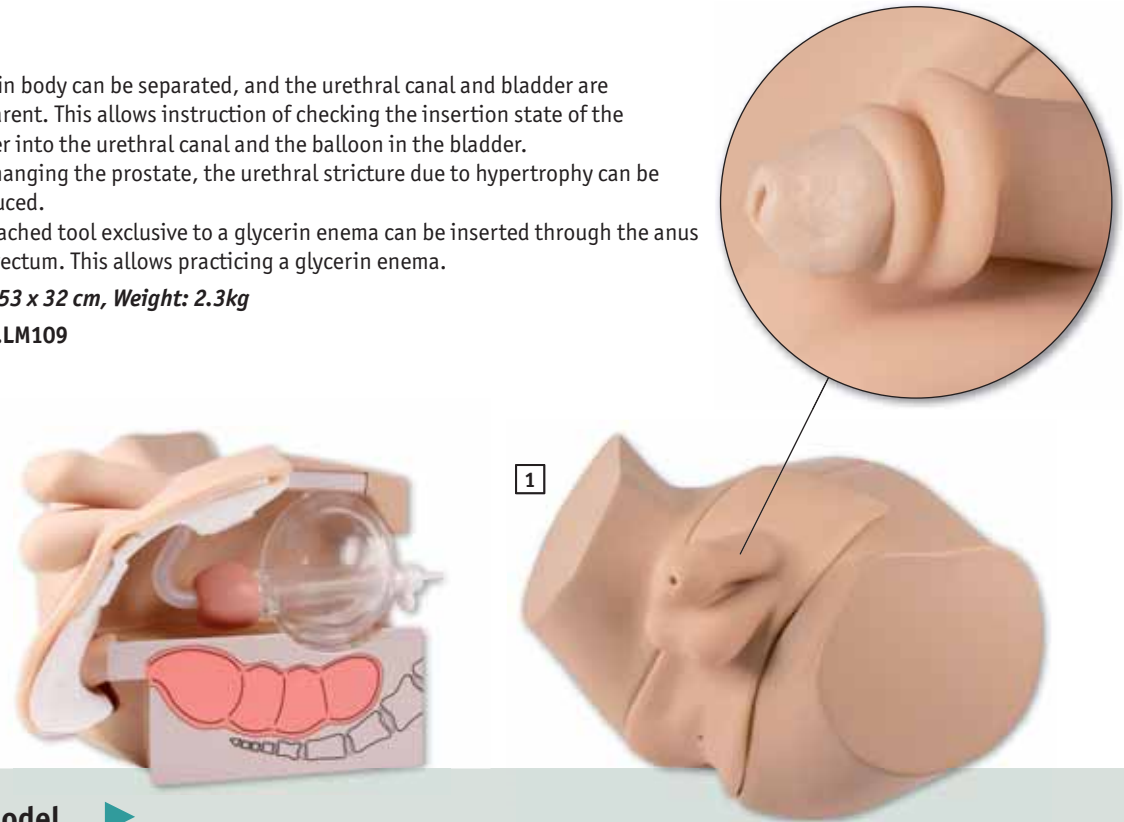
Features:

- The simulator is of actual size allowing the training of catheterization and glycerin enema for an adult male.
- Since soft and stretchable materials are used for the pubic area, the appearance and the feel are realistic when practicing.
- All techniques of catheterization, such as disinfecting of the pubic area, inserting, fixing, and removing the catheter, can be practiced.
- The simulator is shaped to imitate correct manipulation of the penis to allow passage through the urethra. Inserting the catheter will be difficult if the position of penis is not correct during insertion.
- Techniques, such as pulling back the foreskin, disinfecting and cleaning, can be performed.
- The movability of the penis is also close to that of a real human penis.
- This allows practicing to fix the penis.

- The main body can be separated, and the urethral canal and bladder are transparent. This allows instruction of checking the insertion state of the catheter into the urethral canal and the balloon in the bladder.
- By exchanging the prostate, the urethral stricture due to hypertrophy can be reproduced.
- The attached tool exclusive to a glycerin enema can be inserted through the anus to the rectum. This allows practicing a glycerin enema.

Size: 29 x 53 x 32 cm, Weight: 2.3kg

■ Ref.no.LM109



2 Female catheterisation model

What sets this model apart is its unparalleled realism in depicting the natural circumstances. The special plastic conveys to the user a realistic and lifelike feeling when inserting and removing the catheter. The urethra is designed to permit practicing catheterisation under real-life clinical conditions with normal catheters. A reservoir filled with fluid can be used to fill the simulated bladder, so that "urine" flows through the catheter once catheterisation has occurred. The external genitals are a natural casting in soft material, meaning the model is also suitable for practicing examinations and washing. Lower torso made of rigid plastic.

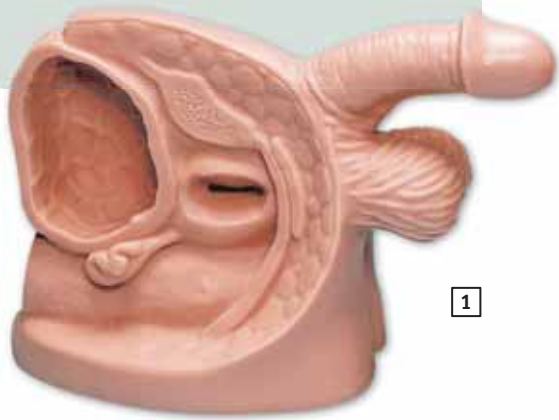
■ Ref.no. LM61

3 Female catheterisation model

Model as LM61, but without lower torso. This model can be used to be attached to a doll or person.

■ Ref.no. LM25





1

1 Male catheter model

Use this realistic catheterization model to practice the proper insertion of a lubricated catheter. May also be used for teaching anatomy and sterile cleansing techniques before, during, and after insertion. Male catheter model anatomy includes rectum, seminal vesicle, bladder, pelvic bone, prostate, urethral sphincter muscle, urethral meatus, glans, scrotum, pelvic diaphragm, and anus. Model uses any catheter size 16 FR or smaller. Model includes instructions with anatomy diagram, and a storage box.

■ Ref.no. R11002

3 Male & female catheter model set

■ Both models 1 und 2 in an economic priced set. Ref.no. R11004

2 Female catheter model

Use this realistic catheterization model to practice the proper insertion of a lubricated catheter. May also be used for teaching anatomy and sterile cleansing techniques before, during, and after insertion. Anatomy includes rectum, uterus, bladder, pelvic bone, urethral sphincter muscle, clitoris, urethral meatus, labium minora, vagina, labium majora, pelvic diaphragm, and anus. Model uses any catheter size 16 FR or smaller. Model includes instructions with anatomy diagram, and a storage box.

■ Ref.no. R11003



2

4 Catheterisation simulator, male

This simulator consists of a male abdomen and allows you to feel the pressure and resistance caused by the mucosal folds, bulbous urethra and the internal urethral sphincter, just prior to the entrance into the bladder. When the catheter enters the bladder, artificial urine (water) will flow through the catheter. Proper positioning and movement of the penis during the catheterisation can be easily practiced. Delivered with catheter, lubricant and transport case.

■ Ref.no. R10855

5 Catheterisation simulator, female

This simulator consists of a female abdomen and allows you to feel the pressure and resistance when a catheter is passed through the urethra and sphincter into the bladder.

When the catheter enters the bladder, artificial urine (water) will flow through the catheter. Realistically moulded external genitalia and perineum, labia minora, clitoris, urethral opening and vaginal introitus. Delivered with catheter, lubricant, carrying case.

■ Ref.no. R10856



4



5



2 Supplementary ears

This set includes 4 ears on which allow observation of the following pathologies:

- Chronic otitis media with large perforation
- Attic cholesteatoma (A)
- Attic cholesteatoma (B)
- Atelectatic middle ear otitis and tympanosclerosis

Size: 19.5 x 16 x 4.5 cm, **Weight:** 0.3 kg

■ **Ref.no.** R10029-1

3 Pneumatic Otoscopy Kit

This option offers an additional feature for the Diagnostic and Procedural Ear Trainer. While pneumatic otoscopy is indispensable for examination of the ear, studies have shown that most are performed incorrectly! Now with the valuable feedback offered by this kit, students, residents, and practicing physicians can learn how to generate the correct amount of air pressure needed to perform accurate pneumatic otoscopy to test for tympanic membrane mobility. Kit includes a pneumatic pressure gauge, two pneumatic ears with pressure tubing, and a package of approximately 100 eardrums.

■ **Ref.no** R10901

1 Ear examination simulator

This simulator allows practice in the examination of the ear. It consists of a head with 6 interchangeable flexible ears with lifelike external and internal structures. Embedded colored prints in 5 out of the 6 ears allow the diagnosis of various pathologies. One ear is not colored, but can be used for earwax removal exercises. The simulator is supplied with 2 tubes of synthetic earwax, nine 35mm slides (5 conditions as below plus 4 conditions of our supplementary set) and a carry-on-case. An otoscope is not included.

The following normal conditions and pathologies can be observed:

- Normal tympanic membrane
- Mucoïd otitis media
- Serous otitis media with fluid level
- Chronic otitis media with perforation
- Normal tympanic membrane with slanted ear canal

Size: 38 x 38 x 26 cm, **Weight:** 7.7 kg

■ **Ref.no.** R10029



4 Diagnostic and procedural ear trainer

Now with this new trainer, students, residents, and practicing physicians can master the skills needed to examine the human ear using visual cues, correctly diagnose common diseases, clean the ear canal, remove a foreign body, and perform a myringotomy with ear tube insertion. The Diagnostic and Procedural Ear Trainer is anatomically correct. Life-like right and left ears teach diagnostic and procedural techniques and are removable for easy maintenance and storage. For the ultimate in realism, the middle ear can be filled with various fluids. The instructor controls the color and consistency of the fluids. Another feature that brings this trainer as close to life as possible is the inclusion of nine diagnostic cartridges with full-colour photo prints illustrating:

- Normal tympanic membrane
- Mucoïd otitis media
- Serous otitis media with an air-fluid level
- Chronic otitis media with small and large tympanic membrane perforations
- Two views of attic cholesteatoma
- Atelectatic middle ear otitis
- Tympanic sclerosis

Trainer comes complete with two ears, approximately 100 pre-cut eardrums, specially formulated ear wax, one standard middle ear cartridge with syringe, adjustable stand, and a hard carry case. Otoscope, ventilation tubes, and surgical instruments are not provided.

Weight: 5 kg

■ **Ref.no.** R10900





1 Eye examination trainer

This simulator is an innovative teaching aid for fundus examination. By combination of slides, depth and pupil diameter 90 patient cases can be simulated.

Supplied slides include:

- Normal eye-ground
- Hypertensive retinopathy: arteriolar vasoconstriction grade 3, arteriosclerosis grade 1, hemorrhages and cotton wool spot, simple vein concealment.
- Simple/background diabetic retinopathy: microaneurysms, hemorrhages & hard exudates
- Papilloedema (chronic phase)
- Papilloedema (acute phase)
- Glaucomatous optic atrophy: glaucomatous optic disc cupping & nerve fiber bundle defect
- Retinal vein occlusion (acute phase): flame-shaped hemorrhage & cotton wool spots
- Retinal vein occlusion (after retinal laser photo-coagulation)
- Toxoplasmosis: retinochoroiditis
- Age-related macular degeneration: macular exudates & subretinal hemorrhage

The model is supplied completely with slide rack and slide duster.

An ophthalmoscope is not supplied with the model.

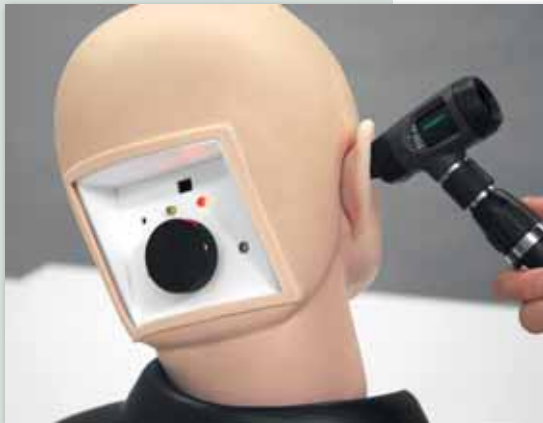
Size: 42 x 22 x 38 cm, **Weight:** approx. 2 kg

■ Ref.no. R16100





1



1 Ear examination Simulator

This simulator is perfect for training the examination of the external acoustic meatus and tympanic membrane. It is designed for training in distinguishing cases and also practicing earwax and foreign body removal. The simulator has a sensor, that recognized painful insertion of the otoscope. This can be displayed either with a sound or a light indicator. The light indicator is meant to be used in a test situation and is not visible for the student. The simulator comes with two sizes of auditory canals and 9 cases that can be switched easily.

The following cases are included:

- Normal
- Serous otitis media; SOM
- Mucoid otitis media; MOM
- Chronic otitis media with perforation
- Acute suppurative otitis media, AOM
- Cholesteatoma
- Tympanosclerosis
- Traumatic perforations
- Cerumen block

Supplied with simulated earwax, small toy and small sponge sphere for training of removing foreign bodies.

Size: 42 x 21 x 38 cm

Weight: approx. 1.5 kg

■ Ref.no. R16115



OtoSim2 - Ear examination simulator

Introducing the new standard of excellence in otolaryngology simulation and training technology.

This new simulator closes the learning feedback loop – it monitors the student progress through the instrumented otoscope.

It expands the student knowledge – the system includes access to 380 high-resolution images.

Increases Accuracy – OtoSim has been shown to improve diagnostic accuracy by more than 50%.

It maximizes the instructor's efficiency, up to 14 OtoSim units can be connected to one trainer laptop to efficiently instruct groups simultaneously.

Supplement classroom instruction – comes with 150 pre-annotated images accessible to students for self-directed learning.

Improve viewer retention – features immerse full-screen experience with easy-to-use graphical interface

Enhance student proficiency – includes series of advanced quizzes featuring randomized, realistic clinical scenarios that test both medical and patient interaction skills

Features:

- Detailed text description
- Large image library – over 380 images
- Annotated anatomical landmarks (150 images)
- Instrumented otoscope to track movement
- Realistic image projection
- Full screen viewing
- Live landmark annotation
- Advanced quizzes with clinical scenarios
- Anatomy quizzes
- Instrument use tests
- Feature identification modules
- Search function
- Multiplexing to up to 14 local units at once

Software content:

- Instrument use
- Feature Identification
- Pathology
 - External auditory Canal – acute otitis externa, cerumen, foreign bodies and more
 - Middle Ear – Normal tympanic membrane, temporal bone fractures, acute otitis media, serous otitis media, tympanocentesis, myringotomy and more
- Pneumatic otoscopy - simulated slides to enhance students pneumatic otoscopy skills – available with purchase of PneumatoSim add on only

Includes:

- Base unit
- Right earform + left earform
- Instrumented Otoscope
- Control box
- OtoSim2 Software
- Manual
- Protective hard case
- 1 year warranty

- 1 OtoSim2
■ Ref.no. R65100

- 2 Extended warranty for OtoSim2, 2 years
■ Ref.no. R65100A

- 3 Extended warranty for OtoSim2, 3 years
■ Ref.no. R65100B

Available accessories:

- 4 Paediatric Earform
■ Ref.no. R65103



▼ **1 OtoSim Educators Toolkit, Software Upgrade**

Software add-on to OtoSim2 for customized education sessions and mass training. Features include ability to upload and pre-annotate your own images, customize your lecture slides, connect, lead and monitor an unlimited number of OtoSim users to enable distance learning

■ Ref.no. R65102



▼ **2 PneumatoSim add-on**

Kit includes Pneumatic Ear with pressure hose, Pneumatic Otoscope, PneumatoSim Software with Manual on USB Key, 1 year warranty, protective case

■ Ref.no. R65101

3 Extended warranty for PneumatoSim, 2 years

■ Ref.no. R65101A

4 Extended warranty for PneumatoSim, 3 years

■ Ref.no. R65101B



OphthoSim – Eye examination simulator

Immersive Learning Platform redefines Ophthalmoscopy Training.

OphthoSim is a hand-on simulation system that radically transforms how students learn to diagnose and treat eye pathologies. Its proprietary software and accompanying tools empower students to actively diagnose real-world eye conditions within a simulated environment.

Superior Learning Outcomes & Efficacy:

Close the learning feedback loop – monitor student progress through the instrumented ophthalmoscope, as students practice technique and identify retinal features.

Increase Accuracy – OphthoSim works with the OtoSim Otoscopy training and simulation system, a platform shown to improve diagnostics accuracy by more than 50%

Expand student knowledge – system includes access to 200 high-resolution images

Improve viewer retention – OphthoSim offers an immersive full-screen experience with an easy-to-use graphical interface

Broaden student capability – system comes with a series of advanced quizzes featuring randomized, realistic clinical scenarios that test both medical and patient interaction skills.

OphthoSim Key features:

- OphthoSim Ophthalmoscope – detects user movement and orientation
- Realistic OphthoSim Eye geometry – replicates the magnification of lens in the human eye and different clinical conditions
- OphthoSim Software:
 - OphthoSim Content – Includes training and testing modules to practice and evaluate ophthalmoscopy technique
 - Landmark Function – Allows instructor to highlight specific characteristics of pathologies in the region student is viewing
 - Proprietary Database of Images – Supplemented with detailed text descriptions and images are pre-annotated for normal landmarks and pathological features
- Featured Content and Materials:
 - History of Ophthalmoscopy
 - Examination Principles & Technique
 - Instrument Use
 - Retinal Feature Identification
 - Pathology: Papilledema, Diabetic Retinopathy, Glaucoma, Choroidal Rupture, Macular Degeneration and other ocular irregularities.
- Self Examinations
- Examinations

OphthoSim includes:

Base Unit, Eye piece, Instrumented Ophthalmoscope, Control box, Software package & manual on USB Key, Protective hard case, 1 year warranty



1 OphthoSim ▶

■ Ref.no. R65200

2 Extended warranty for OphthoSim, 2 years

■ Ref.no. R65200A

3 Extended warranty for OphthoSim, 3 years

■ Ref.no. R65200B

4 OphthoSim Upgrade Kit for OtoSim

You already have an OtoSim2 Unit? If you purchase this upgrade kit you can convert the OtoSim2 Unit into an OphthoSim. Kit includes required hardware and software.

■ Ref.no. R65201

Extended warranty for OphthoSim Upgrade Kit, 2 years

■ Ref.no. R65201A

Extended warranty for OphthoSim Upgrade Kit, 3 years

■ Ref.no. R65201B





1 Blood pressure training system

The Blood Pressure Training System includes a full-size adult left arm that may also be attached to some of our nursing manikins. This is a versatile training tool developed to assist health professionals teach the processes and skills required to perform blood pressure auscultation procedures and techniques.

Features

- Full size left arm that may also be attached to some manikins
- Programmable, palpable radial pulse when cuff pressure is less than the selected systolic blood pressure
- Korotkoff sounds K1 through K4 (K5 is silence) audible between systolic and diastolic pressures
- Korotkoff sounds automatically silenced if auscultation gap is selected
- Korotkoff sounds automatically adjusted depending upon selected heart rate and the rate of cuff deflation
- Conventional stethoscope to auscultate Korotkoff sounds in the antecubital area
- Programmable Blood Pressure Auscultation Tutor
- Adjustable systolic and diastolic pressures
- Adjustable auscultation gap
- Adjustable pulse rate
- Display tracks cuff pressure
- Optional speakers with volume control allow students to hear what the individual student hears while using the stethoscope
- Soft carrying bag
- Instruction manual
- **Ref.no. R11200**

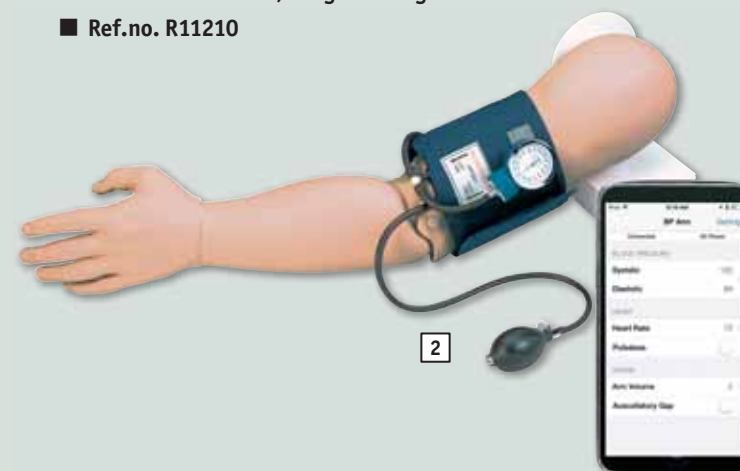


2 Blood pressure simulator w/iPod® technology

iPod® user interface in a training device for teaching blood pressure skills. This standalone unit incorporates sphygmomanometer placement, palpation of the radial pulse, variable systolic and diastolic pressures from 0-300 mm Hg in two mm increments, variable amplitude of sound heard at the antecubital site, sound jack for group listening, auscultatory gap setting, and heart rate settings. This battery operated trainer can be plugged into AC to save batteries. The trainer comes with an iPod®, AC adapter, BP cuff, and a carry bag.

Size: 89 x 35.6 x 23 cm, Weight: 7.7 kg

■ **Ref.no. R11210**



1 Advanced Oral Care Simulator

The life-like oral cavity and the denture with tooth disease provide oral care training which is close to the clinical practice.

Features:

- The Advanced Oral Care Simulator has an anatomically correct oral cavity, trachea, esophagus and replacement dentures.
- Denture with tooth diseases provides training in assessment and care of the oral cavity.
- The patient conditions and positions can be set easily.
- This simulator allows for training in realistic oral cleaning procedure using simulated residue.
- This simulator allows training using water, and also training of suction.

Training Skills:

- Care of gingiva
- Brushing of teeth
- Removal of coat on tongue
- Care for moist retention
- Replacement and maintenance of the denture
- Understanding of airway suction

Oral Anatomy and Tooth Problems:

- Spaced arch
- Food residue
- Anodontia
- Stomatitis
- Isolated tooth
- Coated tongue
- Crowding
- Gingival recession
- Root fracture
- Stump of a tooth

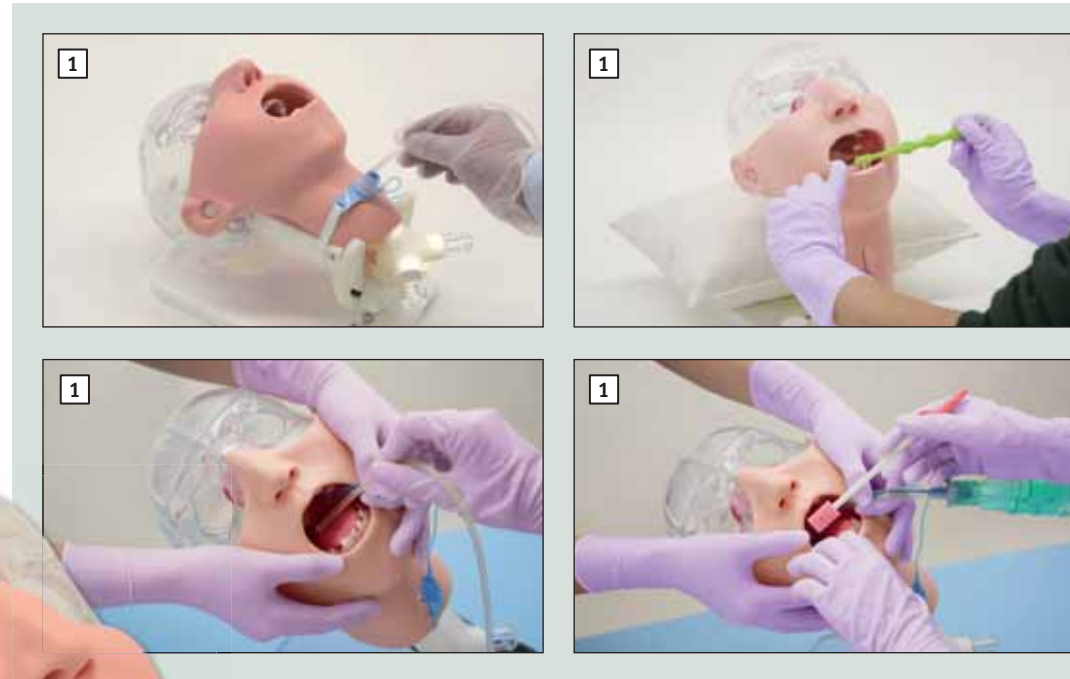
Patient Conditions:

- Complete denture
- Dental problems
- Toothless
- Intratracheal intubation
- Tracheotomy
- Tube feeding

Patient Positions:

- Sitting position
- Half sitting position
- Lateral position

■ Ref.no. R16229





1 Auscultation simulator

An invaluable teaching aid to study heart diseases, especially those that students or doctors do not hear very often during their practical work. This model is the first one in the world to simulate the characteristic changes in heart sounds and murmurs associated with uncommon heart conditions. The simulator reproduces 20 different heart sounds at 4 positions (aortic, pulmonic, tricuspid, and mitral valves) as well as 10 different respiratory sounds at 3 positions. All sounds can be heard by using a stethoscope. The heart rate can be adjusted. Consists of a soft-skin torso, a smartscope and a digital remote control with English display.

Size: 62 x 43.5 x 27.5 cm, **Weight:** 12.6 kg

■ Ref.no. R10001



2 Smartscope

Additional Stethoscope for trainer R10001.

■ Ref.no. R10002



Auscultation upgrade kit for GERI/KERI manikin

Geri/Keri manikins can be found on [page 174/175](#). This Kit makes your existing GERI/KERI manikin an auscultation trainer. By replacing the torso of the manikin it has the same features as the trainer R10001 (see above). Supplied with remote control and smartscope.

3 For GERI
■ Ref.no. R10032

4 For KERI
■ Ref.no. R10033



5 Speaker for auscultation trainer

If this speaker is connected the heart and lung sounds can be heard by the whole class or group. With Amplifier.

■ Ref.no. R10003



2 **Child heart and lung sounds auscultation trainer**

This self-contained heart and lung sound generator delivers site specific sounds of a four-year old, delivered through ten lung speakers and a heart speaker located in the normal auscultation sites for pediatric assessment. The use of speakers in these locations enables the use of any stethoscope without incurring additional cost for special equipment. The unit can be run using the special handheld remote control. An external speaker jack supports broadcasting the sounds during your classroom introduction to lung and heart sounds, or you can use it for audible testing more than one student at a time. A selector control allows classroom broadcasts of speakers in specific locations so that students hear precise sound anomalies encountered when they auscultate the manikin. No programming installation is required. The unit comes with a power cord, user reference, and carry case.

■ Ref.no. R11000

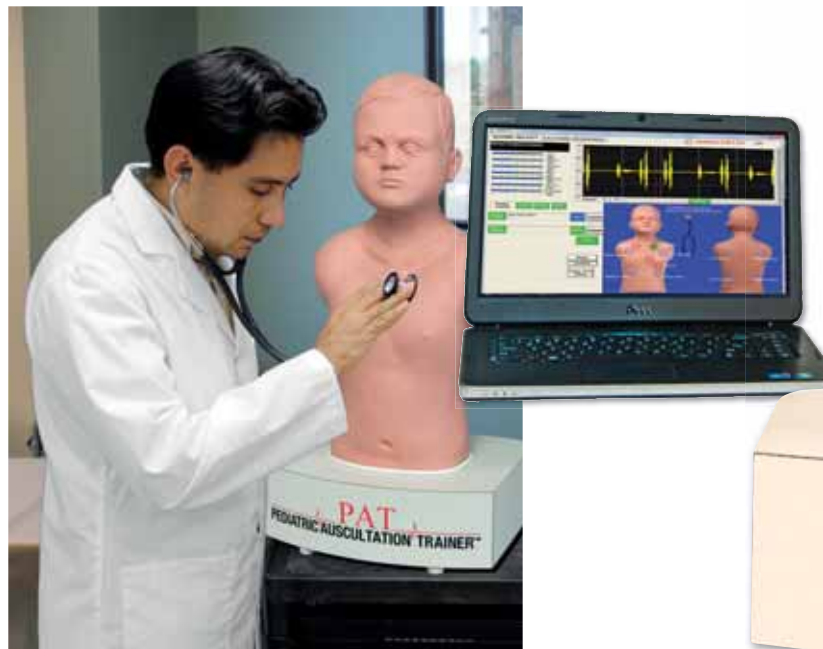
1 **PAT**

PAT, the Pediatric Auscultation Trainer has listening points at the correct anatomical locations, as well as heart sounds at different rates for comparison (Example: Atrial Septal Defect at 75bpm and 90 bpm). PAT provides interactive instruction and learning in all educational environments.

Sounds Library includes 44 different heart sounds at different rates for comparison. Extensive library even includes Eisenmenger's Syndrome, Ebstein's Anomaly and Venous Hum.

Also includes 17 Pediatric Lung Sounds, 4 Heart/Lung sounds, palpation and 3 Pediatric Bowel Sounds.

- Lightweight and portable
- Students use their own Stethoscope
- Variable heart and respiration rate
- Phonocardiogram
- Smart classroom/auditorium ready
- Customized volume adjustments
- Online student learning and assessment modules
- Ref.no. R60001



1 SAM 3G - The Student Auscultation Manikin - 3rd Generation

SAM – the Student Auscultation Manikin is an innovation in teaching and learning heart, lung, and bowel sounds. SAM's brand new computer software interface includes Case Videos, a Real Sound Library, Echo Cardiogram Videos, and ECG Waveform for heart sounds. Case Videos contain patient and clinical interactions for various conditions. Users can watch a video and practice listening to the SAM for a life like simulation. Users can also create and save their own case videos. The Real sound library contains sounds recorded from live patients. Echo Cardiogram videos associated with various heart conditions are recorded from live patients. An ECG waveform is displayed with various heart sounds to help identify S1.

Features:

- Includes Case Videos
- Real Sound Library
- Echo Cardiogram Videos
- ECG waveform for heart sounds
- New and easily navigable software program
- Brand new manikin look
- Lightweight and Portable
- Students use their own Stethoscope
- Large Library of Sounds
- Carotid Pulse
- Phonocardiogram
- Smart Classroom/Auditorium Ready
- Lesson Guide Included
- Sam Online Site License included

Containing the largest high quality sound library available, SAM is a portable and easy to use manikin. While SAM is used in many simulation centers, it is also easily moved into a classroom or auditorium for group instruction. SAM's computer software interface is easily projected into any smart classroom. With programmable and password protected lectures, many institutions find value in having numerous instructors utilize SAM.

■ Ref.no. R60003

2 SAM II – Student Auscultation Manikin – 2nd Generation

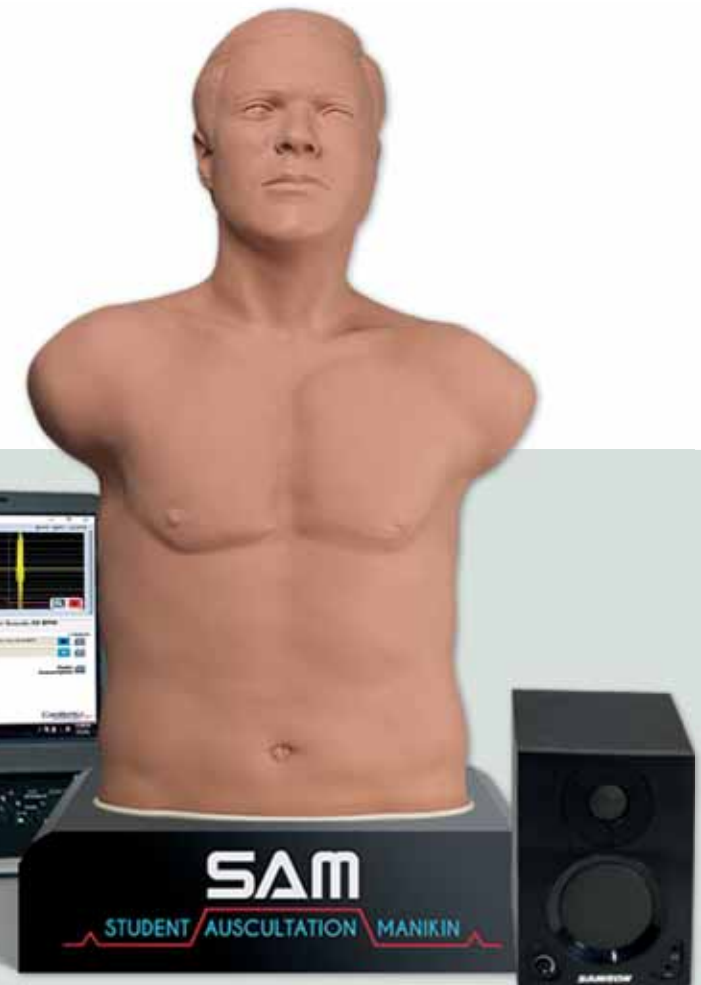
This version of Sam is used all over the world with very good success. It has the same software and features as SAM 3G, but without the real sound library, the case videos and the echocardiogram videos for various heart sounds.

■ Ref.no. R60000

Accessories:

Wide frequency range speaker for SAM 3G and SAM II classroom use.

■ Ref.no. R60003A



1



SimScope - the hybrid simulator ►

The SimScope Hybrid Simulator turns any manikin or real person into an auscultation trainer. It is perfect for real-time standardized patient interaction and assessment.

With the SimScope WiFi version, users are able to utilize wireless communication between the Simscope and their computer allowing them to seamlessly select and change the pathological sounds and conditions of any standardized patient, O.S.C.E. or low-fidelity manikin.

Simply fix the patches at the typical auscultation locations and program the SimScope. If the student places the SimScope over a patch, the programmed sound will be audible in the SimScope.

- SimScope Patches are customizable and easily programmable to let specific diagnostic case studies. Matching the appropriate sound to the correct anatomical location enables authentic standardized patient interaction and student assessment in a variety of educational scenarios.
- SimScope software and proprietary sounds library of simulated heart, breath, bowel, and bruit sounds provide real time practice and mastery of standardized patient interaction.
- SimScope plays the programmed heart, breath and bowel sounds specific to each correct anatomical location enabling a realistic standardized patient encounter. Up to 20 patches may be programmed and simultaneously activated with heart, breath, bowel, and bruit sounds to simulate real time auscultation during a physical exam.

1 SimScope

- Ref.no. R60005

2 SimScope WiFi

- Ref.no. R60010

3 Additional patches, pack of 15pcs

- Ref.no. R60005A



4 SimShirt System

The SimShirt is a garment worn by a Standardized Patient (SP) for simulating physiological conditions to test students and examine their diagnostic and procedural skills. SimShirt provides a second choice to wearing the RFID sensor tags required by the SimScope. Instead of wearing individual RFID sensor tags adhered to bare skin, the tags are integrated inside the SimShirt. The SimShirt system has multiple uses in simulation. It can be worn by a Standardized Patient or also by a high-fidelity manikin. You can program the SimScope to play desired sounds from our vast sound library which is already embedded in the SimScope tablet. Once the standardized patient wears the SimShirt, the SimScope will read the RFID sensor tags placed within the SimShirt and your students will hear the programmed sounds of your choice through the scope. Customers who already own a SimScope can separately purchase several SimShirts or the tablet for their simulation labs.

Features:

- Simple one-on-one Student/Patient interaction
- No standardized patient training required
- Ideal for Standardized Patients & OSCE programs
- Listen at anatomical correct auscultation sites
- Reusable and washable
- SimShirt available in various sizes

Sim Shirt system consists of SimShirt, SimScope, and tablet with software

- Ref.no. R60012

SimShirt

- Ref.no. R60015

Tablet with Software

- Ref.no. R60016



1 SimSuit System

A Hybrid Simulation Solution for Standardized Patient Assessment.

The SimSuit is a garment worn by a Standardized Patient (SP) for the purpose of simulating physiological conditions to test a Student or an examiner's diagnostic and procedural skills. The SimSuit, controlled wirelessly by simulation software, enhances the exam performance by responding in real time to diagnosis and treatment while providing feedback to the SP and instructor

Used in conjunction with the SimScope™ Wifi, instructors can adjust and adapt the suit scenarios to fit many conditions wirelessly. Featuring 5-wire EKG connections, pulse points, blood pressure cuff accessory, as well as auscultation capabilities, the SimSuit is capable of recreating many simulated medical situations to supplement almost any curriculum.

Includes: Suit, SimScope, Software. Computer not included.

■ Ref.no. R60060



2



3



The SAM BASIC™ and The PAT BASIC™ trainers

engage the technology of the SimScope™ stethoscope to simulate adult or pediatric heart, lung, and bowel sounds utilizing a large sounds library. Using the provided SimScope™ stethoscope, users are able to access a large variety of pathological conditions in order to customize scenarios.

- Utilizes the extensive Cardionics proprietary heart, lung, bowel, and bruit sounds library
- Listen at anatomically correct auscultation sites
- Easy to use
- Portable and lightweight
- Customizable to fit specific scenarios and programs
- Wifi upgrade available allowing for remote selection of sound Scenarios

2 SAM basic, adult model

■ Ref.no. R60004

3 PAT basic, child model

■ Ref.no. R60002



1 SimulScope Auscultation - System

The SimulScope allows physicians and students the ability to hear live physiological sounds with up to 20 other people at the same time. The SimulScope provides less intrusion on patients as only one stethoscope is placed on him or her. It is also effective in the simulation lab or classroom when used with simulators or manikins. Changing from low frequency to high frequency is easy with the SimulScope. Landmarks are provided on the unit to indicate best settings for both heart and breath sounds. Using a HeartMan Infrared Headphone, up to 20 listeners can engage simultaneously. The stethoscope attached to the SimulScope acts as a receiver of sounds, the SimulScope acts as a broadcasting unit, and the HeartMan headphone acts as a receiver projecting sounds into the ear through binerals. This FDA approved product is popular in both universities and hospitals.

The product includes: 6 HeartMan Infrared Headphones, 1 Stethoscope Assembly, 1 Power Supply for Charging the Battery, SimulScope Carrying Case

■ Ref.no. R60050

Heart Man Stethoscope

■ Ref.no. R60051



2 Classroom Infrared Emitter

The Classroom Infrared Emitter is designed to provide simultaneous listening for a classroom or simulation lab full of students. Many institutions find value in utilizing the Classroom Infrared Emitter with high priced manikins and simulators, allowing each student greater interaction with the sounds of the manikin or simulator. An added feature for the Classroom Infrared Emitter is the ability to connect up to two additional CIEs to increase room coverage. Up to 30 to 90 students can interact with the Classroom Infrared Emitter while wearing HeartMan Infrared Headphones. The Classroom Infrared Emitter is line-operated. The sound clarity is very similar to a standard stethoscope. The Classroom Infrared Emitter is often used with SAM II, the Student Auscultation Manikin. The Classroom Infrared Emitter can be utilized by any manikin or simulator with a sounds output.

■ Ref.no. R60030



3 Auditorium Infrared Sound System

The Auditorium Infrared Sound System is designed to provide simultaneous listening for larger classrooms or auditoriums with 30+ students in conjunction with HeartMan Infrared Headphones. Many institutions find value in utilizing the Auditorium Infrared Sound System with high-priced manikins and simulators, allowing each student greater interaction with the sounds of the manikin or simulator. A voice-over system allows the instructor's voice to be heard with HeartMan Headphones.

■ Ref.no. R60040

▼ 1 E-Scope Hearing Impaired

The E-Scope, Electronics Stethoscope – Hearing Impaired Model can amplify sounds up to 30 times louder than an acoustic scope.

This E-Scope can be used with multiple-style headphones. A 3.5mm (1/8") mono-sound output jack on the top of the stethoscope connects the headphones to the E-Scope (pictured).

Our headphones allow the user to leave their hearing aid(s) in place while listening. The headphones go over the top of their ear canals or ear molds thus not interfering with the hearing aid(s). This E-Scope is successfully being used with In-the-Ear (ITE), CIC, and Behind-the-Ear (BTE) hearing aids with these headphones.*

The E-Scope has a control filter switch which allows the user to concentrate on heart or breath sound frequencies within a specific range. The control buttons are conveniently located on the head of the stethoscope. Volume is also controlled on the head of the stethoscope. The E-Scope is designed to remain at the same volume setting each time you power on and has 64 possible volume positions with the maximum output of 125 dB, undistorted.

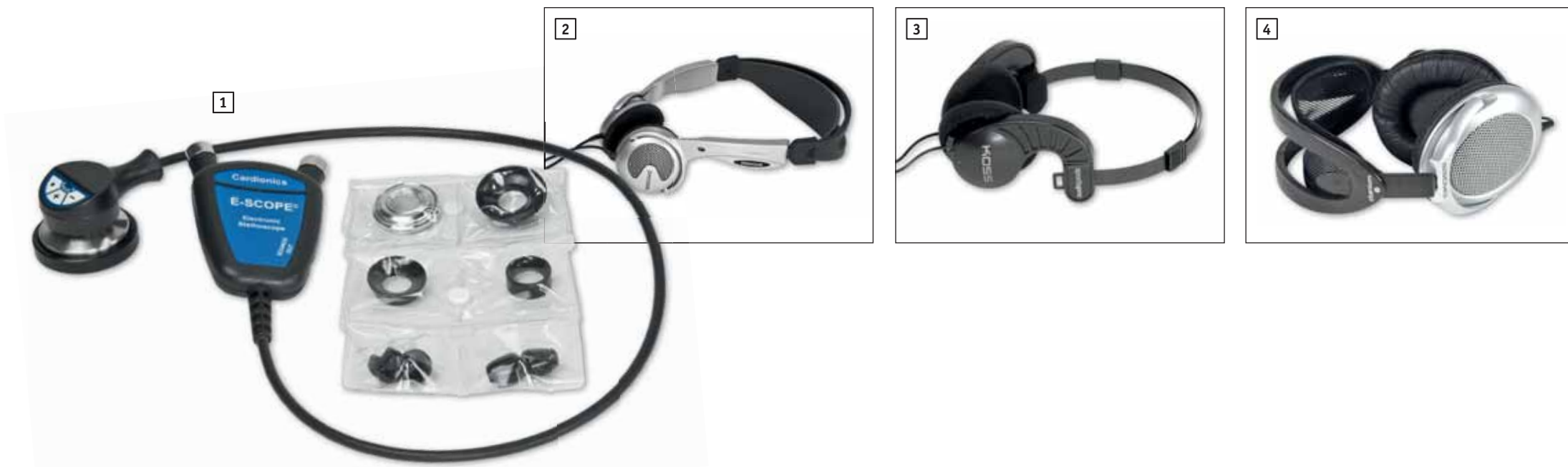
* BTE hearing aids will need to be adjusted by an audiologist for optimal use – increasing the gain of low frequency improves heart sounds. They will need to disable automatic noise reduction.

Features:

- Used with hearing aid or hearing impairment
- One hand control over volume adjustments
- Specialist adult diaphragm
- Automatic shut off after 1.5 to 2 minutes
- USB side output jack
- Battery operated (single AAA battery)
- Supplied with accessory pack
- **Ref.no. R60025**

Accessories:

- 2 **Standard Low frequency headphones**
■ **Ref.no. R60025-1**
- 3 **Convertible style low frequency headphones**
(bridge can be worn over or behind head)
■ **Ref.no. R60025-2**
- 4 **Over-Ear style low frequency headphones**
(works well in noisy environment)
■ **Ref.no. R60025-3**





1 Clinical E-Scope ▶

The E-Scope, Electronic Stethoscope can amplify sounds up to 30 times louder than an acoustic scope. This allows the user to listen in a traditional way with increased volume. The E-Scope is being use around the world in general clinical practice, by hearing impaired nurses and MDs, for research purposes, to record patients for use in electronic medical records, and for telemedicine.

The E-Scope has a control filter switch which allows the user to concentrate on heart or breath sound frequencies within a specific range. The control buttons are conveniently located on the head of the stethoscope. Volume is also controlled on the head of the stethoscope. The E-Scope is designed to remain at the same volume setting each time you power on. There are 64 possible volume positions with the maximum output of 125 dB, undistorted.

■ Ref.no. R60020



1 Pediatric lumbar puncture simulator

Infants commonly require lumbar puncture as a diagnostic procedure used to collect a sample of cerebrospinal fluid (CSF), measure cerebrospinal fluid pressure, or to inject medications intrathecally. The Pediatric Lumbar Puncture Simulator represents a 10-12 month old infant placed in a left lateral decubitus position with the neck and knees flexed, approximating the necessary fetal position. The embedded iliac crest offers exceptional realism, while the removable spine, spinal canal and skin pad make training simple and hassle-free. Lumbar puncture may be performed in the L3-L4, L4-L5, or L5-S1 spaces. The correct site can be located by palpating the iliac crest and spine. A small “give” will be felt as the spinal needle is advanced slowly into the proper space. Fluid will flow when the needle is in proper position. Students will appreciate the opportunity to practice this delicate but commonly performed procedure on a simulator that is both appealing and anatomically accurate.

Benefits:

- Targets key skills specific to pediatric lumbar puncture procedures
- Palpation of landmarks
- Skin preparation
- Needle positioning and insertion
- Cerebrospinal fluid collection
- Measure cerebrospinal fluid pressure
- Intrathecal injections



Features:

- Anatomically correct and palpable
- Correct body positioning
- Lumbar pad is easy to replace
- Realistic resistance
- Simulated CSF flows with successful puncture

The Pediatric Lumbar Puncture Simulator arrives attached to a board for stability during practice. The infant measures 48 x 18 x 15 cm and the board measures 50 x 30 cm. Includes the Pediatric Lumbar Puncture Infant on a sturdy board, one lumbar puncture pad with spine and spinal tubing, IV bag with tubing, baby powder, hard carry case, and instruction manual. Fluid supply stand and needle not included.

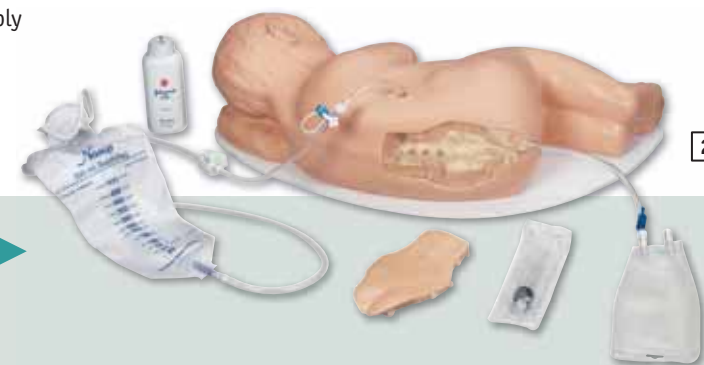
- Ref.no. R11031

2 Pediatric caudal injection simulator

Caudal block is widely used as a safe, easy, and effective method of regional anesthesia in pediatric surgery. This unique dual purpose simulator represents a 12-month-old infant in the left lateral decubitus position with neck and knees flexed. Retaining all the functions of the Pediatric Lumbar Puncture Simulator R11031, the Pediatric Caudal Injection Simulator also includes an anatomically correct coccyx with sacral hiatus for the most realistic practice possible. Features include embedded iliac crest for exceptional realism, removable spine, tactilely correct spinal canal, and two soft skin pads — one transparent for preliminary anatomic study, and one opaque for more advanced hands-on training. Fluid flow provides immediate feedback on proper needle placement for either procedure. Students will appreciate the opportunity to practice these two important procedures on a single simulator that is both appealing and anatomically accurate.

Benefits:

- Targets key skills specific to pediatric lumbar puncture and caudal injection procedures
- Palpation of landmarks
- Needle positioning and insertion
- Cerebrospinal fluid collection
- Measure cerebrospinal fluid pressure
- Intrathecal injections
- Practice two procedures with one simulator



Features:

- Anatomically correct and palpable
- Correct body positioning
- Skin pad is easy to replace
- Realistic resistance
- Simulated CSF flows with successful puncture
- Transparent skin pad allows visualization of landmarks
- Immediate feedback for proper needle placement

The Pediatric Caudal Injection Simulator arrives attached to a board for stability during practice. The infant measures 51 x 18 x 15 cm and the board measures 56 x 25 cm. Includes the Pediatric Caudal Injection Infant on a sturdy board, two skin pads with spine and spinal tubing, IV bag with tubing, baby powder, hard carry case, and instruction manual. Fluid supply stand and needle not included.

Weight: 10 kg

- Ref.no. R11032

Replacement Kit

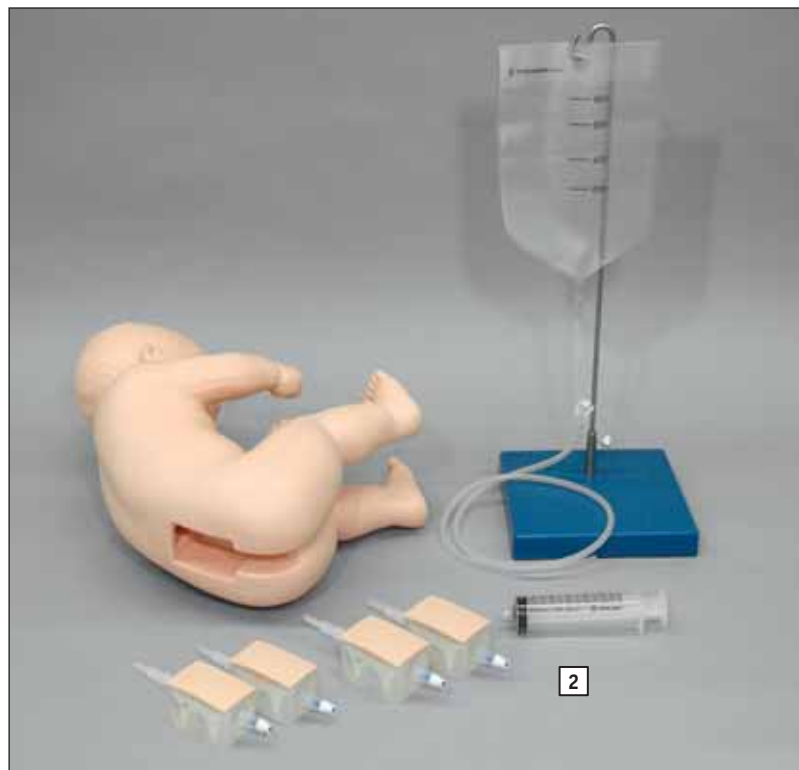
- Ref.no. R11032A



1 Baby stap

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

- Lateral decubitus position, upright position
- Realistic interchangeable spine with spinal cord may be palpated for location of correct puncture site
- Fluid may be infused
- Ref.no. R10105



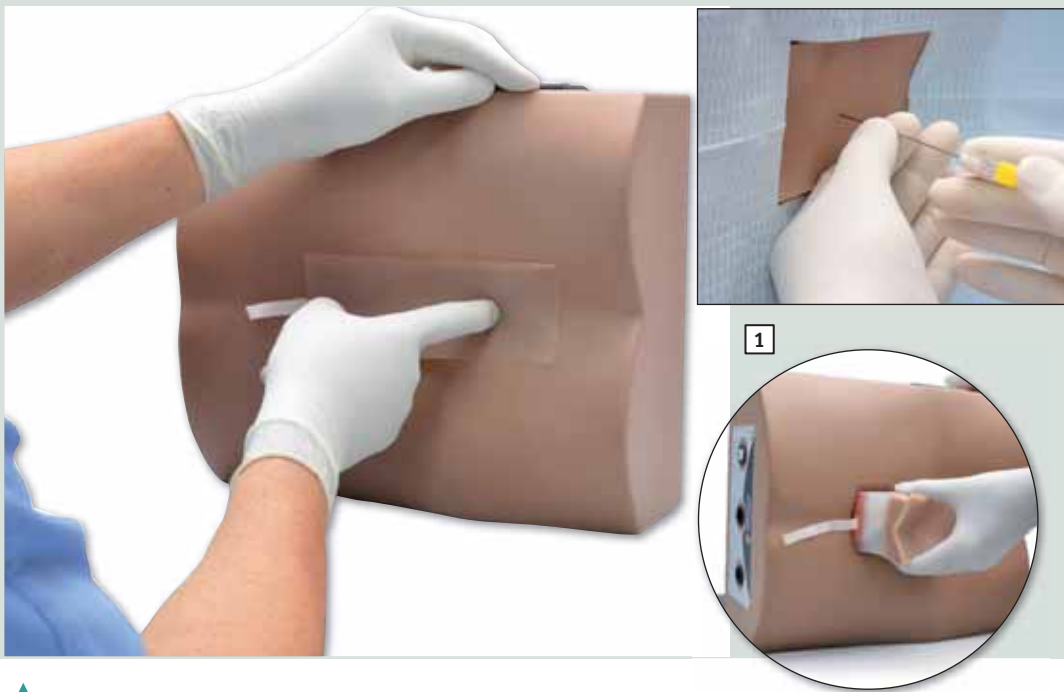
2 Paediatric lumbar puncture simulator

This Lumbar Puncture Simulator has been designed by medical education experts to enhance formal LP procedural skills training and assessment. It allows students and medical professionals to practice frequently and achieve high levels of procedural competence without placing any patients at risk of harm.

Features:

- Closely simulates the lumbar anatomy including the anatomical landmarks.
- Provides life-like sensation of both skin and tissue resistance to the spinal needle.
- Allows students to both collect CSF fluid and measure CSF fluid pressure under clinically realistic conditions.
- The transparent puncture block allows direct observation of both the anatomy and the spinal needle path.
- Ref.no. R16608





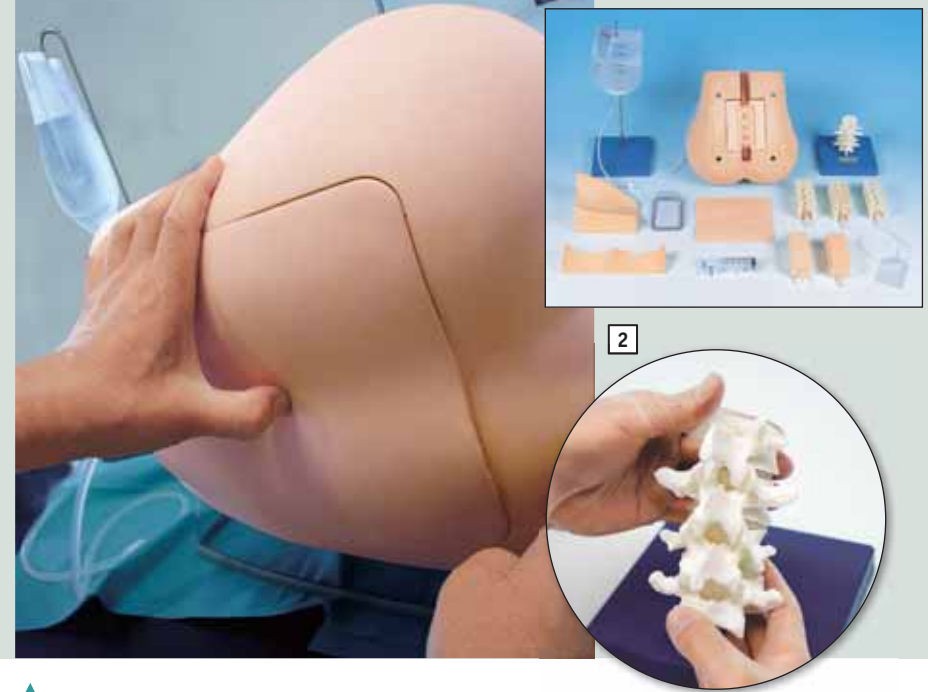
1 Lumbar puncture trainer

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

■ Ref.no. R11030



2 Lumbar puncture simulator

This Lumbar Puncture Simulator has been designed by medical education experts to enhance formal LP procedural skills training and assessment. It allows students and medical professionals to practice frequently and achieve high levels of procedural competence without placing any patients at risk of harm.

Features:

- Closely simulates the lumbar anatomy including the anatomical landmarks.
- Provides life-like sensation of both skin and tissue resistance to the spinal needle.
- Allows students to both collect CSF fluid and measure CSF fluid pressure under clinically realistic conditions.
- Comes with a separate anatomical model of the lumbar spine to facilitate anatomical understanding.
- The transparent puncture block allows direct observation of both the anatomy and the spinal needle path. Six blocks included. 2 normal CSF, 1 obesity CSF, 1 senior CSF, 1 senior obesity CSF, 1 epidural
- 3 lumbar region support bases: sitting position, lateral position, team teaching
- A thorough guidebook to the relevant anatomy, physiology, indications and performance of the lumbar puncture. Included also is a guide to CSF fluid analysis and LP risk management.

■ Ref.no. R16604

Spare parts:

3 Replacement skin

■ Ref.no. R16604H

1 Ultrasound compatible lumbar puncture / epidural simulator

Ultrasound compatible puncture block is anatomically correct and offers realistic image of ultrasound. It includes lumbar vertebrae, spinous process, superior articular process, transverse process, epidural space and spinal dura mater.

Training opportunities:

- Ultrasound-guided lumbar puncture
- Ultrasound-guided epidural anaesthesia
- CSF collection and CSF pressure measurement

Features:

- Ultrasonic landmarks of lumbar spine can be visualized.
- Replacement parts are durable for multiple procedures.
- This simulator can be positioned in the upright or lateral position.
- Transparent block makes the needle trace visible.
- The lumbar region model provides a platform for wide training opportunities, by adding interchangeable training blocks for landmark and fluoroscopic procedures
- Ref.no. R16015



1



2 Lumbar spine fluoroscopy training phantom

This phantom is the ideal training tool for hands-on workshop. Lumbar Spine Fluoroscopy Training Phantom allows various training methods of fluoroscopy guided procedures in pain relief of the lumbar area. The phantom has two types of interchangeable and replaceable inserts with radio-opaque lumbar spine.

Features

- Two types of replaceable training block: vertebroplasty block and anesthesia block
- Lumbar spine L2-L5 can be visualized under X-ray.
- True-to-life resistance to the needle

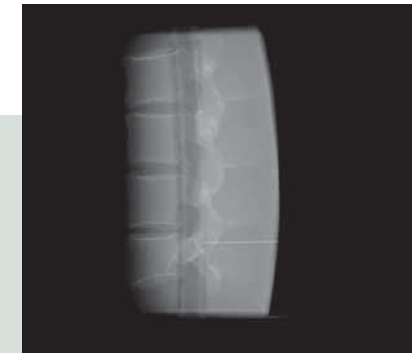
Training Skills

- Recognition of fluoroscopic anatomy and landmarks
- Vertebroplasty
- Fluoroscopy guided epidural anesthesia: needle placement in facet joint injection, root block and discogram

Anatomy

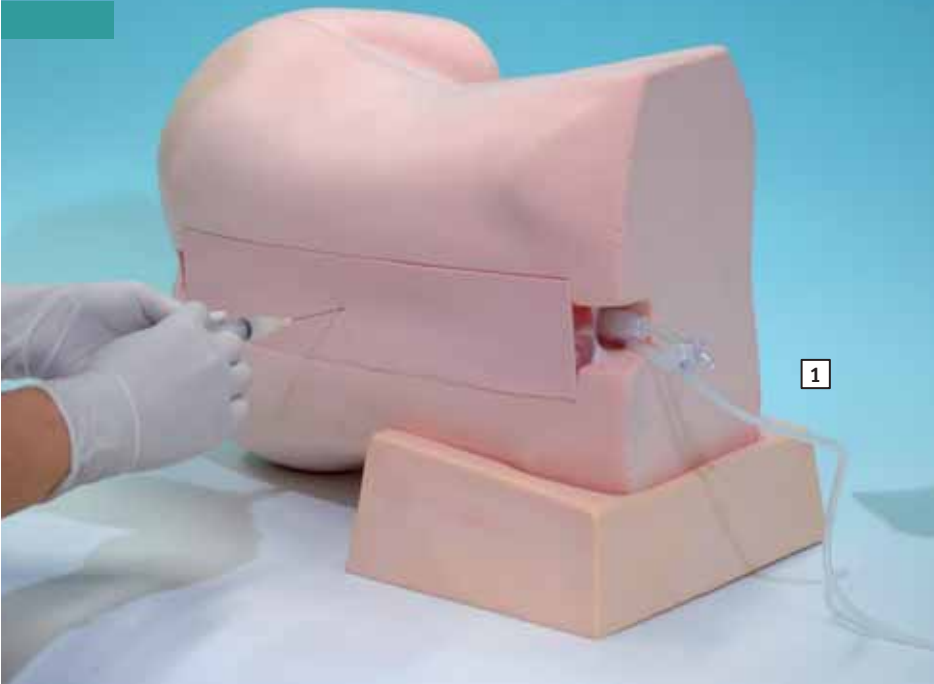
Lumbar spine (L2-L5), spinal canal, epidural space (anesthesia block only)

- Ref.no. R16019



2





▲
1 Epidural anesthesia simulator

This new simulator allows training of epidural anesthesia and lumbar puncture. It is made of lifelike materials and provides realistic touch and feel. The life size model has an anatomically correct spinal column covering the spine region from Th7 to L5. It includes all important landmarks for palpation. It provides a true to-life resistance and a “pop” can be felt through the needle during injection. Left or right lateral patient position is possible for training.

■ Ref.no. R16603



▲
2 Lumbar epidural injection trainer

The Trainer is designed to help trainee anesthetists acquire the necessary tactile skills for epidural anesthesia prior to hands-on patient experience. If the epidural needle is inserted too deeply a slight resistance is felt before the needle penetrates the dura.

Features found in the trainer include:

- Tactile and visual access to the lumbar spine, the epidural space and the dural sac
- Can be positioned in lying or lateral recumbent position
- Spinous processes and the interspinous spaces are palpable beneath the skin
- Epidural injection is carried out using either air or saline to detect loss of resistance and if accidental dural puncture occurs, “cerebrospinal fluid” will appear.
- Can be easily dissembled at any time to show position of needle during penetration
- Consists of skin, muscle layer, ligamentum flavum, vertebral bones and intra-spinal ligament
- Supplied with an all-metal Tuohy needle and a loss of resistance syringe

Size: 27 x 21 x 11 cm

■ Ref.no. R10077

Standard spare parts:

3 Fluid filled spinal cords (length 15 cm) pre-filled tubes supplied as standard set of 5

■ Ref.no. R10077A

4 Replacement Skin

■ Ref.no. R10077B

Additional Options:

5 Upgrade kit for simulation of obese patients

■ Ref. R10077-1

6 Extra long tubes for use with large groups when practising lumbar puncture techniques. Set of 3.

■ Ref.no. R10077-2

1 Epidural-Spinal Injection Simulator GENESIS ▶

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. The realistic loss of resistance and fluid filled intrathecal space allows users 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)
- Single Shot Spinals (Administer Single Shot Spinals)
- Catheter Placement (Insert Epidural & Spinal Catheters)
- CSE Technique (Ideal for Combined Spinal Epidural Technique)
- Ultrasound Compatible (Increase Ultrasound Competency)

Geriatric and obese puncture cores are available as additional option. Supplied with two standard puncture cores and six standard spinal tubings.

■ Ref.no. R66600

Spare parts / Options:

Spare cores (each core comes with three spinal tubings)

■ Standard Ref.no.. R66600A

■ Obese Ref.no. R66600B

■ Geriatric Ref.no. R66600C

Spinal Tubing (set of three)

■ Standard Ref.no. R66600D

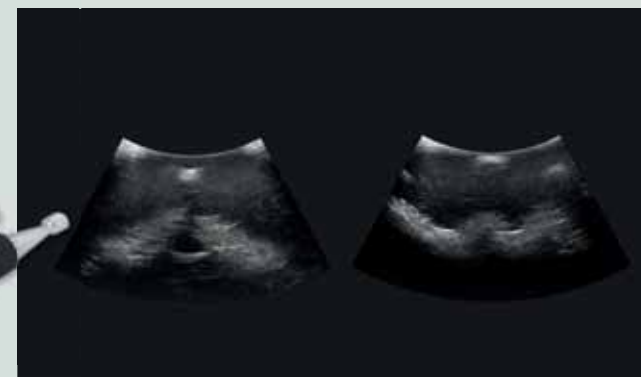
■ Thin wall Ref.no. R66600E

Fill line and syringe

■ Ref.no. R66600F

Transport and storage case

■ Ref.no. R66600G





1 THORAXIS Thoracic Neuraxial Simulator

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)

■ Ref.no. R66700

Spare parts / Options:

2 Spare Core

- Ref.no. R66700A

3 Spinal Tubing

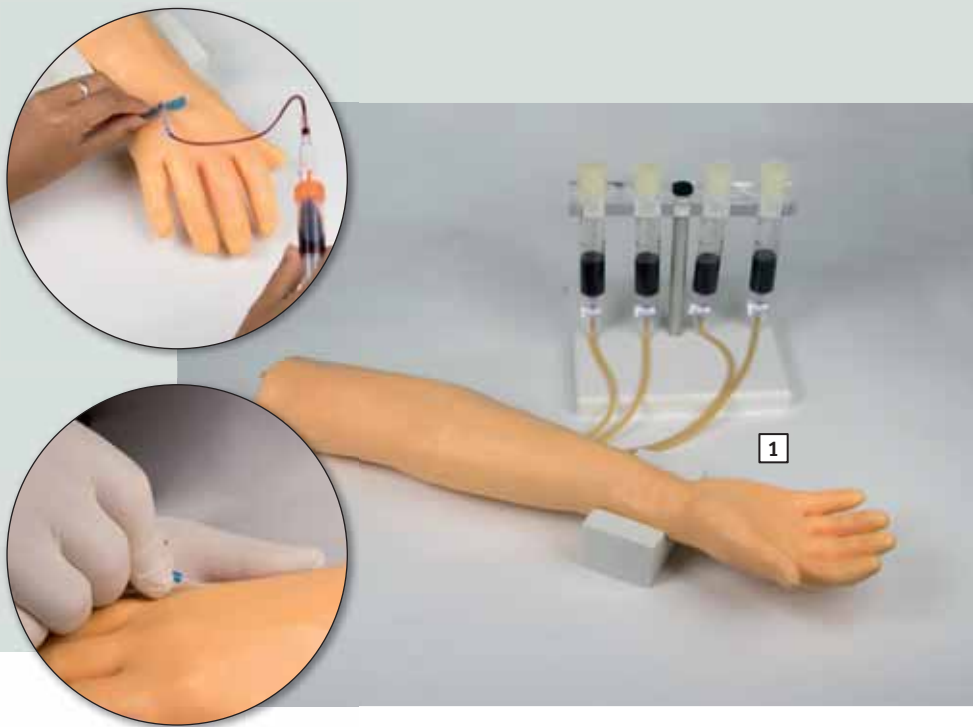
- Ref.no. R66700B

4 Fill Line and Syringe

- Ref.no. R66700C

5 Transport case

- Ref.no. R66700D



1 Training arm for intravenous injection and infusion

Specially developed for the Swiss army, this model offers the possibility of practicing blood sampling, injection and infusion. Two injection sites, one on the elbow and the other on the lower arm, allow palpation of the vein under the skin and realistic injection. Injection sites, vein and skin can be exchanged. Highly economically priced model, particularly suited to group training. All individual components are available separately.

■ Ref.no. 7010

SPARE PARTS FOR 7010:

2 Replacement hand skin

■ Ref.no. 7009

3 Replacement arm skin

■ Ref.no. 7011

4 Replacement vein

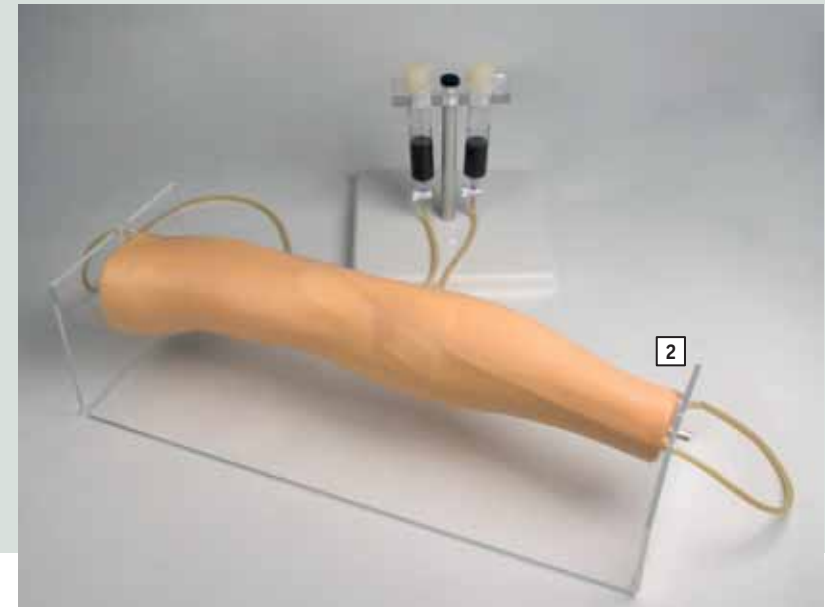
■ Ref.no. 7012

5 Replacement-injection pad

■ Ref.no. 7015

6 Blood-colored fluid, 250ml

■ Ref.no. 7024



2 Training arm for intravenous injection

The injection model is intended to give the prospective physician and medical auxiliary staff the opportunity of practicing intravenous injection. The model consists of soft synthetic material with an exchangeable skin in addition to an exchangeable injection site on the elbow, in which the median elbow vein (median cubital vein) is represented by a tube. The vein is visible under the skin and can additionally be easily palpated. The tension of the skin and the characteristics of the occluded vein is imitated in an approximately true to life manner. The model is characterized particularly by the possibility of compressing the vein realistically and of simulating a roll vein via the application of lubricant. Tested in rigorous daily use in the German army. All individual components are available separately.

■ Ref.no. 7020

SPARE PARTS FOR 7020:

8 Replacement skin

■ Ref.no. 7021

9 Replacement vein

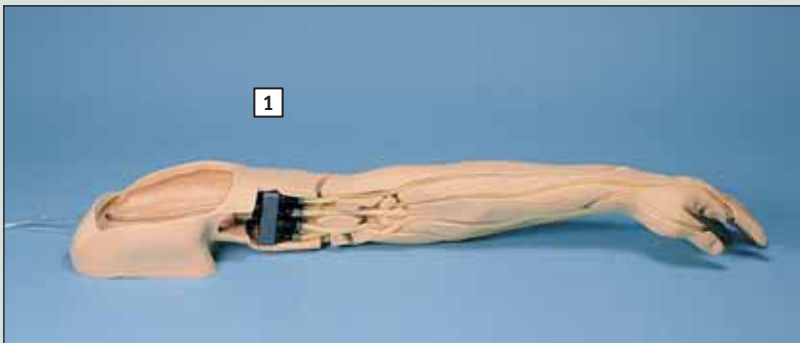
■ Ref.no. 7022

10 Injection pad

■ Ref.no. 7023

6 Blood-colored fluid, 250ml

■ Ref.no. 7024



1 Training arm intravenous injection

This injection training model has the most injectable veins.

The following veins can be punctured:

- Basilic V.
- Dorsal metacarpal V.
- Median basilic V.
- Cephalic V.
- Digital V.
- Median cephalic V.
- Accessory cephalic V.
- Thumb V.
- Median antebrachial V.
- Median cubital V.

Vein and skin can be replaced, the arm is moveable to enable the student to develop manipulation skills. I.m. and subcutaneous injection is also possible at this model. Supplied with storage case.

■ **Ref.no. R10004**

SPARE PARTS:

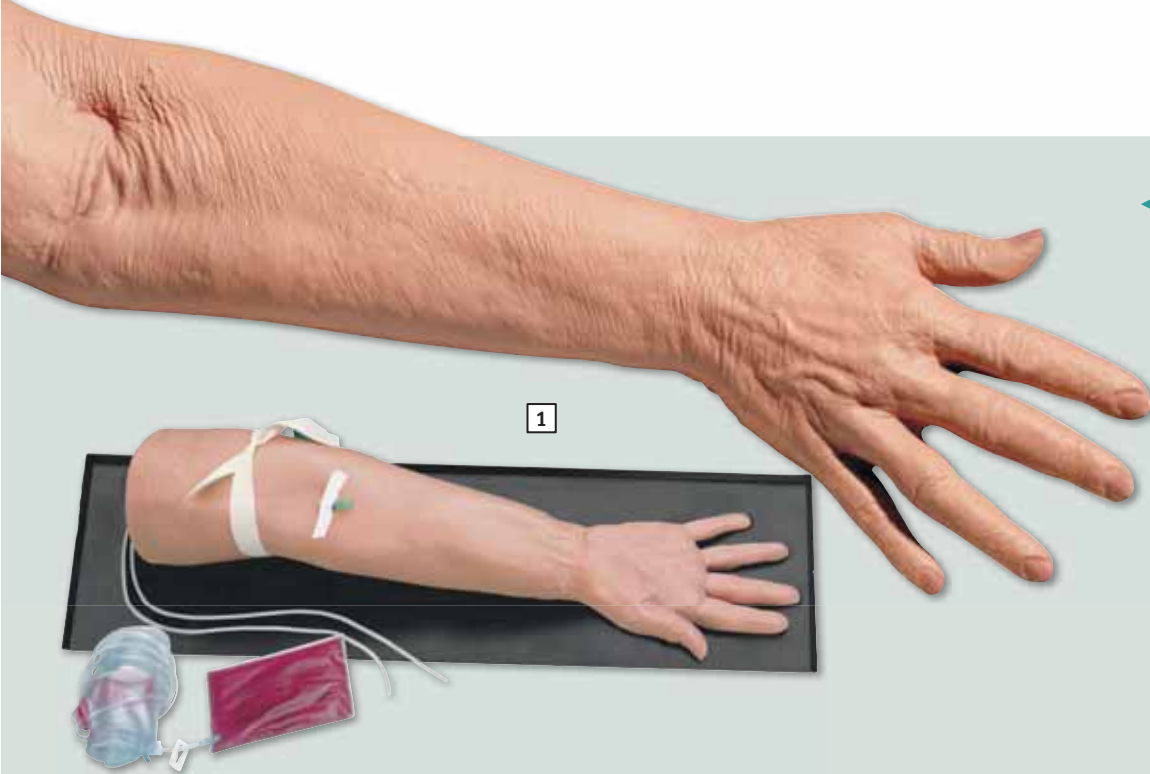
2 Replacement set skin and vein

■ **Ref.no. R10004A**

3 Replacement vein

■ **Ref.no. R10004B**





1 Geriatric IV training arm

Developed from a live cast, this arm is unique to the industry. Its properties include veins that roll away or disappear as you attempt to catheterize the vessel and a specially developed skin. Ideal for training anyone who works with the aged. Includes blood powder, IV bag, and carry bag.

■ Ref.no. R10017

SPARE PARTS:

2 Replacement set skin and vein

■ Ref.no. R10017A

3 Replacement vein

■ Ref.no. R10017B



4 Injection practice arm

Intravenous injection for the purpose of blood sampling or medication can be practised on this highly realistic model. The highly realistic skin feels deceptively real on needle insertion and can be pierced repeatedly. Veins and skin are exchangeable.

■ Ref.no. LM28

Spare parts:

5 Spare part set complete

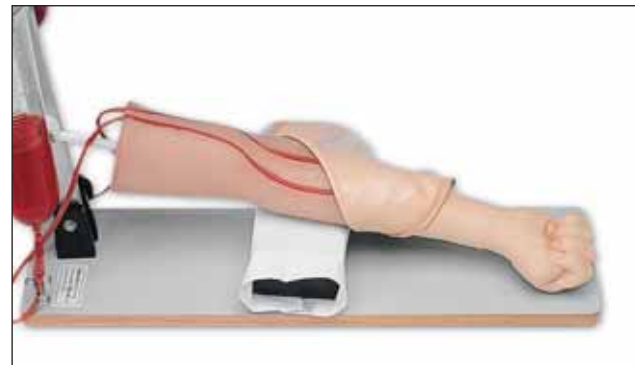
■ Ref.no. LM28A

6 Replacement vein (10 pcs)

■ Ref.no. LM28C

7 Replacement skin

■ Ref.no. LM28S





2 Child injection arms

Lifelike training arms for practicing vein puncture. The veins can be palpated and the puncture touch and feel is very realistic. The models include the basilica, median antebrachial and cephalic vein. The vein reacts life like when punctured, a flashback is present. After removing the needle the skin closes its surface. The Injections arms are disposable items and have to be replaced after intensive use.

- Injection arm, 1 year old Ref.no. R16680
- Injection arm, 3 year old Ref.no. R16682



1 Child-Injection training arm

Lifelike arm reproduction of a six year old child. The model offers the opportunity to practice intravenous and intramuscular injection techniques. The upper arm features a internal bone structure as landmark for intramuscular injection. The skin and veins can be replaced if necessary. Comes with storage case.

- Ref.no. R10007

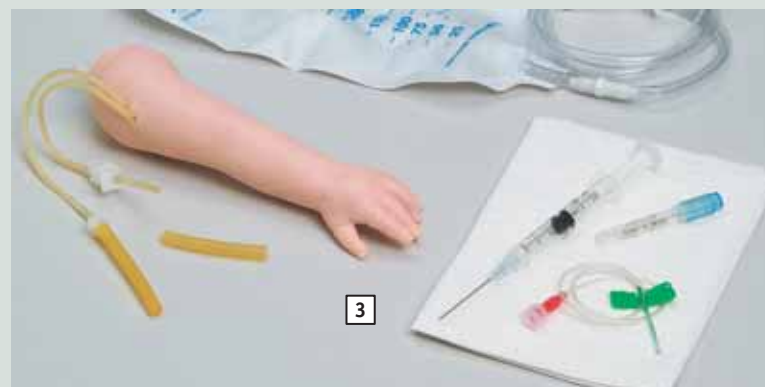
SPARE PARTS:

Replacement skin and vein

- Ref.no. R10007A

Replacement vein

- Ref.no. R10007B



3 Baby i.v. arm

This model has a special, extremely thin, synthetic skin, and rubber tubing with appropriately small lumen and thin walls. The cephalic and basilic vein are accessible, as well as the dorsal venous arch on the hand. Comes with two i.v. bags with clamps, artificial blood, and winged infusion set.

Size: 20.5 x 12.7 x 12.7 cm

- Ref.no. R10170

CONSUMABLES:

Replacement skin and vein

- Ref.no. R10170A



4 Baby i.v. leg

This model has a special, extremely thin, synthetic skin which is paired with rubber tubing featuring a small lumen and thin walls. The greater and lesser saphenous veins are accessible, as well as the dorsal venous arch on the foot. Comes with two i.v. bags with clamps, artificial blood, one 3 cc syringe, one 22-gauge needle, and winged infusion set.

Size 20.5 x 12.7 x 12.7 cm

- Ref.no. R10171

CONSUMABLES:

Replacement skin and vein

- Ref.no. R10171A

1 I.v. injection hand

The dorsal surface of the incredibly realistic hand includes injectable metacarpal, digital and thumb veins. The soft, flexible fingers are moulded separately with extreme attention to detail. Students have the opportunity to develop important manipulation skills provided by the flexion of the wrist. The skin rolls when the veins are palpated. Supplied in storage box.

■ Ref.no. R10005

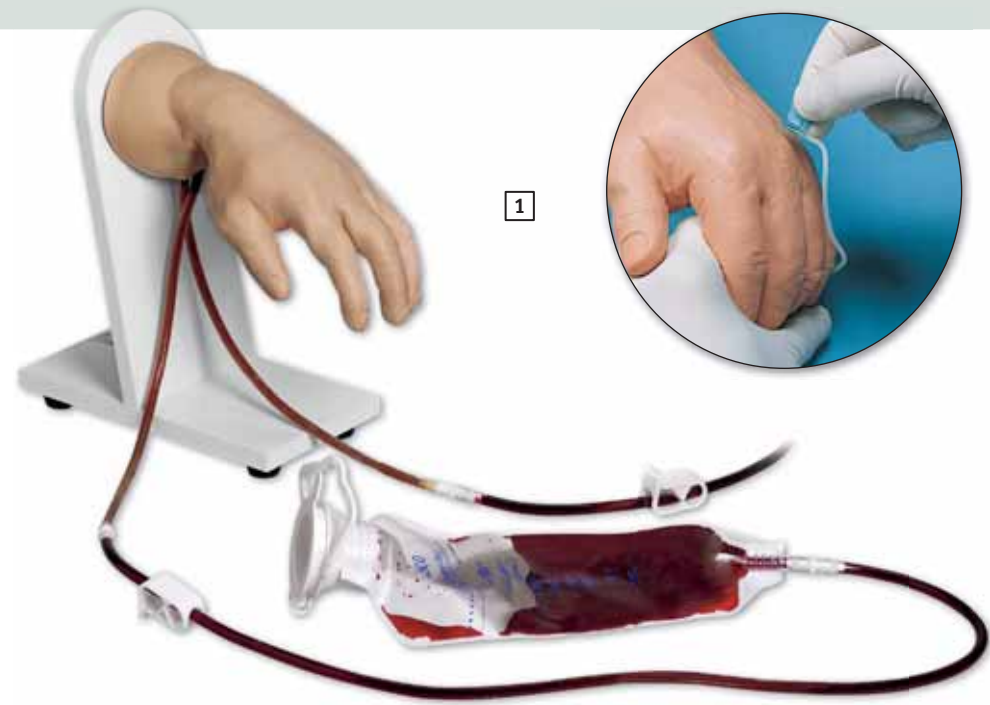
Spare parts:

Replacement skin and vein

■ Ref.no. R10005A

Replacement vein

■ Ref.no. R10005B



2 Adult i.v. foot

In circumstances where the vascular system of the upper extremities is inaccessible, the veins of the foot or lower leg can be used to gain access. The Adult i.v. Foot has been developed to assist with the techniques and skills of starting an IV injection in emergent situations. The foot is mounted on a sturdy stand, is extended and easily rotated. The long saphenous vein, short saphenous vein, and dorsal venous arch can be palpated. When the vein is located and the needle is inserted, blood may be withdrawn or fluid infused. The realistic skin and veins are completely replaceable. The Adult i.v. Foot includes i.v. bags with clamps, lubricant, foot stand, foam foot support, simulated blood, and instruction manual. Fluid supply stand not included.

■ Ref.no. R11005





1 Nita Newborn – simulator for venous vessel access

This model of a newborn female (1.8 kg/40.6 cm) is perfectly suited for studying and practicing both venous access and injections and drawing blood samples. Correct puncturing will produce a backflow of artificial blood.

This model allows access to the following veins:

- Basilic vein and axillary vein (arms)
- Saphenous vein (leg)
- Popliteal vein (leg)
- External jugular vein (neck)
- Temporal vein (head)
- Umbilical vein (navel)

Each of the following methods can be practiced:

- Normal puncture of a vein
- Central venous catheterization
- Umbilical (naval) catheterization
- Positioning a butterfly cannula
- Bandaging
- Fixing catheters
- Insertion and care of endotracheal and endonasal catheters and feeding tubes

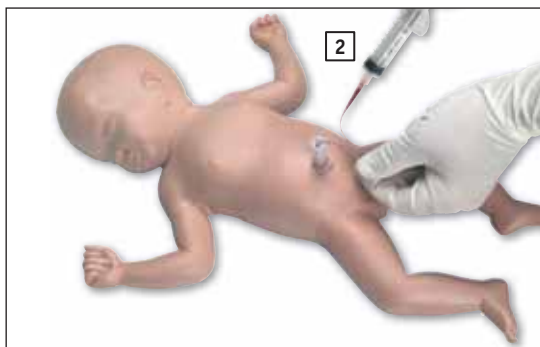
Supplied with 1.1 liters of artificial blood, blood bag, diaper and carrying bag.

■ Ref.no. R10009

SPARE PARTS:

Replacement skin and vein

■ Ref.no. R10009A



2 Baby Umbi umbilical catheterization trainer

Female newborn infant reproduction designed for the practice of umbilical catheterization

- Retractable umbilical cord for actual catheterization
- Two arteries and vein molded into umbilical cord facilitate:

- Low UAC
- High UAC
- Umbilical Vein Catheter
- Securing and dressing procedures may be practiced

■ Ref.no. R20202

3 Pediatric head – injection trainer

This model represents a six month old infant. Injection of jugular and temporal vein is possible. Special soft material makes the model look and feel like a real head. The skin and veins can be replaced if necessary. Comes with storage case.

■ Ref.no. R10008

SPARE PARTS:

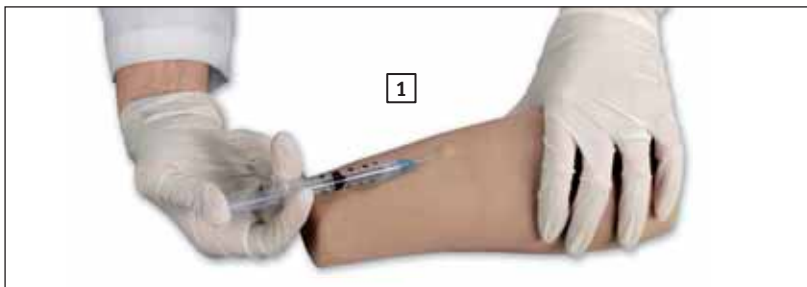
Replacement skin and vein

■ Ref.no. R10008A

Replacement veins

■ Ref.no. R10008B





1 Intradermal injection simulator

The simulator features a forearm from the wrist to just below the elbow. Vinyl skin provides realistic feel and appearance to ensure a realistic training experience. The simulator features eight sites for practicing intradermal injections. If fluid is properly injected, a characteristic skin welt will form. The welt is removed by withdrawing the fluid after practice. Each site is reusable by dozens of students. Supplied with sealant, syringe and storage box.

Size: 33 x 28 x 13 cm, **Weight:** 0.9 kg

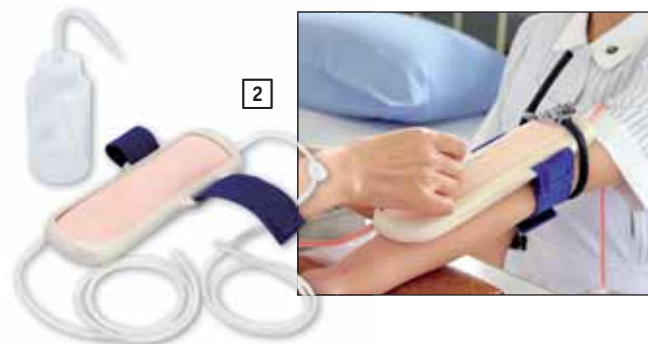
■ **Ref.no. R10016**



3 Endermic injection training simulator

This simulator provides training of intracutaneous injection to the inner forearm. A clear characteristic skin wheal is formed when proper injection procedure is followed. Life size model with life-like touch and resistance. Comes with 5 puncture pads and stand.

■ **Ref.no. R16620**



2 Strap-On venipuncture simulator

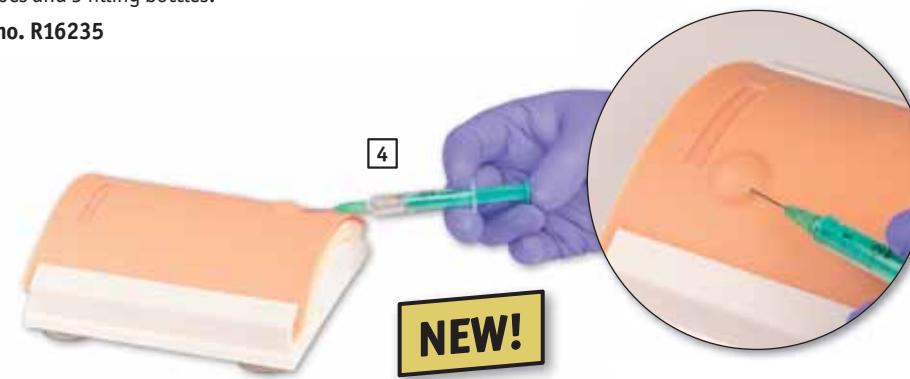
The strap-on venipuncture simulator is a simple, economical training kit for intravenous injection. It is a perfect tool for training of blood collection and intravenous injection. The strap-on trainer is to be strapped onto the upper arm of a standardized patient (SP) or a life-size training model. The veins and injection pads are replaceable and available as spare parts.

Features:

- Realistic tissue and vein wall resistance.
- Vein tube can be filled and refilled easily using a soft plastic bottle that works as a manual pump.
- Three vein tubes are embedded: 2 normal and 1 thin.

The set consist of 5 puncture pads (vein tube embedded), 5 supporting frames with belt, 5 injector tubes, 5 drain tubes and 5 filling bottles.

■ **Ref.no. R16235**



4 Intradermal injection trainer

This simulator consists of a flexible skin on an arched base. The realistic condition and optical appearance of the skin creates natural training opportunities. The simulator has six locations for training of intradermal injections. If fluid is injected correctly, a typical skin wheal is formed. This wheal can be removed by simply aspirating the fluid back in the syringe. Each injection location can be used several times by the students. If the puncture sites are worn out, the skin can easily be replaced and the base can be used again.

■ **Ref.no. 7110**

1 Portable IV arm and hand trainers

The economical Portable i.v. Training Hand and Arm combine realism, fine detail, and lightweight convenience in a single trainer. These self-contained trainers are packaged in a plastic case that can be converted into a work station. Trainers include everything you will need to begin training and practicing i.v. skills. The Portable i.v. Training Hand and Arm Trainers are constructed of soft material with life-like veins in the skin surface that are visible and palpable. Veins are accessible at the antecubital fossa, along the forearm, the back of the hand, and thumb veins, making it possible to practice venipuncture at any of the common sites. When puncturing through the vinyl skin and veins, the skin will actually roll as you palpate the veins and the characteristic “pop” can be felt as the needle penetrates the vein. These trainers are inexpensive enough so that each student can have their own set to practice technique and skills required in their courses. Under normal use, hundreds of injections may be performed. The skins and veins cannot be changed (trainers will eventually need to be replaced). Included with each trainer is two i.v. bags, packet of blood powder, syringes and storage case.

IV Hand and Arm Set

■ Ref.no. R10200

IV Hand

■ Ref.no. R10210

IV Arm

■ Ref.no. R10220



2 Venatech-trainer

This economically priced model allows purchasing a simulator for each student. No more wasting precious class time by waiting for the next free simulator. The trainer can be attached to the arm of the student. It shows cephalic, basilic and median cubital vein in correct anatomical position. An arterial vessel completes the model. Designed for basic training.

■ Ref.no. R10006

SPARE PARTS:

Replacement skin and vein

■ Ref.no. R10006A

Replacement vein

■ Ref.no. R10006B



3 I.v. Injection trainer fit-on type

This set of 5 injection trainers allows the training of i.v. injection directly on a person, without the risk of any harm. The puncture-proof pads can be attached at the arm of the training partner and the puncture can be practiced interacting with the patient. The veins are replaceable.

Supplied with: 5 Injection pads, 10 replacement veins (2 pcs needed for one pad)

■ Ref.no. R16614

Replacement veins (100 pcs)

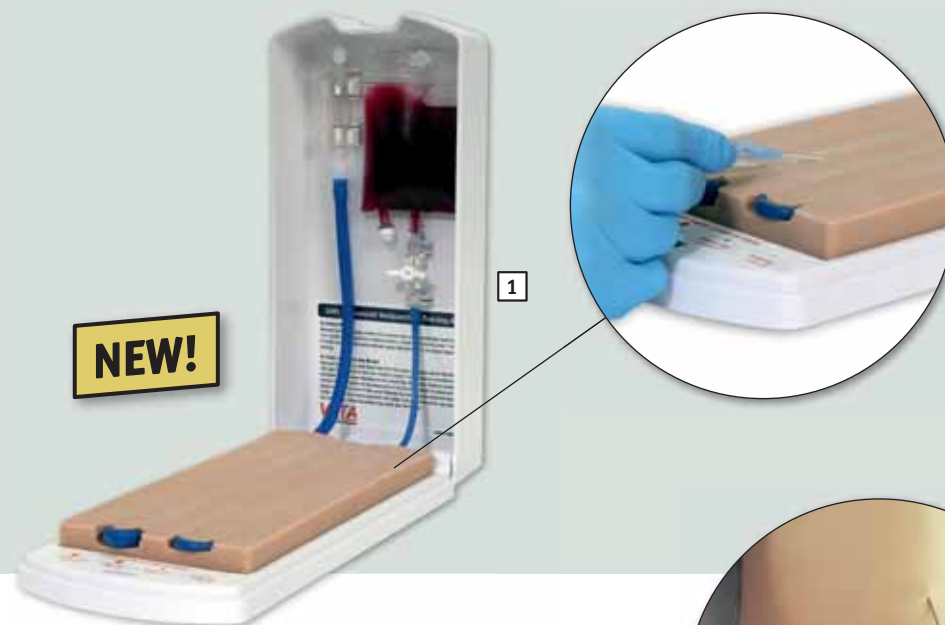
■ Ref.no. R16614A

1 Advanced Four-Vein Venipuncture Training Aid

The new and improved Advanced Venipuncture Training Aid™ features four barely discernible blue veins in three different sizes.

Hinged top and base eliminate the need to pass components through the top

- Leak resistant – Now featuring a single length of tubing, no connections needed
- No Velcro needed – Bubble trap and stopcock removal and replacement are confirmed by an audible “click”
- No Velcro needed – The hinged top has an integral molded hook for placement of blood bag
- Ref.no. R11055



Wearable IV Trainers

Patented ReaLifeSim IV Trainers are wearable, affordable, durable, and safe. They are available in three sizes (adult, pediatric, infant).

Features

- Life-like skin (*latex-free) with feel of „pop“ through the skin and the second „pop“ through the vessel followed by a realistic flashback.
- Velcro straps for flexible fitting and positioning on the forearm.
- Entire base of sleeve covered with protective puncture-proof material.
- Soft, smooth, durable microfiber lining near the skin.
- Different veins available for individual setting.

2 Adult Size

25.4 x 7.6 cm

- Ref.no. R15100

AVAILABLE VEINS

3 Flow through

Length 30,5 cm, Diameter 0,64 cm

- Ref.no. R15100A

4 Puncture vein long

Length 25.4 cm, Diameter 0.64 cm

- Ref.no. R15100B

5 Infant Size

5,1 x 3,8 cm

- Ref.no. R15300

AVAILABLE VEINS

6 Puncture vein standard

Length 12,7 cm, Diameter 0,64 cm

- Ref.no. R15200A

7 Puncture vein narrow

Length 12,7 cm, Diameter 0,48 cm

- Ref.no. R15200B

8 Pediatric Size

10,1 x 3,8 cm

- Ref.no. R15200





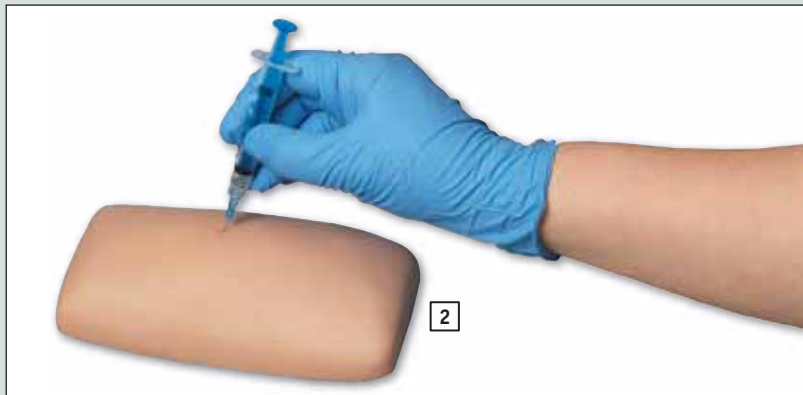
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1 Intramuscular injection model

A simple to use and economically priced model for intramuscular injection training. Made of lifelike, soft material. It can be punctured repeatedly. Fluid use is not recommended.

■ Ref.no. R10076



2

2 Training model for intradermal, subcutaneous and intramuscular injection

Simple and easy to use training model made of soft and realistic material for life like training of intradermal, subcutaneous and intramuscular injection. The material can be punctured repeatedly without showing needle holes. The injection of fluids is not recommended.

Size: 18 x 10 x 6 cm, Weight: 0.8 kg

■ Ref.No. R10952

3 Bonnie Bone Marrow Biopsy Skills Trainer

The idea for the Bonnie Bone Marrow Biopsy Skills Trainer was born out of the lack of adequate hands-on training aids and simulators to train clinical staff on the skills needed to perform a posterior iliac crest bone marrow biopsy procedure. By implementing valuable input from clinicians, the Bonnie trainer was developed to provide a realistic simulation. The Bonnie trainer incorporates a life-size scale and anatomy modeled from an average size female pelvis and lower spine. The outer shell provides a soft, tissue-like feel to allow for the palpation of underlying bony landmarks such as the spinous process, and the anterior and posterior iliac crests to facilitate proper biopsy needle placement. To simulate treating patients in lateral decubitus (side lying) positions the Bonnie trainer can be set-up with the included tilt stand or positioned on a table surface to accommodate the prone position. The right and left iliac crest bones are designed to be removable and replaceable and incorporate simulated bone marrow that can be extracted during simulated biopsy procedures to confirm proper technique. The innovative design also includes a replaceable puncture site skin insert to allow for multiple needle punctures to be performed. Inserts are available as replacement parts.

■ Ref.no. R11051

Consumables:

Puncture site skin insert

■ Ref.no. R11051A

Right and Left Posterior Iliac Crest Bone Inserts (1 set)

■ Ref.no. R11051B



3



1 Intramuscular Training Model ▶

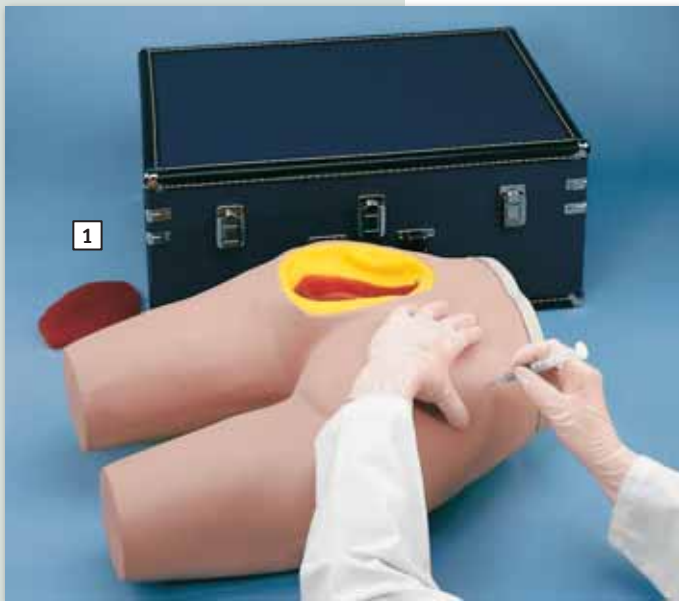
This reasonable priced model of an adult, life-size buttocks allows for training of intramuscular injection techniques. It incorporates a whole bony pelvis, allowing for location of all bony landmarks needed to find the correct injection spot. All common injection techniques can be practiced. The puncture hole closes almost completely, allowing multiple punctures before the model has to be replaced. The puncture haptics are close to the real human body. The model is not intended for injection of fluid.

Additional to the intramuscular injections the model can be used for punch biopsy of the iliac crest, but without the withdrawal of bone marrow and only several times, because the model has no replaceable parts.

Features:

- Bony landmarks
- Soft tissue for realistic palpation
- Life size
- Realistic puncture feeling
- Light weight, easy to transport
- Reasonable priced
- Punch biopsy possible
- Ref.no. 7090





1 Intramuscular injection simulator

Here is the perfect volunteer for training your beginning health care students to administer intramuscular injections. Always available for class demonstrations or practice by groups of 1 to 30, this intramuscular injection Simulator offers both visual and tactile learning. A simulated bony structure is embedded in the torso and represents the superior end of the femur, or greater trochanter, the posterior superior and anterior superior iliac spines, and the sacrum. The bony structure provides palpable anatomical landmarks so students can identify proper injection sites. A section of the upper, outer quadrant of the left gluteal area is cut away to allow students to visualize the underlying structures. The gluteus medius and gluteus maximus muscles, sciatic nerve, and vascular structures are clearly shown. Three types of intramuscular injections can be taught and practiced on this simulator: dorsogluteal, ventrogluteal, and vastus lateralis injections. Skin and muscle textures, as well as bone shape and position, closely resemble a live patient. As a result, perforation of the tissue with a needle duplicates the sensation of administering an actual injection. Comes with supply of syringes, and hard carrying case.

■ Ref.no. R10961



2 Intramuscular injection simulator

This highly realistic model consists of a special plastic that gives the user the feeling of working on an actual human patient. All anatomical structures are present and palpable. The injection sites are constructed in multiple layers, corresponding to the human anatomy, in order to convey a natural feeling during needle insertion. Sensors, located away from the correct injection sites, sound an acoustic alarm if needles are placed incorrectly. The injection can be administered realistically with fluid, since the model has a drainage system. The injection sites must be localized using the Hochstetter method. The skin and the injection fields are separately available and replaceable. The simulator can be operated on battery power. Comes complete with transport case.

■ Ref.no. LM57



1 Model of shoulder and arm anatomy / i.m. injection technique

This model offers two functions in one model: on the right side it shows the anatomy of the upper arm and the shoulder including the bones and the muscles and nerves which are of importance for the injection. The student can transfer the anatomy visible on the right side to the left side and can then practice the technique of intramuscular injection there. The most important anatomical landmarks can be felt on the left side. The injection can be carried out with liquid. A green lamp lights up to confirm that the injection has been placed at the correct location. If it is placed at any other location, this is indicated by a red lamp and a buzzing sound.

Size: 50 x 75 x 3 cm

■ **Ref.no.** R16607



2 I.M. injection trainer upper arm, fit-on type

With this model you practice directly at the patient. It can be attached to a simulated patient or a nursing doll. With excellent haptics it is the ideal tool for teaching the i.m. injection technique at the upper arm. The built-in sensors recognize the correct puncture site as well as the correct depth of injection. If the position is correct, a green light indicates this. In case of wrong puncture a red light will be switched on. In case of correct puncture site but wrong depth both lamps will light at the same time. Fluid can be injected into the model.

Size: 32 x 12 x 11 cm, **Weight:** appr. 0.5 kg

■ **Ref.no.** R16611





1 Arterial puncture arm

This easy to use training aid is ideal for practice in and demonstration of drawing arterial blood samples and for monitoring blood gases. Puncture locations can be identified through palpation of the pulse of radial and brachial artery. Realistic arterial pressure produces a lifelike backflow of blood in the syringe, confirming proper needle location in the artery. Delivered with 3 syringes and tubules, artificial arterial blood, 2 replacement arterial sections and carrying case.

Size: 71 x 13 x 33 cm, **Weight:** 7.3 kg

■ **Ref.no. R10011**

SPARE PARTS:

Replacement skin and 3 arteries

■ **Ref.no. R10011A**

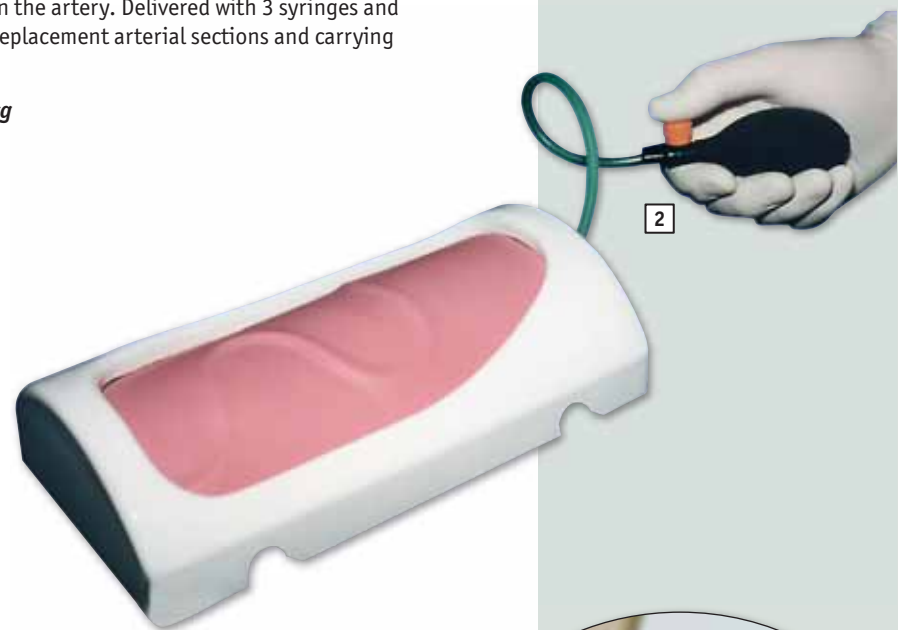
Replacement artery

■ **Ref.no. R10011B**

2 Pressurised cannulation pad

The pressurised cannulation pad has been introduced to provide a portable intravenous trainer and act as an alternative to using the traditional arm. These trainers are realistic and achieve relatively low running costs.

■ **Ref.no. R10096**



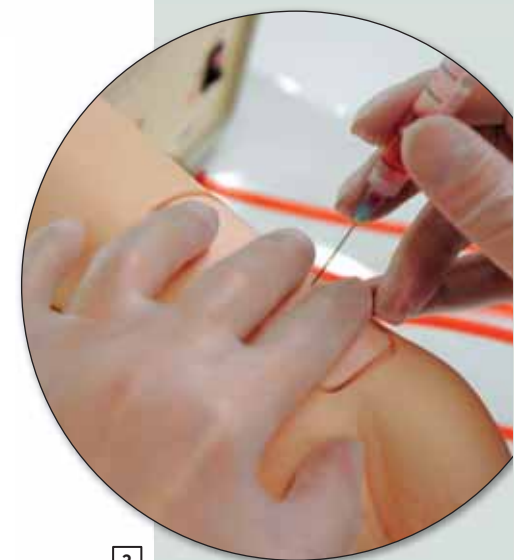
3 Arterial puncture wrist

Radial artery puncture is a common approach for blood collection and artery catheterization; however, it is a challenging skill for operators. This innovative simulator is designed to provide training in artery puncture with true-to-life feeling.

- Arterial pulsation is palpable.
- Realistic resistance of tissue and artery wall felt with the injection needle.
- Natural flashback of artificial blood into the needle can be observed.
- Puncture skin, pad and artery tube are replaceable.
- No puncture trace of the injection needle remains on the injection site.
- One-touch, leak free connections.
- Easy clean up.

Supplied with pulsatile pump and 4 arteries.

■ **Ref.no. R16650**

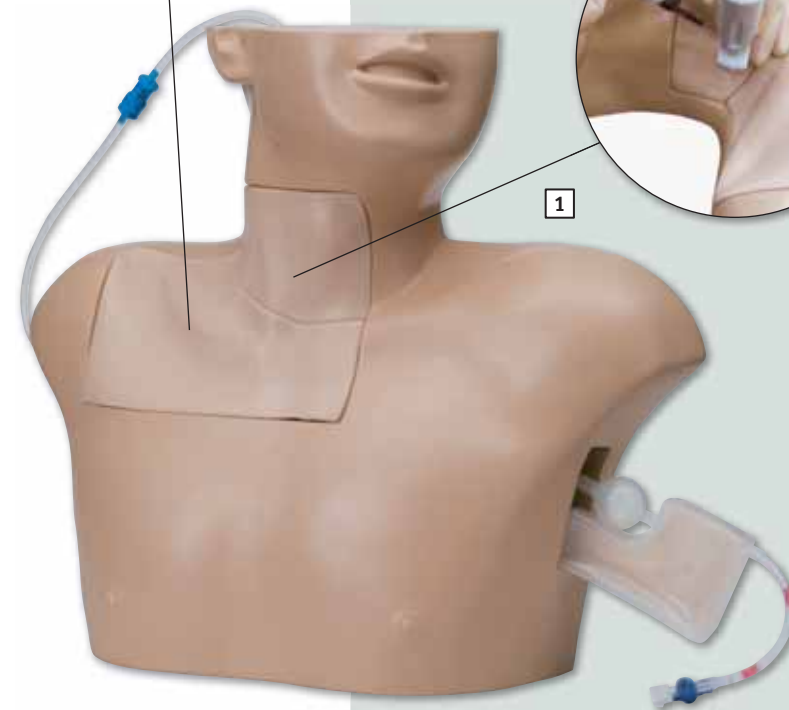




1 Central venous puncture trainer

Designed for practicing ultrasound guided central venous (CV) puncture as well as landmark puncture. It enables learners to identify the puncture site by recognizing the important landmarks. Simulated blood can be collected when a needle is inserted into the vein. Enables learners perform CV puncture by putting negative pressure on the syringe. Backflow air pressure indicates incorrect puncture of the lung. This trainer is designed for practicing exploratory puncture. Catheter and guide wire cannot be applied. Ultrasound guided central venous puncture utilizing an ultrasonography imaging system allows practicing the the internal jugular venous puncture, the subclavian venous puncture and the supraclavicular venous puncture. Pressure on the internal jugular vein by the ultrasound probe, causes the vein to become oval and deformed. Please note that the ultrasound imaging system works differently in the model than in the human body. Due to this the images you obtain with an ultrasound imaging system may differ from the real human body.

■ Ref.no. LM90





1 Central venous cannulation simulator

Enhanced training in ultrasound guided CVC. Axillary vein approach as well as internal jugular vein approach. An introductory training block to acquire basics of ultrasound guided puncture. Excellent image quality. Learning from failures; various complications can be simulated.

- Effective for cannulation training; the only simulator with anatomically correct junctions of the subclavian veins with the right internal jugular and SVC.
- This simulator includes three interchangeable pads for the puncture area, landmark puncture pad, ultrasound puncture pad and transparent cannulation block.
- The trainee will learn three skills: how to make a safer puncture, how to avoid possible complications that may accompany the puncture, how to insert the catheter into the correct position. When the procedure is performed incorrectly, the error will show immediately by feedback.
- Each training pad, placed at the right upper breast and right half of the neck covering the puncturing sites and catheter routes is a precise, life-size model incorporating the anatomical structure of bones, veins, arteries and upper lung.
- The landmark puncture pad is designed to provide training in safely puncturing the subclavian vein or internal jugular vein, and inserting a catheter into SVC. Carotid artery pulsation is palpable.

- The ultrasound puncture pad allows training in internal jugular vein puncturing under ultrasound scanning. Clear scanning image facilitates understanding of how to distinguish vein from artery and perform safe puncture while watching an ultrasound monitor.
- A transparent block for three-dimensional anatomical understanding also works as an effective training tool for developing guide wire insertion skills.
- Three CVC approaches with landmark method:
 1. subclavian vein approach
 2. supraclavicular approach
 3. internal jugular vein approach
- Ultrasound guided CVC from internal jugular vein and axillary approach.
- Thorough procedure from puncture to cannulation
- Anatomical learning

Complications indications:

- Artery puncture
- Pneumothorax
- Mislodging/malposition
- Ref.No. R16051



1 CVC Insertion Simulator III ►

The CVC Insertion Simulator III provides training in a sequence of procedural skills from the needle insertion to catheter placement, including Seldinger technique. It provides training opportunities in an array of procedural skills from determining the insertion site to placement of the catheter without interruption. Both landmark and ultrasound-guided catheterization are possible in one pad.

Features:

■ Repeated insertion

The improved frictionless tissue of the pad allows Seldinger technique and repeated insertion and removing of the catheter with less needle marks left on the surface of the pad.

■ Both landmark and ultrasound-guided CVC:

The anatomically correct structure facilitate training in both landmark and ultrasound-guided CVC.

■ Mechanical complications, such as arterial puncture and pneumothorax can be simulated for training.

■ New material

The close-to-human tissue material of the pad provides true-to-life sensation inserting the catheter.

■ Realistic venous collapse

The vein collapses under the pressure of the ultrasound probe.

The pad shows the following anatomical structures:

■ Internal jugular vein & carotid artery

■ Subclavian vein & artery

■ Superior vena cava

■ Ribs

■ Sternum

■ Lung

Training Skills

■ Ultrasound-guided CVC

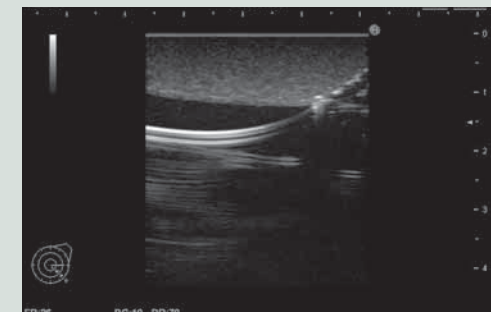
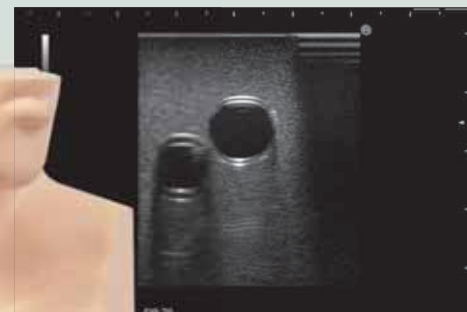
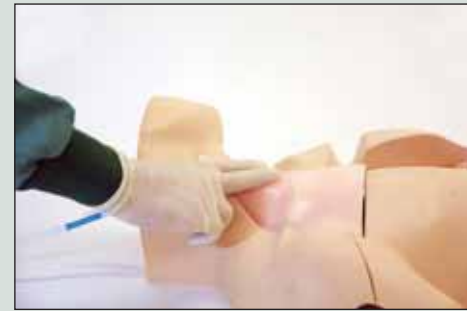
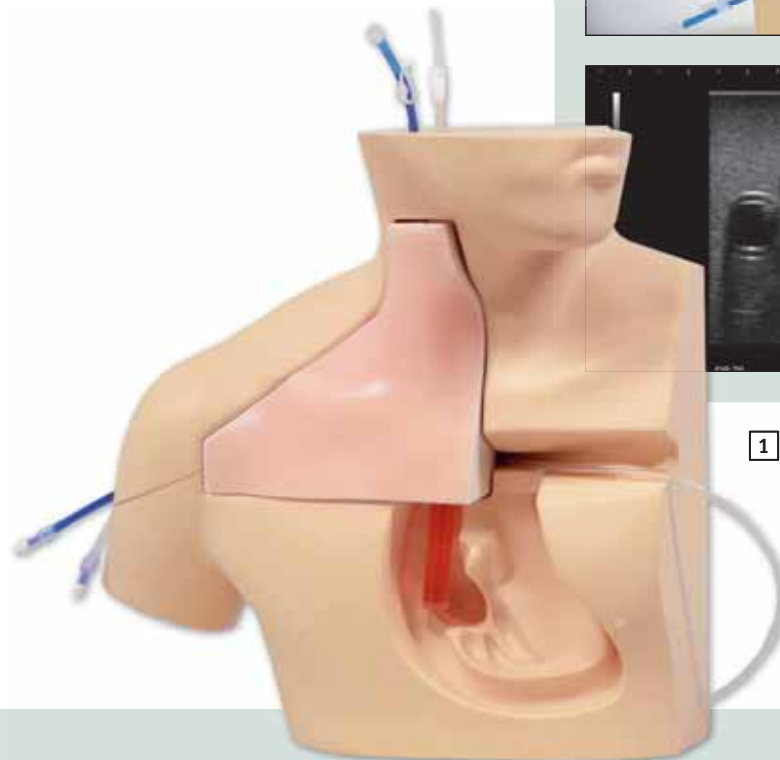
■ Landmark guided CVC

■ Ultrasound-guided venous access

■ Prevention of mechanical complications

The new and innovative material does provide an incredible realism and tactile excellence as well as ultrasound imaging quality. However, due to its special material, the injection pad has a limited shelf life once it is unpacked.

■ Ref.no. R16052





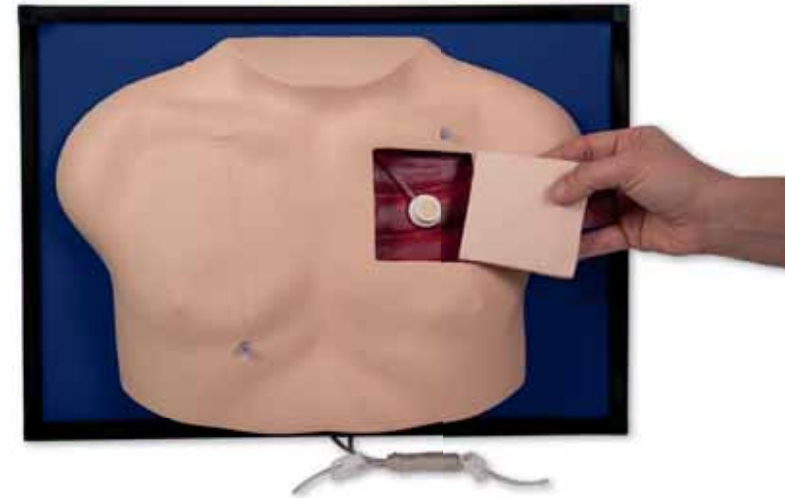
1 Venous-access device model

This model offers left and right subclavian catheter connections and an implanted PORT-A-CATH device. Both catheters may be flushed with water. Mounted on collapsible easel.

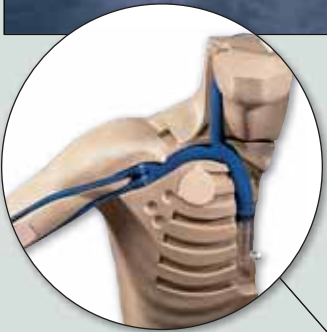
Size: 57 x 46 x 13 cm

Weight: 4.5 kg

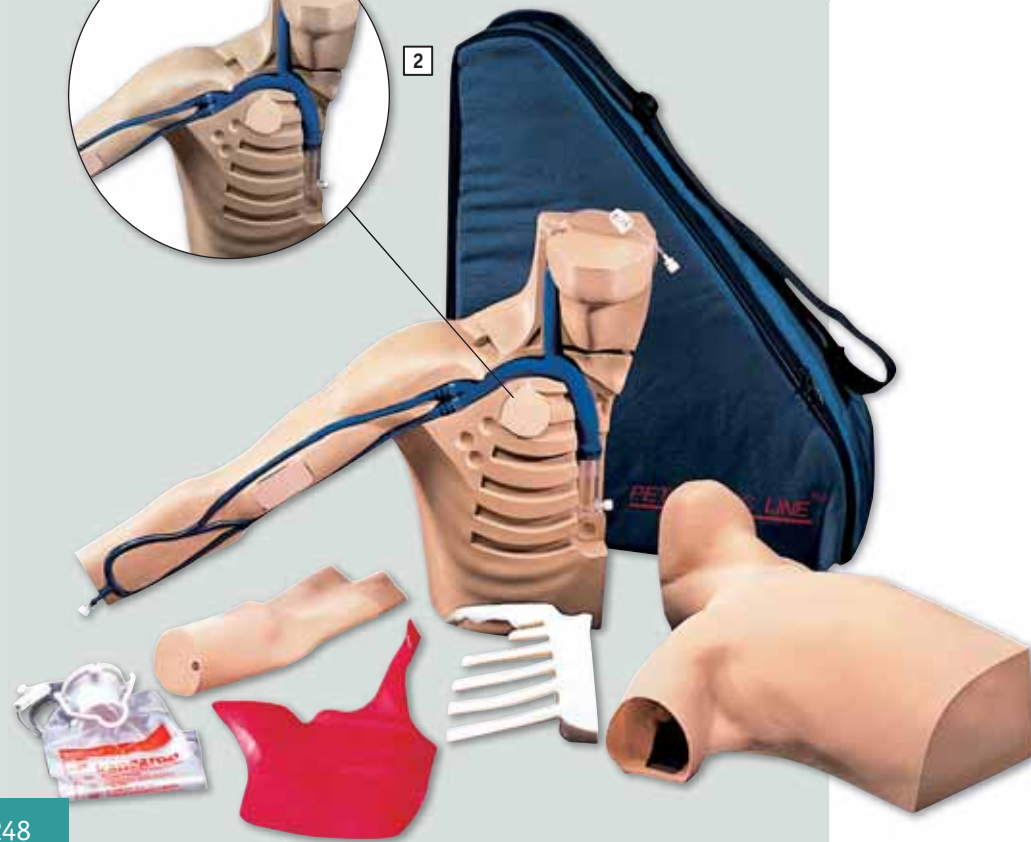
■ **Ref.no. R10020**



1



2



2 Peter PICC Line

The only available teaching model which allows review of the principles and tools necessary to validate the knowledge and skills needed for Peripherally Inserted Central Catheter (PICC) insertion. Peter PICC is a portable, lightweight, teaching model featuring anatomically correct superior vena cava, subclavian, jugular, median basilic, basilic and cephalic veins. The moveable chin simulates the occlusion of the jugular vein which can prevent the PICC from taking this path. This model enables staff to practice sterile technique in the set-up and insertion of the PICC line. Palpable ribs permit the practice of measuring proper catheter length from the insertion site to the second or third intercostal space and the confirmation of proper placement of the distal tip of the catheter in the viewable superior vena cava. Standard IV catheter placement is also possible in the major veins, which are barely visible through the translucent arm skin. Gain confidence and master the techniques of PICC insertion and then transfer these skills to patients. Peter PICC Line is an upper torso model including, neck, chin, right arm, ribs, muscle tissue, arm skin, body skin, arm vein set, body vein set with viewable superior vena cava, fluid bag with tubing and a durable, soft-sided cloth carrying case with an additional pouch for supplies.

■ **Ref.no. R18802**

AVAILABLE SPARE PARTS:

Arm skin replacement

■ **Ref.no. R18802A**

Arm vein tubing set

Median basilic, basilic and cephalic veins

■ **Ref.no. R18802B**

Body skin replacement

■ **Ref.no. R18802C**

Body vein tubing set

■ **Ref.no. R18802D**

Muscle tissue

■ **Ref.no. R18802E**

Rib replacement

■ **Ref.no. R18802F**



◀ Chester Chest

Chester Chest is a life-like model of a human torso, including a detachable right arm, that allows to learn and demonstrate competency with the most common types of long term vascular access devices (VAD's): implanted ports, central venous catheters (CVC's) and peripherally inserted central catheters (PICC's), within one simple, compact, and portable training model. All of the vascular access devices used are actual clinical devices not unrealistic imitations. This model offers a dramatically realistic tactile sensation when palpating the location of a port. This is achieved through a unique material duplicating the feel of human tissue. Additionally, inserts that come with the model permit the following difficult accessing to be practiced: deeply placed port, tilting or tipping port and wandering or shifting port. The distal ends of each device are attached to a simulated blood reservoir bag to permit fluid infusion or "blood" withdrawal. External jugular or subclavian catheters can be added through existing openings on the model. Chester Chest can be used in either an upright or supine position. Chester Chest is a complete unit consisting of a life-sized torso with neck and chin, detachable right arm, outer tissue flap, three difficult accessing inserts, an actual implanted port, CVC, PICC, openings for attachment of a subclavian or external jugular catheter, "blood" reservoir bags, tubing, talc baby powder and user's information.

1 Chester Chest with advanced arm

■ Ref.no. R18803

2 Chester Chest with standard arm (with space for peripheral port)

■ Ref.no. R18801 (not pictured)

AVAILABLE SPARE PARTS:

3 Chester Chest difficult accessing insert

An insert which is placed in the recessed area and, when accessing the implanted port through the overlying outer tissue flap, simulates the feel of a wandering or shifting port.

■ Ref.no. R18803A (not pictured)

4 Chester Chest difficult accessing insert

An insert which is placed in the recessed area and, when accessing the implanted port through the overlying outer tissue flap, simulates a properly placed port on the upper portion of the insert or a tilting or tipping port when placed on the lower portion of the insert.

■ Ref.no. R18803B (not pictured)

5 Chester Chest difficult accessing insert

A tissue insert, which when used in conjunction with the recessed R18802A insert and placed over the port, simulates a deeply placed device when accessed through the overlying outer tissue.

■ Ref.no. R18803C (not pictured)

6 Outer tissue flap replacement

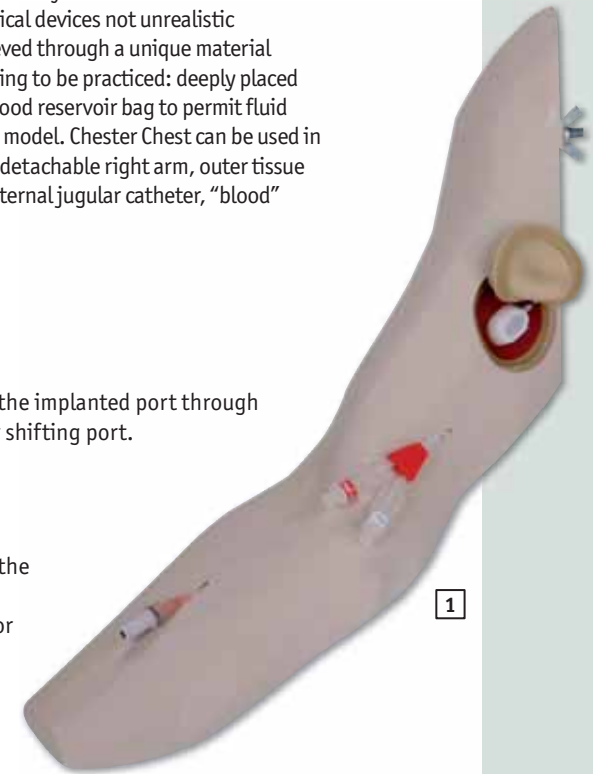
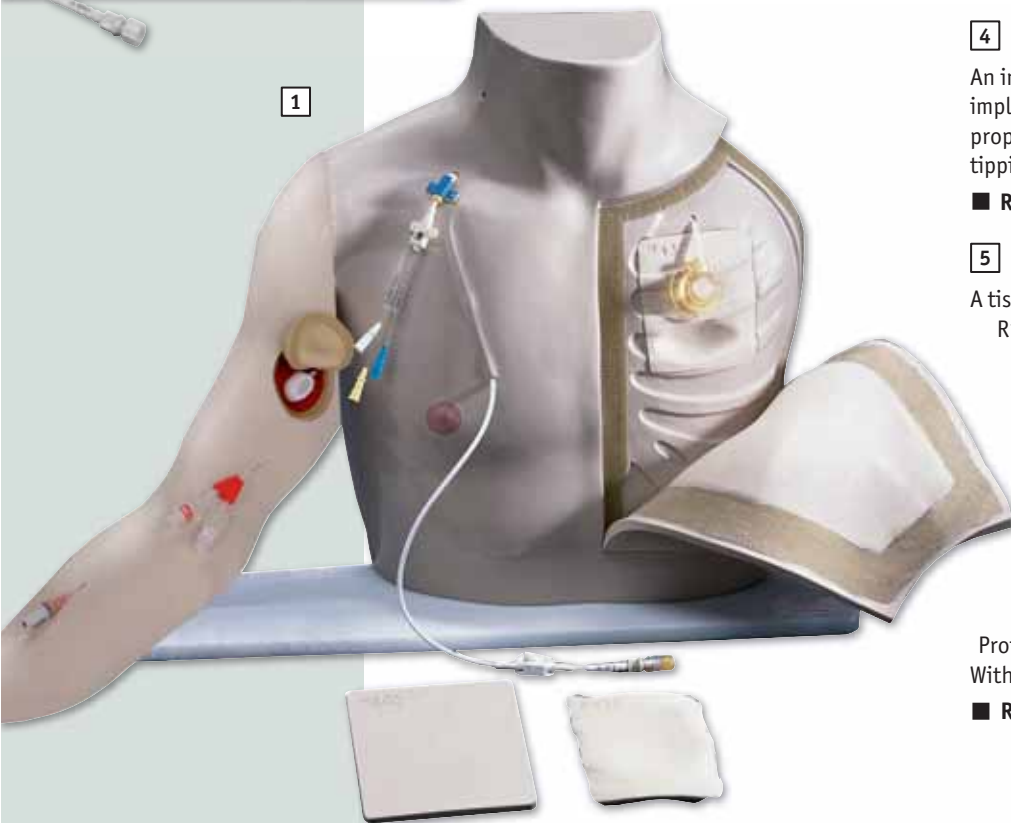
■ Ref.no. R18803D (not pictured)

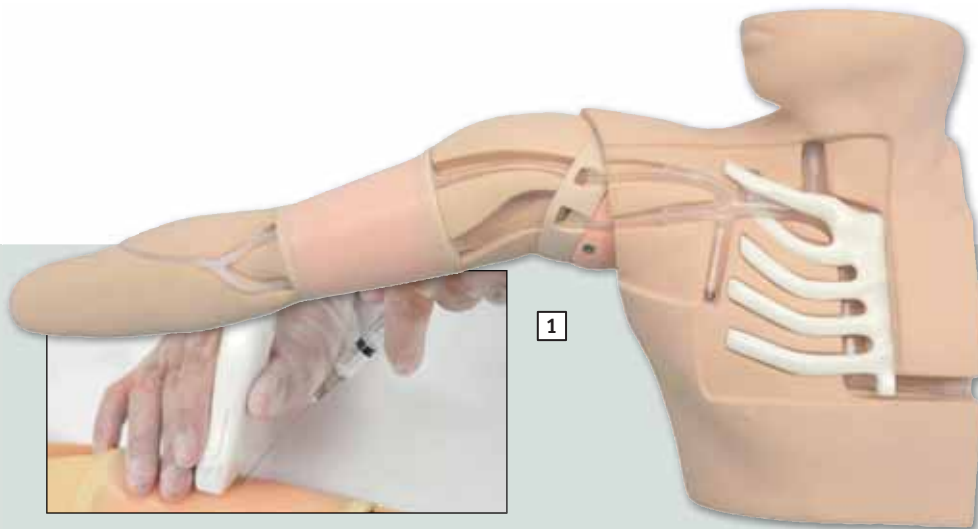
AVAILABLE OPTIONS:

7 Chester Chest optional carrying case (Soft-sided)

Protect, store and transport Chester Chest in this durable padded fabric bag with zipper. With a protective sleeve for arm.

■ Ref.no. R18803-1 (not pictured)





1 Ultrasound-guided PICC training simulator

Peripherally Inserted Central Catheter (PICC) is considered to be a safe approach in placing a catheter in the central line and use of ultrasound guidance is recommended to reduce risk to patients.

This brand-new simulator is the one and only model which provides training in full procedural skills from the needle insertion, manipulation of the PICC, to placement of the distal tip in the SVC. Both basilic and cephalic veins are prepared for access to set different levels of challenges in cannulation. The ultrasoundable puncture site is replaceable. The movable shoulder allows for training in positioning of the arm to avoid possible malposition of the catheter. Anatomically correct bifurcation of the vein in the upper chest provides realistic resistance of its outer walls and enables simulations of complications such as malposition of the catheter into the jugular, the thoracodorsal or the subclavian vein. The simulator is ideal for hands-on training of residents, specialist nurses and radiographers.

■ It has the following features:

- Excellent image quality and visualization of the needle tip for ultrasound guided venous access
- Movable shoulder
- Provides training in a variety of procedures from needle insertion to catheter tip placement
- „Flash-back“ confirmation of successful venous access
- Ribs and right clavicle are included to determine length of the catheter as well as providing anatomical understanding of a correct PICC tip location.
- Anatomically correct bifurcation of vein
- Simulation of malposition of the cannula

Size: 40 x 60 x 15 cm

■ **Ref.no. R16014**



2 Port – “Body in a Box”

Port – “Body in a Box” is a low cost, compact, lightweight, quick to set up and store training model for the teaching and practice of palpating and accessing IVADs (Implanted Vascular Access Devices). Supplied with a real port, it is possible to simulate accessing the following IVAD placements: normal, “tipping”, “wandering” or deeply placed. Successful access is confirmed by a “blood” return, as the model has its own 35cc simulated blood reservoir bag neatly tucked inside. Can be accessed in or out of the case. No set-up or put away steps required. Great model to develop hand-eye coordination and gain confidence that easily transfers to patient accessing!

Included:

- Practice Port
- Skin Flap
- „Tipping“ Insert
- „Floating/Wandering“ Insert
- Simulated Blood Reservoir

Size: 24 x 16 cm, **Weight:** 1.6 kg

■ **Ref.no. R18804**



1 Breast plate for implantable port

This simulator is composed of a soft part representing the skin, under which a rigid plate is attached to protect the carrier from any possible sting resulting from an incorrect gesture.

The implanted port and the blood bag are currently not supplied, but can be ordered separately if needed.

The model is held around the neck and waist of a person with adjustable straps. It allows practicing care procedures on an implanted port. The fact that it can be worn by a person increases considerably the realism of the exercise, as it adds the possibility to discuss with the "patient", and to feel his movements, breathing, ...

■ Ref.no. R66520



2 Training port

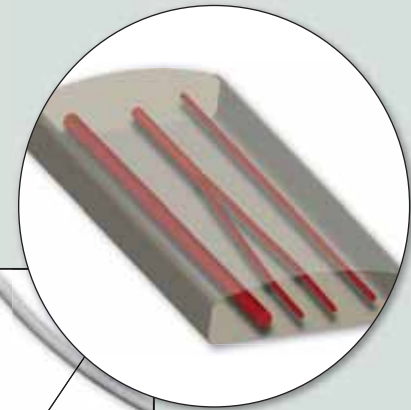
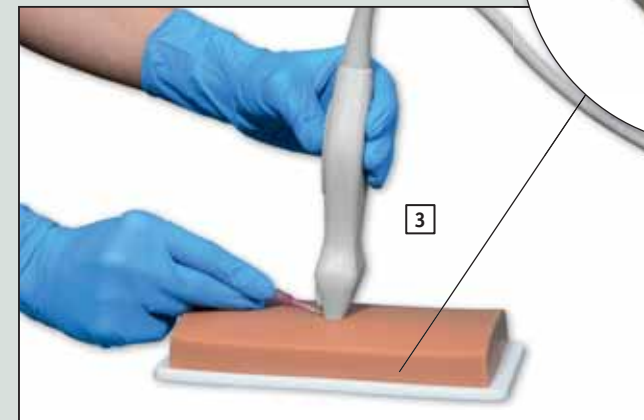
This training port is designed for use in suitable puncture trainers. The port has a fluid supply that can be connected with a blood reservoir (not included). The port can be punctured with real needles. Not sterile, not for human use.

■ Ref.no. R11053

3 Vascular Access Ultrasound Phantom

The Vascular Access Ultrasound Phantom is an excellent training phantom for the introduction and improvement of the techniques and psychomotor skills associated with successful ultrasound-guided vascular accessing. The unique material is flesh colored with the tactile feel and puncture resistance of human tissue. The very durable phantom material can be accessed 1,000s of times, is self-healing and can be refilled with the supplied stain resistant simulated blood. There is no need for special handling or refrigeration of the phantom.

■ Ref.no. R11052



1 Hemodialysis practice arm

This valuable training aid is easy to set up and use to demonstrate preparing the patient's arm for hemodialysis. An established fistula is accessible and the system can be pressurized with artificial blood so that there is an actual flashback when a needle is introduced. The artificial blood approximates the pale shades usually common in dialysis patients. Skin and vein replaceable. Comes with transport case.

■ Ref.no. R10018



1



2

2 Peritonealdialysis simulator

An accurate replica of a belly/pelvis torso for learning and practising, and also for demonstrating continuous ambulant peritoneal dialysis (CAPD). With Tenckhoff catheter and transport case.

Size: 46 x 31 x 46 cm, Weight: 9 kg

■ Ref.no. R10019

1 Pneumothorax training manikin ▶

Recommended by EMT (Emergency Medical Training) instructors, this model permits instruction of the delicate procedure for successfully managing chest wounds in which a collapsed lung interferes with the victim's respiration and blood flow. The model accepts needle and thoracotomy in the second intercostal space, in the mid-clavicular line, the fifth intercostal space in the midaxillary line. A realistic training aid to practice proper needle insertion which enables built-up air pressure to escape the thorax. Delivered with foot pump, replacement pleural cavity and carrying bag, without procedural needle.

Size: 23 x 48.5 x 48.5 cm, **Weight:** 3.6 kg

■ **Ref.no. R10037**



2 Chest tube manikin

Now there is a manikin designed specifically to teach the theory, anatomy, and skills needed to manage pre-hospital chest trauma, as well as ongoing chest tube maintenance. The right side of the manikin has two cut-away viewing areas to provide awareness of the anatomical relationships between the skin surface, musculature, ribs, and lungs. The left side has a pressurized tension pneumothorax site to relieve air that accumulated within the pleural space and is restricting lung inflation. There is also a site where chest tubes may be surgically placed to treat pleural effusion by draining fluids from the pleural space. The fluid colour, volume, and viscosity are controlled by the instructor. The Chest Tube Manikin is perfect for teaching the concepts and mechanics of closed water-seal drainage systems like "Pleur-Evac" type units. Manikin comes with two visual sites for chest tube maintenance, five replaceable surgical chest tube sites, five replaceable pneumothorax chest pads and a hard carrying case.

■ **Ref.no. R10130**

3 Chest drain simulator

Our chest drain trainer is a unique design, combining simulated tactile soft tissue within a practical and durable plastic casing. The practice and training of clinical and surgical techniques can be realistically achieved. The identification of anatomical landmarks, such as the sternal notch and intercostal (rib) spaces. The students can make surgical incisions through the simulated soft tissue. Blunt dissection can be practiced with forceps. Complete finger rotation is possible. Practice realistic Pneumothorax between ribs 2 and 3 (where the release of air can be clearly heard and felt). Pericardiocentesis, where fluid can be aspirated into a syringe. This is to demonstrate removal of blood from the pericardium. Ease of use: The simulator is accessible and easy to handle. The

outer casing opens via two metal clips making the replacement of component parts relatively easy. The casing stands on a series of sucker feet giving a firm and steady base on which to work.

■ **Ref.no. R10078**

4 Option: Pleura aspiration effusion kit

Enables practice of pleural aspiration/tap. Can be filled with different coloured fluids to demonstrate variable conditions

■ **Ref.no. R10078-1**



1



1 Ultrasound-guided thoracentesis simulator

The Ultrasound-Guided Thoracentesis Simulator features two types of puncture units: mid-scapular line access and mid-axillary line access.

It can be used for training of

- Patient positioning
- Recognition of anatomical landmarks by ultrasound
- Assessment of level and volume of pleural effusion
- Determination of insertion site
- Needle insertion and collection of the fluid

■ The Simulator has the following features:

- Excellent ultrasound image.
- Ribs that can be palpated.
- includes Strap-on puncture units to learn patient positioning and face-to-face communication.
- Body torso for one-man training.
- Two sites for access: right mid-scapular line and left mid-axillary line.
- Volume of pleural effusion can be controlled to set different levels of challenges.
- Aspiration of fluid
- Simulation of risks of complications
- Confirmation of puncture direction.

■ Ref.no. R16010

2 Ultrasound-guided thoracentesis simulator - Strap-on set –

This simulator offers the same features as R16010, but is used as strap-on type only.

It offers the following features:

- Excellent ultrasound image.
- Ribs can be palpated.
- Realistic needle-tip resistance and needle-penetrating feeling.
- Simulation of risks of complications.
- Puncture pads can be strap-on for learning patient positioning and face-to-face communication.
- Ref.no. R16011

2





1 Ultrasound-guided pericardiocentesis simulator

This simulator allows trainees to insert the needle under ultrasound guidance, pierce the “pericardial sac” and aspirate pericardial fluid.

It can be used for training of the following skills:

- Patient positioning
- Visualization of pericardial fluid under ultrasound scanning
- Landmark palpation
- Needle insertion to the pericardial space
- Pericardial fluid aspiration

Features:

- Puncture pad is durable and replaceable
- Offers images for appropriate locations to practice the subxiphoid approach and the parasternal approach
- Realistic needle tip feeling when the needle pierces the “pericardial sac”.
- Ref.no. R16012

2 Ultrasound-guided thoracentesis / pericardiocentesis simulator

This simulator is the combination between R16010 and R16012 and offers all features you can find in these two simulators. Using only one body, this product offers both training features at a reasonable price.

- Ref.no. R16013



1 Thorax trauma simulator

This unique model combines the most important procedures in thorax trauma treatment. It is made of life-like silicon material and provides realistic training feeling to the student.

The following procedures can be trained:

- Thoracentesis (left and right)
- Thoracic drainage (left and right)
- Pericardiocentesis
- Cricothyrotomy (surgical or puncture)

Supplied with spongy support, artificial blood and soft case.

- Ref.no. LM93



CONSUMABLES:

Neck cover, skin without cut,
10pcs pack

- Ref.no. LM93B1

Neck cover, skin with cut,
5pcs pack

- Ref.no. LM93B2

Thoracentesis puncture site, right

- Ref.no. LM93CR

Thoracentesis puncture site, left

- Ref.no. LM93CL

Thoracentesis puncture site, pair

- Ref.no. LM93D

Thoracic drainage site, right, with cut

- Ref.no. LM93ER

Thoracic drainage site, left, with cut

- Ref.no. LM93EL

Thoracic drainage site, right,
no cut, 5pcs

- Ref.no. LM93FR

Thoracic drainage site, left,
no cut, 5pcs

- Ref.no. LM93FL

Pericardiocentesis site

- Ref.no. LM93G

Skin for pericardiocentesis site

- Ref.no. LM93H





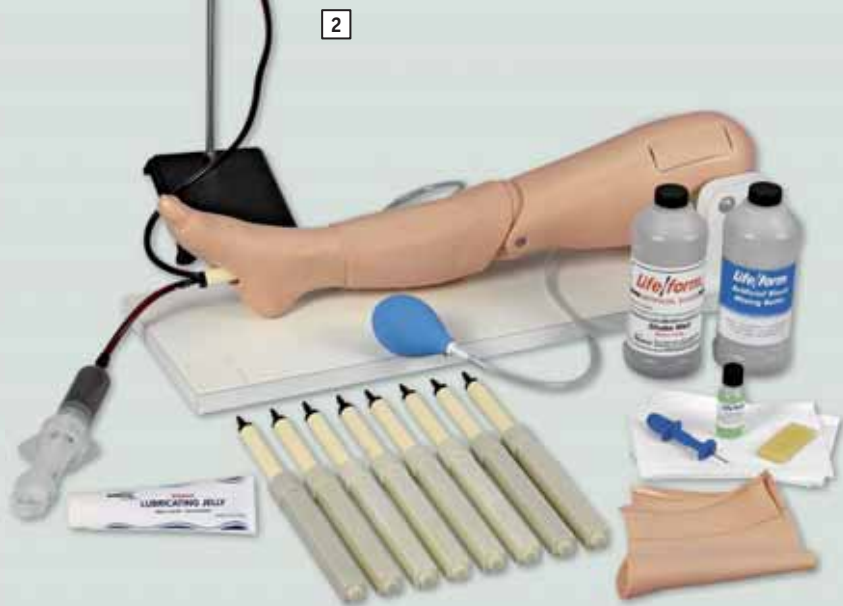
1



1 Intraosseous infusion trainer

This lower body of a six-month-old infant has two intraosseous injection sites. The bones are connected with a tubing system to allow aspiration of blood. Supplied with 10 replacement bones, 2 replacement skins and a transport case.

■ Ref.no. R10041



2

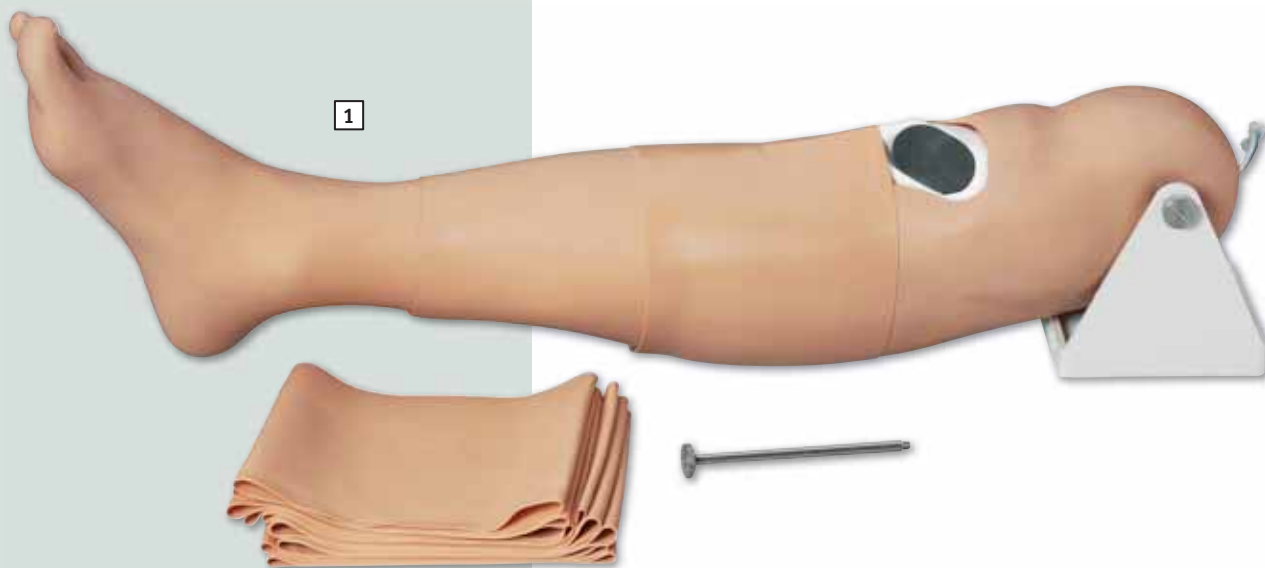
2 Child intraosseous infusion/femoral access leg

The Intraosseous Infusion/Femoral Access Leg is mounted on a stand for use as an independent skills station. Features for intraosseous infusion practice include: palpable landmarks including the patella, tibia, and tibial tuberosity; replaceable bones and skin; and a pressurized system to allow aspiration of fluid.

For femoral access, features include: palpable arterial pulse, realistic flashback from pressurized venous system, replaceable injection pad, and an articulated leg that allows proper positioning. 15-gauge intraosseous infusion needle included. Includes case.

Weight: 9 kg

■ Ref.no. R10143



1 Intraosseous training leg adult

Lower leg of an adult with the opportunity of training intraosseous access. Improve your training and explain the whole procedure of intraosseous access. Bone and skin are replaceable. Aspiration of fluid is not possible.

Weight: appr. 2 kg

■ Ref.no. R10721



2 Adult introsseous infusion simulator

Use to enhance training of introsseous infusion procedures using B.I.G. and EZ-IO devices or almost any other introsseous infusion devices available. The leg is fluid capable and a blood source is accessible through the injection site. Includes palpable landmarks, replaceable bones and skin, and a pressurized system to allow aspiration of fluid. Included with the simulator are 10 replaceable simulated bones, four replaceable skin pads, simulated blood, lubricating jelly, towels, I/O needle, and syringe with tubing in hard carry case.

Weight: 6.4 kg

■ Ref.no. R10722

1 ECMO Trainer Professional ▶

Simulator for training of extracorporeal Oxygenation. This training model features an arterial and venous circulation, both operated with automated pumps which can be adjusted in flow volume and pulsating rate. A real patient can be simulated with all possible conditions that may happen during the procedure. The model is suitable for VA- and VV-ECMO. The puncture and cannulation can be practiced using real materials and instruments. The arteries do have a lumen of 8mm, the veins of 10mm. This allows the use of common catheter types without any problems. The puncture pads (one each at left and right femoral puncture site and one at the jugular puncture site) are made of ultrasound capable material. This allows ultrasound control of the needle until it reaches the vessel tube. The Trainer can be used with a real ECMO machine and provides realistic fluid volume for realistic operation of the machine. The trainer also has contact points for 4-lead ECG. The contact points can be connected to a ECG simulator (not included). The veins also do have connectors for flow rate measurement.

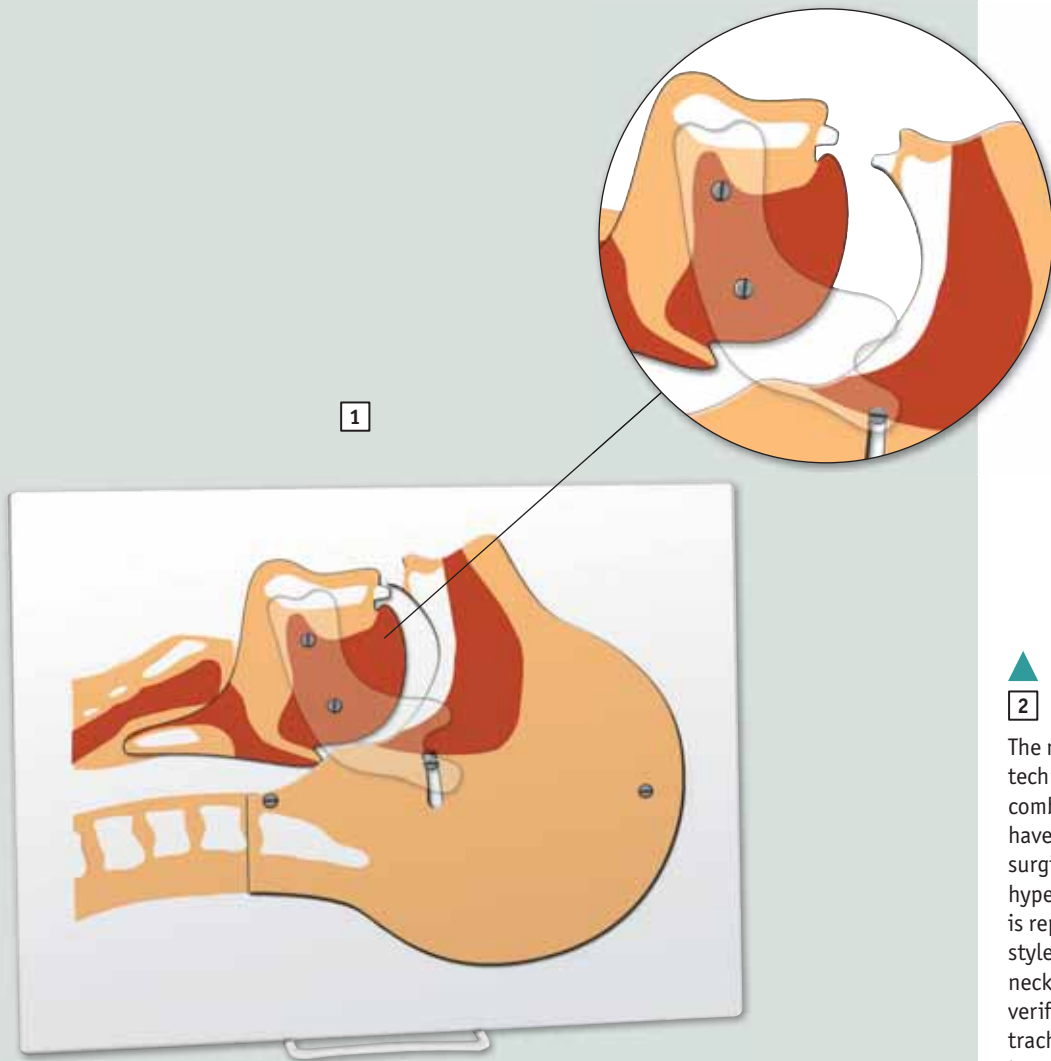
Because of the big diameters of the common cannulas big puncture holes are left after withdrawing the cannula, so the simulator has an integrated tube management system that allows the replacement of the vessel tubes within a few seconds and avoids the loss of precious training time due to vessel replacement. The tubing reservoirs are integrated into the models base invisibly, the base also works as lower part of the transport case with trolley rollers. The water reservoir and pump system are separated and can be connected to the trainer easily by quick lock connectors.

■ Ref.no. TF200



1





1 Airway simulation board

The Airway Simulation Board allows instructors to effectively demonstrate a closed and open airway. Jaw and head are moveable and show accurate representation of the head tilt and airway opening or closing. Head is approximately the same size as a normal adult. Made of 5 mm Plexiglas.

Size: 24 x 32 cm

■ **Ref.no.** R10142



2 Cricothyrotomy simulator

The newly designed Cricothyrotomy Simulator has been developed for learning and practicing the techniques necessary to perform needle or surgical cricothyrotomy procedures. Paramedics, EMTs, combat medics, flight nurses, anesthesiologists, and other emergency medical personnel will have the opportunity to strengthen ability and confidence to perform or assist in implementing surgical airways. Anatomically accurate landmarks aid in site training and allow for fast action. The hyperextended neck allows the user to determine the proper incision site. The trachea in the simulator is replaceable, as the airway passes completely through from top to bottom. This allows checking the stylet and obturator placement once the incision has been made. Complete with a chin and full-size neck, ties can be used to hold the obturator in a secure position. Inflation of the simulated lung verifies correct placement. Includes the simulator with base, six replaceable neck skins, six adult trachea inserts (four rigid, two soft), six child trachea inserts (four rigid, two soft), two simulated lungs, instruction manual, and hard carry case.

Weight: 9.1 kg

■ **Ref.no.** R10723

3 Replacement Neck Skin, 6pcs

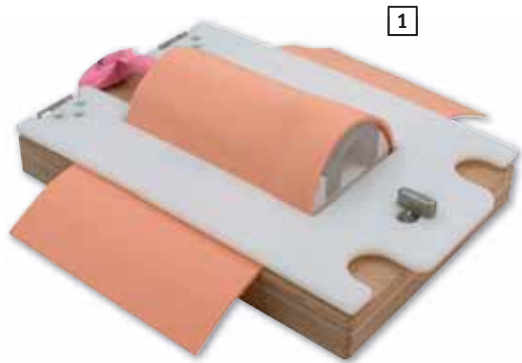
■ **Ref.no.** R10723A

4 Replacement Trachea Set, Adult, 6pcs

■ **Ref.no.** R10723B

5 Replacement Trachea Set, Child, 6pcs

■ **Ref.no.** R10723C



1

1 Cricothyrotomy and tracheostomy trainer „Frankfurt“

This universal trainer facilitates the training of Cricothyrotomy as well as Percutaneous Tracheostomy. It features a replaceable trachea and skin cover. Because of its special construction the skin cover is adjustable, allowing multiple procedures with only one skin cover. The trachea can be used for Cricothyrotomy as often as you like, it only has to be replaced after performing a Tracheostomy training. The trainer can also be used for transtracheal jet ventilation.

Includes: Trainer, 10 skin covers, 10 tracheae

■ Ref.no. R67110

2 Cricothyrotomy trainer „Berlin“

This universal trainer facilitates the training of Cricothyrotomy. It features a replaceable skin cover and a moveable chin. Because of its special construction the skin cover is adjustable, allowing multiple procedures with only one skin cover. The skin cover consists of two separate layers to allow practicing the vertical and horizontal incision in surgical Cricothyrotomy. The trainer can also be used for transtracheal jet ventilation.

Includes: Trainer, 10 skin covers

■ Ref.no. R67130

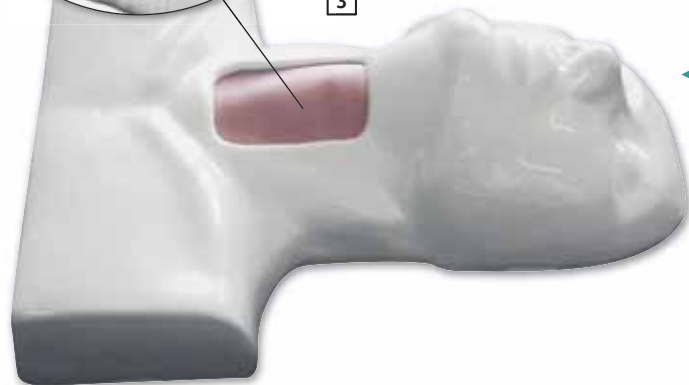


3

3 Cricotracheotomy trainer

An innovative non biological trainer is the Cricotracheotomy Trainer that simulates the laryngeal body tissue. Use of a simple disposable trachea transforms the trainer into a very effective low cost system.

■ Ref.no. R10095



2



4

4 Airway trainer

This handheld device offers a convenient and affordable method for basic life support instructors to show students the sizing and installation of upper airway devices such as oropharyngeal, nasopharyngeal, and larynx mask airways.

Weight: 0.9 kg

■ Ref.no. R10750



5

5 Infant airway trainer

This handheld device offers a convenient and affordable method for basic life support instructors to show students the sizing and intubation of upper airway devices such as oropharyngeal, nasopharyngeal, and larynx mask airways.

Weight: 0.6 kg

■ Ref.no. R10751

1 Adult deluxe airway management trainer with board

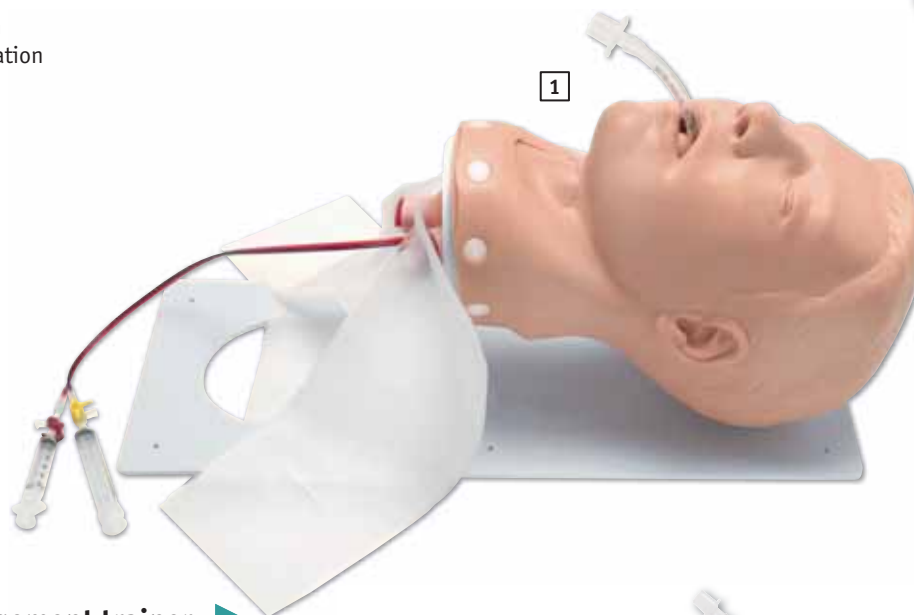
This adult airway maintenance head utilizes lifelike skin. The feel and an anatomy emphasizing accurate visualization features makes this trainer the choice for advanced airway management with the convenience of board mounting. Features include laryngospasm and tongue edema. Both lungs and stomach are visible for easy determination of successful intubation. All the anatomical landmarks are shown and the vocal cords are highlighted for easy viewing. The upper teeth break out if inappropriate technique is applied during intubations. The board is anchored to surfaces by suction cup feet. The cricoid area replacement skin allows for an economical way to teach and practice surgical airway techniques. All of the standard adjuncts for airway maintenance work in this model. No carotid pulse.

Product features:

- The only head of its kind
- New material – new design!
- More lifelike feel than older styles
- Material stretches more than human skin
- Will not be damaged by aggressive intubation
- Very flexible tongue
- Vocal cords reside in a neutral position

Weight: 7.7 kg

- Ref.no. R10118

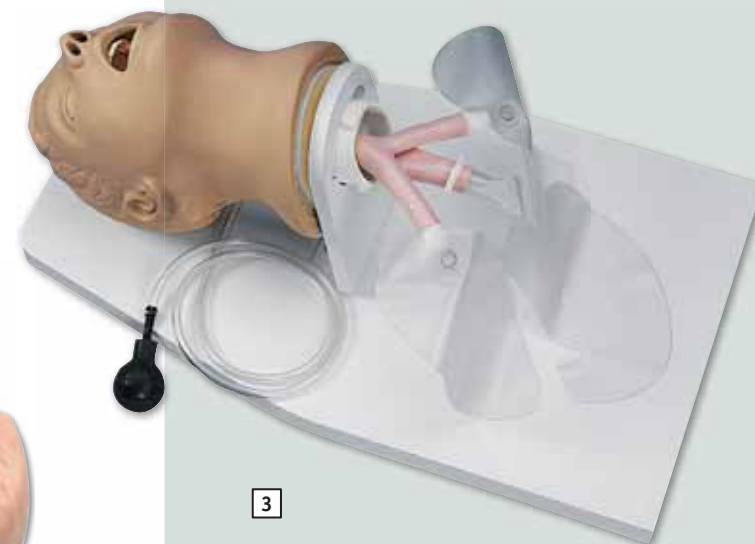
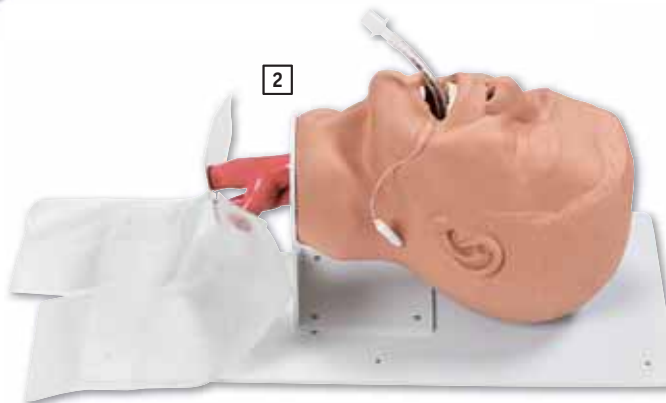


2 Economy adult airway management trainer with board

This detailed adult intubation head comes mounted for clinical teaching and practice of advanced airway management. Intubation procedures and skills, including anatomy knowledge and recognition, endotracheal intubation, nasotracheal intubation, use of field emergency airway adjunct tubes like LMAs and Combitube, securing, suctioning, and maintenance of the installation can all be practiced with this unit. A soft carry bag, lubricant, and instructions for use are included.

Weight: 4.5 kg

- Ref.no. R10752



3 Adult intubation head

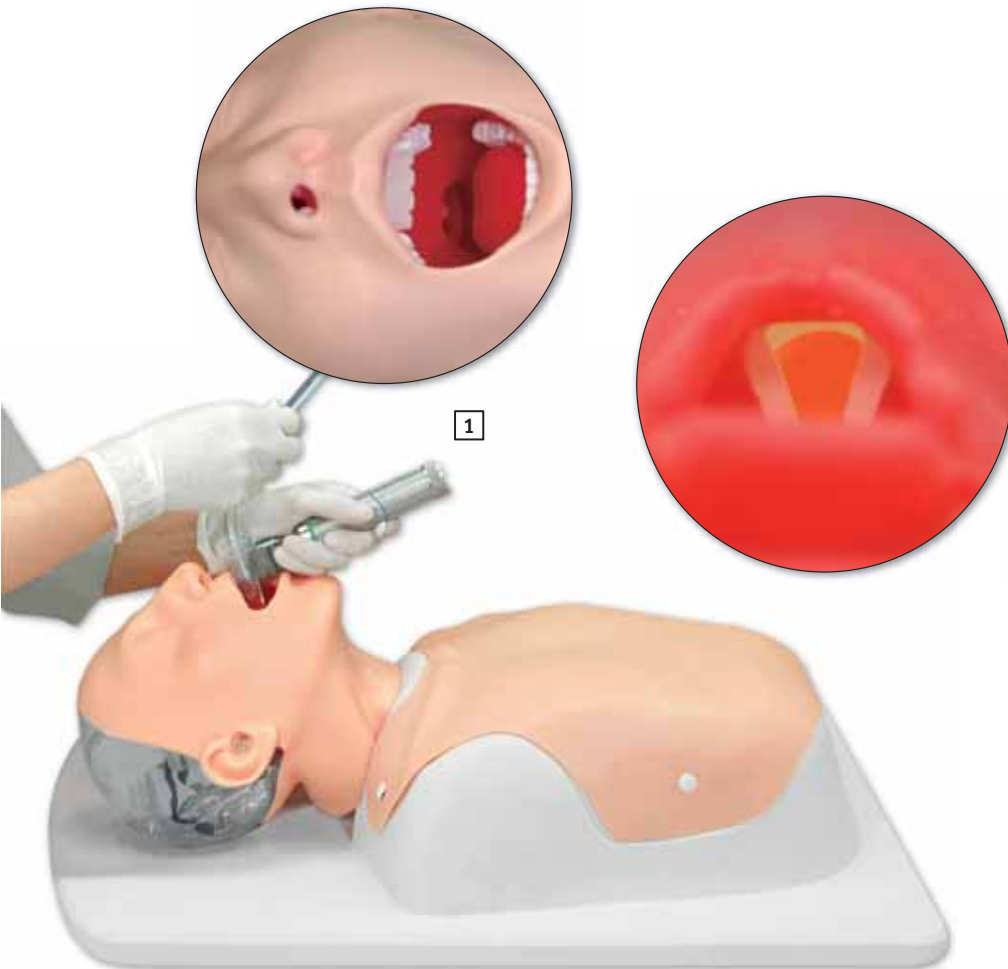
Adult head for oral, digital or nasal intubation training on a nonanesthetized patient. The model has anatomical structures like teeth, tongue, pharynx, larynx, epiglottis, vocal cords, trachea, lungs, oesophagus and stomach.

Training opportunities:

- oral, digital and nasal intubation
- endotracheal
- oesophageal oral
- pharyngeal tracheal lumen
- combitube
- suction and ventilation techniques
- cuff inflation
- Sellick manoeuvre

Removable from stand

- Ref.no. R10014



1 Difficult Airway Management Simulator

The Difficult Airway Management Simulator provides training for users of all levels of experience with availability of 24 different cases. The robust structure and stable base make the model compatible for various training scenarios such as emergency, pre-hospital or clinical settings. A variety of real clinical devices can be used for training, such as a laryngoscope, bag valve mask, or a video laryngoscope.

Features:

- 24 variations of patient scenario (including 1 normal case)
- 3 stages of mouth opening, 2 stages of neck flexibility
- 2 tongue sizes and 2 positions of the vocal cords
- Upper incisors are designed to break off when excessive force is applied.

Training Skills:

- Airway opening techniques (head tilt, jaw thrust)
- Bag-Valve-Mask ventilation
- Pre-intubation airway assessment
- Recreating the sniffing position
- Pressurization of external larynx to improve the laryngeal view
- Oral/Nasal Intubation
- Use of oropharyngeal airway (OPA)
- Use of nasopharyngeal airway (NPA)
- Use of laryngeal airway mask
- Use of video laryngoscope
- Confirmation of successful intubation by observation of thoracic and abdominal movement (lung expanding, stomach inflating) or auscultation of the chest
- Simulates incorrect procedures including intubation in the esophagus and unilateral intubation
- Practice securing tubes after intubation

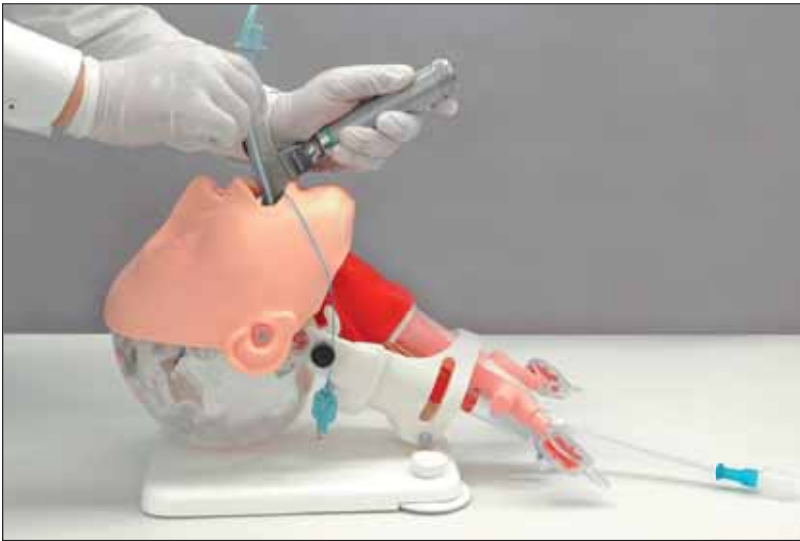
Comes with carrying bag, lubricant, 3 replacement incisors and instructional manual.

■ **Ref.no. R16060**

Optional:

Bronchial tree for bronchofiberscopy

■ **Ref.no. R16060-1**



▼ 1 Demonstration Model Difficult Airway Management

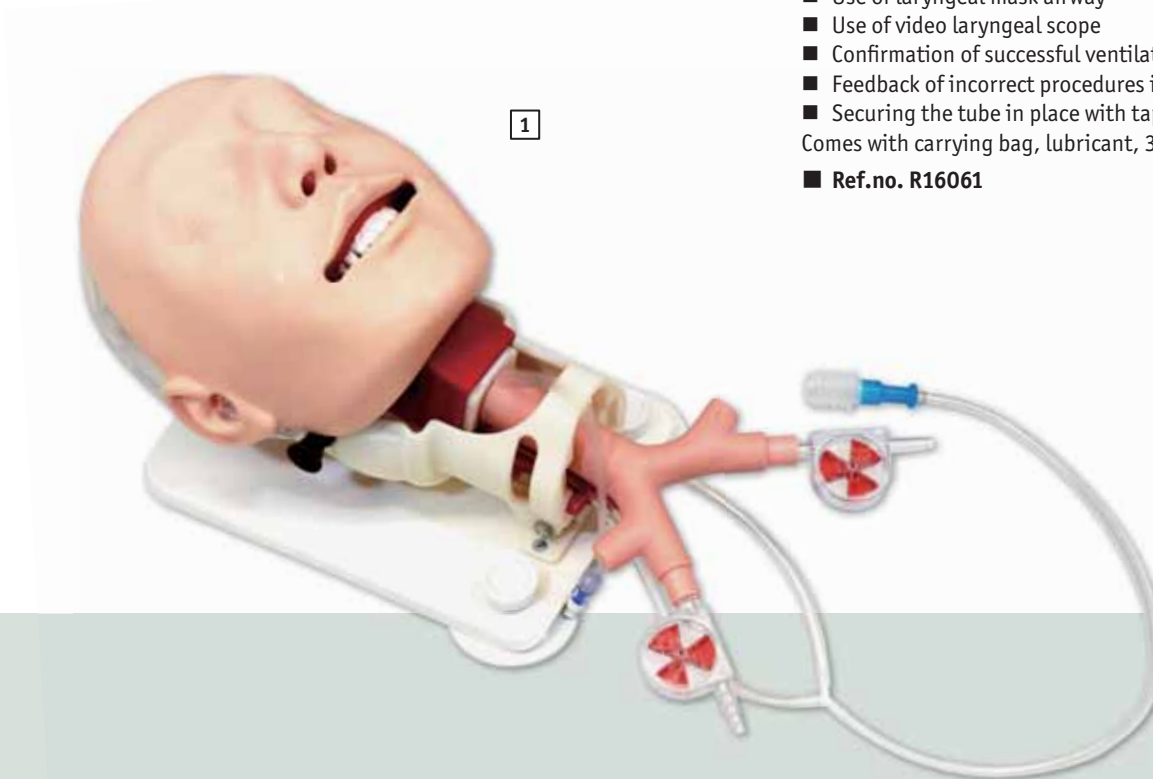
Compact table-top design, anatomical accuracy and a variety of Difficult Airway Management settings. Ideal for demonstration of skills and devices.

Features:

- Anatomically correct airway
- The incisors break when excessive force is applied.
- Successful tube tip placement can be confirmed by indicators.

Training Skills:

- Airway opening techniques (head tilt, jaw thrust)
 - Bag-Valve-Mask ventilation
 - Pre-intubation airway assessment
 - „Sniffing position“
 - Pressurization of external larynx to improve the laryngeal view
 - Oral/Nasal Intubation
 - Use of oropharyngeal airway (OPA)
 - Use of nasopharyngeal airway (NPA)
 - Use of laryngeal mask airway
 - Use of video laryngeal scope
 - Confirmation of successful ventilation by indicators.
 - Feedback of incorrect procedures including esophagus intubation and unilateral intubation
 - Securing the tube in place with tape or Thomas™ endotracheal tube holder
- Comes with carrying bag, lubricant, 3 replacement incisors and instructional manual.
- Ref.no. R16061

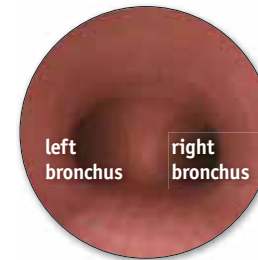
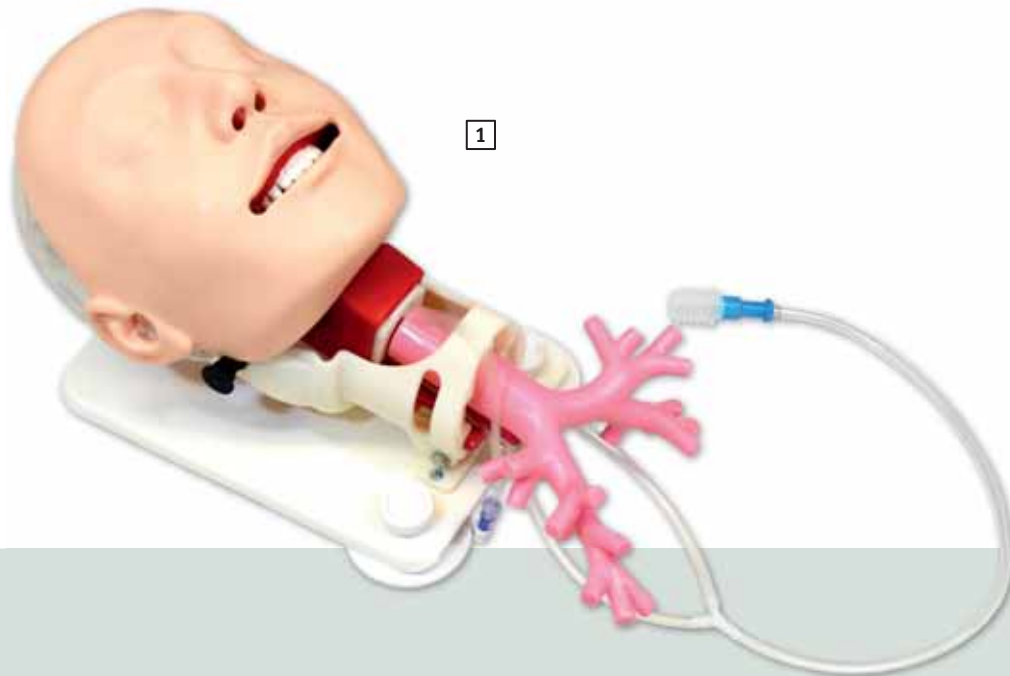


1 Difficult Airway Management Simulator for Bronchofiberscopy

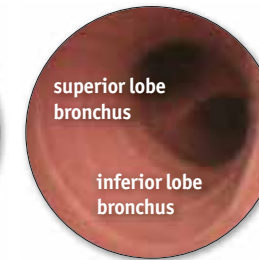
This trainer allows for realistic training in insertion and management of a fiberscope. Anatomically correct trachea and bronchi provide realistic view through a scope, allowing recognition of bronchus and bifurcations for segmental bronchi.

Training Skills:

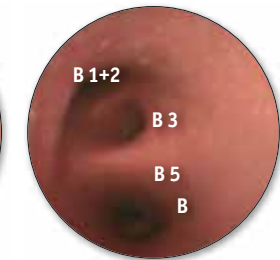
- Insertion and management of a fiberscope
- Recognition of bifurcations by a fiberscope
- Airway opening techniques (head tilt, jaw thrust)
- „Sniffing position“
- Ref.no. R16062



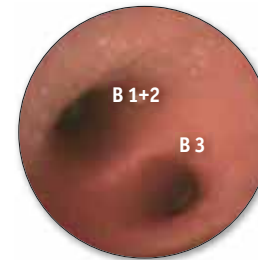
Tracheal bifurcation



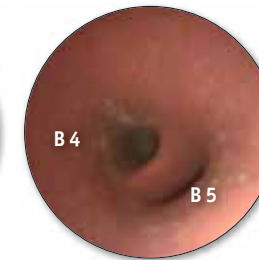
Bifurcation for left lobe bronchus



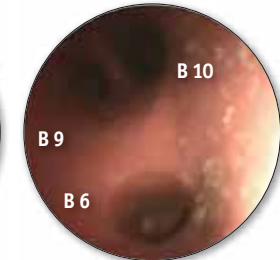
Bifurcation for left superior lobe



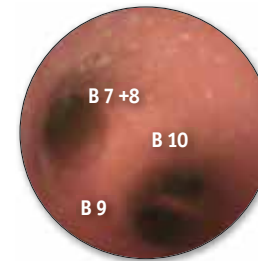
Bifurcation of segmental bronchi in left superior lobe



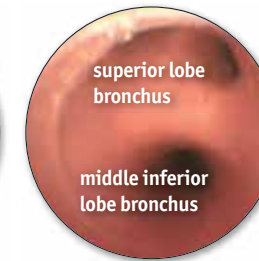
Bifurcation of segmental bronchi in lingula



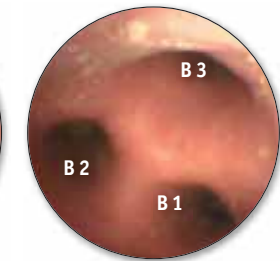
Bifurcation for left inferior lobe



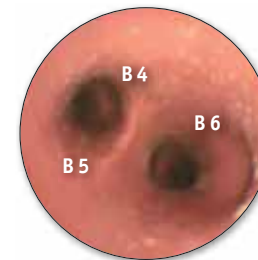
Bifurcation of segmental bronchi in left inferior lobe



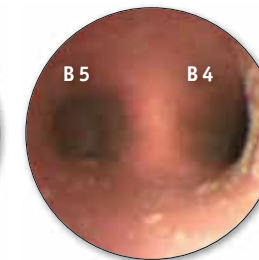
Bifurcation between right superior lobe bronchus and middle lobe bronchus



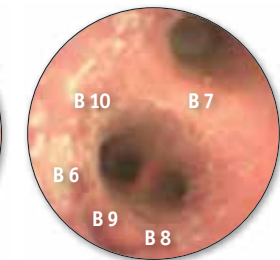
Bifurcation for right superior lobe



Bifurcation between right middle lobe bronchus and inferior lobe bronchus



Bifurcation of segmental bronchi in right middle lobe



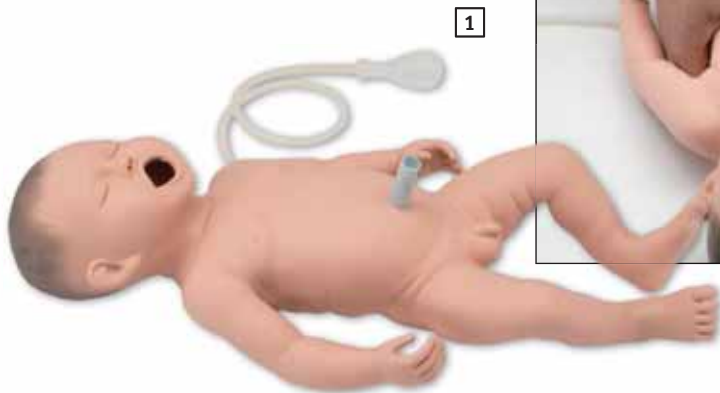
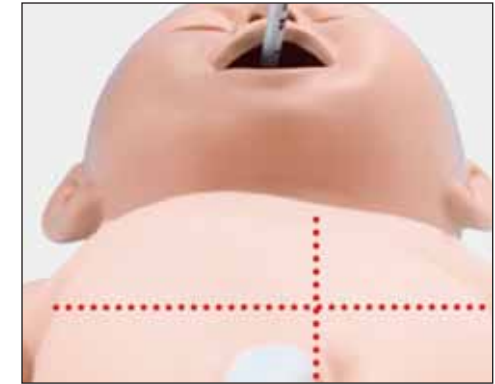
Bifurcation of segmental bronchi in right inferior lobe

1 Intubation- and reanimation neonate

Life size Neonate with the opportunity of intubation and bag valve mask ventilation as well as chest compression.

Features are:

- Use of intubation tube or laryngeal masks
- Recognition of one-sided lung intubation
- Bag valve mask ventilation
- Oral and nasal suction practice
- Chest compression
- Umbilical vein catheterisation
- Determination of heart rate at umbilical cord (manual)
- Ref.no. LM89

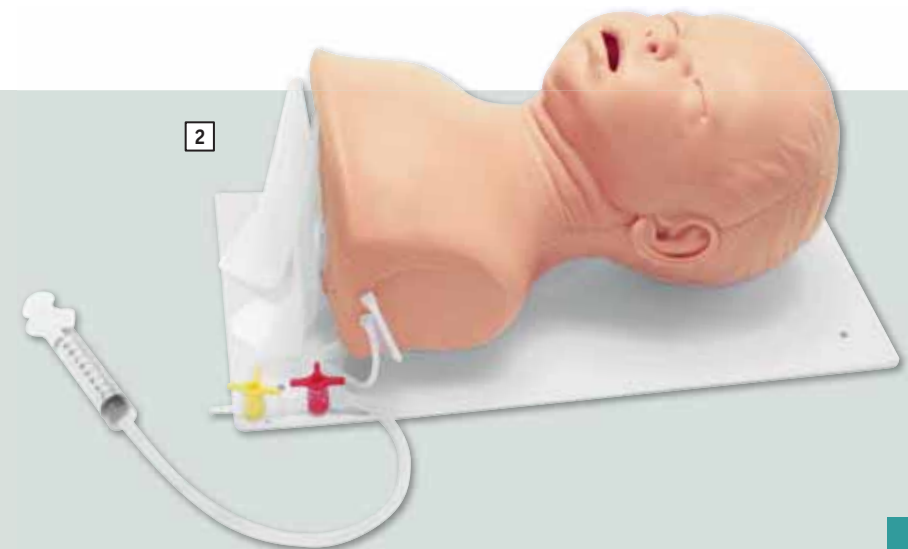


2 Advanced Infant intubation head

This station trainer incorporates the new lifelike skin technology. The advantages of durability and lifelike appearance, in association with the convenience of a lightweight stand, put this device at the head of the class for pediatric airway training. This new material eliminates tearing of the airway, saving the need for costly repairs caused by beginning student intubation attempts. Translucent property allows for lifelike illumination of the airway and neck as the skill is attempted. Vocal cords are highlighted for easy viewing, the tongue swells, and all the anatomical landmarks are present.

Weight: 2 kg

■ Ref.no. R10117





Choking torso

This life-size torso allows practice of abdominal/chest thrust back blow procedures (Heimlich manoeuvre) and mouth sweep for clearing a blocked airway. When correct procedures are performed, the manikin will expel the object causing an obstruction. Made of durable vinyl to create tactile realism.

Features include:

- Anatomical landmarks such as ribcage, xiphoid process and jugular notch

Supplied with choking objects, shirt and soft carrying bag.

1 Infant choking manikin

Size: 66 x 21 x 21 cm, Weight: 3.3 kg

■ Ref.no. R10141

2 Adult

Size: 79 x 46 x 25.5 cm, Weight: 7.3 kg

■ Ref.no. R10038

3 Adolescent

Weight: 4.6 kg

■ Ref.no. R10039

4 Child

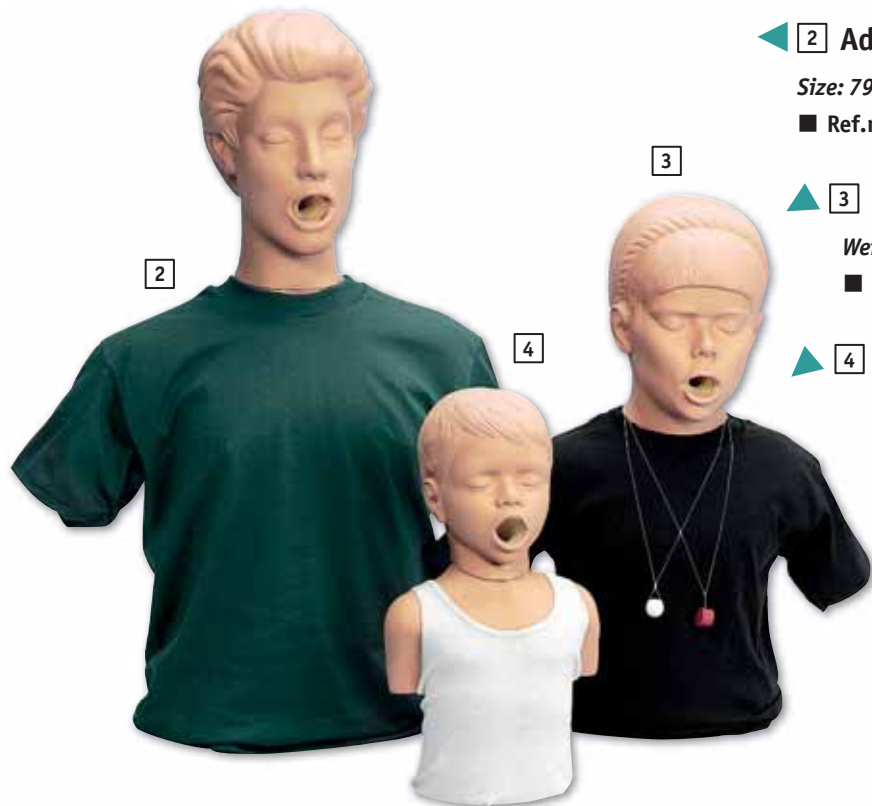
Weight: 2.5 kg

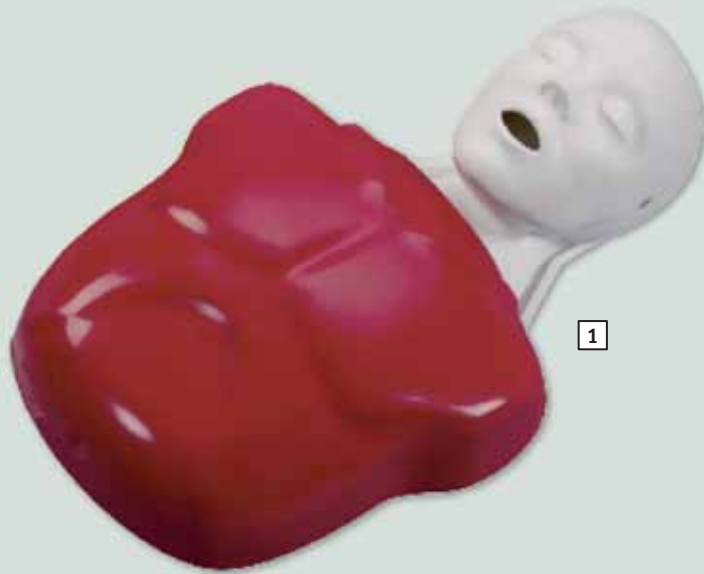
■ Ref.no. R10040

5 Obese choking manikin

Size: 71 x 46 x 26 cm, Weight: 11 kg

■ Ref.no. R10140





AVAILABLE SUPPLIES:

2 Replacement airways

Pack of 100 pcs

■ Ref.no. R10090A

3 Airway insertion tool

For easy airway replacement

■ Ref.no. R10090B

1 Basic Buddy CPR manikin

The Basic Buddy CPR Manikin is an inexpensive manikin designed for teaching the techniques of CPR. This manikin offers an affordable way to provide each student with a CPR manikin. The one-piece, disposable lung/mouth protection system makes this manikin completely sanitary — there is no risk of cross contamination and no need to sanitize the manikins after use! The airway opens using the head tilt/chin lift method, and there is a visible chest rise when ventilated. The xiphoid process provides an anatomical reference point.

Basic Buddy

Includes 10 airways

■ Ref.no. R10090

Basic Buddy 5-Pack

Includes 5 manikins, carry bag and 50 airways

■ Ref.no. R10090-1

Basic Buddy 10 Pack

Includes 10 manikins, carry bag and 100 airways

■ Ref.no. R10090-2



4 Prestan Ultralite Manikin

Prestan is pleased to offer the newest and most portable manikin, the Ultralite Manikin. The Ultralite Manikin is amazingly easy to set up and is sold in a convenient and lightweight 4-pack for efficient training-on-the-go. This durable manikin offers an affordable tool for CPR training, with all the quality and realism you expect from Prestan.

Features:

- Uniquely fast and easy set-up
- Stackable torsos and heads generate a compact package for transporting multiple units
- Clamshell opening provides easy access
- Manikin is easy to clean
- Vinyl and latex free
- Compatible with AED Trainer pads
- Anatomically correct design includes xyphoid process
- Realistic chest compressions to a 5cm depth
- Life tested to a half-million compressions
- Realistic head tilt
- Visible chest rise with lung bag use
- Unique torso design for realistic feel

■ Ref.no. R19050

The suitable AED trainer for this model can be found on [page 274](#)

1



1 Prestan CPR torso with indicating function

Simple to use CPR Manikin with sanitary airway/face shield. For use with single students using the sanitary airway/face shield or for multiple students use with optional filtered face shield to avoid infections. The torso has a built-in indication function for compression depth and compression rate. The correct compression depth is indicated by an audible „click“ sound, the compression rate by a multi-colour light display. Up to 60 compressions per minute a red light lights, above the light changes to orange. If the student reaches 80 compressions per minute this is shown by one green light. Reaching 100 compressions per minute is indicated by two green light meaning the compression rate is ok. If the student slows down the colours change backwards. If the compression depth is not enough, the lights are shut off immediately and one red light is flashing. The model is supplied with a carrying bag, is easy to clean and needs no special service. The model comes with torso, carrying bag, 10 sanitary airway/face shields and one filtered face shield.

■ Ref.no. R19100

AVAILABLE SPARE PARTS:

2 Sanitary airways

Set of 50pcs

■ Ref.no. R19100A

3 Face shields

50pcs for Group education

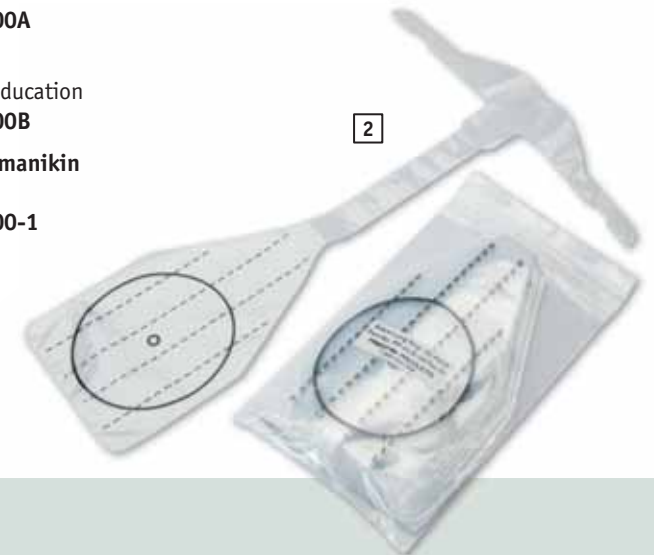
■ Ref.no. R19100B

4 Prestan CPR manikin

Set of 4pcs

■ Ref.no. R19100-1

2



1 Little Anne QCPR ▶

The proven training model Little Anne is now available with real-time-feedback with free app. The Little Anne manikin has been developed to provide effective adult CPR training without compromising realism or quality. Its durable and convenient design makes hands-on practice affordable for every student.

- Educationally effective by offering all of the essential features necessary for learning quality adult CPR
- Realistic anatomical landmarks provide the essential features necessary to teach adult CPR techniques
- Durable construction allows unequalled long-term use
- Oral and nasal passages allow realistic nose pinch required for mouth-to-nose ventilation
- Natural obstruction of the airway allows students to learn the important technique of opening the airway
- Anatomically correct landmarks and sternal notch allow the student to practice identification of all anatomical landmarks relevant to adult CPR
- Audible feedback reinforces correct compression depth. An optional "clicker" feature signals the correct compression depth
- Realistic chest compression resistance allows the students to experience the amount of pressure needed to perform proper chest compressions in a real-life situation
- Economical disposable airways for quick and easy clean-up
- Removable and reusable faces for convenient and affordable maintenance
- Now available with built-in sensors, results can be displayed in real-time by Learner- or instructor app

■ **Ref.no. R20051**

Spare parts:

Replacement face skins, 6pcs

■ **Ref.no. R20050A**

Replacement airways, 24pcs

■ **Ref.no. R20050B**

Replacement airways, 96pcs

■ **Ref.no. R20050C**

Options:

Upgrade set for existing Little Anne Models

■ **Ref.no. R20052**



1



2

2 Econo VTA (Visual Training Assistant) CPR Trainer

- Simple face shield lung system means no cleaning, disinfecting, or disassembly is required
- Features head tilt/chin lift feature for opening the airway, tough vinyl skin for extended service, and a foam-filled torso for resistance to compressions
- Palpable landmarks ensure proper hand placement
- Observable chest rise verifies ventilation
- Rate light comes on when the correct rate is achieved
- Second light comes on to show correct depth with proper release
- Both lights on indicate the delivery of quality CPR
- Includes three airways and instructions
- **Ref.no. R10068**

▼ **1 Brad compact
CPR training manikin**

This economical CPR manikin is constructed of soft, realistic vinyl plastic over polyurethane foam for a “human” feel. Features include a longer torso for realistic abdominal thrusts, realistic head tilt and chin lift for opening airway, can easily be manipulated to realistically simulate airway obstruction or choking situations, and a user-friendly lung/airway design that eliminates cleaning. Includes kneeling pads and carry bag, three mouth/nosepieces and three disposable lung/airway systems.

Size: 71 x 46 x 25 cm, **Weight:** 7 kg

■ **Ref.no. R10054**



**2 Brad CPR manikin
with light controller**

Model as **R10054**, but with light indication showing proper hand position, adequate chest compression and adequate air volume

■ **Ref.no. R10059** (see **1**)

AVAILABLE SUPPLIES:

Mouth/nosepieces

Pkg. of 10

■ **Ref.no. R10054A**

Lung/airway systems

Pkg. of 24

■ **Ref.no. R10054B**

3 Jaw Thrust Brad ▶

Emerging from our very successful Brad CPR manikin, comes the new Jaw Thrust Brad. This manikin offers all of the dependable characteristics that you’ve come to expect ... durability, economy of purchase, ease of use, and simple function with the overall cost of teaching classes held to a minimum. With moveable jaw. Includes kneeling pads and carry bag.

Size: 71 x 46 x 25 cm,

Weight: 8 kg

■ **Ref.no. R10087**



▲ **4 Jaw Thrust Brad
CPR Manikin with
light controller**

Model as **R10087**, but with light indication showing proper hand position, adequate chest compression and adequate air volume

■ **Ref.no. R10088** (see **3**)

AVAILABLE SUPPLIES:

Mouth/nosepieces

Pkg. of 10

■ **Ref.no. R10087A**

Lung/airway systems

Pkg. of 24

■ **Ref.no. R10087B**

1 Adam training manikin ▶

Rugged and easy to use, these manikins give instructors a highly effective asset to their programs and provide students with a thorough CPR training experience. They come with 10 low-cost, disposable airway systems and individual mouth/nosepieces, which can be sanitized for reuse. Lifelike, anatomical landmarks (carotid pulse, sternum, rib cage, and substernal notch) and the realistic resistance to chest compression help students learn with accuracy and perfect their lifesaving skills. Lightweight and portable. Comes in a carrying bag with built-in kneeling pads.

Weight: 9 kg

■ Ref.no. R10058



◀ 2 Adam CPR manikin with light controller

Model as **R10058**, but with light indication showing proper hand position, adequate chest compression and adequate air volume.

■ Ref.no. R10053

AVAILABLE SUPPLIES:

Mouth/nosepieces, Pkg. of 10

■ Ref.no. R10053A

Lung/airway system, Pkg. of 10

■ Ref.no. R10053B



▶ 3 Adult CPR torso, obese

This model has the same technical features as R10054 but has a different optical appearance. Since many of the typical victims are overweight and older this model makes the training closer to life.

■ Ref.no. R10051

SPARE PARTS:

Replacement Mouth/nose pieces, 10 pcs

■ Ref.no. R10051A

Replacement airway system, 24 pcs

■ Ref.no. R10051B



closed

1



2

1 Prestan AED trainer

This AED trainer offers everything you expect from an AED trainer. Platform independent, rugged, economically priced, and with low consumables cost it is the perfect AED trainer for everyone doing AED training. It comes with two languages (English/German), which can be switched easily pressing a button. Pre-programmed scenarios cover the whole range of training. The teacher can pause the scenario at any time to comment the training. The scenario continues at the same position after pause function is deactivated. The model contains the current guidelines and can be updated at any time by simply changing the easy to replace module. The pads do have a sensor indicating whether they are attached or not. Each pad can be used 25 to 30 times before it is replaced. Exchanging the pad is easy because of a simple connecting system. Easily switch from automatic or semi-automatic mode to match the AED on site. The AED trainer is operated with normal batteries. Supplied with carry bag and manual.

■ Ref.no. R19500

OPTIONS:

2 Remote control for AED trainer

■ Ref.no. R19500-1

CONSUMABLES:

3 Replacement pads, 1 pair

■ Ref.no. R19500A

4 Prestan AED UltraTrainer

The Prestan AED UltraTrainer offers features not found on any other universal AED trainer and is the most accurate representation of how current AEDs in the marketplace perform.

This compact and lightweight unit will give students a realistic training experience with training pads that sense when they are placed on a manikin. In addition, the pads are preconnected and voice prompts are clear and calm.

Instructors can customize their training classes with options to turn on or off the compression metronome and/or the "give breaths" voice prompt.

With a 3-year warranty and durable long-lasting pads, the AED UltraTrainer was built to last.

Prestan is the First and Only Universal AED Trainer with:

- Dual Graphic (Adult/Child) Training Pads
- Pad Sensing System
- Preconnected Pads
- Child Training Button
- Child AED specific voice prompts
- Automatic or Semi-Automatic shock simulation
- CPR Coaching, "Give Breaths" voice prompt
- Turn on or off compression metronome
- Turn on or off "Give Breaths" prompts
- Low Battery warning
- 3 Year Warranty

Other features:

- Two languages
- 2015 Guidelines Compliant and Upgradable
- Play/Pause Button
- 5 Training Scenarios
- Ref.no. R19550



4

Resusci Anne First Aid

The Resusci Anne for First Aid offers optimal realism in adult First Aid education. With its modular construction, students can also quickly sharpen their trauma treatment and extrication skills by adding the First Aid or Rescue limbs for a more true-to-life training exercise

Product Benefits

- Realistic full-body anatomy and landmarks provide the essential features necessary to learn realistic victim handling and adult First Aid skills
- High-quality, durable construction enable training in a variety of environments
- Modular design allows various limbs to be attached to produce a more realistic training experience.
- Easy-to-use and maintain faces and disposable airways give you a cost-efficient solution for First Aid training

Product Features

- Natural obstruction of the airway allows students to learn the important technique of opening the airway
- Head tilt/chin lift and jaw thrust allows students to correctly practice airway maneuvers
- Occluded airway with hyperextension stresses proper head position
- Realistic resistance for chest compressions
- Physiologically correct design allows practicing identification of anatomical landmarks
- Articulating arms, legs, and head allow realistic weight and handling of an adult during obstructed airway maneuvers.
- Carotid pulse simulation to realistically check for pulse.
- Disposable non-rebreathing airways are suitable for use by more than one student during class and are quick and easy to change after each training session.
- Removable/reusable faces allow each student to have their own mouth-to-mouth face and offers easy after class cleaning and sanitation



1 Resusci Anne First Aid torso

Including a carry bag for easy storage.

- Ref.no. R20060 (not pictured)

2 Resusci Anne First Aid full body

Including a trolley case for transport and storage.

- Ref.no. R20065

CONSUMABLES:

Replacement face skins, set of 6

- Ref.no. R20060A

Replacement airways, set of 24

- Ref.no. R20060B



SmartMan ►

The SmartMan series provides for excellent BLS training (chest compressions, ventilations and CPR). SmartMan features state of the art feedback with visual color feedback for chest depth, rate and recoil of the chest, as well as too deep and hitting the bottom. Ventilations use the same easy to understand colors for volume, rate and interval. You always receive a score on your performance and Feedback can be turned on and off with the click of a single button. This product provides for Advanced Training features. For example, it adds the ability to turn on a Metronome and to turn the visual color Feedback On or OFF with a single click. The trainer can pause during the training to correct or make a point, then click continue. The Restart button makes it easy for students to work the system themselves and to have all students in the class have hands-on time. The trainer can add a comment to a particular file at any time.

The ALS PRO version also has a special Trainer Tools section. This allows the trainer to convert a name list directly into student logins and you can put them into classes. The trainer has full access to all student records when not connected to the manikin. There is a feature to quickly make a class list with names, results and dates. The software is plug and play with free updates, no user fees and no requirement to register. Internet is not required and there are no batteries.

■ Feedback

The research is clear that in order to attain a high quality of CPR performance, feedback is necessary. SmartMan is easy to understand and is able to demonstrate that people achieve very high performance levels.

■ Real Time

■ As you perform on the manikin, SmartMan will produce a visual response. With 3 basic colors it is easy to respond and hone your performance so that it is optimal for the patient.

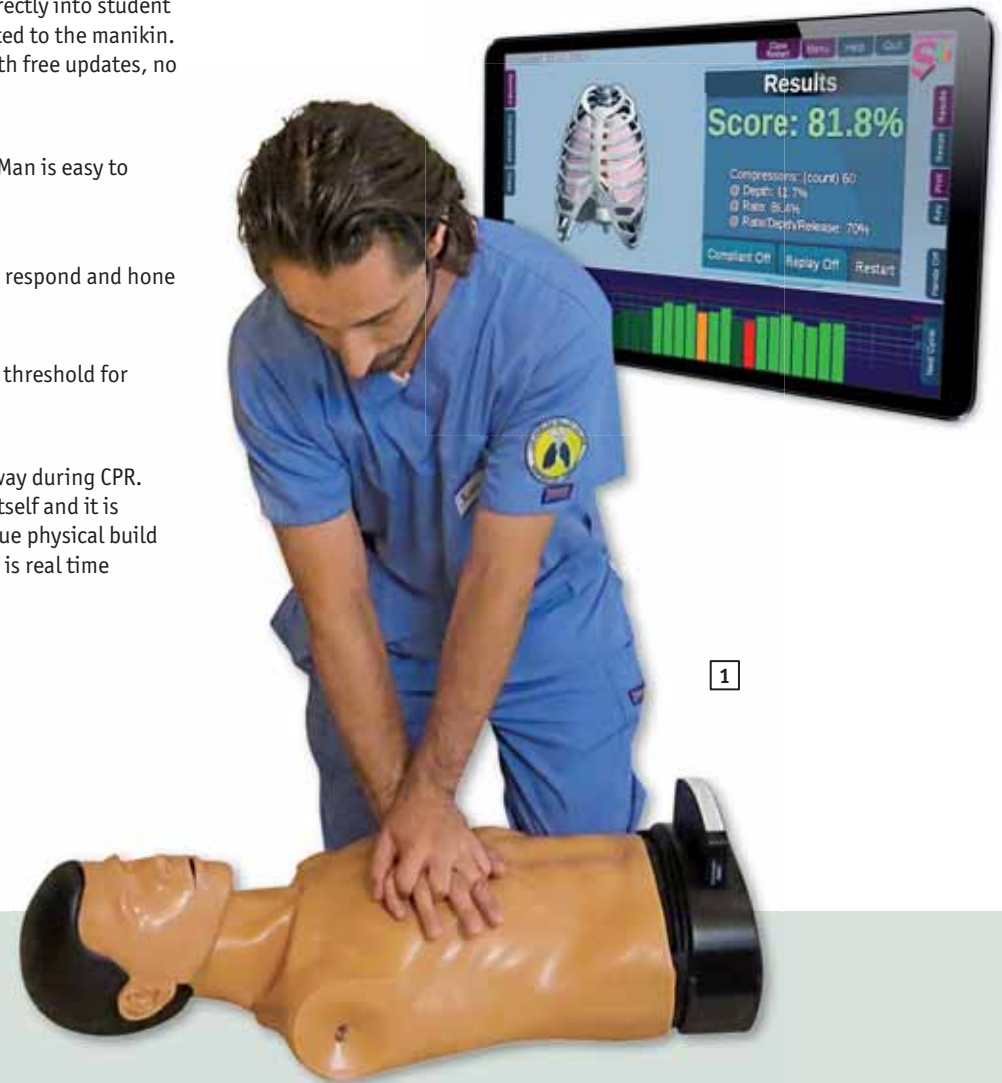
■ Threshold

SmartMan provides objective feedback. An objective accurate metric is important for attaining the required threshold for performing quality CPR that is required to improve survival rates.

■ Airway

The airway manikins of this series provide a high fidelity airway for practicing establishing an advanced airway during CPR. It requires head tilt-chin lift and has visible vocal cords. It will provide feedback on the intubation process itself and it is designed to provide feedback when intubating during ongoing Chest compressions. This manikin has a unique physical build so that the interaction of the chest compressions and the ventilations can be felt when practicing and there is real time feedback on the interaction.

Supplied with standard carry bag and Software.

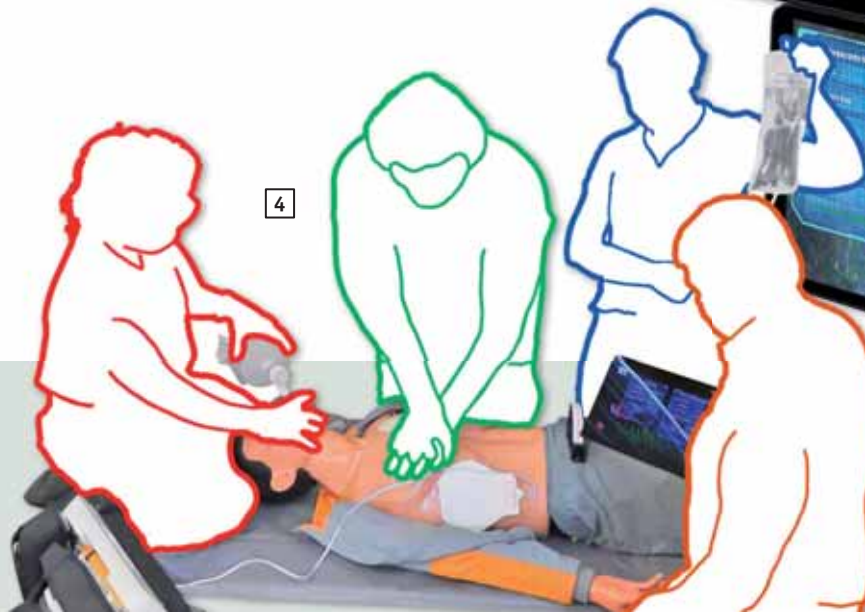


The following product versions are available:

- 1 SmartMan BLS CPR PRO Torso with Software
■ Ref.no. R66010
- 2 SmartMan ALS Airway CPR PRO with Software
■ Ref.no. R66020
- 3 SmartMan Megacode PRO Torso with Software
■ Ref.no. R66030
- 4 SmartMan Simulator – Full body incl. Tablet, Router and Software
■ Ref.no. R66040
- 5 SmartMan Baby PRO with Software
■ Ref.no. R66050
- 6 SmartMan Newborn with Software
■ Ref.no. R66060

Optional:

- 7 Arms and Legs for SmartMan
■ Ref.no. R66070
- 8 IV Arm for SmartMan
■ Ref.no. R66080
- 9 SmartMan IO Legs Set
■ Ref.no. R66090
- 10 Transport bag for SmartMan
■ Ref.no. R66100



Resuci Anne® QCPR®

Resuci Anne® QCPR® sets a new standard for high quality CPR training. The new feedback devices provide learners and instructors with clear feedback on how to improve their performance, the opportunity to improve competency through debriefing, new possibilities to coach even more effectively and to save and analyze training records.

Product Benefits

Resuci Anne® QCPR® is built with the purpose to:

- Measure CPR performance
- Assess the results of the performance
- Facilitate good Feedback to the instructor

Product Features

- Realistic anatomy including head tilt, chin lift, compression depth, compression force and chest rise.
- Sensor indicates correct hand placement
- Ventilation system provides appropriate chest rise with BMV (Bag Valve Mask) and MTM (Mouth to Mouth).
- Enhanced measurement and feedback capabilities.
- Wireless connectivity with SimPad SkillReporter or Resuci Anne Wireless SkillReporter software
- Wired connectivity with SkillGuide or SimPad SkillReporter
- Guidelines compliant

Optional Configurations

Resuci Anne® QCPR® is available in configurations for AED Training, QCPRD Training and airway management

- AED Training: Compatible with AED Trainer 2 and AED Trainer 3
- QCPR-D Training: Compatible with live defibrillators
- Airway Head: For training airway management

Control units (optional):

- SimPad SkillReporter™

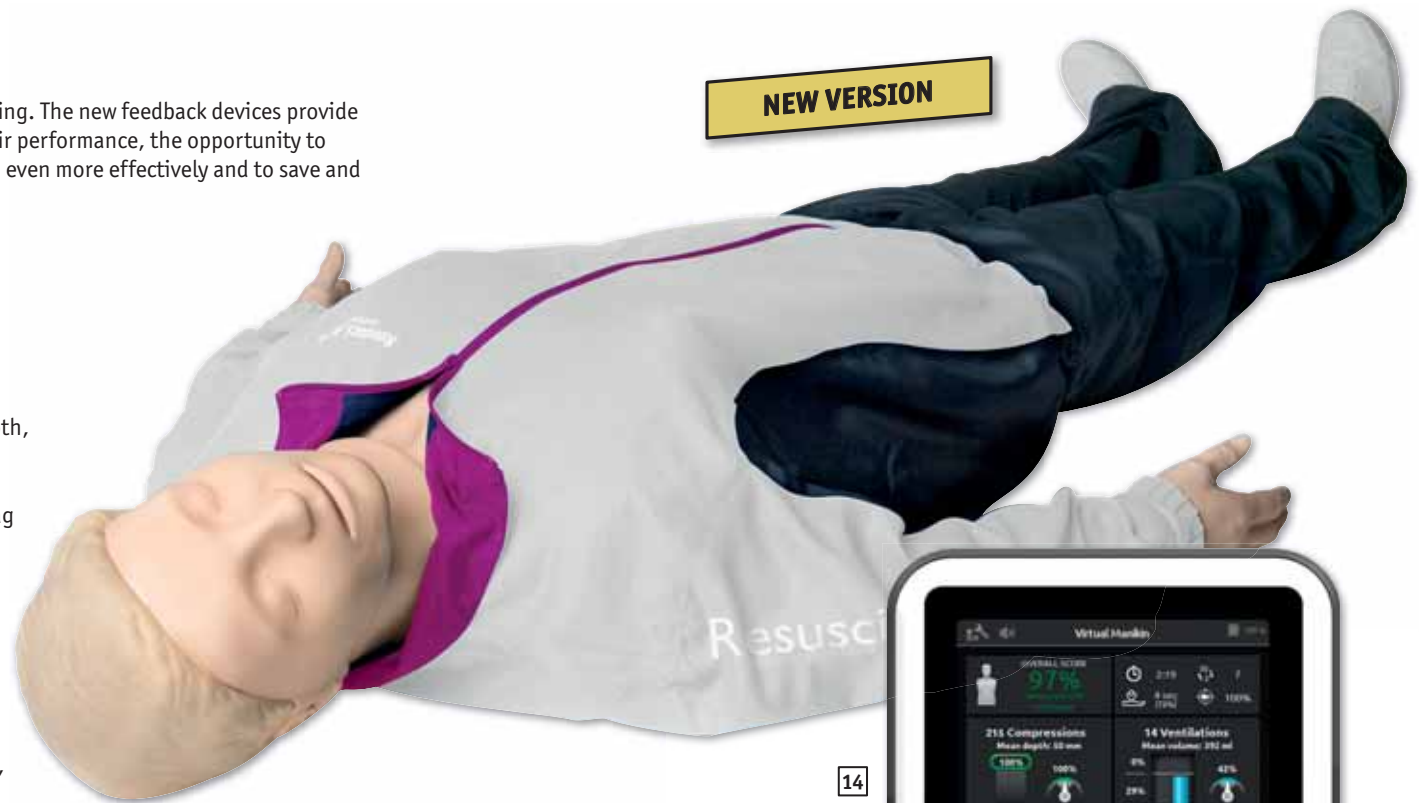
Offers mobility, simplicity and flexibility to help increase the quality of CPR. Advanced feedback per individual Resuci Anne® QCPR® manikin or managing 1 – 6 Resuci Anne® QCPR® manikins

- SkillGuide

Providing real time feedback and single session debriefing

- Resuci Anne® Wireless SkillReporter™ Software (PC)
Available for Microsoft Windows only. Laptop not included.

An easy to use Quality CPR training solution.



14



AVAILABLE VERSIONS:

1 Resusci Anne QCPR torso

With carry bag.

■ Ref.no. R20082

2 Resusci Anne QCPR torso with airway head

With carry bag.

■ Ref.no. R20083

3 Resusci Anne QCPR full body

With transport trolley.

■ Ref.no. R20084

4 Resusci Anne QCPR full body with airway head

With transport trolley.

■ Ref.no. R20087

5 Resusci Anne QCPR torso AED

Can be used with Laerdal AED trainers. With carry bag.

■ Ref.no. R20088

6 Resusci Anne QCPR torso AED with airway head

Can be used with Laerdal AED trainers. With carry bag.

■ Ref.no. R20089

7 Resusci Anne QCPR full body AED

Can be used with Laerdal AED trainers. With transport trolley.

■ Ref.no. R20092



8 Resusci Anne QCPR full body AED with airway head

Can be used with Laerdal AED trainers. With transport trolley.

■ Ref.no. R20093

9 ShockLink

ShockLink is the simple solution for defibrillator training with every manikin. With ShockLink you have the opportunity to learn all important skills for CPR.

The ShockLink cable is connected to training defibrillation pads and a defibrillator. The delivered shock is absorbed in the ShockLink cable.

Because of this no other training model with contacts or load box is needed.

Perfect for use with Resuscie Anne AED models. Using this model and the SimPad Plus the ECG can be controlled with the SimPad Plus directly.

Ready to connect to Philips defibrillators, adaptors for other brands available.

■ Ref.no. R20160

10 Adapter QuickCombo

■ Ref.no. R20160A

11 Adapter Corpulse

■ Ref.no. R20160B

12 Adapter Zoll

■ Ref.no. R20160C



AVAILABLE CONTROL UNITS:

13 Skill Guide

■ Ref.no. R20180

14 SimPad Plus Skillreporter

■ Ref.no. R20191

15 Multi Manikin Router

(Operate several Resusci Anne QCPR with one control unit)

■ Ref.no. R20190A

16 Wireless Skillreporter Software (PC)

■ Ref.no. R20195



1 Prestan CPR manikin child with monitor

The Prestan Professional Child Manikin is designed to look like a child versus an adult with less prominent body structures and softer, more childlike facial features. It is smaller and thinner than the Prestan Professional Adult Manikin. Yet, still realistic to the eye and the touch. Prestan Professional Manikins are equipped with a revolutionary new CPR rate monitor that allows for instant feedback to both instructor and student regarding the rate of chest compressions. The visual feedback from the CPR rate monitor gives students a real life feel of delivering 100 compressions per minute. In addition to the visual rate monitor, students will also hear a clicker sound as the chest is pushed to the appropriate depth allowing them to experience the true force needed to deliver real life chest compressions. Clamshell torso design that accommodates an easy-to-insert face shield lung bag.

Comes with carry bag and 10 face shield lungs.

■ Ref.no. R19150

ACCESSORIES:

2 Replacement face-shield-lungs, pack of 50pcs

■ Ref.no. R19150A

3 Hygienic face shields, pack of 50pcs

■ Ref.no. R19150B



4 Little Junior QCPR

The Little Junior QCPR manikin meets your need for a low-cost, lifelike child CPR trainer and is the perfect supplement to the Little Anne QCPR and Baby Anne QCPR manikin. The manikin represents a 5 year old child.

- Head tilt/chin lift and jaw thrust allow students to correctly practice all maneuvers necessary when resuscitating a real victim
- Removable and reusable faces for convenient and affordable maintenance
- Re-useable face skins
- QCPR measurement and feedback technology enables:
 - Real-time feedback on compressions and ventilations
 - Post-training debrief, including overall scores and tips for improvement
 - Details on compression release, depth and rate, ventilation volume, and number of compressions, ventilations and cycles
 - Free Instructor-, Learner- and Horserace App.

Little Junior QCPR

■ Ref.no. R20281

Little Junior QCPR 4 Pack

■ Ref.no. R20281-1

Replacement face skins, 6 pcs

■ Ref.no. R20280A

Replacement Airways, 25pcs

■ Ref.no. R20280B

Replacement Airways, 100pcs

■ Ref.no. R20280C



1

1 CPR torso child

This economical torso is made of soft, realistic vinyl plastic over polyurethane foam. It represents a 7 year old child.

Features include:

- Realistic head tilt and chin lift for opening airway
- Anatomical landmarks such as sternum, ribcage and sub-sternal notch
- Airway can be easily manipulated to simulate airway obstruction or choking situations
- Supplied with 3 disposable lung/airway systems, 3 mouth/nose pieces and nylon carrying bag with kneeling pads
- Ref.no. R10054-1



2 CPR Torso child with light controller

Model as R10054-1, but with light indication showing correct hand position, compression depth and respiration volume with control lights.

- Ref.no. R10054-2

SPARE PARTS:

Replacement mouth/nose pieces, 10 pcs

- Ref.no. R10054-1A

Replacement airway system, 24 pcs

- Ref.no. R10054-1B



3 Resusci Junior QCPR

The Resusci Junior manikin offers realistic, high-quality child CPR education.

- Realistic anatomical body and landmarks provide the essential features necessary to learn realistic child handling and quality child CPR skills
- Life-like size and weight of a 5-year-old child simulates the problems encountered in a real-life rescue
- Bilateral carotid pulse simulation to realistically check for pulse
- Disposable non-rebreathing airways are suitable for use by more than one student during class and are quick and easy to change after each training session
- Natural obstruction of the airway allows students to learn the important technique of opening the airway so that in a real-life situation they know how to effectively administer air to the patient
- Realistic resistance for chest compressions allows the students to experience the amount of pressure needed to perform proper chest compressions in a real-life situation
- Optional water rescue kit provides students with the chance to experience lifelike water rescue techniques required by the age group depicted by the manikin
- Including transport case, training mat, 4 face skins, 3 airways, 18 disinfection wipes and instruction manual.

The brand new version of this Child CPR model with feedback via Skillguide or free mobile App offers new and improved features:

- Improved compression mechanism - humanlike and stable
- Guidelines 2015 compliant - compression depth 50 – 60 mm
- Realistic ventilation for bag valve mask and mouth to mouth - chest rise, neck tilt and optional audible feedback
- New electronics - Bluetooth Low Energy (BTLE) and sensors
- Battery operated, can also be used with mains power
- Training mat - doubles as carrying bag
- Ref.no R20266

Skillguide

- Ref.no. R20180

Replacement face skins, 6pcs

- Ref.no. R20266A

Replacement airways, 12 pcs

- Ref.no. R20266B

3





1

1 3-year-old CPR manikin

Economically priced, this manikin of a three year old child has a lightweight, rugged, foam filled body with no internal parts to break.

Features include:

- Lifelike anatomical landmarks such as nipples, xiphoid process and sub-sternal notch
- Easy to replace mouth/nose pieces
- Disposable airways with uni-directional valves
- Soft carrying bag

Size: 86.5 x 28 x 18 cm, **Weight:** 4.1 kg

- Ref.no. R10055

Replacement mouth/nose pieces, 10 pcs

- Ref.no. R10055A

Replacement airway system, 24 pcs

- Ref.no. R10055B



2

2 Newborn CPR manikin

Economically priced, this manikin of a Newborn has a lightweight, rugged, foam filled body with no internal parts to break.

Features include:

- Lifelike anatomical landmarks such as nipples, xiphoid process and substernal notch
- Easy to replace mouth/nose pieces
- Soft carrying bag

Size: 66 x 20.5 x 20.5 cm, **Weight:** 2.3 kg

- Ref.no. R10057

Replacement Mouth/Nose Pieces 10 pcs

- Ref.no. R10057A

Replacement Airways, 24 pcs

- Ref.no. R10057B



3

3 6 to 9 month-old CPR manikin

Economically priced, this manikin of a 6 to 9 month old child has a lightweight, rugged, foam filled body with no internal parts to break.

Features include:

- Lifelike anatomical landmarks such as nipples, xiphoid process and substernal notch
- Easy to replace mouth/nose pieces
- Disposable airways with uni-directional valves
- Soft carrying bag

Size: 66 x 20.5 x 20.5 cm, **Weight:** 2.8 kg

- Ref.no. R10056

Replacement mouth/nose Pieces, 10 pcs

- Ref.no. R10056A

Replacement airways, 24 pcs

- Ref.no. R10056B

NEW VERSION



1 Baby Anne

The Baby Anne manikin is an inexpensive training model for instruction of parents.

- Set of 4 weighs less than 6 kg
- Economically priced
- Realistic chest compliance means students can experience the proper technique required for chest compressions on infants
- Foreign-body airway obstruction feature allows the release of a foreign-body obstruction to be practiced through back blows and chest-thrust techniques
- Head tilt/chin lift and jaw thrust allow students to practice correctly all maneuvers necessary when resuscitating a real patient.

Baby Anne with carry bag

- Ref.no. R20301

Baby Anne pack of 4 with carry bag

- Ref.no. R20301-1

Replacement face skins, 6pcs

- Ref.no. R20301A

Replacement airways, 24pcs

- Ref.no. R20301B

Connector for using the new airways on an old Baby Anne (striped playsuit)

- Ref.no. R20300C

2 Resusci Baby Q CPR

Resusci Baby Q CPR is an infant CPR training manikin which provides opportunity to focus on student competency. Measurement, assessment and quality feedback are key factors in developing competency. Resusci Baby Q CPR manikin provides thorough and realistic CPR training. With the use of a feedback device enhanced measurement of compressions and ventilations allows for comprehensive and accurate guidance. Detailed feedback and debriefing functionalities enable students to learn and improve CPR performance better than ever before.

Product Features

- Realistic anatomy including head tilt, chin lift, compression depth, compression force and chest rise
- Sensor indicate correct hand placement
- Ventilation system provides realistic chest rise with BVM (Bag Valve Mask) and MTM (Mouth to Mouth) and measures volume and rate to help train correct ventilation technique.
- Enhanced measurement and feedback capabilities.
- Wired connectivity with SkillGuide or SimPad SkillReporter (not included, please order separately)
- Guidelines compliant

Resusci Baby Q CPR

- Ref.no. R20295

Skill Guide (description see page 279)

- Ref.no. R20180

SimPad Plus Skillreporter (description see page 279)

- Ref.no. R20191

NEW VERSION



3 CPR Baby with light controller

This life size infant allows training of correct CPR techniques. Ventilation and compression can be practiced like in a real baby. If ventilation is done correctly, the chest will rise. The correct compression depth is indicated by a click sound, the correct compression rhythm is controlled by a built in light indicator. The airways are designed as disposable items, avoiding the need for disinfection. For group education an additional individual face shield with filter can be attached to protect the students from infection.

- Ref.no. R19200

4 Hygiene airways, 50 pcs

- Ref.no. R19200A

5 Hygiene face shields, 50 pcs

- Ref.no. R19200B





◀ 1 Prestan Collection

All of the wonderful Prestan CPR manikins in one attractive set. Adult, child and baby with CPR monitor. The description of the single products **R19100**, **R19200** and **R19150** can be found on pages 270, 283 and 280. For accessories see single products pages.

■ Ref.no. R19600

2 Prestan Family Pack ▶

This set contains a whole family of CPR dolls. Two adults, one child and two babies in an attractive set, all with CPR monitor. The description of the single products **R19100**, **R19200** and **R19150** can be found on pages 270, 283 and 280. For accessories see single products pages.

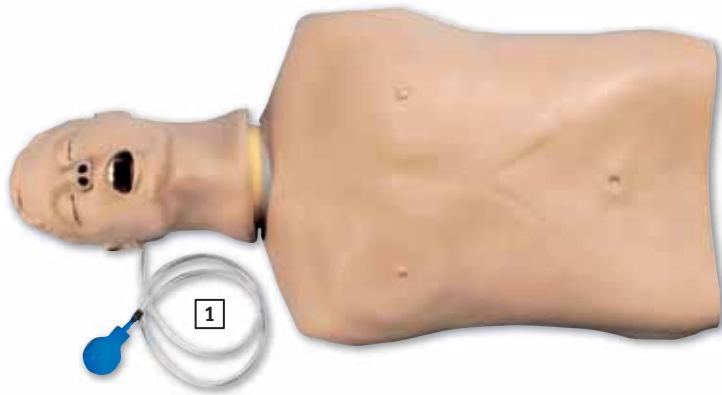
■ Ref.no. R19650



◀ 3 Little Family Pack

Little Family Pack is a convenient package of age-specific CPR training manikins with a wheeled carry case for ease of transport and storage. Now Little Anne and Little Junior come with QCPR feedback technology, to help instructors improve CPR training quality, efficiency, and learner engagement.

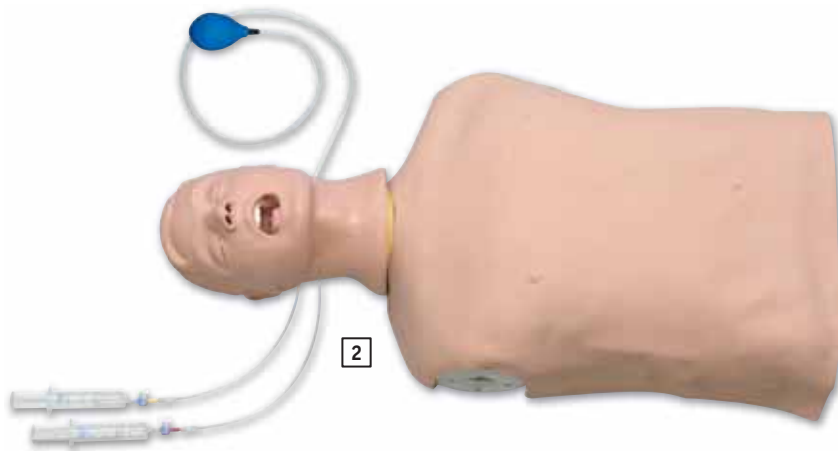
■ Ref.no. R20311



1 Airway Larry adult airway management trainer torso

The Airway Larry Airway Management Trainer simulates a nonanesthetized patient for practicing intubation, ventilation, suction, and CPR techniques. Realistic anatomy and landmarks including teeth, tongue, oral and nasal pharynx, larynx, epiglottis, arytenoids, false cords, true vocal cords, trachea, lungs, esophagus, and stomach. The trainer allows you to practice oral, digital, and nasal intubation, as well as E.T., E.O.A., P.T.L., L.M.A., E.G.T.A., Combitube®, and KING System insertion. Suction techniques and proper cuff inflation may also be practiced and evaluated. Features durable, rugged construction and bifurcated lungs. The “Airway Larry” Adult Airway Management Trainer represents an adult with more room to maneuver. With its slightly anterior position, “Airway Larry” is a great trainer for introductory as well as advanced students. Mounted on a Basic Torso. CPR and airway management procedures may be performed. Manual carotid pulse. Comes with pump spray lubricant and disposable lower airway for the manikin.

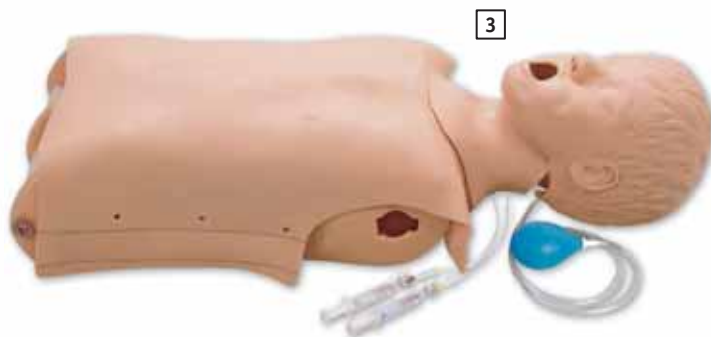
■ Ref.no. R10190



2 Advanced “Airway Larry” airway management trainer torso

Advanced “Airway Larry” Airway Management Trainer offers tongue swelling and laryngospasm in addition to all the features on the standard models. Your students can now be presented with the additional challenges they may face in the real world. This airway management trainer simulates a nonanesthetized patient for practicing intubation, ventilation, suction, and CPR techniques. Realistic anatomy and landmarks include teeth, tongue, oral and nasal pharynx, larynx, epiglottis, arytenoids, false cords, true vocal cords, trachea, lungs, esophagus, and stomach. The trainer allows you to practice oral, digital, and nasal intubation, as well as E.T., E.O.A., P.T.L., L.M.A., E.G.T.A., Combitube®, and King System insertion. Applying pressure to the cricoid cartilage changes the position of the trachea and closes the esophagus, allowing realistic practice of the Sellick maneuver. Manual carotid pulse. With its slightly anterior position, swelling tongue, and vocal cords, the Advanced “Airway Larry” is a great trainer for introductory as well as advanced training. Suction techniques and proper cuff inflation may also be practiced and evaluated. Features durable, rugged construction and bifurcated lungs. Mounted on a basic torso allows both CPR and airway management procedures to be practiced. Includes pump spray lubricant and disposable lower airway for the manikin.

■ Ref.no. R10191



3 Child CPR/airway management torso

The CPR/Airway Management Torso is ideal for practicing intubation, ventilation, suctioning techniques, and CPR. This torso is designed to be the foundation of the Child CRiSis™ system (Ref.no. R10154-1, page 293) as arms, legs, and a defibrillation chest skin can be added later to provide IV access, intraosseous infusions, blood pressure monitoring, and ECG recognition and defibrillation training. Includes pump lubricant.

■ Ref.no. R10192



Airway Larry adult airway management trainer full body

The Airway Larry Airway Management Trainer simulates a nonanesthetized patient for practicing intubation, ventilation, suction, and CPR techniques. Realistic anatomy and landmarks including teeth, tongue, oral and nasal pharynx, larynx, epiglottis, arytenoids, false cords, true vocal cords, trachea, lungs, esophagus, and stomach. The trainer allows you to practice oral, digital, and nasal intubation, as well as E.T., E.O.A., P.T.L., L.M.A., E.G.T.A., Combitube®, and KING System insertion. Suction techniques and proper cuff inflation may also be practiced and evaluated. Features durable, rugged construction and bifurcated lungs. The “Airway Larry” Adult Airway Management Trainer represents an adult with more room to maneuver. With its slightly anterior position, “Airway Larry” is a great trainer for introductory as well as advanced students. Mounted on a CPR manikin full body. CPR and airway management procedures may be performed. Manual carotid pulse. Comes with pump spray lubricant and disposable lower airway for the manikin.

1 Airway Larry adult airway management trainer full body with electronics

Connects to monitoring devices on pages 287 and 288

■ Ref.no. R10193

2 Airway Larry adult airway management trainer full body without electronics

No monitoring function.

■ Ref.no. R10193-1

1 IO Legs for CRISIS and CPRENE manikins

Designed to attach easily to any Adult CRiSis, CPARLENE, "Airway Larry," or Adult Airway Management torsos or manikins. Use to enhance training of intraosseous infusion procedures using B.I.G. and EZ-IO devices or almost any other intraosseous infusion devices available and provides realistic resistance as the needle enters the bone. The leg is fluid capable, and a blood source is accessible through the injection site. Features palpable landmarks, replaceable bones and skin, and a pressurized system to allow aspiration of fluid. Included with the articulating legs with Intraosseous Infusion are 10 replaceable simulated bones, four replaceable skin pads, shorts, simulated blood, lubricating jelly, towels, I/O needle, and syringe with tubing.

■ Ref.no. R10153-4

Replacement skins (set of 4)

■ Ref.no. R10153-4A

Replacement bones (set of 10)

■ Ref.no. R10153-4B



2 CPR Metrix iPad Control for CRISIS and CPRENE manikins

This new product uses the electronics of the existing CPRENE and Adult CRISIS manikins and converts the data for use in a modern iPad app. The Easy-to-use iPad control provides a comprehensive way to complement CPR training programs wirelessly. No more light indicators and printed out paper sheets, this control box displays the qualified output of the manikins into a modern style graphical interface.

Features:

- Graphical interfaces and audio feedback are easy for students to use and follow
- Solid documentation lets you easily track each student's performance
- Debriefing tools help with documentation and support training
- Detailed reports can be saved in PDF format
- Use with the CPRENE and Adult CRISIS manikins with electronics

CPR Metrix control box only

■ Ref.no. R10150

CPR Metrix control box and iPad

■ Ref.no. R10152



1 CPR trainer full body

This easy to transport manikin allows the practice of adult CPR techniques. Optionally child CPR can also be practiced by changing the supplied springs inside the model. Individual student face masks with a one-way non-rebreathing valve and disposable airways provide maximum protection against cross-contamination. Supplied with a washable jogging suit, child springs, 10 disposable lower airways, 10 disposable tracheal airways, five sanitary face masks and a carrying case.

Features include:

- Palpable anatomical landmarks (xiphoid, navel, nipples and rib cage)
- Adult CPR training with optional child springs
- Fully articulated head, neck and jaw
- Palpable carotid pulse

With electronic connections.

Size: 91.5 x 53.5 x 33 cm, **Weight:** 28 kg

■ Ref.no. R10052

2 CPR torso adult

Model like R10052, but without legs.

■ Ref.no. R10052-4



3 Injectable training arm

This famous IV Arm is available in a version that connects to the right arm socket of the R10052 manikins. Features realistic vinyl skin and latex veins so the skin actually rolls as you palpate the vein, and the characteristic “pop” can be felt as the needle penetrates the vein. Realistic flashback occurs with proper insertion. The arm pivots at the elbow for easy accessibility to antecubital fossa, along the forearm, and at the back of the hand. A bony landmark at the shoulder helps identify muscle tissue for intramuscular injections.

Weight: 5 kg

■ Ref.no. R10052-5

Replacement Skin and Vein

Weight 0.6kg

■ Ref.no. R10052-5A



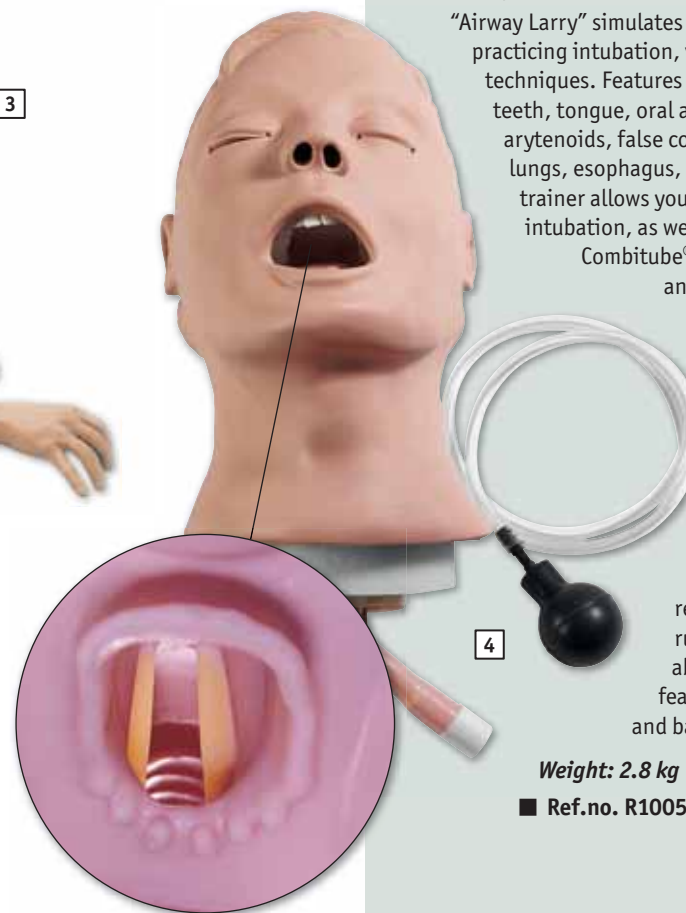
Feedback Software for these models can be found on page 287

4 “Airway Larry” adult airway management trainer head

“Airway Larry” simulates a nonanesthetized patient for practicing intubation, ventilation, suction, and CPR techniques. Features anatomy and landmarks including teeth, tongue, oral and nasal pharynx, larynx, epiglottis, arytenoids, false cords, true vocal cords, trachea, lungs, esophagus, cricoid cartilage, and stomach. The trainer allows you to practice oral, digital, and nasal intubation, as well as E.T., E.O.A., P.T.L., L.M.A., and Combitube® insertion. Suction techniques and proper cuff inflation may also be practiced and evaluated. This trainer has room to maneuver, and a slightly anterior position, making it a great trainer for introductory classes as well as advanced students. Also, applying cricoid pressure changes the position of the trachea and closes the esophagus, so the Sellick maneuver can be realistically practiced. Features durable, rugged, one-piece construction. Has ability to be attached to R10052. This feature allows you to teach intubation and basic CPR on the same manikin.

Weight: 2.8 kg

■ Ref.no. R10052-6



AVAILABLE SUPPLIES:

Replacement face masks, 5 pcs

■ Ref.no. R10052A

Replacement face masks, 25 pcs

■ Ref.no. R10052B

Spare Valves for face mask, 25 pcs

■ Ref.no. R10052C

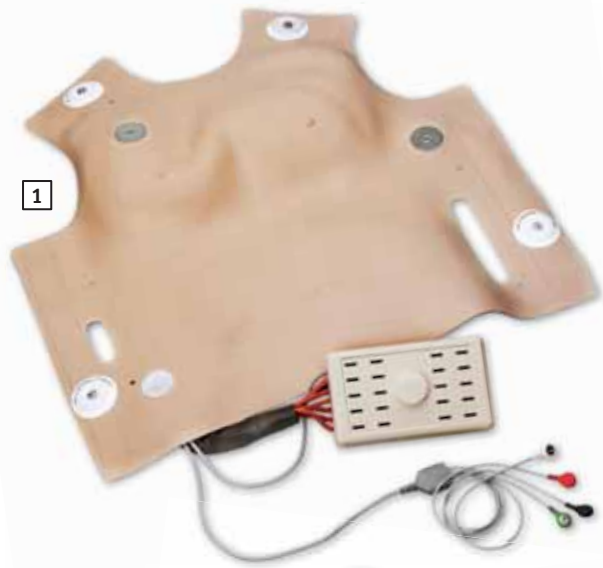
DISPOSABLES:

Upper Airway, 10 pcs

■ Ref.no. R10052D

Lower Airway, 10 pcs

■ Ref.no. R10052E



1 Defibrillation chest skin

Perfect for practicing defibrillation on **R10052** manikins. The chest skin lets you defibrillate using standard manual, automatic, or semi-automatic external monitor defibrillators by attaching directly to your manikin. An internal load box absorbs the full strength of every shock to protect students and equipment. The skin also makes it possible to monitor the manikin from 4 ECG sites, just like a real patient. Can do manual, AED, and quick look defibrillation. Skin attaches easily to **R10052** and is compatible with any patient simulator.

Weight: 2.8 kg

■ Ref.no. R10052-7



3 Blood pressure simulator

Designed to easily attach to the shoulder openings of **R10052** manikins. The arm is hinged to swing away from the body for easy accessibility. The arm is programmed to demonstrate the five Korotkoff phases, and an auscultatory gap switch may be used to simulate the auscultatory gap that is sometimes present between Phase I and Phase II sounds. Separate pulse rate control varies the frequency of heart rate from approximately 50-100 beats per minute. The Blood Pressure Simulator includes a sphygmomanometer cuff and gauge assembly.

Weight: 5 kg

■ Ref.no. R10052-8

4 Speaker for R10052-8

Allows to hear the sounds without using a stethoscope.

■ Ref.no. R10052-8A (not pictured)



2 Interactive ECG simulator

- Defibrillation shock can be delivered through manikin or simulator
- Practice operating your defibrillator/external pacer without a manikin. Connect defibrillator/external pacer to simulator using adapters
- Built-in circuitry allows you to defibrillate and pace directly into the simulator and observe ECG rhythms through the PADS connector
- Convert feature
- Select another rhythm to run immediately after defib discharge
- Pacing can be done on any manufacturer's defibrillator
- Battery saver feature powers-off simulator automatically when not in use

Waveforms available for pacing include:

- | | |
|---|---|
| ■ Sinus Brady | ■ Sinus Tach |
| ■ Junctional Brady | ■ Sinus with PVCs |
| ■ Second degree type I A-V block | ■ Asystole |
| ■ Second degree type II A-V block | ■ NSR |
| ■ Second degree type II A-V block with PVCs | ■ Sinus Brady |
| ■ Third degree A-V block | ■ Junctional Brady |
| | ■ Second degree type I A-V block |
| | ■ Second degree type II A-V block |
| | ■ Second degree type II A-V block with PVCs |
| | ■ Third degree A-V block |
| | ■ Generate realistic 3-lead or 4-lead ECG rhythms |
| | ■ The RA, LA, and LL signal morphologies create accurate representations of the QRS, P, and Taxes |
| | ■ Requires one 9-volt alkaline battery |

Weight: 0.8 kg

■ Ref.no. R10052-9

Adult CRiSis manikins

The adult CRiSis manikins are complete resuscitation systems with five stations allowing you to practice different scenarios. Each manikin consists of a full body CPR manikin, IV arm, blood pressure arm, defibrillation chest skin, and features the Airway Larry airway management head. Ideal for ACLS, paramedic, EMT, and nursing training at every level. Modular components allow you to create a manikin to suit your needs.

Procedures that can be performed:

CPR:

- Palpable and visual landmarks
- Fully articulated head, neck, and jaw

Airway management:

- Realistic anatomy of the mouth, tongue, oral pharynx, larynx, epiglottis, vocal cords, trachea, and esophagus
- Cricoid cartilage allows for practice of Sellick maneuver
- Separate left and right lungs for auscultation
- Suctioning capabilities
- Oral, nasal, and digital intubation capabilities
- Compatible airway management devices include E.T., E.O.A., E.T.L., L.M.A., E.G.T.A., and Combitube

IV Arm:

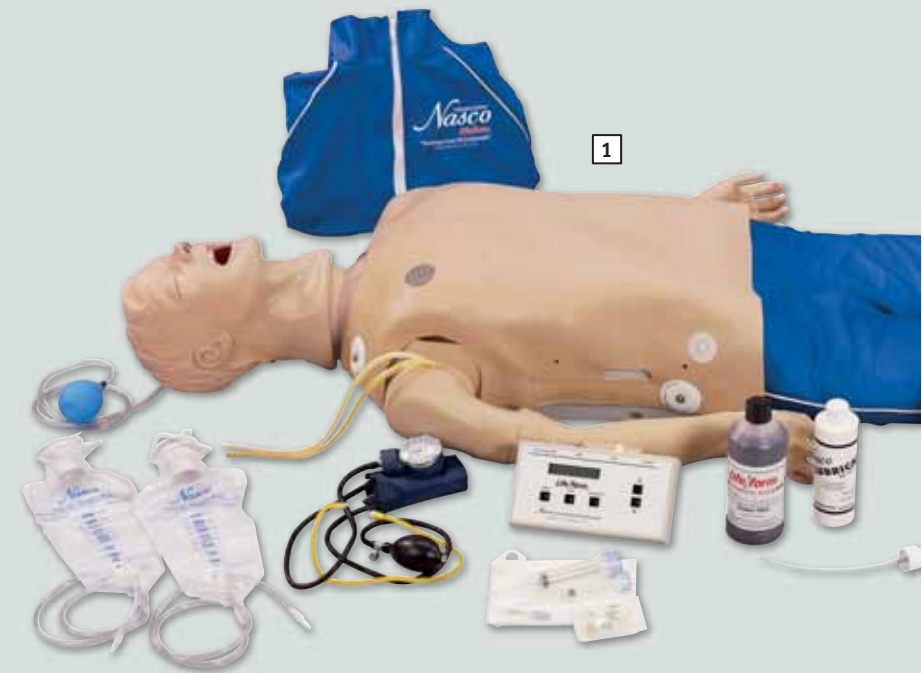
- Articulated at the biceps for antecubital and dorsal access
- Bony landmark at shoulder to identify muscle tissue for intramuscular injections
- Replaceable skin and veins
- Realistic flashback from a pressurized system

Blood pressure arm:

- Instructor determines systolic and diastolic levels, heart rate, and sound volume
- Speaker in arm reproduces real blood pressure sounds
- 5 Korotkoff phases can be turned on and off
- Auscultatory gap can be turned on and off
- Can be used with an optional external speaker system to broadcast sounds to the entire classroom

Defibrillation chest:

- Internal load box absorbs full strength of every shock – designed to handle up to maximum recommended 360 Joules
- Manual, semi-automatic, automatic defibrillation
- Monitor manikin like a real patient at 4 ECG sites and 2 defibrillation sites
- Compatible with all standard brands and types of defibrillators, monitors, and patient simulators, adaptors are available on request.



1 Complete CRiSis manikin

Complete Resuscitation System including a full body CPR manikin, airway management trainer, IV arm, blood pressure arm, and defibrillation chest skin. Hard storage case is available separately.

Weight: 25 kg

■ **Ref.no. R10153-1** (Without electronics, monitoring unit cannot be connected.)

2 Deluxe CRiSis Manikin

The deluxe CRiSis manikin features all the same quality components as the complete CRiSis manikin with the addition of a hand-held arrhythmia patient simulator. The arrhythmia/pacing simulator recreates 17 adult heart rhythms and 17 pediatric rhythms. With an external pacer, you can simulate electronic capture. You can also simulate cardioversion with manual, semiautomatic, or automatic defibrillation. Hard storage case is available separately.

Weight: 25.4 kg

■ **Ref.no. R10153-2**

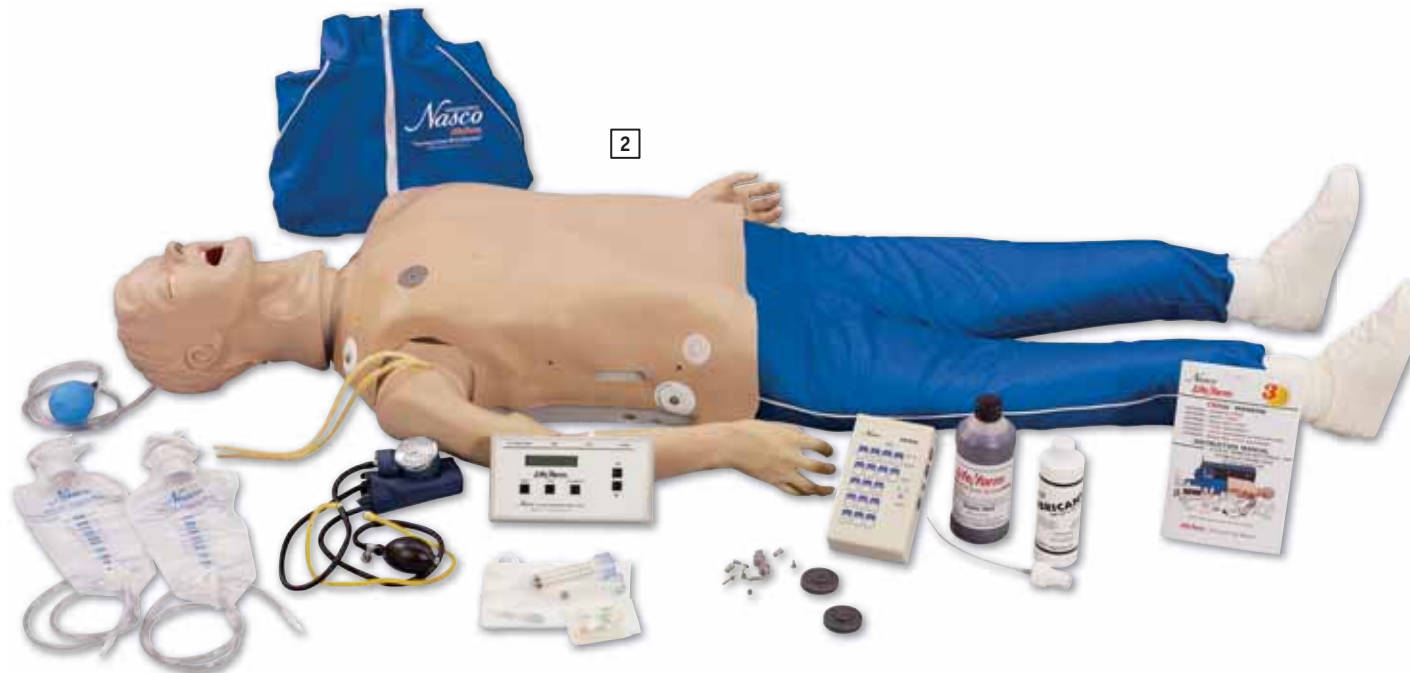
(Without electronics, monitoring unit cannot be connected.)

AVAILABLE SUPPLIES:

3 Manikin case

Weight: 12.7 kg

■ **Ref.no. R10153A**



Resusci Anne Advanced Skill Trainer ▶

Wireless training model for MegaCode training. The model is designed for team training. Additionally to the BLS features it offers all classical Megacode features like defibrillation, ECG pacing, intubation, iv access and other advanced life support actions.

System components:

- Female full body manikin
 - Airway-management head, turnable
 - IV-arm
 - removeable soft foam leg
- Wireless control unit SimPad controls vital signs (included)
- Operated on batteries or 220V power converter
- USB-port
- Including Laerdal PC SkillReporting System, for CPR evaluation at the PC (runs on Windows 7, Windows Vista, Windows XP)

System accessories:

- USB-cable for data transfer between Megacodetrainer and PC
- adapter for hard paddles
- transport case
- artificial blood
- lubricant
- tools
- manual

Options and functions:

- MegaCode-trainer runs on power converter or batteries, allowing full mobility in all kind of changing training environments.
- Wireless control unit SimPad with color display for control of all functions via WIFI

Airway management:

- Airway-management-head turns and has correct anatomy for advanced airway management.
- Resuscitation with bag/mask or airway devices (endotracheal tube, LMA (Laryngeal Mask Airway), Combitube®, Güdel, Wendel etc.)
- Physiological correct carotid pulse on both sides
- Lungs sounds can be auscultated

Heart/circulatory

- BLS training according to 2010 guidelines with evaluation by included SkillReporting Software (runs on Windows 7, Windows Vista, Windows XP).
- Thorax flexibility for cardiac compression and chest thump
- Multi vein IV-arm for puncture of peripheral arm- and hand veins; skin and vein system can be used several times and can be changed.
- Data base with multiple ECG rhythms
- EKG-monitoring with 4-leads at the thorax; standard ECG monitors / defibrillators can be used
- Defibrillation is possible with manual defibrillators or AEDs; normal mono- or biphasic defibrillators can be used
- Simulation of ECG rhythms and pulse are controlled via SimPad. With large ECG database
- Comprehensive documentation and evaluation of CPR training using Laerdal PC SkillReporting Software
- Documentation of training process, several turns can be stored separately in the MegaCode-trainer without connecting to the PC

NEW: Voice sounds with optional headset: speech transmission to manikin, speech transfer to built-in head speaker.

NEW: Monitoring of vital signs with optional patient monitor.



Possible extensions:

- Optional BLS-head for basic resuscitation (mouth-to-mouth, mouth-to-nose) with sanitary system available.
- Optional Resusci Anne trauma-module with different injuries of arms and legs available.
- Optional trauma-limbs of other models can be combined
- Optional simulated patient monitor
- Optional headset

Resusci Anne Advanced Skill Trainer, SimPad capable

- Ref.no. R20200

SimPad Plus without Software

- Ref.no. P210

LLEAP Software for SimPad Plus

- Ref.no. P211

If you order this product, you have to order also the technical installation (Ref.no. R20200-1) and the product training course (Ref.no. R20200-2). It is not possible to order this item without these services.



1 Child CRiSis manikin

A dramatic, state-of-the-art manikin designed for teaching individuals or groups life-saving techniques for children. The Child CRiSis Manikin provides complete PALS training capabilities in one manikin. Simulating an 8-year-old child, it combines all of the skill stations on one manikin, making training more realistic and giving students an appreciation for the smaller scale of the patient. This system features the Child Airway Management Trainer, IV Arm, Blood Pressure Arm, Defibrillation Chest Skin, Intraosseous Infusion/Femoral Access Leg, as well as a completely functional CPR manikin. The Child CRiSis Manikin is ideal for ACLS, nursing, paramedic, and EMT training at every level. The Child CRiSis Manikin is 119 cm tall and weighs 9 kg. Patient arrhythmia simulator not included. A storage case for the Child CRiSis manikin is available separately.

■ Ref.no. R10154-1

1 Deluxe Child CRiSis manikin with ECG simulator

The Deluxe Child CRiSis manikin features the same quality components as the Child CRiSis™ manikin with the addition of a hand-held arrhythmia patient simulator (Ref.no. **R10154-1**). The arrhythmia/pacing simulator recreates 17 pediatric rhythms and 17 adult heart rhythms. With an external pacer you can simulate electronic capture. You can also simulate cardioversion with manual, semiautomatic, or automatic defibrillation.

The Interactive ECG Simulator features:

- Defibrillation shock can be delivered through manikin or simulator
- Practice operating your defibrillator/external pacer without a manikin. Connect defibrillator/external pacer to simulator using adapters
- Built-in circuitry allows you to defibrillate and pace directly into the simulator and observe ECG rhythms through the PADS connector

Waveforms available for pacing include:

- Sinus Brady
- Junctional Brady
- Second degree type I A-V block

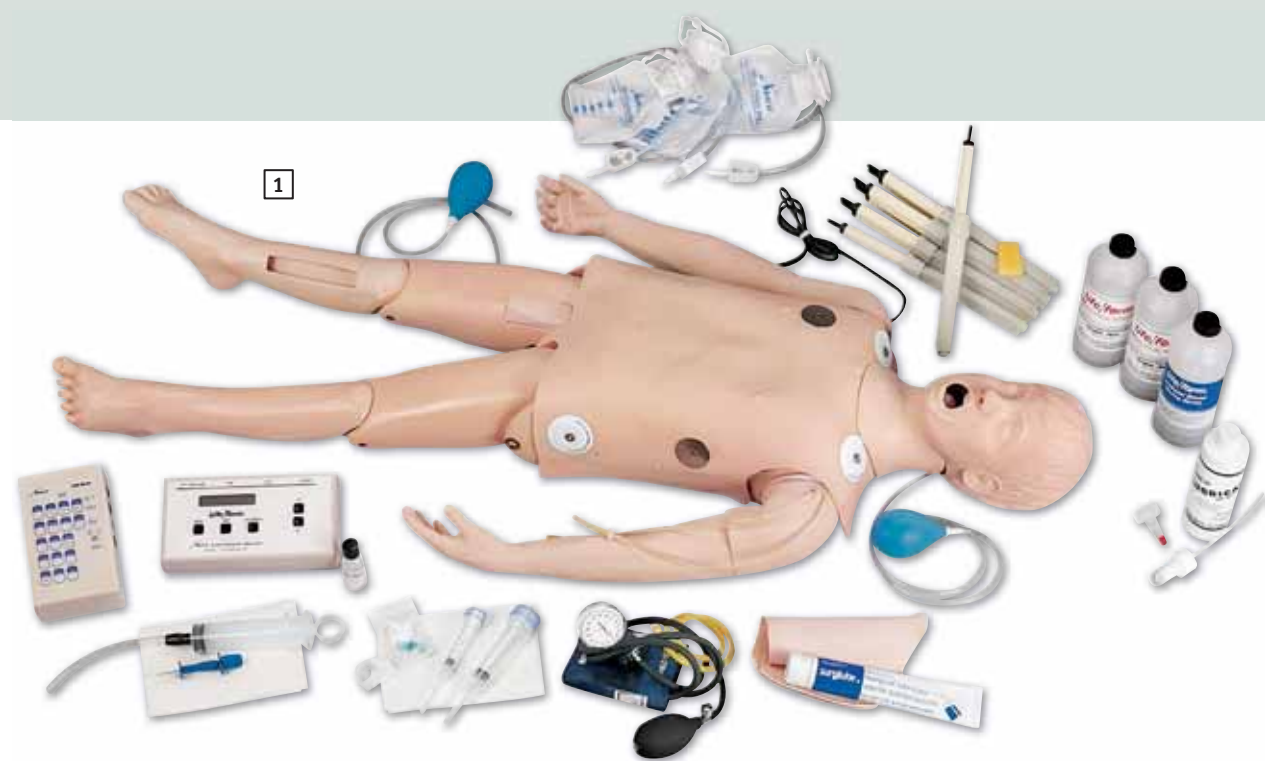
17 Adult/Pediatric Rhythms

- V. Fib
- V. Tach (Fast)
- V. Tach (Slow)
- V. Tach (Polymorphic)
- A Fib
- A Flutter
- SVT
- Sinus Tach
- Sinus with PVCs
- Asystole

A storage case for the Child CRiSis manikin is available separately.

Height: 119 cm, Weight: 9.5 kg

- Ref.no. R10154-2



- Convert feature
- Select another rhythm to run immediately after defib discharge
- Pacing can be done on any manufacturer's defibrillator
- Battery saver feature powers-off simulator automatically when not in use
- Second degree type II A-V block
- Second degree type II A-V block with PVCs
- Third degree A-V block
- NSR
- Sinus Brady
- Junctional Brady
- Second degree type I A-V block
- Second degree type II A-V block
- Second degree type II A-V block with PVCs
- Third degree A-V block
- Generate realistic 3-lead or 4-lead ECG rhythms
- The RA, LA, and LL signal morphologies create accurate representations of the QRS, P, and T- axes

1 Infant CRiSis manikin

Practice:

- CPR
- Airway management
- I.v. procedures on both arm & leg
- Intraosseous Infusion
- Umbilical cannulation

Everything you need in one manikin! This dramatic, state-of-the-art training manikin is a complete resuscitation system designed for teaching life-saving techniques for infants. Ideal for pediatric advanced life support, nursing, paramedic, and EMT training at every level. Tactile and visual realism combine to provide students with the most realistic training possible. The most comprehensive PALS trainer available, the Infant CRiSis™ Manikin allows practice of 4-lead ECG monitoring, IV therapy, umbilical catheterization, airway management, intraosseous infusion, and CPR – all in one manikin! The unique chest skin with an umbilical cord allows practice of proper techniques in umbilical catheterization, including cutting and clamping. Fluid may be aspirated through the umbilicus, making this training manikin incredibly lifelike. An IV arm and leg allow for realistic practice of pediatric venipuncture. The cephalic and basilic veins are accessible on the IV arm, as well as the dorsal venous arch on the hand; the great saphenous veins are accessible on the IV leg, as well as the dorsal venous arch on the foot. An intraosseous infusion leg demonstrates and simulates the intraosseous infusion procedure. Featuring realistic anatomy and size, the airway management head is ideal for practicing airway management skills on an infant. Includes a hard carrying/storage case.

Weight: 10 kg

- Ref.no. R10155-1



2 Deluxe infant CRiSis manikin

Features the same quality components as the Infant CRiSis Manikin above with the addition of the hand-held interactive ECG simulator.

- Ref.no. R10155-2





1 Newborn Anne

The Newborn Anne is a manikin designed for skills training in neonatal resuscitation. With anatomical accuracy and a product feature set designed to focus on the critical resuscitation skills required in the first ten minutes of a newborn's life, Newborn Anne meets the key components of the NRP course curriculum.

Product Benefits:

- Educationally effective allowing specific neonatal resuscitation skills to be taught individually or in combination with other skills.
- Realistic anatomical landmarks and durable design simulate a full-term female newborn.
- Lightweight and portable design allows Newborn Anne to be highly mobile for use in multiple clinical settings.
- Newborn Anne is easy to use and was designed to be integrated into all neonatal clinical training curriculums.
- Built from the SimNewB platform developed in conjunction with the American Academy of Pediatrics (AAP), Newborn Anne was specifically designed to be clinically relevant with manikin features to meet key NRP course skills.

Product Features:

- Newborn Anne accurately represents a full term (40 week), 50th percentile newborn female, measuring 21 inches and weighing 7 lbs.
- The airway is designed to allow for training in all aspects of newborn airway management, including the use of positive pressure airway devices, and the placement of ET tubes and LMAs.
- The torso includes functionality to relieve a tension pneumothorax via needle decompression.
- The patent umbilicus has a manually generated pulse and can be assessed, cut and can be catheterized for IV access.
- Newborn Anne features IO access in both legs.
- Ref.no. R20320





1

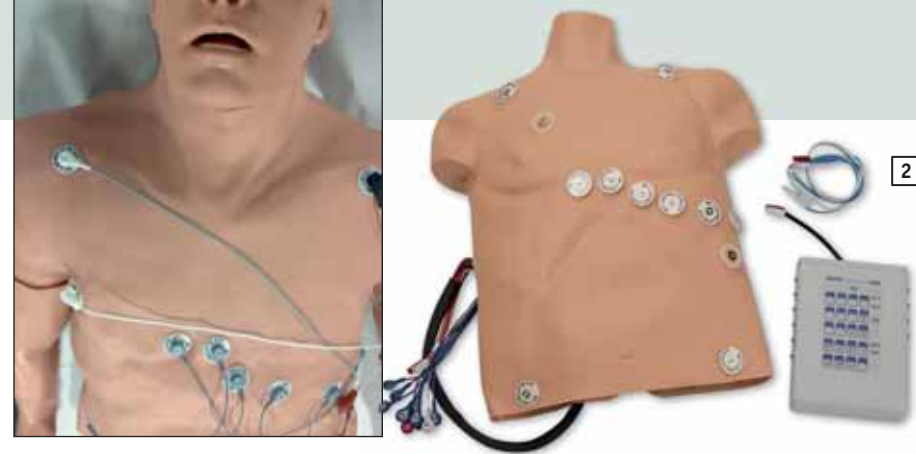
1 15-lead ECG placement trainer

Teaches up to 15-lead ECG electrode placement anatomically and provides visual feedback on the accuracy of electrode placement. Students will learn the placement of the electrodes on the adult trainer using anatomical landmarks such as intercostal spaces, midclavicular line, anterior axillary line, midaxillary line, and scapula. Features connection sites for four limb leads and V1 through V9, with the ability to attach right- or left-sided electrodes. The trainer does not provide ECG output signals, but simulations of rhythms and hands-free defibrillation can be performed by adding any ECG arrhythmia simulator directly to your ECG monitor. Includes adult torso, 15-lead electronics box, power adapter, set of 13 leads, 50 electrodes, two "C" batteries, hard carry case, and instruction manual.

■ Ref.no. R10195



1



2

1 12-Lead Arrhythmia Simulator

Pace and defibrillate directly into this interactive 12-lead ECG simulator through your hands-free defibrillation cable.

- Connects directly to monitor; does not work with manikin
- Simulate electrical capture with your external pacer. Press simulator capture key to select one of four preset pacing capture levels: 70, 80, 90, or 100mA. When pacer current is greater than selected capture level, paced beats appear on your monitor. Waveforms for pacing include: Sinus Brady (two), 1st degree A-V block, 2nd degree type I A-V block, 2nd degree type II A-V block, 2nd degree type II A-V block with PVCs, and 3rd degree A-V block.
- Simulate cardioversion with your manual, semi-automatic, or automatic defibrillator. Activate “convert” feature to select - before defib discharge - another rhythm to run immediately after defib discharge. Waveforms for defibrillator training include: V. Fib., V. Tach (high rate), V. Tach (low rate), Torsade, A. Fib, A. Flutter, PSVT, Sinus Tach, Sinus Rhythm, Sinus Rhythm with PVCs, Asystole, and NSR.
- Generate realistic 12-lead ECG rhythms. Connect your ECG cable to simulator’s 10 ECG snaps. Independent chest lead and limb lead ECG signals create realistic 12-lead ECGs for each rhythm. Generate ST segment and T wave abnormalities including: Anterior MI, Inferior MI, Antero-Septal ST Elevation, Anterior ST Depression, Lateral ST Elevation, and Inferior ST Elevation.
- LED indicators: pacer pulse detection, defib discharge detection, and low battery.

Zoll
■ Ref.no. R13001-1

Physio Medtronic and Marquette Quick Combo
■ Ref.no. R13001-2

Heart Start/Philips with late VF Waveform
■ Ref.no. R13001-3

Philips
■ Ref.no. R13001-4

MRL, Welch Allyn R2
■ Ref.no. R13001-5

2 12-Lead Arrhythmia Simulator with Manikin Overlay

Use on any large-sized manikin or simulator to change it into a 12-lead trainer. Pace and defibrillate directly on the overlay system connected to the interactive 12-lead ECG simulator, included with the overlay. You may purchase optional defibrillation training cables that allow you to have hand-free defibrillation simulation, with up to 360 joules, as well as electrical capture with your external pacer. The simulator capture key is used to select one of four preset pacing capture levels: 70, 80, 90 or 100mA. When the pacer current is greater than the selected capture level, paced beats will appear on your monitor. Waveforms for pacing include: Sinus Brady (two), 1st degree A-V block, 2nd degree type I A-V block, 2nd degree type II A-V block, 2nd degree type II A-V block with PVCs, and 3rd degree A-V block. Simulate cardioversion with your manual, semiautomatic, or automatic defibrillator. Waveforms for defibrillator training include: V. Fib, V. Tach (high rate), V. Tach (low rate), Torsade, A. Fib, A. Flutter, zPSVT, Sinus Tach, Sinus rhythm, Sinus rhythm with PVCs, and Asystole. Generate ST segment and T wave of abnormalities, including: Anterior MI, Inferior MI, Antero-Septal ST elevation, Anterior ST depression, Lateral ST elevation, and Inferior ST elevation. LEDs indicate: pacer pulse detection, defib discharge detection, and low battery.

Medium size skin, Zoll
■ Ref.no. R13002-1

Large size skin, Zoll
■ Ref.no. R13002-2

Medium size skin, Physio
■ Ref.no. R13002-3

Large size skin, Physio
■ Ref.no. R13002-4

Medium size skin, Marquette
■ Ref.no. R13002-5

Large size skin, Marquette
■ Ref.no. R13002-6

Medium size skin, Heartstream
■ Ref.no. R13002-7

Large size skin, Heartstream
■ Ref.no. R13002-8

Medium size skin, Heartstart
■ Ref.no. R13002-9

Large size skin, Heartstart
■ Ref.no. R13002-10

Medium size skin, R2
■ Ref.no. R13002-11

Large size skin, R2
■ Ref.no. R13002-12

Rescue manikin ▶

This manikin allows training of the extrication of a person from a pole top situation, confined spaces, collapsed buildings, smoky rooms and also ladder carry-down protocols. A perfect aid in situations too hazardous or uncomfortable for human volunteers and especially suitable for military, fire departments, police departments, safety teams and emergency personnel. The manikin features articulated joints and realistic weight distribution. It is made of durable plastic with strong plastic-coated cables. This manikin is not fire resistant and is not for water rescue.

1 Version large body, 183 cm, 113 kg

Shipping weight: 135 kg

■ Ref.no. R10158

2 Version large body, 183 cm, 107 kg

Shipping weight: 123 kg

■ Ref.no. R10159

3 Version large body, 183 cm, 91 kg

Shipping weight: 119 kg

■ Ref.no. R10160

4 Version large body, 183 cm, 79 kg

Shipping weight: 88 kg

■ Ref.no. R10161

5 Version large body, 183 cm, 75 kg

Shipping weight: 84 kg

■ Ref.no. R10050

6 Version large body, 183 cm, 66 kg

Shipping weight: 75 kg

■ Ref.no. R10049

7 Version large body, 183 cm, 57 kg

Shipping weight: 66 kg

■ Ref.no. R10162

8 Version large body, 183 cm, 48 kg

Shipping weight: 56 kg

■ Ref.no. R10163

9 Version large body, 183 cm, 25 kg

Shipping weight: 34 kg

■ Ref.no. R10164

10 Version normal body, 165 cm, 75 kg

Shipping weight: 84 kg

■ Ref.no. R10165

11 Version normal body, 165 cm, 66 kg

Shipping weight: 75 kg

■ Ref.no. R10166

12 Version normal body, 165 cm, 48 kg

Shipping weight: 56 kg

■ Ref.no. R10048

13 Version normal body, 165 cm, 25 kg

Shipping weight: 30 kg

■ Ref.no R10047

Rescue child manikin Jennifer ▶

This manikin is the size of a 7 to 12-year old adolescent. Jennifer is articulated at all major joints with rugged construction engineered for years of durability and usefulness. Especially helpful for preparing personnel for child rescue where highly charged emotional factors come into play. Sweatpants and T-shirt included.

14 Rescue Jennifer

Size: 122 cm, Weight: 7.3 kg

■ Ref.no. R10335

15 Rescue Jennifer

Size: 122 cm, Weight: 17.2 kg

■ Ref.no. R10340



large body



normal body

14+15





1 Randy 9000

This brand new manikin is designed to be customized by the user for optimal training use. The manikin is made from rugged polyethylene parts (the same material out of which backboards are molded) that allow for the addition of varying amounts of weight to each of the pieces. You may add water, sand, or any other substance as long as you can empty the substance out of the parts. The empty manikin is easily moved and stored when training is completed. This custom-molded construction ensures constant size from one manikin to the next and allows the utilization of Randy 9000 in every environment imaginable. Each sealed piece is assembled with stainless steel hardware. The range of motion of the joints, including bending at the waist, mimics real life. Randy 9000 is perfect for RIT or Combat Challenge as well as ship-board, heavyweight, horizontal rescues or lightweight packaging exercises like spinal immobilization. Randy 9000 may be used in all weather conditions and the joint design protects rescuers' fingers. Each manikin component is easy to replace.

Weight: 17 kg

■ **Ref.no. R10168**



2 Handcuffing police training manikin

Created for use in a challenge for police officers, this manikin utilizes the large body style and softer arm parts so that handcuffing behind the back is possible. Patterned after the large body manikin, this unit also weights 75 kg. Sweat pants are included.

■ **Ref.no. R12106**



3 Flexible Rescue Randy

This regular-sized Rescue Randy unit has been developed especially for the aerospace industry and wing tank fuel cell rescue training, but it can be utilized in any confined space rescue. It exceeds the flexibility of the Regular Rescue Randy products because the waist flexes and the head twists to allow positioning of the manikin under dashboards, in tight spots, and under things where the regular Randy will not go.

Size: 165 cm, **Weight:** 25 kg

■ **Ref.no. R12105**

1 Manikin casualty simulation kit ▶

Can be used with any rescue manikin, rescue CPR manikin or nursing doll. Application of these realistic bleeding moulages to a full-body manikin facilitates quick identification, diagnosis, and dressing of wounds by trainees. Kit includes compound fractures, contusions, lacerations, evisceration, sucking chest wound, impalement, crushed foot, jaw wound, and projectile entry and exit of arm. These bleeding wounds strap on and are complete with pump assembly. Simulated blood is included. Non-bleeding strap-on wounds include 2nd and 3rd degree burns of the chest, back, forearm, and face. Manikins sold separately.

■ Ref.no. R10046





Water rescue manikins

These adult and adolescent models are made of durable vinyl plastic with rust-resistant stainless steel skeletons, articulated joints, and optional CPR capabilities. When filled with water, manikin will submerge to the neck. Add additional 3 to 5 kg of weight to sink (weights not supplied, use diving weights or bricks.).

1 Adult water rescue manikin.

Size: 165 x 56 x 23 kg, Weight: 20 kg

■ Ref.no. R10092

2 Adult CPR water rescue manikin.

Includes 5 mouth/nosepieces, 5 airway systems, and shorts.

Size: 165 x 56 x 23 cm, Weight: 21 kg

■ Ref.no. R10092-1

3 Adolescent Water Rescue Manikin.

Size: 125 x 41 x 23 cm, Weight: 9 kg

■ Ref.no. R12107

4 Adolescent CPR water rescue manikin.

Includes 5 mouth-nosepieces, 5 airway systems, and shorts

Size: 125 x 41 x 23 cm, Weight: 10 kg

■ Ref.no. R12107-1

Spare parts

5 Mouth/nose pieces, 10 pcs

■ Ref.no. R10054A

6 Replacement lungs, 24 pcs

■ Ref.no. R10092-1B



Rescue children Cathy, Billy, & Timmy

Used by Red Cross, coast guard, police department, lifeguard trainers, and emergency personnel. These manikins are excellent top and bottom water rescue devices, for adding the shock of realism to an otherwise ordinary practice procedure. When the manikins are filled with water, they will sink to the bottom. These manikins are not offered with CPR options.

7 Rescue Cathy – newborn size.

Size: 66 x 20 x 20 cm, Water filled weight: 3 kg

■ Ref.no. R10320

8 Rescue Billy – 6 to 9-month-Old.

Size: 66 x 20 x 20 cm, Water filled weight: 5.5 kg

■ Ref.no. R10325

9 Rescue Timmy – 3-year-old child.

*Size: 86 x 28 x 18 cm
Water filled weight: 9 kg*

■ Ref.no. R10330

1 Casualty simulation-basic

The most economical way to get started in simulated injuries. Re-useable wounds and refillable accessories let you practice bandaging and splinting techniques repeatedly. The kit is supplied in a storage case and includes: **Bleeding wound:** (complete with reservoir bags with pump assembly): 1 compound fracture tibia. **Non-bleeding wounds:** 12 assorted stick-on lacerations and open fracture wounds. **Make-up accessories:** simulated blood, Simulation wax, glass simulation and much more.

Size: 33 x 25.5 x 13 cm, **Weight:** 2.3 kg

■ Ref.no. R10042



2 Casualty simulation-multi

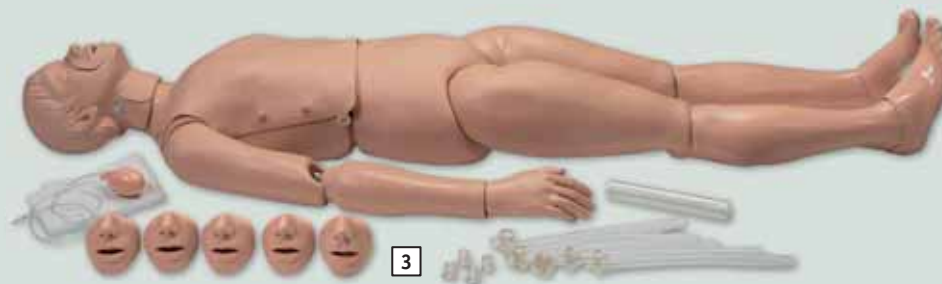
This kit gives you more complex wounds for testing higher levels of skill in bandaging and patient care while keeping initial expenditures low. The kit is supplied in a storage case and includes **bleeding wounds:** (complete with reservoir bags with pump assembly): 1 open amputation, 1 compound fracture of humerus, 1 compound fracture of tibia, 1 sucking wound of chest, 1 gunshot wound of palm. **Non-bleeding wounds:** 24 assorted stick-on lacerations and open fracture wounds. **Make-up accessories:** 3x blood simulation, 4 grease paints, glass simulation and much more.

Size: 25.5 x 23 x 46 cm, **Weight:** 4.1 kg

■ Ref.no. R10043



1



3

3 Full-body CPR/trauma manikin

This 165 cm tall, full body and foam-filled lightweight manikin has joint mobility for easy positioning in all types of environments. Its standard features include a carotid pulse driven with a squeeze bulb, our patented ball valve airway system, removable face pieces for ease in controlling crosscontamination, and anatomical landmarks for determining proper hand position for compressions. Five lung systems and five face pieces are included. The options available include moulage kits, a transport rescue head (to preserve the CPR head during rugged rescue training) and an optional lower IV arm.

Size: 165 cm, **Weight:** 23 kg

■ Ref.no. R12100

SPARE PARTS:

Replacement face pieces

Set of 10 pcs

■ Ref.no. R12100A

Replacement airways and lungs

Set of 10 pcs

■ Ref.no. R12100B

Replacement lungs only

Set or 20 pcs

■ Ref.no. R12100C

OPTIONS:

Rescue head

Head to replace CPR head during rescue training.

■ Ref.no. R12102

Lower arm for i.v. training

■ Ref.no. R12103

Trauma moulage kit

See page 305 for description.

■ Ref.no. R10046

4 Full body CPR rescue doll with light indicator

Model as R12100, but with light indicator showing adequate hand position, ventilation volume and compression depth.

Size: 165 cm, **Weight:** 23 kg

■ Ref.no. R12101



4



1 Casualty simulation-military

This kit is especially suitable for use in the creation a disaster scenario where application of makeup on multiple casualties creates the widest range of wounds. This kit contains specialty wounds associated with gunshots, like perforations, major avulsions and complex jaw wounds and also a large supply of makeup components. **The kit is supplied in a storage case and includes:** Bleeding wounds (complete with reservoir bags with pump assembly): 2 compound fractures of humerus, 2 compound fractures of tibia. Non-bleeding wounds: 60 assorted stick-on lacerations and open fracture wounds. Make-up accessories: 3x blood simulation, 2x coagulant blood, glass simulation, latex for scar simulation, modelling past, make up lines, grease paint and much more.

Size: 41 x 33 x 56 cm, **Weight:** 12.3 kg

■ Ref.no. R10045

2 Deluxe casualty simulation set

This Set contains a wide range of wounds, including 7 bleeding strap-on wounds and 15 types of moulage stick-on wounds. The full line of accessories allows you to create 70 individual wounds, plus use your expertise to create realism in your evolutions. Many wounds included, e.g. eyeball, foreign body protrusion, eviscerated intestines, lacerations, fractures, sepsis wounds, crushed foot, burns, jaw wound, projectile entry. Make-up accessories like simulation wax, colours, spatulas, skin adhesive, artificial blood and much more included. Comes with carry case and instructions for use (English).

■ Ref.no. R10315



3 EMT casualty simulation kit

This complex EMT (Emergency Medical Training) kit uses components applied to human and manikin patients to get the widest variety of training situations possible. Wounds strapped on, stuck on, created from wax and made to bleed challenge both the volunteer and the professional in areas of burns, lacerations, fractures of arms and legs and amputations; a good kit to simulate community disasters like bus accidents, or building explosions. **The kit is supplied in a storage case and includes:** Bleeding wounds (complete with reservoir bags with pump assembly): 1 jaw wound, 1 abdominal wound with protruding intestines, 1 sucking wound of chest, 2 compound fractures of humerus, 2 compound fractures of femur, 2 compound fractures of tibia, 1 laceration of the forehead, 1 open amputation, 2 gunshot wound of palm. Non-bleeding wounds: 36 assorted stick-on lacerations and open fracture wounds, 1 phosphorous burn of the hand, 1 face in shock, 2nd, & 3rd degree burn of the face, 2nd, & 3rd degree burn of the chest, 2nd, & 3rd degree burn of the back, 2nd, & 3rd degree burn of the hand, 2nd, & 3rd degree burn of the forearm. Make-up accessories: 5x blood simulation, 3x coagulant blood, glass simulation, grease paints, modelling past, simulation wax and much more.

Size: 61 x 23 x 46 cm, **Weight:** 14.6 kg

■ Ref.no. R10044

1 Xtreme trauma moulage kit ►

Represents wounds that result from explosions and chemical disasters. These simulated trauma wounds will assist in training exercises for military and government responders and anyone providing treatment to victims injured in disasters and war.

Moulages:

- Bleeding exposed denture avulsion (1)
- Bleeding major muscle laceration (1)
- Bleeding open ankle dislocation (1)
- Bleeding open humerus fracture (1)
- Bleeding open rib fracture (1)
- Bleeding open skull fracture (1)
- Bleeding open wrist fracture (1)
- Bleeding skin laceration (1)
- Burned face (1)
- Dorsal hand 4th degree chemical burn (1)
- Half-face chemical burn (1)
- Right hand 4th degree chemical burn (1)

Makeup Accessories:

- Broken glass (1)
- Casualty simulation wax (1)
- Coagulant blood (1)
- Grease paint colors: white, blue, brown, and red (1 ea.)
- Methyl cellulose for blood thickening (1)
- Simulated blood powder (3)
- Spirit gum, 1 oz. with brush (3)
- Tongue depressor/spatula combo (1)

Comes in case.

- Ref.no. R11016

2 Xtreme 2 trauma moulage kit ►

Created at the request of instructors, this kit is the perfect complement to the Xtreme Trauma Moulage Kit R11016.

Moulages:

- Bleeding exit gunshot palm (1)
- Burned face, 3rd degree (1)
- Bleeding eviscerated intestine (1)
- Bleeding forearm avulsion with skin flap (1)
- Bleeding impaled stick (1)
- Bleeding exit wound (1)
- Bleeding laceration, 12 cm (1)
- Electrical burn palm (1)
- Intermediate shotgun entry (1)
- 45-caliber close entry (1)
- Bleeding open fracture, tibia (1)
- Bleeding open fracture, femur (1)
- Bleeding open fracture, clavicle (1)

Makeup & Accessories:

- Skin Tite® adhesive (1)
- Red grease paint, 2 oz. (1)
- White grease paint, 2 oz. (1)
- Brown grease paint, 2 oz. (1)
- Blue grease paint, 2 oz. (1)
- Simulation wax, 8 oz. (1)
- Simulated blood powder (1)
- Coagulant blood, 4 oz. (1)
- Blood thickener, methyl cellulose (1)
- Broken glass (1)
- Spirit gum, 1 oz. with brush (1)
- Tape remover pads (12)
- Tongue depressors (3)
- Spatulas (3)
- Carry case (1)

Comes in case.

- Ref.no. R11017





1 Xtreme trauma deluxe moulage kit

The Deluxe Xtreme Trauma Moulage Kit includes all of the wounds from the Xtreme Trauma Moulage Kit and Xtreme Trauma Moulage Kit 2, and has sufficient makeup and accessories to create even more realism.

■ Ref.no. R11018



2 Simulated burns

These four simulated stages of burns are developed to assist with simulating burn injury types, patient assessment and care. Use assessment findings to identify the burn severity and type to prepare a treatment plan and to measure performance of burn management. The burns are pliable and can easily be cut into any shape to fit any area on a human patient or patient simulator/trainer. Pieces are reusable and come ready to wear. Theatrical makeup and simulated blood may be applied to add color for realism. Includes four rolls: 1st degree, 2nd degree (superficial), 2nd degree (deep), and 3rd degree.

■ Ref. no. R11015

AVAILABLE SEPARATELY:

1st degree

■ Ref.no. R11015A

2nd degree (superficial)

■ Ref.no. R11015B

2nd degree (deep)

■ Ref.no. R11015C

3rd degree

■ Ref.no. R11015D



▼ **1 EZ wounds – professional wound simulation set**

With this casualty simulation set you create extremely realistic wounds for medical training in a few minutes without having any make-up skills. The molds included in this set can be filled with wound simulation compound many times. The filled molds are pressed onto the required wound position after the compound has dried, the wound adheres to the skin or the manikin without the need of glue. Add some of the supplied artificial blood and the wound is ready for use. For those who require extreme realism a flesh compound can be added into the wound to make it even more realistic. Wounds can be dressed several times, remove the dressing from the wound, wash away the blood and re-apply new blood. Ready for another turn. After finishing the training, the wounds can be easily removed and disposed. No need for cleaning and maintenance. Consumables like wound compound, flesh compound, fixation powder and artificial blood are available separately. The set includes 3 cuts, 7 different lacerations, a hard-contact shot wound, a distant shot wound and a bullet exit wound. The set includes also wound compound, flesh compound, fixation powder, isopropanol, artificial blood, a spatula for applying the compounds and some cotton swabs for applying the blood. The perfect set for professional training of paramedics, firefighters and doctors.

■ Ref.no. WS02





1 EZ wounds – Casualty simulation set basic

With this casualty simulation set you create extremely realistic wounds for first aid training in a few minutes without having any make-up skills. The molds included in this set can be filled with wound simulation compound many times. The filled molds are pressed onto the required wound position after the compound has dried, the wound adheres to the skin or the manikin without the need of glue. Add some of the supplied artificial blood and the wound is ready for use. For those who require extreme realism a flesh compound can be added into the wound to make it even more realistic. Wounds can be dressed several times, remove the dressing from the wound, wash away the blood and re-apply new blood. Ready for another turn. After finishing the training, the wounds can be easily removed and disposed. No need for cleaning and maintenance. Consumables like Wound compound, flesh compound, fixation powder and artificial blood are available separately. The set includes a cut, a superficial and a deeper laceration, and an abrasion. The set includes also wound compound, flesh compound, fixation powder, isopropanol, artificial blood, a spatula for applying the compounds and some cotton swabs for applying the blood. The perfect set for training of first aiders and basic training of youth firefighters or youth Red Cross.

■ Ref.no. WS01



3

3 Emergency lower leg

Lifelike Model of a human leg with deep tissue injury, caused by an explosive (blind grenade). The vessel system can be connected with a Luer-lock connector. The whole model is made of strong silicone material and can be used for tamponade treatment of the wounds.

■ Ref.no. R50010



2 EZ wounds – Casualty simulation set for standardized patients

With this casualty simulation set you create extremely realistic wounds for standardized patients in a few minutes without having any make-up skills. With a short explanation the actors can attach the required wounds on themselves or on each other without the need of tutors spending their time for make-up. The molds included in this set can be filled with wound simulation compound many times. The filled molds are pressed onto the required wound position after the compound has dried, the wound adheres to the skin or the manikin without the need of glue. Add some of the supplied artificial blood and the wound is ready for use. For those who require extreme realism a flesh compound can be added into the wound to make it even more realistic. Wounds can be dressed several times, remove the dressing from the wound, wash away the blood and re-apply new blood. Ready for another turn. After finishing the training, the wounds can be easily removed and disposed. No need for cleaning and maintenance. Consumables like wound compound, flesh compound, fixation powder and artificial blood are available separately. The set includes a cut, a superficial and a deeper laceration, and an abrasion as well as a textile impression as for example a safety belt in a car would cause. For simulation of hematomas the set includes four skin colors. The set includes also wound compound, flesh compound, fixation powder, isopropanol, artificial blood, a spatula for applying the compounds and some cotton swabs for applying the blood. The perfect set for professional training in skills labs.

■ Ref.no. WS03



2



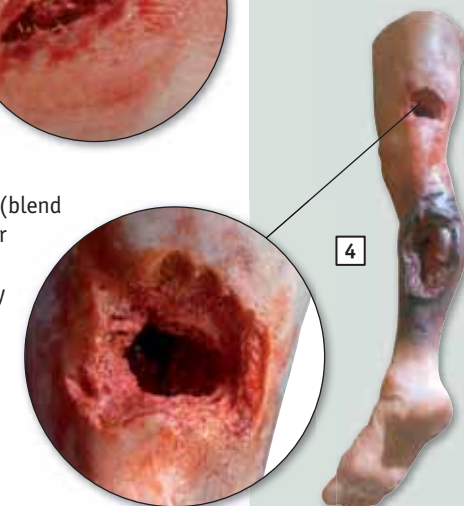
1+2



4 Emergency leg

Complete, life size from hip to toe, with explosion injury (blend grenade) on the lower leg and a shot right through the upper leg. Both wounds do have a pumping mechanism and can be used for tamponade treatment. On the upper leg additionally training of tourniquet use is possible. Both wounds can bleed independently so the situation can be adjusted to your training needs.

■ Ref.no. R50020



4



1 First aid arm

Train students in the proper techniques used to control severe bleeding...

- Direct Pressure
- Pressure Points
- Tourniquet

The First Aid arm provides extremely realistic appearance and function to make your training exercise true-to-life. Looks and feels like a real arm. Synthetic blood can be made to flow from either the cut on the forearm or from the severed thumb, or from both at the same time. The severed thumb allows training in proper care and handling of separated body members. You can regulate rate of bleeding and create venous or arterial flow. Blood returns to collection tray for reuse. Pressure points function realistically at wrist and upper arm. Students will need to react just as in an actual emergency and select the appropriate method to control bleeding and treat the wound. Includes vinyl arm with wound, severed thumb, collection tray, arterial pulse bulb, venous supply bag, one quart blood, teaching guide, and hard carrying case.

■ Ref.no. R10319



2 Facial suturing module set

Now that your students have mastered basic suturing skills on a flat pad, offer them more challenging real-life scenarios with the Facial Suturing Module Set. Use these handy portable trainers to help build confidence and technique in the repair of complex lacerations to the mouth, nose, ear and eye. The soft, lifelike skin can be cut and stitched many times, then easily replaced over the permanent core and base. Completely washable and nontoxic. Set includes scalpel, forceps, needle holder and scissors in a soft case, baby powder, and one nylon suture.

■ Ref.no. R11001



3 Pediatric suture head kit

We are pleased to offer the ultimate in suture practice! This appealing trainer will build essential techniques in the repair of almost any laceration to the face and scalp. Great for practice in draping and bedside skills as well. The soft, lifelike skin can be cut and sutured hundreds of times, then simply replaced over the permanent core and base. Completely washable and nontoxic. The trainer comes with scalpel, forceps, needle holder and scissors in a soft case, one nylon suture, simulated blood, and baby powder.

Weight: 4.3 kg

■ Ref.no. R11103

1 Suture kit

An inexpensive kit that offers practicing sutures at all levels. Suitable for students who need to learn or health care professionals who want to perfect the different types and techniques of sutures and other skills needed for wound closure. The instructor or student will have the ability to make incisions and determine the depth of suturing and the technique to be used. Practice and demonstrate tying knots, stapling and placement of staples, use of surgical glue, suturing deep tissue (placement and closure), and suturing subcutaneous tissue (placement and closure). Features epidermis, dermis, fascia, fat, and muscle layers. The skin will allow placement and closure of superficial sutures. Includes suture pad, tray to hold pad, durable carry case, needle holder, suture scissors, tissue forceps, scalpel, nylon suture, and small case to hold the instruments.

Pad Size: 15 x 10 x 4 cm, Weight: 1.25 kg

■ Ref.no. R10030

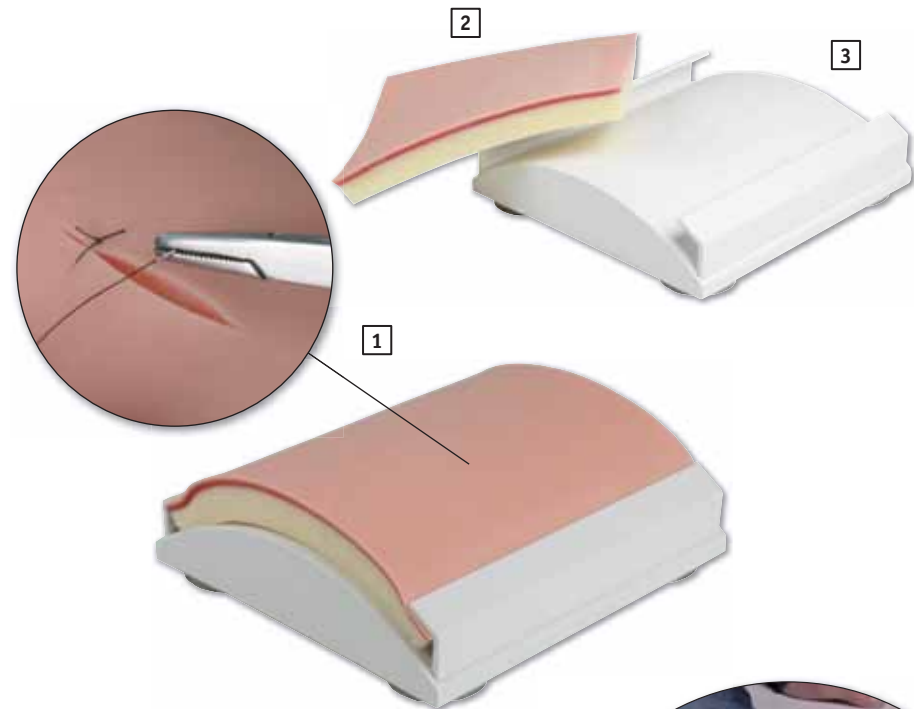


2 Advanced suture kit

Take your suture skills practice to a new level! The soft, flexible three-layer skin opens realistically when incised, yet is highly resistant to tearing — sutures won't cut through even when pulled tight. Skin pad can be sutured hundreds of times. Includes easy-to-change specialty inserts for deep dermal suturing, tendon repair, and purse-string suture — challenging procedures that require a high degree of precision. Compact, portable and completely washable. Includes base, one skin pad, four non-latex bands, one muscle block, one deep dermal insert, one tendon block, one tendon, one purse-string insert, suture kit, and carry bag.

Weight: 1.5 kg

■ Ref.no. R11212



1 Skin suture trainer

This suture trainer allows practicing surgical sutures again and again. The suturing resistance of the artificial skin is almost like the real skin. Different skin suture techniques can be practiced (single interrupted suture, vertical mattress suture and intracutaneous suture). The material is very robust and guarantees a long term use. Due to this the costs per students are very low at highest possible training quality. Including jig with suction cups. This trainer was developed in co-operation with Prof. Dr. Sarah Koenig, associate professor, surgical skills lab, dept. for general and visceral surgery, University Medicine Goettingen.

■ Ref.no. 7060

2 Replacement skin pad

■ Ref.no. 7060A

3 Replacement pad holder

■ Ref.no. 7060B

4 Replacement Skin Pad, transparent

The thread is visible through the superficial skin layer and allows to see the position of the whole suture for education purposes.

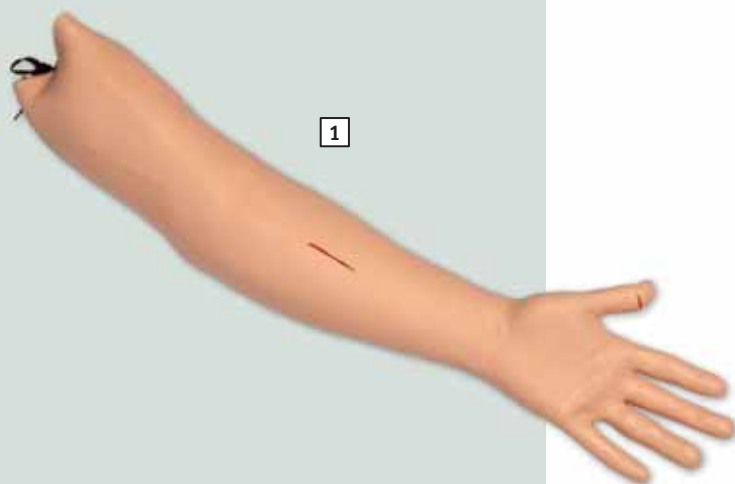
■ Ref.no. 7060T



5 Suture pad holder for simulation patients

The holder for our proven suture pad makes it possible to attach the pad with the help of flexible straps to the arm or leg of a simulation patient for a more realistic training situation. The holder is flexible and puncture-resistant, avoiding all risk for the simulation patient, and is also suitable for use with training dummies. A suture pad is not included with this item; please see Ref.no. 7060A.

■ Ref.no. 7060C



1 Suture practice arm

This arm is made of a soft vinyl skin over a foam allowing hundreds of suture practice sessions. The arm comes with 3 cut wounds, two at the arm and one at the finger. Additional cuts can be placed. All wounds can be sutured several times. The soft and pliable material guarantees the sutures will not pull out when tightened. Delivered with a starter suturing kit.

Size: 62 x 18 x 13 cm, **Weight:** 1 kg

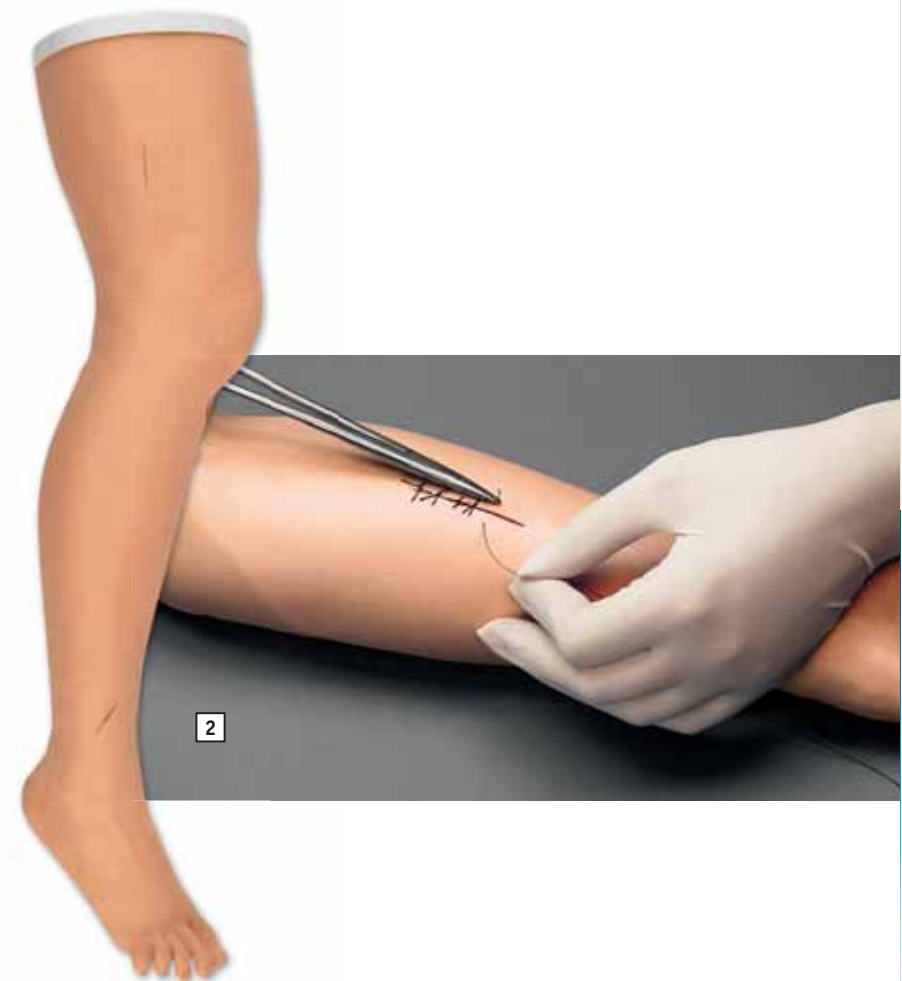
■ **Ref.no.** R10025

2 Suture practice leg

This leg is made of a soft vinyl skin over a foam allowing hundreds of suture practice sessions. The leg comes with 3 cut wounds. Additional cuts can be placed. All wounds can be sutured several times. The soft and pliable material guarantees the sutures will not pull out when tightened. Delivered with a starter suturing kit.

Weight: 1,2 kg

■ **Ref.no.** R10024





1 Abdominal open and closure trainer

The Advance Abdominal Open and Closure Skin Pad has been developed to simulate real skin tissue and for ease of use by course organisers on low budgets doing basic surgical courses. It is supplied with a pink skin surface with sub-dermis for intradermal suturing. A white linear alba makes up a further layer.

- Easy maintenance, requiring only a set of balloons and set of skins
- Up to 4 good incisions can be made from each set of skins
- Skins cut and suture well
- Included with the kit are four balloons and a set of skins (1 red, 1 white)
- Internal planes within the unit prevent the balloon from moving around
- Rubber suction feet secure the base providing easy working conditions

Size: 25.5 x 21 x 13 cm

■ **Ref.no.** R10093



2 Trochar-trainer

- This simple new concept provides a useful means to demonstrate a trochar being inserted through the abdominal wall
- The skin pad will accept most trochars from a Verres type needle to a 12 mm trochar.
- The skin tissue has considerable elasticity and has been designed to simulate the resistance experienced on body entry.

The transparent box allows for full visual access. Without trochar.

■ **Ref.no.** R10094



3 Endoscopic submucosal dissection training model

This resinoid model represents almost similar figure of human stomach, and can be used for the training of ESD. Considering the operability of endoscope, the transition part, from esophagus to stomach is made of soft resin. By setting a real dissected stomach of porcine at the area where ESD is supposed to be executed, very similar feeling of human stomach wall can be recognized using endoscope.

The following locations can be used to place tissue:

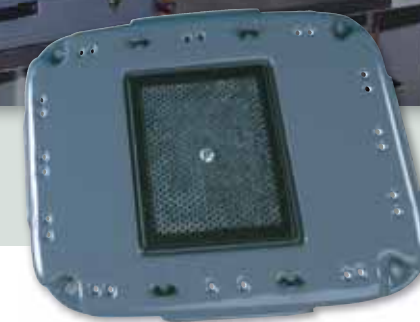
- Vestibular anterior wall
- Vestibular posterior wall
- Greater curvature at gastric angle
- Lesser curvature
- Greater curvature in the gastric body.

Comes with transport case.

Size: 31.5 x 24 x 22.5 cm, **Weight** 2.5 kg

■ **Ref.no.** LM83





1 Surgery and laparoscopy Torso

This trainer is aimed at all levels of surgeons in training whose surgical skills necessitate extra practise. Once set up, the torso can self-educate using his/her preferred surgical laparoscopic instrumentation for a variety of techniques.

The Torso has the following features:

- Can insufflate and maintain airtight pressure
- Supports usage of wet tissue or prepared artificial materials
- Can be used for surgical diathermy. There is a fixed metal plate in the base of the unit with a connection on the outside to enable earthing (only version with diathermy).
- Can be easily cleaned by flushing out through a large airtight drain plug
- It is light weight and has a carrying handle

Size: 75 x 55 x 25.5 cm

- Ref.no. R10083 with Diathermy
- Ref.no. R10084 without Diathermy

ACCESSORIES:

2 Organ board

The Organ Board for **R10083** allows trainers to prepare specimens in advance for use in the Surgery and Laparoscopy Torso. The board has a simple interchangeable push-peg and hoop-tie system for securing specimens. A diathermy plate is mounted on the board. Furthermore, suction feet provide a firm placing for the board within the Torso.

- Ref.no. R10083-1

3 Abdominal skin with fatty tissue

A smooth soft-tissue multi-functional Skin Pad with a pink surface and a yellow fatty tissue layer, 12 mm thick. Ideal to take trocar incisions or larger incisions and can be sutured. Realistic tactile feeling when surgical zips or gloves are used.

- Ref.no. R10083-2 (not pictured)

4 Neoprene skin

2 replacement skins for Laparoscopy Trainer **R10083**.

- Ref.no. R10083-3 (not pictured)



1 Laparoscopic trainer

The portable laparoscopic trainer is designed to provide low cost assistance in laparoscopic training.

- Supplied with 4 mm black neoprene skin
- Simple to assemble and ready for use in seconds
- Works with wet tissue (eg. Pig liver) or dry (eg. foam)

Size: 39 x 39 x 22 cm

■ Ref.no. R10086

ACCESSORIES:

Neoprene skin (2 pcs)

■ Ref.no. R10086-1

Transparent skin for daylight use

■ Ref.no. R10086-2

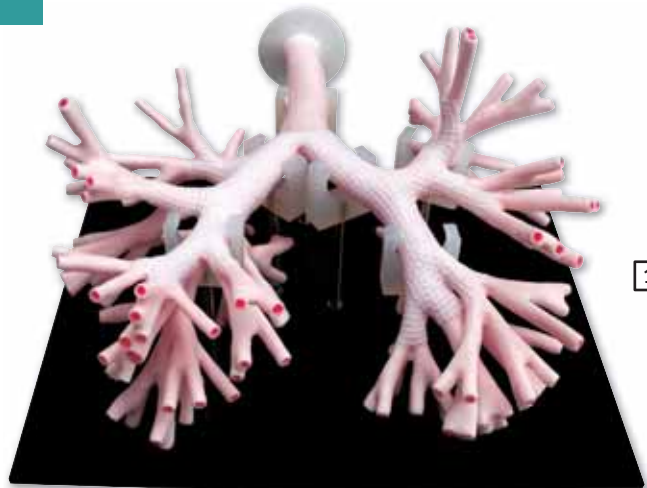
2 Surgical skills trainer

This suturing trainer is perfect for training of basic operation skills. A suturing skin pad as well as an anastomosis bowel can be replaced. The perfect aid for the laparoscopic trainer R10083 or R10086.

Size: 25 x 23 x 9 cm

■ Ref.no. R 10083-4

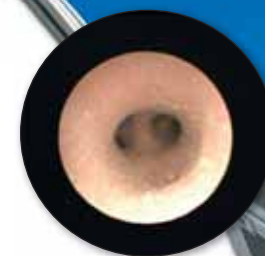




1 Bronchoscopy trainer ▶

This product can be used for insert training of ultrafine bronchoscopy as well as existing bronchoscopy. Special fabrication methods allow recreation of ultrafine bronchoscopy that could not be done before. Most methods duplicate distal bronchus. Ultrafine bronchoscopy enables insertion all the way through the distal bronchus. The material is specialized silicone rubber. The sense of bronchoscopy insertion allows a feeling like human-like texture due to elasticity. In addition, the internal bronchial tube is a humanlike color. The bronchial tube and the stand are easily removable from the outer case. Bronchus is detachable and washable after insert training.

■ Ref.no. LM92



2 Ultrasonic bronchoscopy simulator

This model can be used not only for ultrathin bronchoscope insertion training, but also for endobronchial ultrasound-guided transbronchial needle aspiration (EBUS-TBNA) training.

Features:

- Visualizing ultrasonic bronchoscopy images of lymph nodes embedded in the puncture site enables highly realistic definitive diagnosis of cancer metastases to the hilar and mediastinal lymph nodes, as well as practical training for puncturing the target lymph node.
- The ultra-thin structures of the bronchi in the bronchi main body were reproduced using a special manufacturing method, including the 5th order bronchi. Ultra-thin bronchoscopes can be inserted up to the 5th order bronchi.
- A head model is attached, enabling insertion of the ultrasonic bronchoscope from the oral cavity and confirmation of the bifurcation of the bronchi and esophagus.
- The bronchi main body and the bronchi-support stand can be easily removed from the black case.
- The peripheral parts of the three-dimensional bronchi can be fully opened, enabling washing with water following endoscope insertion training.
- The material used is a special silicone rubber. Its elasticity confers a human body-like texture when inserting the bronchoscope. The inside of the bronchi is also similar in color to the human body.

Supplied in case.

Size: 30 x 46 x 24 cm, **Weight:** 5 kg

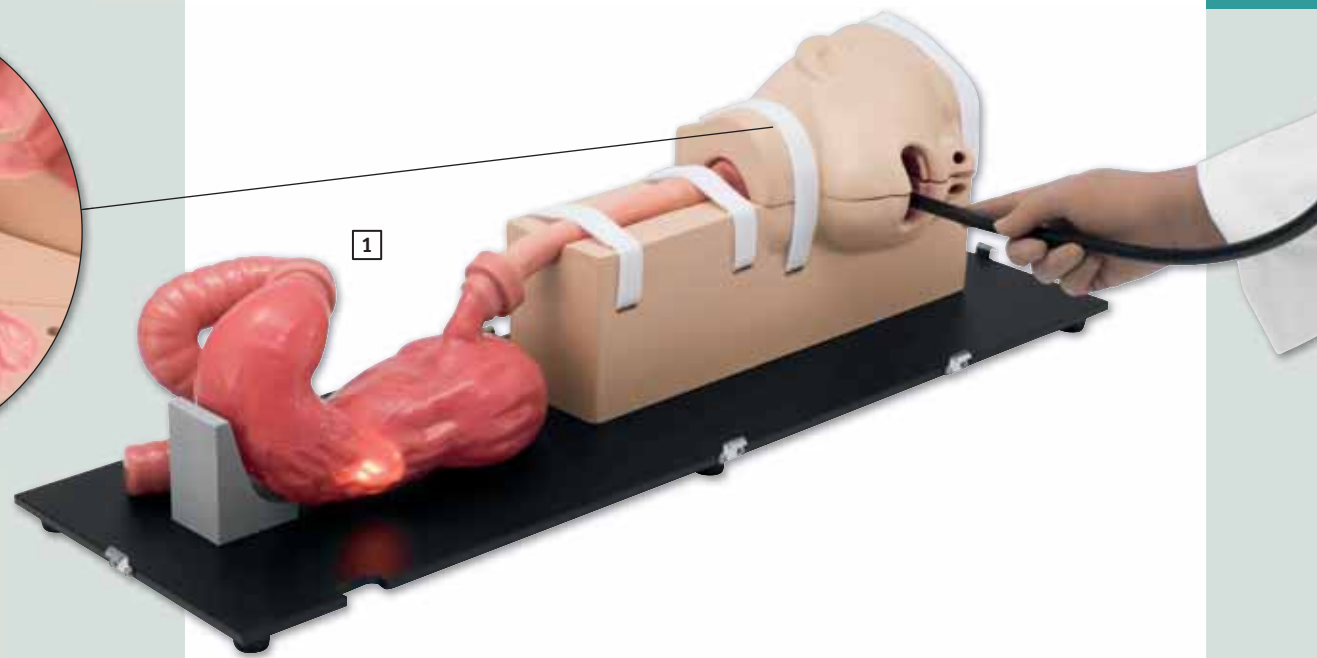
■ Ref.no. LM99



Hole for polyps



Yamada classification, Type I-IV (left to right)



1 EGD (esophagogastroduodenoscopy) simulator

This product is a simulator for inserting an endoscope into the upper gastrointestinal tract and performing an examination. The endoscope can be inserted both by the transoral and the transnasal method, and reproduced ulcers and polyps for observation are provided.

Features

- The simulator is made of silicone rubber, and it feels like a human body when inserting an endoscope. The color is also close to that of the human body.
- Both transoral and transnasal insertion can be performed.
- With transnasal insertion, there is a setting for cases that are difficult to insert. The insertion technique or appearance can be changed (nasal septum deviation to the right or the left).
- Training in endoscopic examination of the esophagus, stomach, and duodenum is possible. In endoscopic retrograde cholangiopancreatography (ERCP), training in the cannulation method of the papilla is also possible.
- A gastric ulcer and early gastric cancer can be observed in the stomach. Four types of polyps of Yamada classification types I to IV can also be attached for observation.
- An ulcer is reproduced in the duodenum.

The face portion can be opened at the midline to understand the anatomical structure of the nasal and oral cavities and the larynx.

■ Ref.no. LM103

1 Colonoscope training model ►

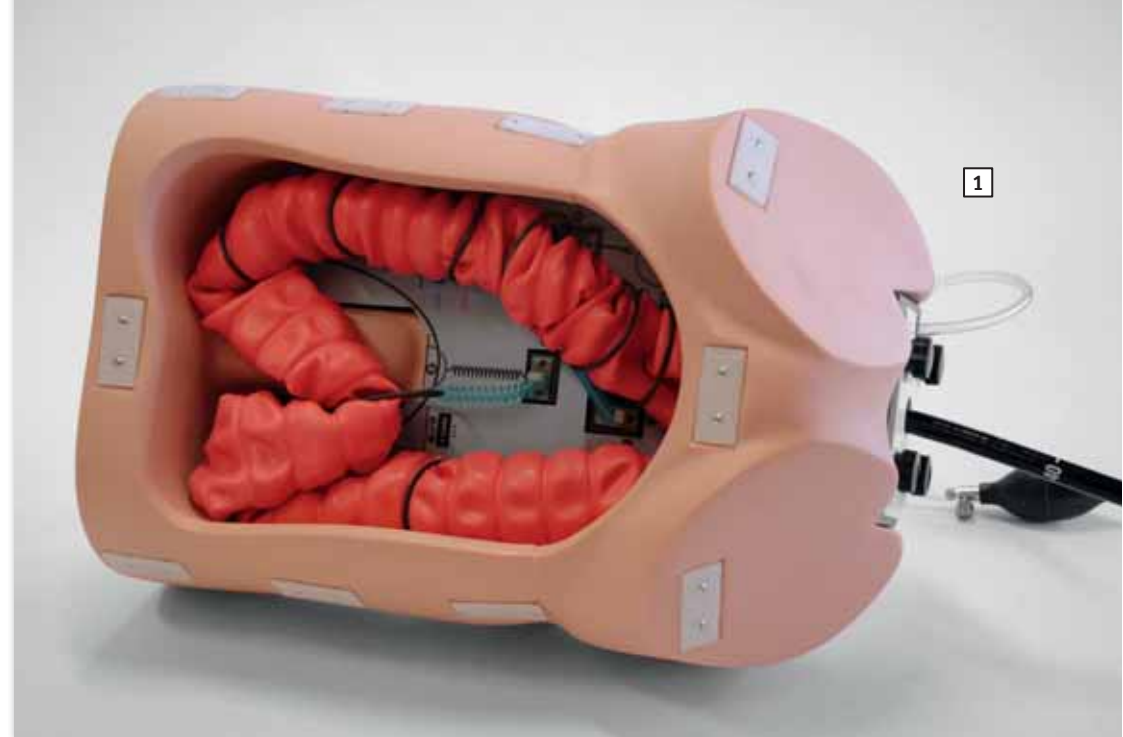
Soft and floppy colon with airtight structure allows realistic colonoscope insertion and withdrawal training with air insufflation/suction functions and maneuver techniques which reduce patients' pain and discomfort in the examination procedures. Human colons are organs which move in our abdomen and change their shapes to accommodate contents. The training model facilitates learning how to obtain the best view while handling the organ by the colonoscope. In addition to such changing state of each colon, there are significant varieties in each individual's colon, some are shorter and simpler and others are redundant and more complicated. This innovative training model is designed to allow various colons' placement, facilitating trainees to acquire the skills step by step to achieve higher competence.

Features:

- The soft, floppy colon tube which shows realistic response to colonoscope manipulation, facilitating acquire skills in preventing "loops" and straightening them to reach safely to the caecum.
- The colon-rectum tube can be set airtight to allow training in insufflation and suction by the colonoscope.
- The anal sphincter can be tightened and relaxed by the manual pump to meet the training's requirements.
- The abdomen manikin is designed to take three positions, left lateral, right lateral and supine, allowing the patient position change in the procedures.
- Colon-rectum tube can be placed freely on the base of the abdominal cavity. 5 sheets of colon layout guides with 6 cases and a training guide book facilitate structured training program.
- Manual abdominal compression can be performed by using abdomen skin cover.
- The combination newly developed lubricant gels realize smooth travel of the instrument and help the colon tube keeps longer. The gels are harmless to the human body and can be washed out just by water.
- The detachable colon tube helps easy cleaning.
- Colon tube section can be easily replaced.

Size: 47 x 31 x 21.5 cm, Weight: 6.5 kg

- **Ref.no. R16690**



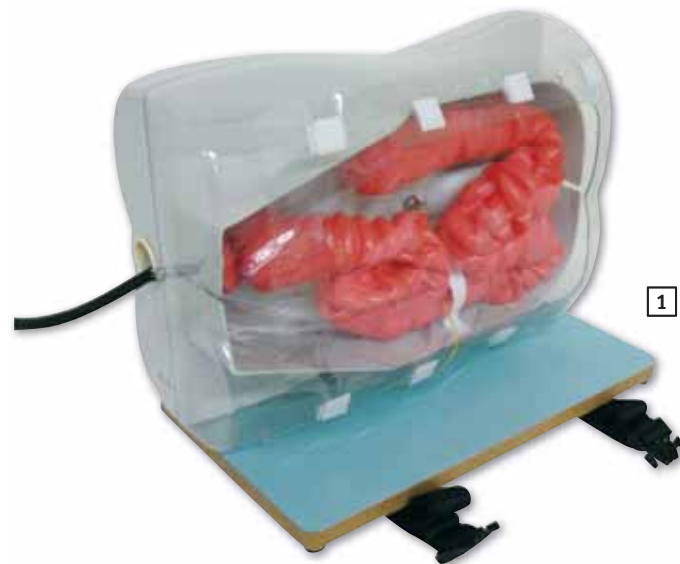
1 Colonoscopy Simulator ▶

The Colonoscopy Simulator is a training model for practicing colonoscopy insertion. The simulator is made of special silicone rubber that feels like a living body in the observation field. The internal color also closely resembles that of the living body.

Features:

- Observation can be performed by attaching a simulated polyp (for observation) in the ascending and descending colons.
- LST (laterally spreading tumor) is reproduced in the ascending colon.
- Ref.no. LM107

By attaching various optional parts, it allows training in endoscopic interventions, such as resecting a polyp and stopping bleeding, and insertion into the small intestine using a balloon enteroscope.



2 Optional small intestine extension ▶

Features:

- Practical training for the double balloon method can be performed
- Practical training for the single balloon method can be performed
- Using each type of balloon enteroscopy, insertion into the large and small intestine and shortening technique can be performed
- The small intestine has a total length of 120 cm and contains an internal scale with intervals of 30 cm to enable the user to confirm the length of insertion
- The level of difficulty of inserting the enteroscope into the small intestine can be changed (Two types)

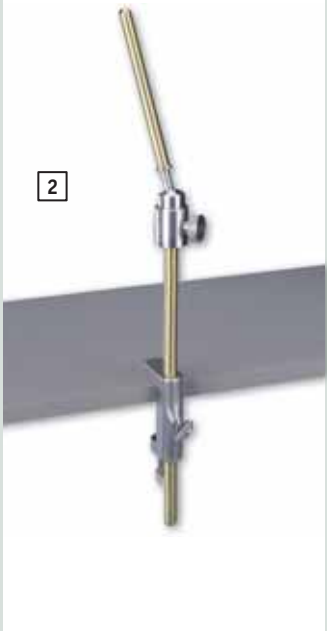
Semi-difficult version

- Ref.no.LM107A

Easy version

- Ref.no. LM107B





1 Dental manikin ▶

A simple and economical chair manikin for auxiliary training of assistants and hygienists in the dental office. Unit includes DENTOFORM® model for technique training, Aluminal skull, and soft outer Plassein head. Universal ball-joint allows for rotation of head into a variety of positions. Includes chair mount.

Weight: 2.8 kg

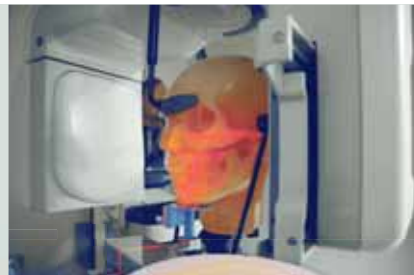
■ Ref.no. R17000

2 Dental manikin bench mount ◀

This small portable bench-clamp is popular with dental assistant and dental hygiene classes, as well as for dentistry students. It has a lightweight universal ball-joint for simulating neck movement. Use with Dental Manikin R17000.

Weight: 1 kg

■ Ref.no. R17000A



◀ Dental Radiography Head Phantom

This radiography phantom has removable jaws and tongue allowing for a variety of applications for training and research.

Features:

- Each tooth is individually modeled and has a three-layer structure of enamel, dentin and pulp cavity.
- Each hard tissue (enamel, dentin, cortical bone and cancellous bone) has a particular HU number and X-ray absorption rate.
- Jaws and tongue are detachable to allow access to the oral cavity, pharyngeal cavity and maxillary sinus. Sensors, simulated lesions, or residue can be set in these cavities.
- Carotid arteries are prepared as lumens to accommodate simulated calcifications.

Anatomy:

- Synthetic skull with nasal cavity, maxillary sinus, mandible alveolar, and maxillary alveolar; cervical vertebrae and hyoid bone, teeth with enamel, dentin and pulp cavity.
- Tongue, oral cavity, pharyngeal cavity and carotid arteries

3 Head with closed mouth

■ Ref.no. R16525

4 Head with open mouth

■ Ref.no. R16526



1



1 X-ray phantom head

Human skull, safely embedded in plastic for easy use. The jaws are slightly open to allow dental panoramic images of the teeth. The neck includes some cervical vertebrae depending on the ordered type. An embedded tread allows the use with a tripod. The jaw may have dental gaps, dental repairs, broken teeth, replaced teeth or other individual features. For detailed information about the available phantoms please contact our sales team.

X-ray phantom head with cervical vertebrae, transparent

■ Ref.no. 7300

X-ray phantom head with cervical vertebrae, opaque

■ Ref.no. 7310

X-ray phantom head, transparent

■ Ref.no. 7320

X-ray phantom head, opaque

■ Ref.no. 7330

2 Tripod for x-ray phantom head

Very strong tripod for use with the x-ray phantom head. Foldable but stable, holding the head safely in place. With rotatable head for precise positioning of the phantom in the x-ray machine

■ Ref.no. 7350



2

1



2



3



4



X-Ray part phantoms

Our X-Ray part phantoms give the unique opportunity to take x-ray images of single body parts again and again. The Phantoms include real human bones and allow to take real x-ray images. The models are perfect for schools and education, but also for medical technicians since the same bones can be x-rayed again and again in different settings without the danger of harming a patient. The bones are embedded in transparent plastic. If requested the phantoms can be coated with opaque color to hide the inner structures. All phantoms are handmade and unique. They may differ in size and shape. Due to production technology there may be discoloring and cracks inside the phantom. This is related to production and is no lack of quality. These phantoms are only sold against a proof of medical use.

1 X-ray Phantom hand

Hand with wrist

- Transparent Ref.no. 7210
- Opaque Ref.no. 7215

2 X-ray phantom foot

Foot Skeleton with start of lower leg

- Transparent Ref.no. 7230
- Opaque Ref.no. 7235

3 X-ray phantom knee

Part of upper- and lower leg and patella

- Transparent Ref.no. 7250
- Opaque Ref.no. 7255

4 X-Ray phantom lower arm

Hand with forearm and elbow

- Transparent Ref.no. 7220
- Opaque Ref.no. 7225



5 X-ray phantom elbow

Part of upper and lower arm

■ Transparent Ref.no. 7260

■ Opaque Ref.no. 7265

6 X-ray phantom pelvis

Pelvis with 2 lumbar vertebrae and femur stumps

■ Transparent Ref.no. 7240

■ Opaque Ref.no. 7245



i

All models embedded in transparent plastic.



7 X-ray phantom shoulder

Humerus with shoulder girdle

■ Transparent Ref.no. 7340

■ Opaque Ref.no. 7345

8 X-ray phantom spine

Complete spine with simulated discs

■ Transparent Ref.no. 7290

■ Opaque Ref.no. 7295



Sectional X-ray phantoms with artificial bones

This series of sectional phantoms offers x-ray imaging with always identical images without anatomical differences between two models. This means you can use several identical phantoms or replace a broken or lost phantom by exactly the same. This is especially useful in case for example several technicians shall make identical images on different machines or an educational institute wants to make their own complex teaching papers. The phantoms are available in transparent or opaque versions, allowing to choose the suitable version. You may for example use the transparent phantom for teaching since it is easier to position and then change to the opaque phantom for examination purposes.



Thorax

Includes a thoracic skeleton with embedded heart and lungs to provide realistic imaging. The scapulae are rotated outside of the lung fields for proper PA chest imaging.

- 4 Transparent
■ Ref.no. R16702
- 5 Opaque
■ Ref.no. R16703

Head phantom

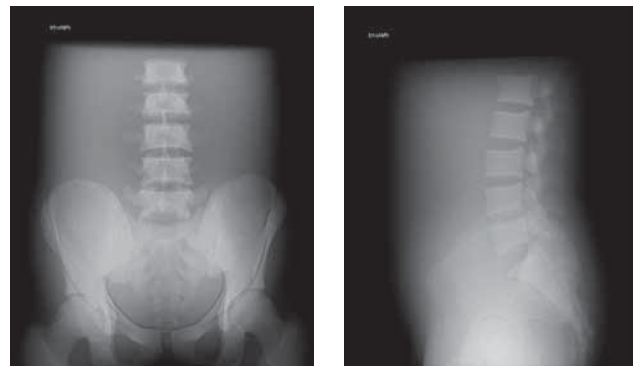
- 1 Transparent
■ Ref.no. R16700
- 2 Opaque
■ Ref.no. R16701



Pelvis

Includes lumbar / sacral spine, pelvic bony anatomy and proximal femurs.

- 3 Opaque
■ Ref.no. R16704



▼ Right Elbow

Movable. Normal flexion range allows for AP/lateral and partial flexion views with one phantom.

- 1 Transparent
■ Ref.no. R16705
- 2 Opaque
■ Ref.no. R16706



▼ Right Hand

Flat, unbent fingers.

- 3 Transparent
■ Ref.no. R16707
- 4 Opaque
■ Ref.no. R16708



▼ Left Hand

Grasping position.

- 5 Transparent
■ Ref.no. R16709
- 6 Opaque
■ Ref.no. R16710



▼ Right Knee

Freely movable patella and joint allows for realistic positioning of the knee for AAP/lateral, oblique, sunrise and tunnel views.

- 7 Transparent
■ Ref.no. R16711
- 8 Opaque
■ Ref.no. R16712



▼ Right foot

Normal position.

- 9 Transparent
■ Ref.no. R16713
- 10 Opaque
■ Ref.no. R16714



▼ Left foot

Oblique position.

- 11 Transparent
■ Ref.no. R16715
- 12 Opaque
■ Ref.no. R16716





1 Full Body X-Ray Phantom ▶

This model is unique in the world and provides excellent training opportunities for positioning and alignment techniques in projection radiography. It should be part of the basic equipment of any radiographic school. The phantom contains a real human skeleton as well as outlines of larynx, lung, heart and kidneys (organs will create a shadow on the image), which allows taking real X-ray images like in a patient. Using a real skeleton provides even smallest guiding structures which is impossible with a plastic skeleton. During assembly of this phantom we pay special attention to the correct size of joint spaces. All joints are moveably mounted allow positioning in all normal x-ray positions (e.g. frog position, pro- and supination of lower arm). The arms can be moved upwards which makes the phantom suitable for use in all kinds of osseous examinations under CT. Each phantom is hand-made one of a kind; it may differ in size and appearance. Depending on the individual phantom it may have some pathologies, outer shape may differ depending on size of the skeleton. The new version was re-designed in co-operation with a well-known German school for radiographers and fits all needs for education in radiography. This phantom is only sold against proof of medical use. Life size.

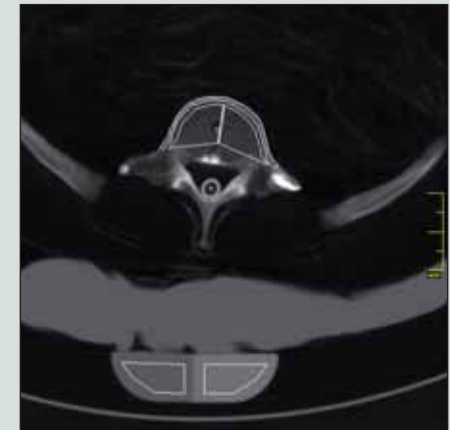
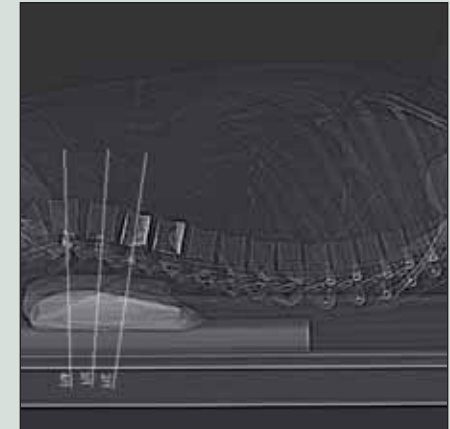
■ Ref.no. 7200

2 Radiographic positioning doll, plastic skeleton

This model offers all features of model 7200 but includes a plastic skeleton and is due to this only suitable for positioning training.

Including a transport and storage case

■ Ref.no. 7201 (not pictured)





We maintain and repair your
x-ray phantoms fast
and economically!



1 Modular full body x-ray phantom

The whole body phantom is a life-size, full body anthropomorphic phantom with a state-of-the-art synthetic skeleton, lungs, liver, mediastinum and kidneys embedded in soft tissue substitute. Movable joints allow basic positioning for plain X-ray and training/research applications can be enriched by disassembling the phantom into 10 individual parts (head, limbs and trunk). There are no metal parts or liquid structures.

Patient positioning:

- Right shoulder rotates sideways, abducting to a horizontal position.
- Left shoulder rotates forward, up to a horizontal position.
- Elbows bend inward to approx. 90 degrees.
- Hip joints rotate forward up to 90 degrees, then rotate outward up to 45 degrees, respectively.
- Knees bend to approx. 90 degrees.
- The phantom can be held in the supine frog leg position.
- The limbs and head are detachable at joints and neck for wider applications.
- The head supporter facilitates various head positions.

Anatomy:

- Life size synthetic skeleton
- Hands and feet with bone trabeculae
- Lungs with pulmonary vessels
- Mediastinal space
- Liver
- Kidneys

Phantom materials:

- Radiology absorption and Hounsfield number approximate to human body.

Phantom size: approx. 165 cm height

Phantom weight: approx. 50 kg

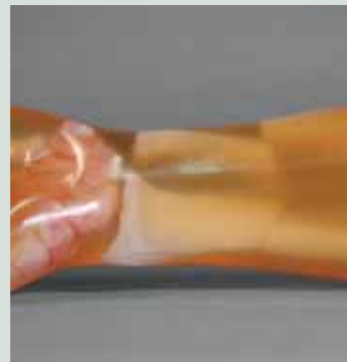
- Ref.no. R16900



2 Fractured hand with forearm for R16900

Hand with forearm showing bone fractures for radiography. Can be replaced against the original hand with forearm of R16900. Of course this phantom can also be used as stand-alone type too.

- Ref.no. R16900-1



1 Pediatric whole body phantom

The new pediatric whole body phantom is molded after a 5-year-old child of 105 cm height. This phantom is a life-size, full body anthropomorphic phantom with a state-of-the-art synthetic skeleton, lungs, liver, mediastinum and kidneys embedded in soft tissue substitute.

Training skills

- Plain X-ray photography and basic CT scanning.
- Basic patient positioning for X-ray and CT.
- Life size synthetic skeleton
- Hands and feet with bone trabeculae

Features

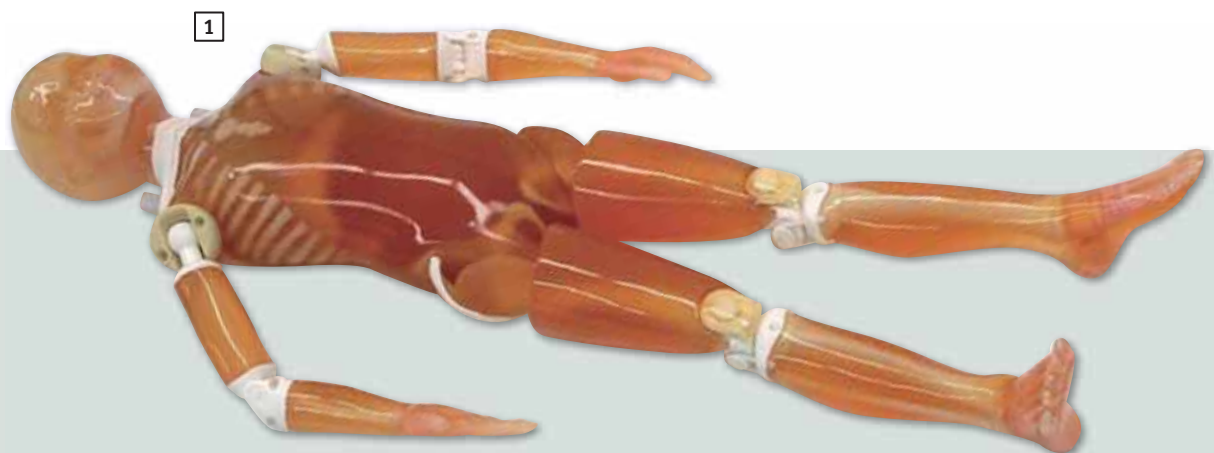
- Movable joints allow basic positioning for plain X-ray.
- Training and research applications can be enriched by disassembling the phantom into 10 individual parts (head, limbs and trunk).
- The phantom has no metal parts or liquid structures.
- Main joints have life-like articulation, allowing various positioning for training.

Separates into:

- head
- trunk
- right upper arm
- right forearm with hand
- left upper arm
- left forearm with hand
- right thigh
- right lower leg with foot
- left thigh
- left lower leg with foot

Size: approx. 105 cm, Weight: approx. 20 kg

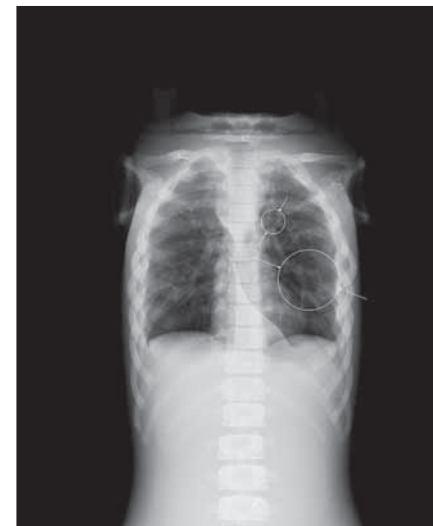
- Ref.no. R16970



2 Pediatric full body phantom

Full body phantom as R16970, but additionally with fractures that are typical for child abuse. All fractures are prepared on the left side and show for example a spiral fracture of the distal tibia or a forearm shaft fracture.

- Ref.no. R16975



2

1 Newborn Whole Body x-ray phantom

Newborn whole body phantom is the world's first full body phantom for neonatal radiography with correct anatomical structure and movable limbs. Neonatal radiography is an important tool in NICU (Neonatal Intensive Care Unit). Patient positioning and immobilization are essential features. This phantom provides opportunities for hands-on training and experiments to minimize radiation exposure to newborn babies.

Features

- Limbs rotate 360 degrees at shoulders and hip joints.
- Left hand is clenched and right hand is open.
- Life size whole body newborn baby.
- Original human tissue substitute.
- No metal parts or liquid structures.
- Meconium aspiration syndrome can be made per custom order.

Anatomy

Skull, spine, ribs, pelvis, scapulae, clavicles, humeri, radius, ulnae, bones of hands, femora, fibulae, tibiae and bones of feet, lungs and mediastinum

Training Skills

Immobilization

- Manual immobilization
- Immobilization with fixtures
- Autopsy imaging

Radiography

- Upright AP (anteroposterior)
- Supine AP
- Upright lateral
- Supine lateral

Specifications

Set Includes: 1 newborn whole body phantom, 1 storage case, 1 set of sample X-ray images, 1 instruction manual

Size: 42 cm (representing a baby of 50 cm height)

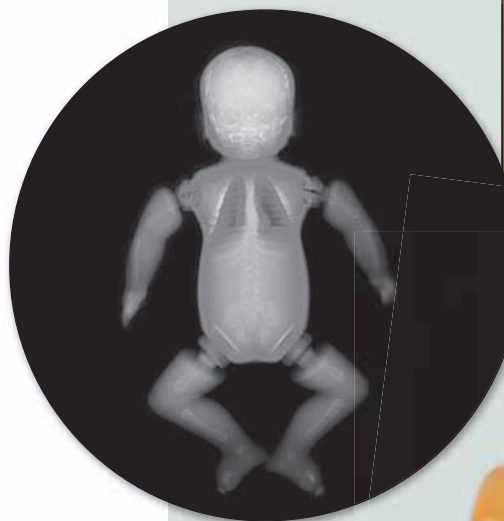
weight: 2.8 kg

- Ref.no. R16980

2 Body plates for adult x-ray phantoms

Body Plates for R16900 or R16950 to simulate a person with a BMI of 30.

- Ref.no. R16900-2



1 Whole body CT phantom

A unique, life size whole body phantom for CT provides a variety of educational application as well as visual evaluation in finding out optimal scanning conditions. The phantom can also be used for plain X-ray, showing life-like images. No metal parts or liquid structure are used. Main joints have close-to human articulation, allowing various positioning for training. The phantom can be disassembled into 10 parts. Improved shoulder joint system enables the phantom to take arm-up position. Organs are anatomically correct and have appropriate HU numbers.

Patient positioning:

- Shoulders: rotate through a full 360 degrees in the sagittal plane, approx. 180 degrees to side-ways.
- Hip joints: rotate forward up to approx. 90 degrees, then abduct up to 45 degrees each.
- Knees: bend up to approx. 90 degrees.
- Elbows: bend up to approx. 90 degrees.
- The phantom can be held in the supine frog leg position.
- The limbs and head are detachable at joints and neck for wider applications.
- The head supporter facilitates various head positions.

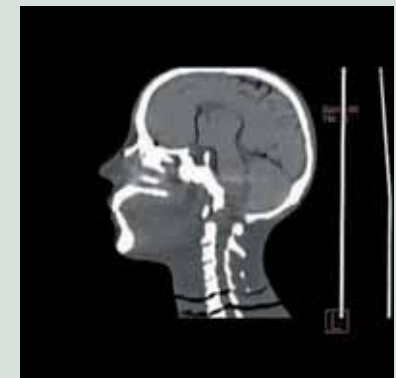
Internal Organs:

- | | | |
|----------------------|---------------------------------------|-------------------|
| ■ Head and Trunk | ■ Coxal bones | ■ Spleen |
| ■ Synthetic skull | ■ Femurs | ■ Aorta |
| ■ Cervical vertebrae | ■ Lungs with pulmonary vessels | ■ Vena Cava |
| ■ Brain | ■ Trachea | ■ Ureter |
| ■ Vertebrae | ■ Liver with portal and hepatic veins | ■ Urinary bladder |
| ■ Clavicles | ■ Pancreas | ■ Prostate |
| ■ Ribs | ■ Kidneys | ■ Rectum |
| ■ Sternum | ■ Gallbladder | ■ Sigmoid Colon |
| ■ Scapula | | |

Phantom materials:

Radiology absorption and Hounsfield number approximate to human body.

- Ref.no. R16950

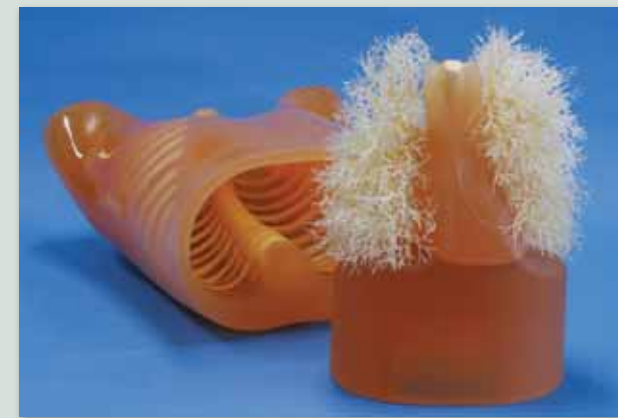




1 Chest phantom for X-ray and CT

This multipurpose training model can be used for training in x-ray and Computer tomography. It is suitable for training of making radiographs as well as for image interpretation training. Additionally it can be used for assessment of x-ray and CT systems. All model structures are made of materials that have x-ray absorption rates close to human tissue. The model can be opened and artificial tumors can be inserted into the lung. 15 different tumors are supplied with the model.

■ Ref.no. R16511



3 CT abdomen phantom

This unique anthropomorphic upper abdomen phantom allows obtaining CT images approximate to clinical data. The elaborate anatomy of organs allows a multi-dimensional approach. Liver, portal vein, bile duct, hepatic vein, hepatic artery, kidneys, pancreas spleen and IVC are embedded along with synthetic bones. Each individual organ has a particular Hounsfield number close to human organ. Embedded anatomical structures are Lungs (no internal structure), Heart (no internal structure), liver, portal vein, bile duct, hepatic vein, hepatic artery, kidneys, pancreas, spleen, IVC, spinal column, ribs. Vessels and organs with a contrast agent can be included as a special order.

■ Ref.no. R16513

2 Chest plates for R16511

For simulation of an over weighted patient

■ Ref.no. R16510-1



1 CT torso phantom

A one-piece anthropomorphic torso phantom with anatomical structures allows various CT approaches including helical scanning. Along with state-of-the-art synthetic bones, brain with cerebral ventricles, eye balls, lungs with three dimensional pulmonary vessels, trachea, liver with portal and hepatic veins, kidneys, gallbladder, pancreas, spleen, aorta, cava, ureter, urinary bladder, prostate, rectum, sigmoid colon are embedded. Each individual organ has particular Hounsfield number which corresponds that of human body. The original phantom material with radiation absorption approximate to human tissue allows scanning under actual clinical setting.

■ Ref.no. R16512



1

2 Pediatric chest phantom

Imaging and dosimetry for radiosensitive 5-year-old. Chest X-ray is one of the most common examinations in pediatric radiography. This Pediatric Chest Phantom is designed to find out optimal parameter and protocols to minimize radiation exposure to children.

The phantom has two kinds of interchangeable lung inserts.

The lung vascular insert can be used to study image quality in relation to CT / X-ray protocols. The lung density insert allows users to evaluate dosage distribution in the lung field.

Features

- Two types of interchangeable lung inserts are available.
 - lung vascular insert and lung density insert.
- Pencil-shaped ion chamber for CTDI can be set in the mediastinum.
- TLD or RPL dosimeters can be set in the thyroid block and the Lung density insert.
- Lung vascular inserts with pulmonary vessels provide life-like radiographs.
- Detachable internal structure allows insertion of variety of pathologies and targets.
- Simulates a life-size chest of 5- year-old.

Anatomy

Rib, clavicle, spine, mediastinum, scapula, sternum and pulmonary vessel (lung vascular insert only)

Applications

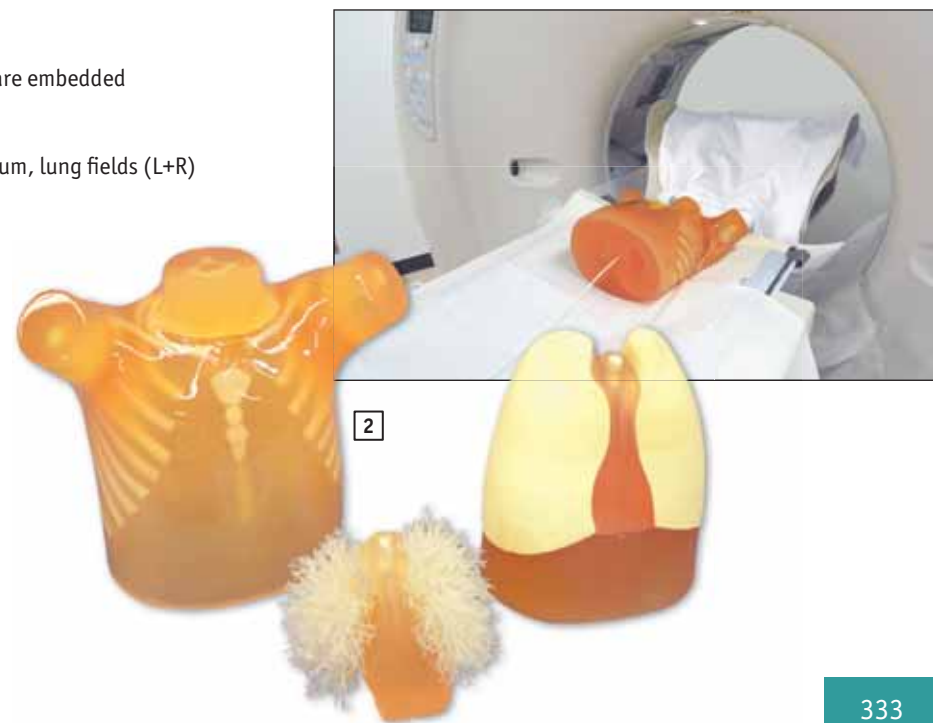
- Pediatric Chest X-ray
- Pediatric Chest CT
- Dosimetry

Set Includes:

- 1 five-year-old chest torso
 - main body: synthetic bones are embedded
 - thyroid block
 - diaphragm block
- 1 lung density insert: mediastinum, lung fields (L+R)
- 1 set of sample images
- 1 instruction manual

Size: 32 x 17 x 38 cm, **weight:** 6 kg

■ Ref.no. R16515



2

1 Head and Neck Phantom for CT, X-ray and Radiation Therapy

Head and neck phantom with realistic anatomy. This highly realistic head and neck phantom was designed to simulate clinical imaging and dose exposure in computed tomography including dual energy CT, X-ray imaging and radiation therapy. The model provides a realistic simulation of all tissues and realistic attenuation values.

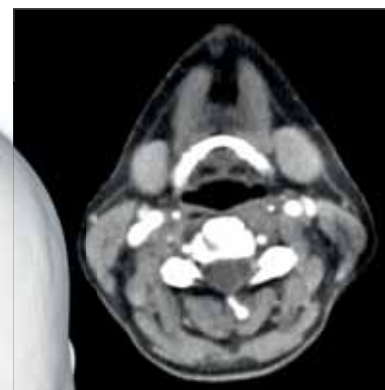
This phantom provides a detailed simulation of patient exposure and provides new opportunities for testing and optimizing image quality and dose, dose verification at low and high energy exposure and for training of medical and technical staff.

The phantom is manufactured based on a real CT data set and includes anatomic details for all tissues. The model is a handmade unique piece, which can differ slightly in size and design. The phantom can be provided as one-piece anthropomorphic phantom or in a sectional design and it can include openings for dosimeters. Pathologic features (e.g., masses, vascular pathologies) can be included upon request into the phantom.

■ Ref.no. R14000



1



NEW!

2 Breast Phantom for Mammography and Breast Tomosynthesis

Breast phantom with adipose and glandular tissue. This breast phantom was designed to simulate breast imaging in mammography and breast tomosynthesis. It represents a compressed breast of 4 cm thickness that can be placed under the compression paddle.

This phantom provides a realistic simulation of breast imaging. It was developed for testing and optimizing dose and image quality and for training of medical and technical staff.

The phantom is manufactured from virtual data* containing adipose and glandular tissue.

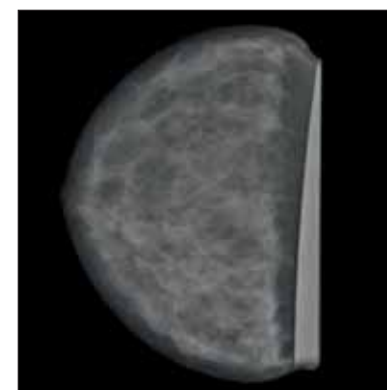
The models are handmade unique piece, which can differ slightly in size and design.

The phantom can be provided as one-piece anthropomorphic phantom or in a sectional design. Dosimeter openings and pathologic features can be included upon request.

■ Ref.no. R14300



2



NEW!

* References Breast Phantom:

1. Graff, C.G., "A new open-source multi-modality digital breast phantom," Proc. SPIE 9783, 978309 (2016).
2. Ikejimba, L.C., Graff, C.G., Rosenthal, S., Badal, A., Ghamraoui, B., Lo, J.Y. and Glick, S.J., "A novel physical anthropomorphic breast phantom for 2D and 3D x-ray imaging," Medical Physics 44(2), 407-416 (2017).



1

NEW!



NEW!

2



◀ Extremity Phantoms for CT, X-ray and Radiation Therapy

Extremity phantoms with realistic anatomy and bone fractures. These extremity phantoms were designed to simulate clinical imaging and dose exposure in computed tomography including dual energy CT, X-ray imaging and radiation therapy. The models provide a realistic simulation of all tissues including bone and soft tissues and realistic attenuation values.

The phantoms were developed for testing and optimizing image quality and dose, dose verification at low and high energy exposure and for training of medical and technical staff.

The phantoms are manufactured from real CT data sets and include anatomic details for all tissues. The models are a handmade unique pieces, which can differ slightly in size and design. The phantoms can be provided as one-piece anthropomorphic phantoms or in a sectional design. Dosimeter openings can be included. Pathologic features (e.g., bone fractures, calcifications, bone or soft tissue masses) can be included upon request.

1 Hand Phantom

■ Ref.No. R14100

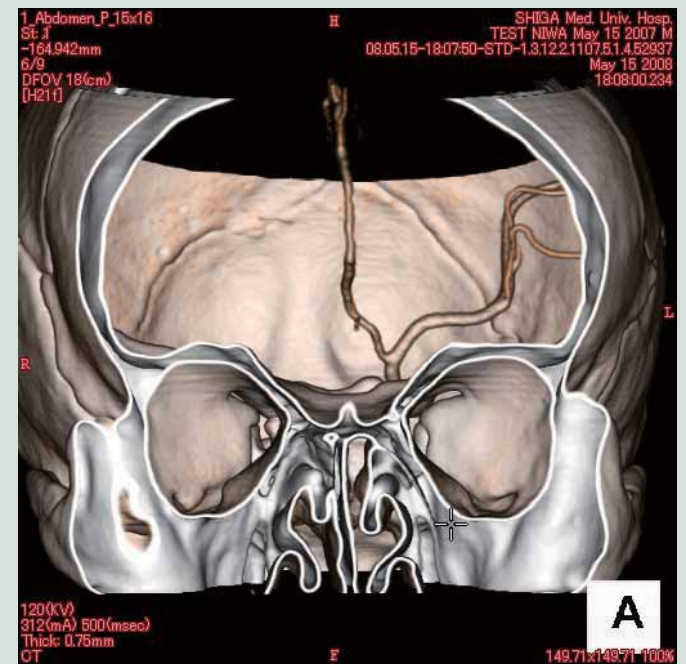
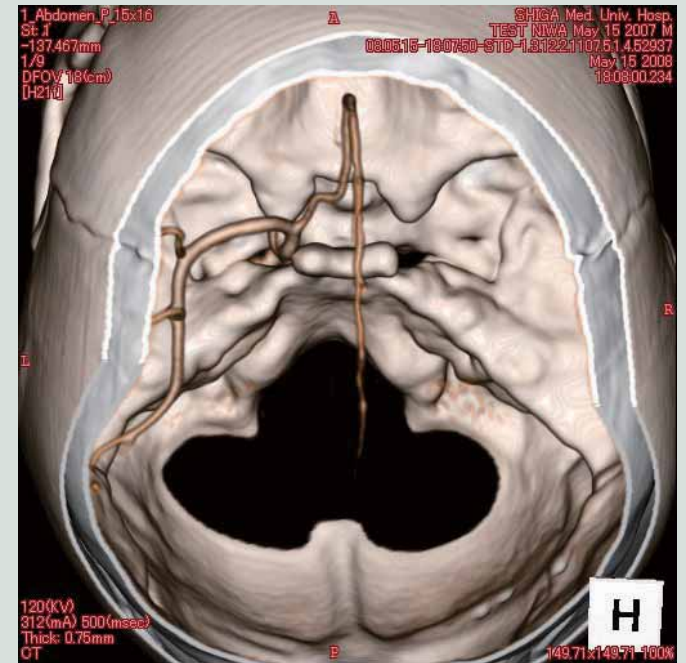
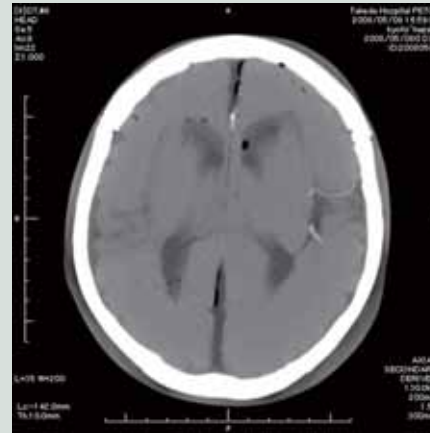
2 Foot Phantom

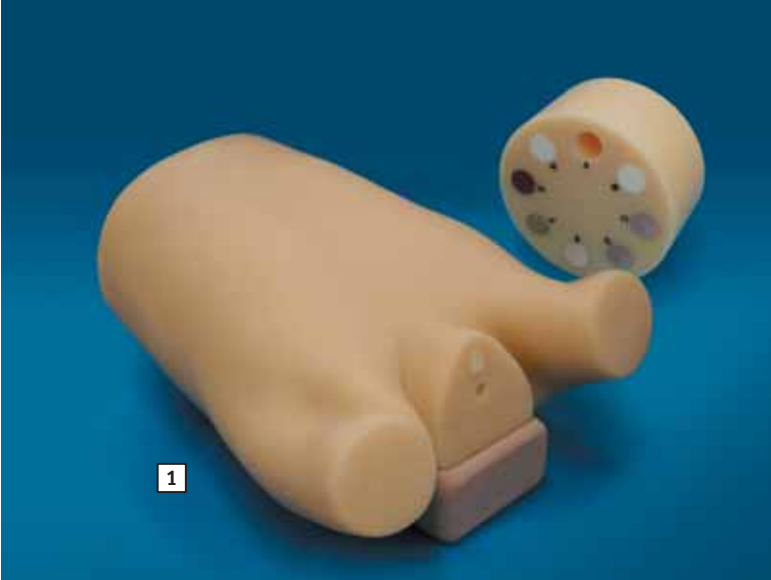
■ Ref.no. R14200

1 Angiographic head model

This model consists of a synthetic human skull which is embedded in a plastic head. In the left half of the skull the anterior and middle cerebral artery are represented and filled with contrast medium. The diameter of the arteries range from 0.5 mm to 4 mm.

■ Ref.no. R16520



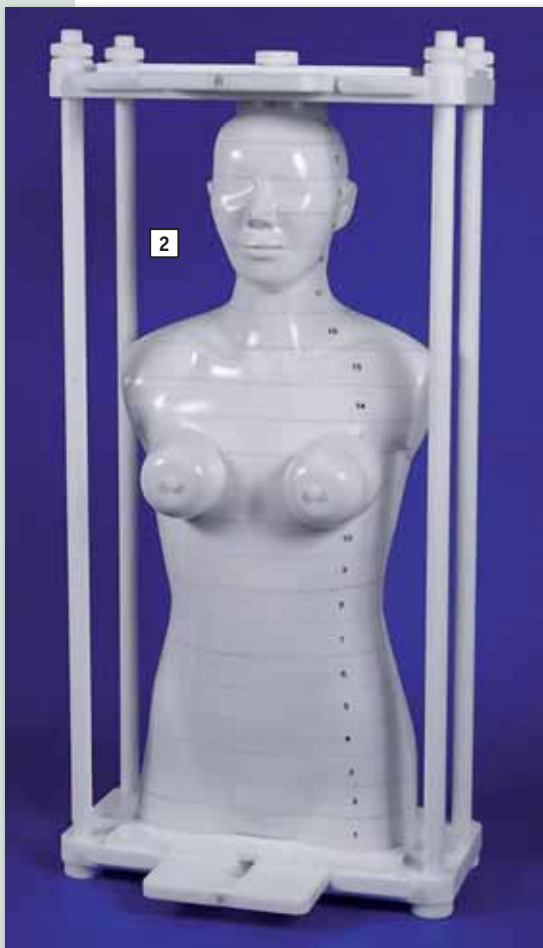


1 Lung cancer screening model

This Phantom is a CT phantom developed to facilitate optimizing the radiation dose and other scanning conditions for lung cancer screening CT examination with Helical CT or MDCT, which is aiming at early detection of lung cancers. As the screening is usually done on healthy people, the necessity of minimizing the exposure while maximizing the image quality is considered to be particularly high. The phantom is designed to set conditions for detection of small early lung cancers such as GGA, which are difficult to be found by plain X-ray. Anthropologic structure of the phantom provides life-like images allowing operators visual evaluation, while quantitative evaluation on radiation dose and density curve of the image can be done stimulatory with a single scanning.

The model consists of a life size torso with arm up position and has the following internal structures:

- Bones
- Simulated tumors on sections of three lung area:
 - Apical portion of the lungs
 - Bifurcation of the trachea
 - Base of lungs
- Dose meter hole (13 mm dia., on the central axis of the phantom)
- 1 8-step linearity phantom
- 8 steps of 30mm dia. density samples are embedded
- **Ref.no. R16532**



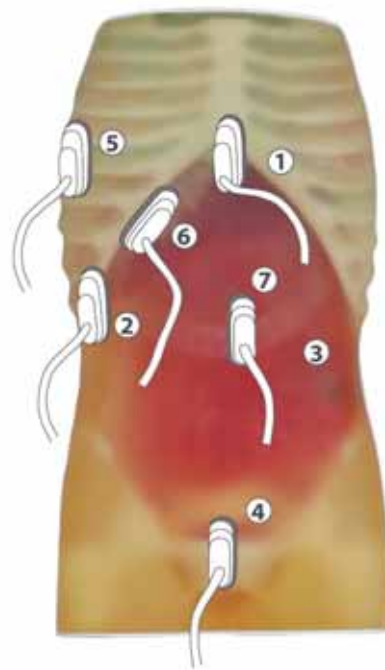
2 Radiation therapy phantom

This phantom is developed for the treatment planning and machine adjustment in the radiation therapy. The body consists of 3 cm slices with a 3 x 3 cm hole matrix for inserting glass dosimeters. The model material has a natural radiopacity allowing the correct adjustment of the machines. This makes it ideal for planning and machine adjustment. The phantom has a holding and fixation frame which allows to position the phantom exactly.

- **Ref.no. R16531**



1



1 FAST ultrasound training model

This phantom has been developed to provide simulated training in FAST (Focused Assessment with Sonography for Trauma); an ultrasound examination directed at identifying the presence of free intraperitoneal or pericardial fluid in the traumatic patients, which allows detecting the possible cause of shocks such as mass hemothorax, intraperitoneal hemorrhage or cardiac tamponade. The phantom offers the following training opportunities:

FAST Procedures:

Internal hemorrhage at perihepatic, perisplenic, pelvis and pericardium area.

Sonography for acute patients:

Internal hemorrhage at pericardial, bilateral chambers as well as intraabdominal hemorrhage around the liver, the spleen and the urinary bladder. Pathologies including cholecystitis, an aortic aneurysm, a lesion on the colon.

The images show the following ultrasound images:

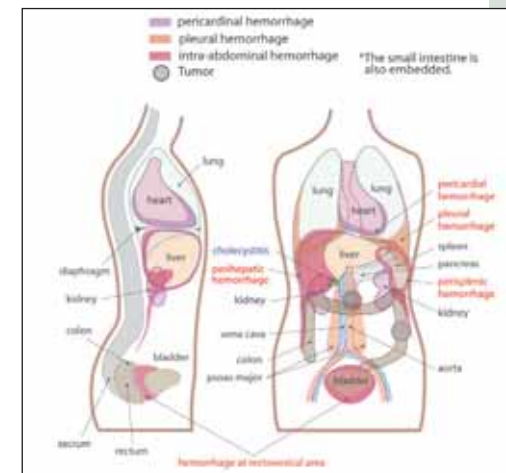
- | | |
|-----------------------------------|------------------------------|
| 1. Cardiac tamponade | 5. Pleural bleeding |
| 2. Right upper abdominal bleeding | 6. Peri-hepatic bleeding |
| 3. Left upper abdominal bleeding | 7. Abdominal aortic aneurysm |
| 4. Pelvic bleeding | |

The model is supplied with carry case and tutorial DVD.

Size: 61 x 30 x 30 cm,

Weight: about 31 kg

■ Ref.no. R16590



1 CT prostate phantom

Resourceful model for therapy planning for prostate cancer.

Anatomy

Organs: prostate, urinal bladder with simulated internal fluid, seminal vesicles and rectum.
Bones: L4, L5, pelvis and femurs (partial).

Specifications

Set Includes: 1 prostate phantom

Size: 35 cm

■ Ref.no. R16592



1



2 Pediatric FAST/acute abdomen phantom

The world's first pediatric ultrasound torso phantom. Pediatric FAST/Acute Abdomen Phantom provides opportunities of hands on training in ultrasound that is a crucial modality for radiosensitive children.

Features

The phantom includes life-size 2-year-old thoracoabdominal organs, a bone structure, free fluid to learn FAST procedures and pathologies that are commonly seen in pediatrics. With this phantom trainees can acquire skills in basics of pediatric abdominal ultrasound.

Pathologies

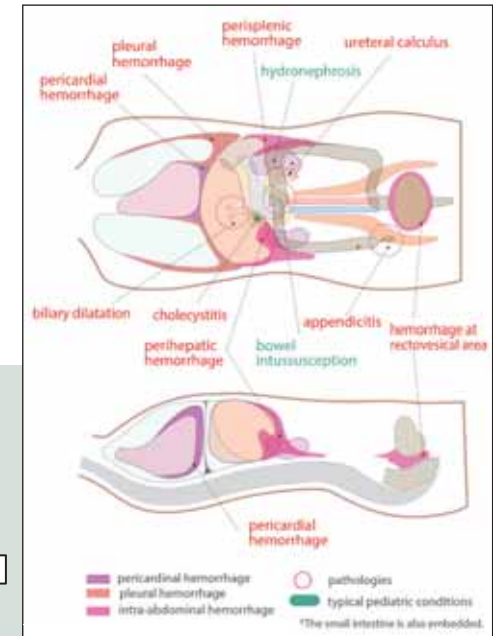
- Internal hemorrhage at perihepatic, perisplenic, pelvis, and pericardium area
- Bowel intussusception, appendicitis and biliary dilatation

Specifications

Set Includes: 1 ultrasound phantom, 1 storage case, 1 tutorial manual (DVD)

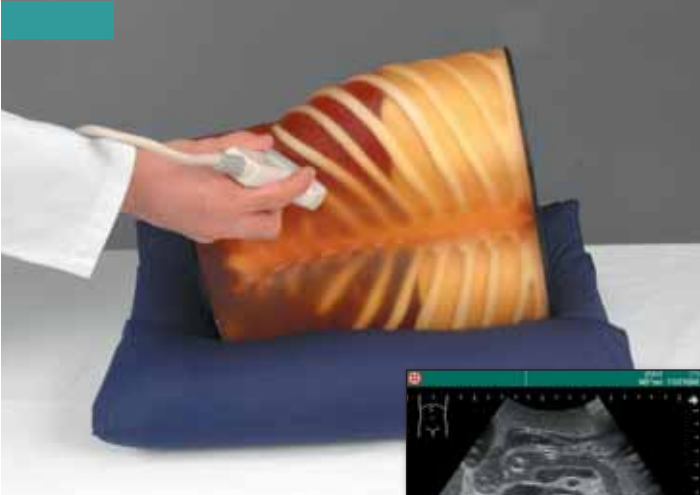
Size: 41 x 15 x 5 cm

■ Ref.no. R16591



2





1



1 Ultrasound training model anatomy/pathology

This high fidelity training model allows practice of ultrasound with existing ultrasound – machines. It includes the anatomy of the abdomen as well as many pathologies. The model includes the liver (Couinaud's segments are visible), biliary tract, pancreas, spleen, kidneys, detailed vascular structures like aorta, vena cava, celiac artery and its branches, portal vein and its branches, superior mesenteric vessels, renal vessels etc. Multiple cysts and tumors in this model give various training opportunities for advanced examination. The phantom can be scanned from all sides like a real patient.

Size: 28 x 25 x 18 cm, weight 12 kg

Ultrasound model

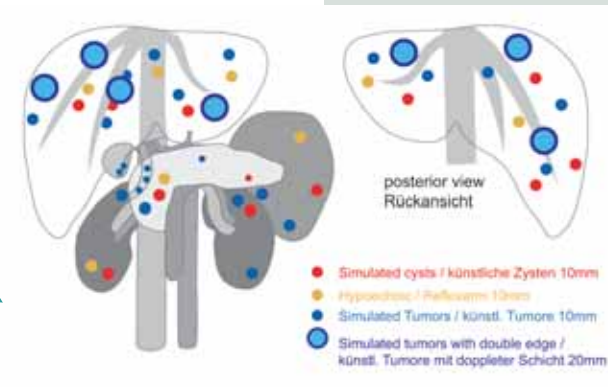
■ Ref.no. R16560

Set ultrasound model and anatomical model

■ Ref.no. R16560-1



1



2 Ultrasound training model anatomy

This model is perfect for the first education in ultrasound examination. It is a great tool for learning how to orientate in the upper abdomen and gives perfect images of all relevant organs and structures. In addition to liver, gallbladder, pancreas, spleen and vessels the lungs and ribs are represented in the model. The location of the organs and the thickness of the surrounding tissue are like in a real patient.

Size: 28 x 25 x 18 cm, weight 12 kg

Ultrasound model

■ Ref.no. R16570

Set ultrasound model and anatomical model

■ Ref.no. R16570-1



2



3



3 Anatomical model for ultrasound education

This 20 part model of the upper abdominal organs represents exactly the anatomy that is inside the training models **R16560** and **R16570**. This allows you to see the structures and organs three dimensional in front of you while you are scanning them in the training model. The single parts are: liver (can be separated into 8 segments), gall bladder, spleen, left kidney, vena cava, spine, large and small intestine, portal vein, bile duct and hepatic artery, pancreas, right kidney, abdominal aorta, hepatic vein and stomach.

Size: 20 x 23 x 16 cm

■ Ref.no. R16580

1 Abdominal intraoperative & laparoscopic ultrasound phantom

Features:

- Inanimate tool for training of a novice to demonstration by an expert.
- Detailed hepatobiliary, pancreatic and other abdominal anatomy meeting requirement for excellent training: open intraoperative scanning of the liver, biliary tract, pancreas; laparoscopic examination of the biliary system for screening of stones and evaluation of hepatic and pancreatic lesions, etc.
- Soft phantom materials allowing realistic probe manipulation.
- Various simulated lesions including biliary stones and cysts, solid tumors (hypoechoic, hyperechoic and target-appearance) in the liver, pancreas, spleen and kidneys.
- Detachable stomach and duodenum allowing various scanning methods of the bile duct and pancreas.
- Container allowing water-immersion scanning for both contact and stand-off techniques, simulating real abdominal intraoperative and laparoscopic scanning (no ultrasound gel required).
- Near real-size organs, structures and abnormal lesions.
- Container with phantom fits in the laparoscopic trainer box so that laparoscopic ultrasound of organs is possible under direct laparoscopic view.
- Durable long-life phantom materials.

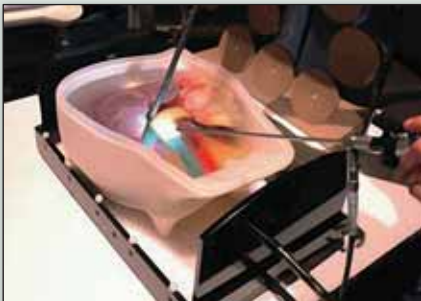
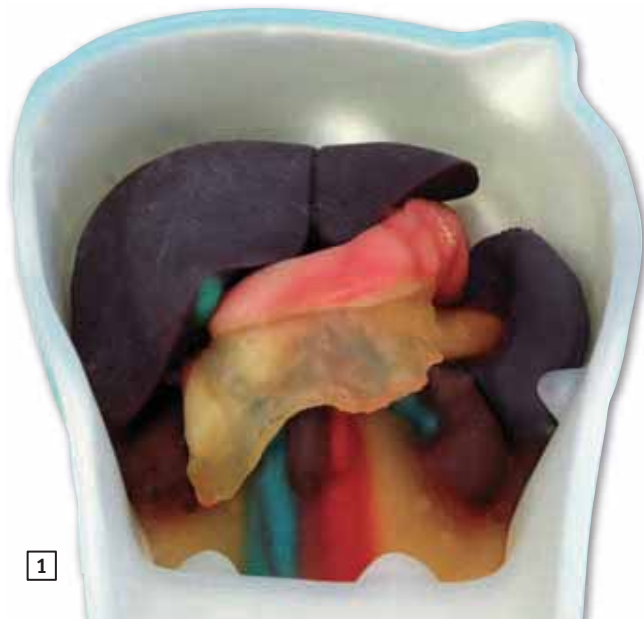
The phantom includes:

the liver (segmental anatomy, portal and hepatic venous systems, ligamentum teres and ligamentum venosum), biliary tract (gallbladder, cystic duct, intrahepatic and extrahepatic bile ducts), pancreas (pancreatic duct), spleen, kidneys, detailed vascular structures (aorta, vena cava, celiac artery and its branches, portal vein and its branches, superior mesenteric vessels, renal vessels, etc.).

Pathology includes:

hepatic lesions (cystic and solid), gallbladder and bile duct stones, pancreatic tumors (one invading the portal vein), splenic lesions, both kidney lesions, and left adrenal tumor.

- Ref.no. R16550





1 Fetus ultrasound examination phantom

The phantom provides high quality training for routine second trimester screening. This phantom contains a 23 week fetus with full anatomy placed in the uterus that can be scanned with 2D and 3D transducers. The oval shape phantom abdomen can be set in four different positions to enrich the training variation. Included life-size fetus model facilitates demonstration and three dimensional understanding.

■ Ref.no. R16595



2 Female pelvic ultrasound phantom

Female pelvic ultrasound examination phantom facilitates teaching and learning how to practice both transvaginal and transabdominal ultrasound procedures using one's own device. Typical female pelvic pathologies are prepared for various training.

Training Skills:

- Female pelvic ultrasound screening both with transvaginal and transabdominal scanning
- Visualization of pathologies
- 3D ultrasound imaging restructuring

Features:

- Realistic pathology for transvaginal ultrasound training as well as transabdominal procedure.
- Excellent ultrasound image quality.
- Anatomically correct and life-like images.
- Universally compatible to any ultrasound machine.
- 2 types of interchangeable phantoms with various pathologies

Includes 2 phantoms:

- Pathological phantom
 - Endometrial cancer, uterine fibroid
 - dermoid cyst of ovary
 - bleeding at douglas cavum
- Ectopic pregnancy phantom
 - Ectopic pregnancy in a fallopian tube

Size: 34 x 33 x 24 cm

■ Ref.no. R16017





1 Ultrasound Neonatal Head Phantom

Head ultrasound is one of the most difficult scanning skills and trainees have few opportunities for training. This head model features an accurate depiction of a newborn's cerebral anatomy, and facilitates a realistic user experience with its life-like soft touch.

Training skills:

Scanning of brain anatomy in Sagittal (Angled Parasagittal), Coronal and transverse planes via any fontanel.

Anatomy:

- Skull
- Anterior fontanel
- Posterior fontanel
- Cerebrum
- Cerebellum
- Brain-stem
- Lateral ventricle
- Ventricle
- Third cerebroventricle
- Fourth ventricle
- Septum pellucidum

Size: 13 x 13 x 17 cm

■ Ref.no. R16800

2 Ultrasound Neonatal Head Phantom with

Hydrocephalus

This head phantom is designed to demonstrate abnormal anatomy, such as Hydrocephalus in which the shape of the skull is altered due to intercranial pressure.

Training skills:

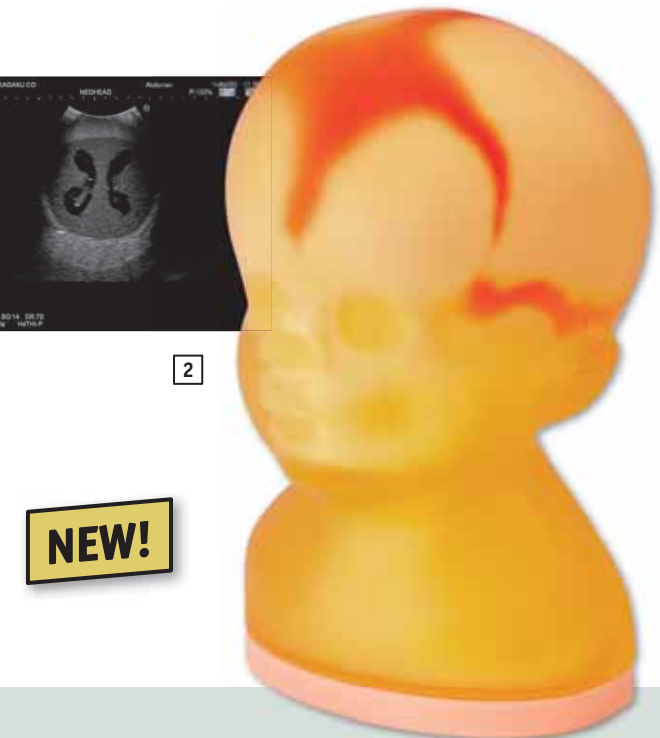
Scanning of brain anatomy in Sagittal (Angled Parasagittal), Coronal und Transverse planes via any fontanel.

Anatomy:

- Skull
- Anterior fontanel
- Posterior fontanel
- Hypertrophied lateral ventricle

Size: 13 x 14 x 20 cm

■ Ref.no. R16810





NEW!

1 Intravesical Urine Volume Measurement Training Simulator

Pocket-sized ultrasound is becoming popular and start to be utilized in adult day care to check intravesical urine volume instead of catheterization which may cause urinary infection.

The following Skills can be trained:

- Handling and manipulation of transducers on bladder ultrasound.
- Scanning the bladder to measure urine volume and findings.

Includes 4 variations of interchangeable inserts feature different patient scenarios:

- 50ml urine
- 150ml urine
- 300ml urine
- Urinary retention/balloon catheter

Size: 30 x 26 x 18cm, Weight: approx. 3.2kg

■ Ref.no. R16820

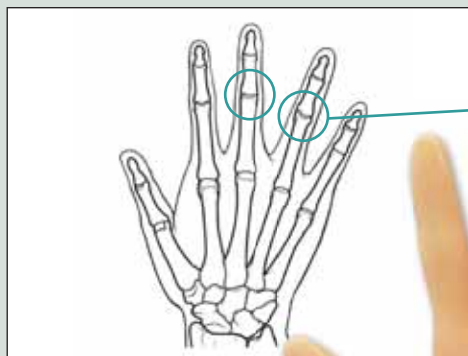
2 Rheumatoid Finger Phantom

Ultrasound examination is a key skill for early diagnosis on rheumatoid arthritis. For skills training in ultrasound examination on rheumatoid arthritis.

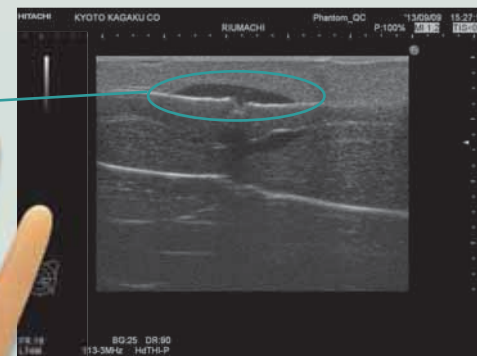
Synovial thickening and increased synovial fluid are simulated on middle and ring finger.

Size: 17 x 5 x 21cm, weight: 0.6 kg

■ Ref.no. R16830

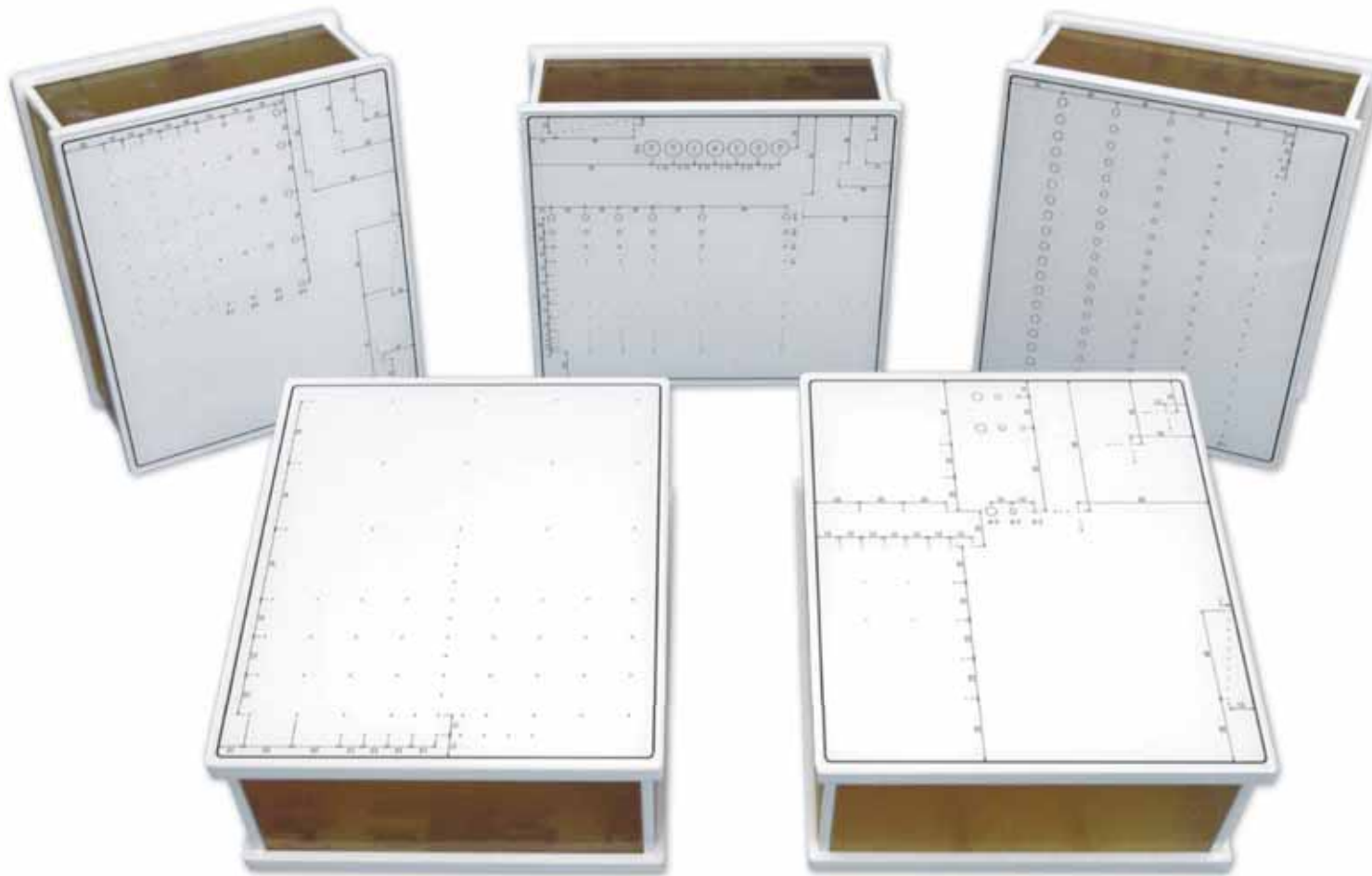


NEW!



Synovial thickening

2



1 Cyst-phantom

is a device for evaluating resolution and penetration, and contains non-echogenic cylindrical targets in five different sizes.

Size: 19 x 22 x 7 cm

■ Ref.no. R16541

2 Basic QA-phantom

is a suitable tool for daily maintenance of ultrasound equipment. It contains 10 line targets and 3 non-echogenic cylindrical targets.

Size: 19 x 22 x 7 cm

■ Ref.no. R16542

3 Multipurpose-phantom

is applicable for both daily assessment and further research. It contains 10 line targets, four non-echogenic cylindrical targets and 7 kinds of gray scale targets.

Size: 19 x 22 x 7 cm

■ Ref.no. R16543

4 Line-phantom

is a phantom containing line targets. Effective tool for manufactures of ultrasonic equipment in the quality control.

Size: 19 x 22 x 7 cm

■ Ref.no. R16544

5 Breast phantom

Specialized phantom for high frequency sonography – around 10 MHz required in breast examination. The phantom includes four kinds of targets, gray scale, cyst, dot and 45° line targets. The Phantom includes two training blocks.

■ Ref.no. R16546

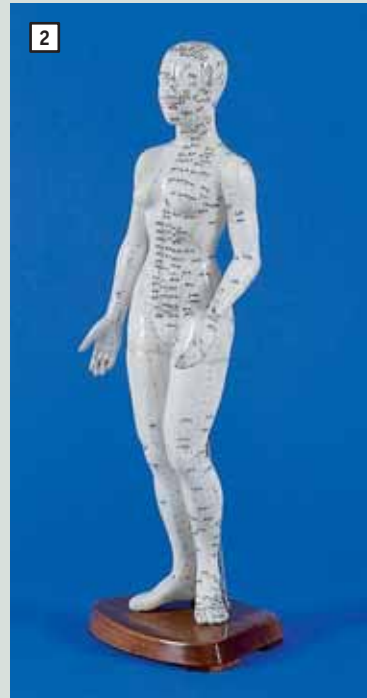


▲ **1 Chinese acupuncture figure, male**

Original Chinese acupuncture figure with marking of the acupuncture points according to traditional Chinese teaching. Suitable for insertion of needles. Including instructions in Chinese and English.

Size: 50 cm

■ Ref.no. 2046



▲ **2 Chinese acupuncture figure, female**

Original Chinese acupuncture figure with marking of the acupuncture points according to traditional Chinese teaching. Suitable for insertion of needles. Including instructions in Chinese and English.

Size: 48 cm

■ Ref.no. 2048



▲ **3 Chinese acupuncture figure, 60 cm**

This male model shows meridians and acupuncture points on one side, on the other side musculature and superficial nerves are represented. On base.

Size: 60 x 19 x 9 cm

Weight: 1.9 kg

■ Ref.no. 2051



▲ **4 Chinese acupuncture figure, 80 cm**

This male model shows meridians and acupuncture points on one side, on the other side musculature and superficial nerves are represented. On base.

Size: 80 x 30 x 12 cm

Weight: 2.6 kg

■ Ref.no. 2050



▲ **5 Chinese acupuncture figure, male**

Original Chinese acupuncture figure with marking of the acupuncture points according to traditional Chinese teaching. Highly economically priced model. Suitable for insertion of needles. Including instructions in Chinese and English.

Size: 26 cm

■ Ref.no. 2044



1

1 Chinese acupuncture set, 5 models

This model set consists of: acupuncture figure, male, height 48 cm, acupuncture head, acupuncture hand, acupuncture foot and an acupuncture ear. With marking of the acupuncture points according to TCM. All parts suitable for insertion of needles. Including instructions in Chinese and English. Particularly economically priced in the set.

■ Ref.no. 2052

2 Chinese acupuncture head

Acupuncture head according to traditional Chinese teaching. Including instructions in Chinese and English.

■ Ref.no. 2070

3 Chinese acupuncture foot

Acupuncture foot according to traditional Chinese teaching. Including instructions in Chinese and English.

■ Ref.no. 2068



4 Acupuncture ear, 22 cm

Enlarged representation of a human ear with marking of the acupuncture points according to traditional Chinese teaching. Suitable for insertion of needles. Including instructions in Chinese and English.

■ Ref.no. 2062



5 Acupuncture ears, natural size, 2-item set

Left and right acupuncture ear without marking of the acupuncture points according to TCM. Suitable for insertion of needles.

■ Ref.no. 2064



6 Acupuncture horse

Acupuncture figure of the horse with representation of the acupuncture points, musculature and internal organs.

Size: 25 cm

■ Ref.no. 2058



7 Acupuncture cow

Acupuncture figure of the cow with representation of the acupuncture points, musculature and internal organs.

Size: 15 cm

■ Ref.no. 2056



8 Acupuncture pig

Acupuncture figure of the pig with representation of the acupuncture points, musculature and internal organs.

Size: 13 cm

■ Ref.no. 2054



9 Acupuncture cat

Acupuncture figure of the cat with representation of the acupuncture points, musculature and internal organs.

Size: 19 cm

■ Ref.no. 2055



10 Acupuncture dog

Acupuncture figure of the dog with representation of the acupuncture points, musculature and internal organs.

Size: 30 cm

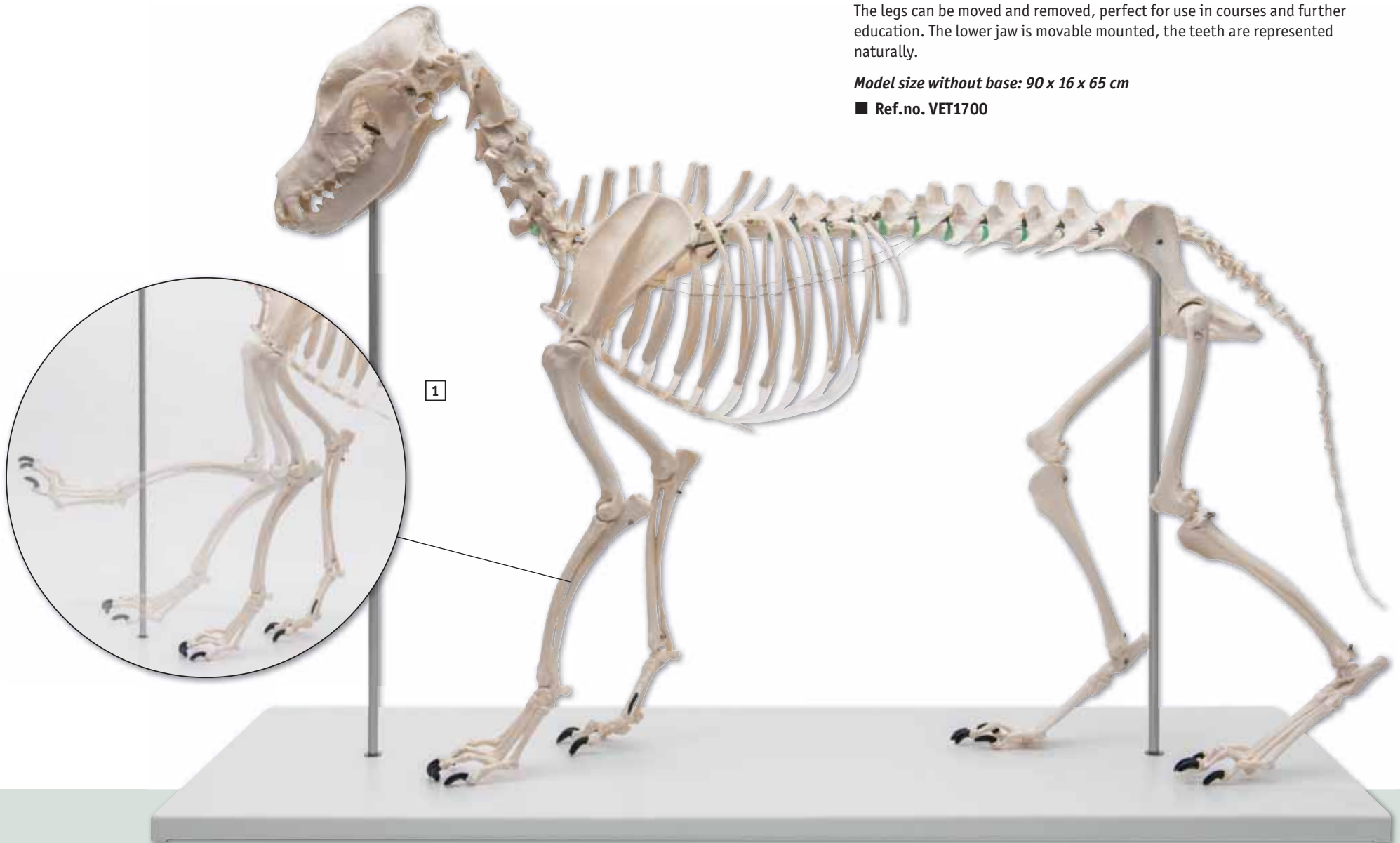
■ Ref.no. 2060

▼ **1 Dog skeleton, life size**

Actual cast of the skeleton of a medium-size crossbreed dog with about 45cm shoulder height. The spine is not moveable, tail and skull are removable. The legs can be moved and removed, perfect for use in courses and further education. The lower jaw is movable mounted, the teeth are represented naturally.

Model size without base: 90 x 16 x 65 cm

■ Ref.no. VET1700



1



1 Canine jaw with healthy and diseased Teeth

The jaw of a middle size dog shows health teeth on the right side and dental diseases on the left side. The following nine dental diseases are depicted in the model:

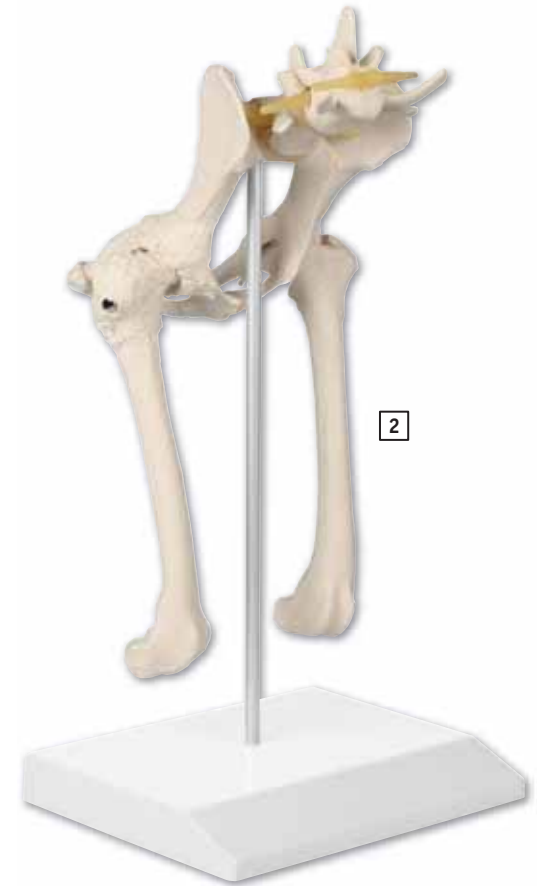
- Incisors, worn
- Canine, fractured
- Deciduous tooth, retained
- Premolar missing
- Gingival recession
- Gingivitis
- Periodontal disease
- Plaque
- Tartar accumulation

The two jaw halves are connected with a joint allowing movements as well as disassembly of the jaw.

Size: 12 x 7.5 x 5.5cm

■ Ref.no. VET1194

2



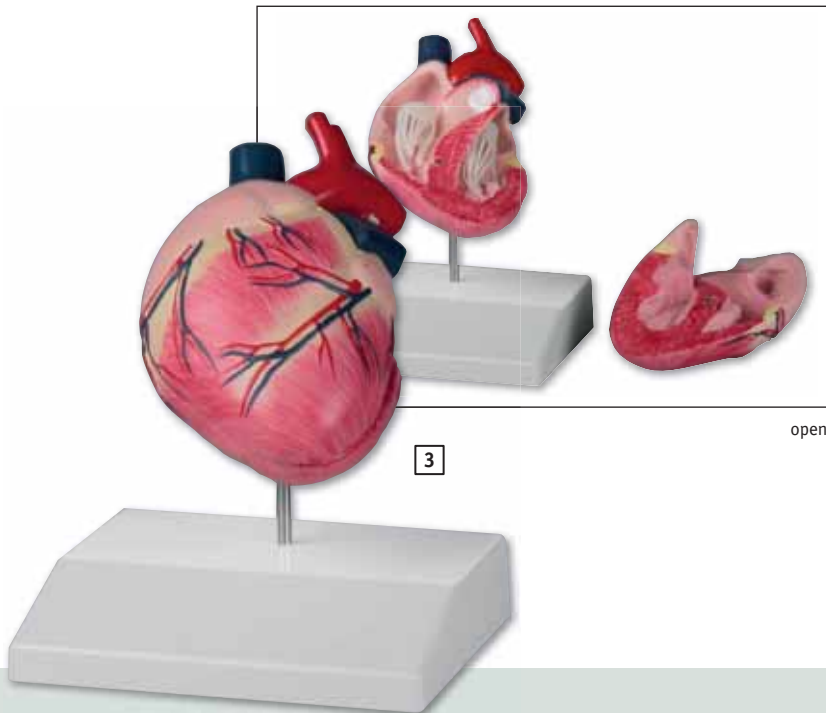
2 Canine hip

Average size dog pelvis features both normal and osteoarthritic bone, body of ilium, greater trochanter, head in acetabulum, herniated disc, neck of femur, nerve, sacrum, and third trochanter.

Size: 18 x 14 x 28 cm

■ Ref.no. VET1060

3



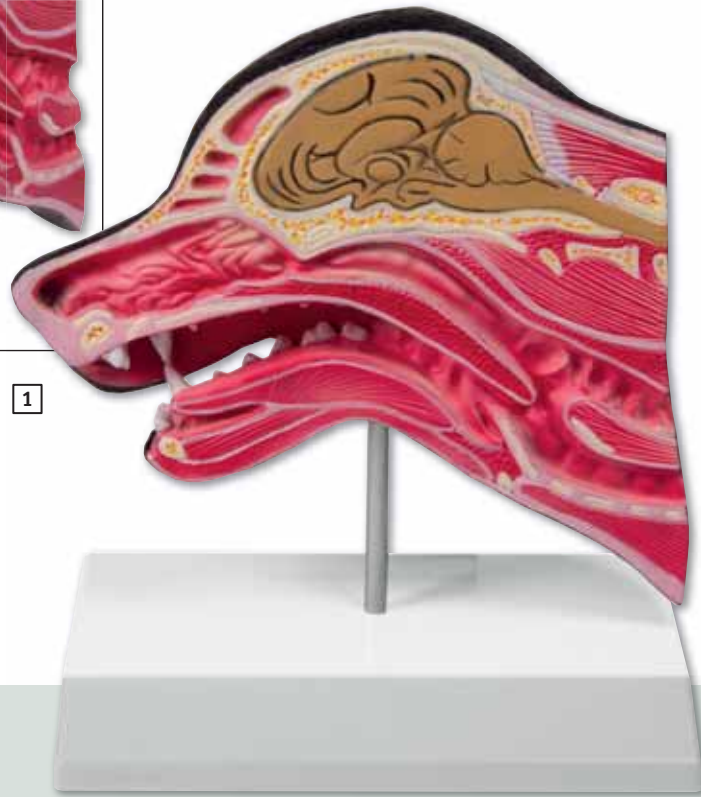
3 Canine heart, life size

This model of the heart of an average size dog can be dissected into two parts. After removing the front heart wall the model shows ventricles, valves and atriums. On stand.

■ Ref.no. VET1250



1



1 Median section of a dog head

This scaled down model of a median sectioned dog head depicts graphically the anatomy of mouth, tongue as well as throat with trachea and esophagus. Also the olfactory organ, the skull with sinuses and a brain section with cerebellum, brainstem and afterbrain are visible. Supplied on stand.

Size without stand: 17 x 15 x 6 cm, Weight: 0.6 kg

■ Ref.no. VET1300



2



2 Canine ear, healthy/diseased

This handy model Has a normal side with cochlea, auditory ossicles, auditory tube, tympanic bulla, middle ear cavity, tympanic membrane, horizontal canal, vertical canal, auricular cartilage, pinna and temporalis muscle; and a diseased side showing inflamed inner ear structures, inflammatory exudate in tympanic bulla, ear canal with partial occlusion from cellular hyperplasia, and an reddened (inflamed) outer ear.

Size: 12 x 8 x 5 cm

■ Ref.no. VET1210

1 CPR dog CasPeR ▶

CasPeR the CPR Dog provides training in mouth-to-snout resuscitation with individual-use, disposable airway bags. These economical disposable shield/lung bags eliminate cross contamination between students and the need to disinfect the manikin after every use. This dog manikin can be used to teach proper hand placement for compressions, depth of compressions, airway maintenance, femoral pulse check, and adequate ventilation. The model has no indication function, the teacher has to judge proper exercise. Airways are changed quickly and without tools.

■ Ref.no. VET2500

Replacement airways, disposable
Pack of 100pcs

■ Ref.no. VET2500B



◀ **2 Advanced CPR dog**

The advanced sanitary CPR dog provides each student with their own sanitary muzzle and nosepiece with a one-way valve. The muzzles may be disinfected and reused, while the nosepieces and lower airways are disposable. In addition to practice in assisted breathing, students may practice the appropriate rate, pressure, and position of cardiac massage; and coordinate the respiratory cardiovascular functions. An IV can even be established for more advanced training. The Advanced CPR Dog is connected to a small box that displays a light when the correct ventilation volume is applied, another light indicates correct position for cardiac massage, a third light indicates correct compression depth, and an audible beep and light indicates excessive pressure is being applied. A visible chest rise appears when correct ventilations are applied. Includes soft carrying case, 10 nosepieces, and three lower disposable airway.

■ Ref.no. VET2550

Replacement nosepieces, 10pcs

■ Ref.no. VET2550A

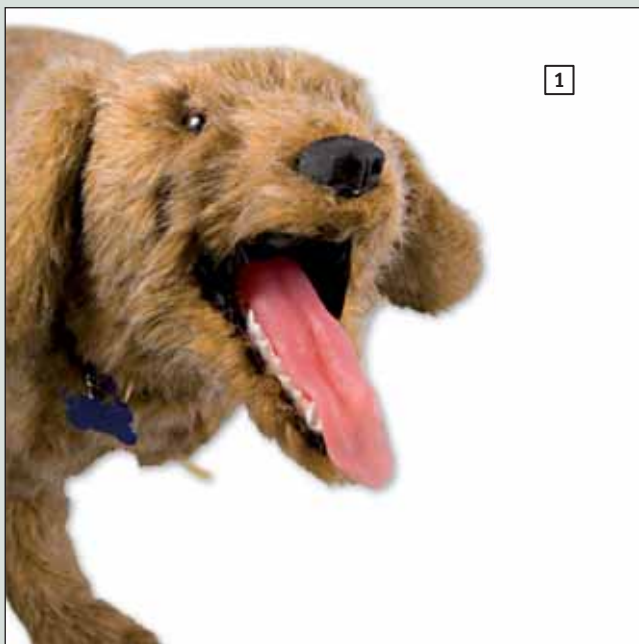
Replacement lungs, 10pcs

■ Ref.no. VET2550C

▼ 1 Jerry K-9 CPR manikin

Jerry is your perfect teaching partner for pet-first-aid. The Jerry manikin has working lungs and an artificial pulse built to teach mouth-to-snout resuscitation. It has disposable lungs for hygienic training. The front leg is movable to allow location of compression site for chest compressions. It can splint, thus allowing students to learn bandaging. Accessories include a carrying case with kneeling pad, brush and 5 disposable lungs. Face shields for group training are sold separately.

■ Ref.no. VET4000



▲ 2 Advanced Airway Jerry manikin

Advanced Airway Jerry is a full-sized manikin built with a lifelike airway. Clearly presented are the trachea, esophagus and epiglottis.

These carefully built organs, coupled with working lungs and an artificial pulse will assist students in endotracheal placement, compressions, and mouth-to-snout resuscitation. It has a disposable lung that can be changed if the manikin is used for mouth-to-snout resuscitation. Advanced Airway Jerry is also designed to splint and bandage. Parts can be cleaned and replaced.

■ Ref.no. VET4010

Spare parts for VET4000, VET4010 and VET4020 :

Replacement lungs, 24pcs pack

■ Ref.no. VET4000A

Replacement lungs, 72pcs pack

■ Ref.no. VET4000B

Manikin face shields, roll of 36pcs

■ Ref.no. VET4000C



1 Goldie - K9 Breath/Heart Sound Simulator

The highlight of this breath/heart sound (BHS) simulator is to allow students to perform auscultation, offering them opportunities to hear the different sounds with a stethoscope.

Instructors can choose various sound scenarios for the classroom. This product uses plug-in modules, with data collated from actual patients. Five speakers are installed directly in our Goldie canine BHS manikin. The BHS unit also has two lights that illuminate during expiration. It is powered by a 9V battery and comes with a limited warranty.

Each Goldie comes with a tutor MS, one Breath Sound module, one Heart Sound module, five installed custom speakers and a 9V battery.

Breath Sound module includes:

Tracheal, Vesicular, Bronchial-Vesicular, Wheezes, Monophonic Wheeze, Pleural Friction Rub, Stridor, Cavernous, Crackles, Pulmonary Edema and Puppy.

Heart Sound module includes:

Atrial Fib, Mitral Regurgitation, Mitral Valve Click, Normal Heartbeat, PDA, Pulmoic Stenosis, Respiratory Crackles and MR Murmurs, SAS, VPC and VSD.

■ Ref.no. VET4040



2 Rufus Bandaging Manikin

Painstakingly constructed, Rufus Bandaging Manikin is an all-rounded tool to the critical care student. This full-sized model is ideal for practical lab skills and practicing advanced bandaging techniques. Apart from administering first aid, the manikin can be used to practice mouth-to-snout resuscitation. The left knee, elbow, carpal and hock joints are capable of 90° movements. Shoulder and hip joints also have the flexibility of 90° rotation.

With the new features, users can now also practice the Velpeau Sling on the right forelimb and the Ehmer Sling on the right hind leg.

In short, these are just some of the bandaging techniques users can practice on Rufus:

- 90-90- flexion sling
- Carpal sling
- Robert Jones bandage
- Velpeau sling
- Ehmer sling
- Limb bandage using stirrups
- Trunk bandage
- Tail bandage
- Padded hip bandage
- Head and Ear bandage
- Casts

Rufus comes with five disposable lungs, a brush, and carrying case with kneeling pad.

■ Ref.no. VET4050



1 Critical Care Jerry

Critical Care Jerry is engineered as a complete emergency room veterinary training manikin.

It has the ability to simulate trauma and features jugular and vascular access. Realistic representations of the trachea, esophagus, and epiglottis are built into the airway. These provide for the training of

- airway management
- ventilation
- endotracheal intubation
- mouth-to-snout resuscitation
- external chest compressions

The manikin comes with working lungs and artificial pulse and features for splinting and bandaging. Included in the carrying case are a kneeling pad, endotracheal tube, syringe, brush, and 5 disposable lungs.

Critical Care Jerry also comes with a bonus item – a full K-9 IV trainer in its own carrying case.

- Ref.no. VET4020



2 Femoral Leg Bone Fracture

An added feature to the Critical Care Jerry manikin can now be included – a long oblique fracture of the right femoral leg bone. This custom Critical Care Jerry will allow students to learn how to set and repair common K-9 fractures. The non-removable fracture can also be added to our "Advanced Airway Jerry", "Jerry", manikins.

Femoral Leg Bone Fracture

- Ref.no. VET4022

Wearable IV Trainers

Patented VetLifeSim IV Trainers are wearable, affordable, durable, and safe. They are available in four sizes (Large animal neck, medium animal neck, medium animal leg and small animal leg).

Features

- Life-like skin (*latex-free) with feel of "pop" through the skin and the second "pop" through the vessel followed by a realistic flashback.
- Velcro straps for flexible fitting and positioning on the forearm.
- Entire base of sleeve covered with protective puncture-proof material.
- Soft, smooth, durable microfiber lining near the skin.
- Different veins available for individual setting.

3 Large animal neck

25,4 x 7,6 cm

- Ref.no. R15100

4 Medium animal neck

15,2 x 7,6 cm

- Ref.no. R15150

AVAILABLE VEINS

5 Flow through

Length 30,5 cm,
Diameter 0,64 cm

- Ref.no. R15100A

6 Puncture vein long

length 25,4 cm,
Diameter 0,64 cm

- Ref.no. R15100B

7 Medium animal leg

10,1 x 3,8 cm

- Ref.no. R15200

8 Small animal leg

5,1 x 3,8 cm

- Ref.no. R15300

AVAILABLE VEINS

9 Puncture vein standard

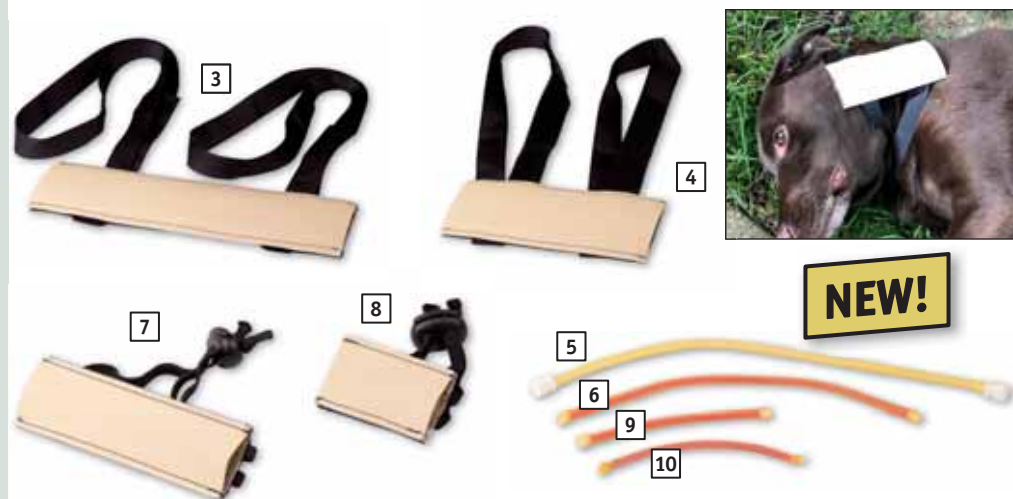
Length 12,7 cm,
Diameter 0,64 cm

- Ref.no. R15200A

10 Puncture vein narrow

Length 12,7 cm,
Diameter 0,48 cm

- Ref.no. R15200B





1 Canine i.v. leg

We are proud to introduce this fully functional canine i.v. leg trainer at an affordable price! The trainer represents the left foreleg of a medium-sized dog in the sternal recumbent position, and features two interchangeable sleeves – normal fur for routine blood draws, and a “shaved” area for i.v. catheter insertion. The replaceable vein system demonstrates actual blood flashback. Great for bandaging and restraint/assistance practice as well. The stable, self-supporting design lets students practice alone or as a team. Perfect for veterinary schools and vet tech programs. Includes a portable storage box with built-in i.v. pole, blood powder, syringe, i.v. catheter, and two fluid supply bags.

■ Ref.no. VET2560

2 K-9 IV Trainer

Specifically built to teach the drawing of blood and performing of injections, our Canine IV Trainer is the perfect pedagogical tool for this purpose.

It is realistically sculpted as the hind limb of a dog. This simple product will help students become accustomed to these tactile procedures.

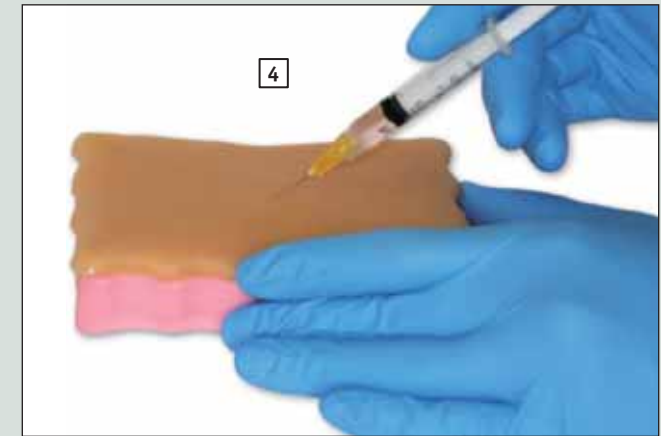
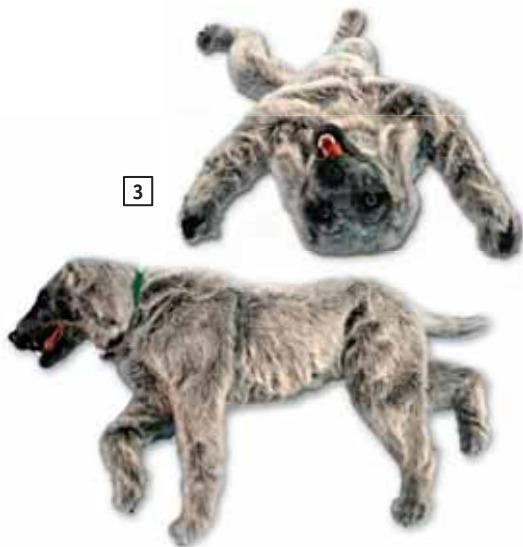
■ Ref.no. VET4060



3 Emily K9 Positioning Manikin

Properly positioning an animal is a skill that makes a better-rounded veterinarian. Emily is built exactly for this purpose. Students learn how to position dogs for abdominal surgery, x-ray, spay and neuter, advanced spinal stabilization, spinal recumbency and more. It has natural movements and offers resistance; allowing you to safely practice techniques before working on live animals. Fully articulated, Emily has shoulders and hip joints that rotate realistically, with 90° flexibility. Also with 90° range of motion are the knees, elbows, and carpal and hock joints. This product comes complete with carrying case, kneeling pad and brush.

■ Ref.no. VET4030



4 IM & SubQ Injection Pad

Even animals have nerve cells to indicate pain or discomfort and having an injection administered by a skilled medical person makes a world of difference to a pet.

Now you can practice and become more apt at injections with the improved SQ/IM Injection Pad. Practical experience may help burnish the clinical motor skills, but alas, it is providing better critical care to the injured animal that is, perhaps the ideal. This trainer features an even more realistic pad simulating canine skin and muscle tissue and comes in its own ABS case.

Dimensions of the SQ/IM injection pad are approximately 7.5 x 12.7 x 3.2cm

■ Ref.no. VET4070



2

2 K-9 Intubation Trainer

Elegantly simple – this model is built for performing proper endotracheal placement. The ET tube either goes correctly into the trachea or wrongly into the esophagus.

Improved representations of the trachea, esophagus and epiglottis are all realistically crafted into this dog bust. It also features an airway with working lungs. Because the head is attached to a table clamp with a pivot base, it can be easily manipulated.

■ Ref.no. VET4080

1 Louie K9 Tracheostomy Model

Often-time, in life-threatening upper airway obstruction, especially during tactical field care, performing tracheostomy is vital to the survival of K9s.

Based on the numerous requests from our military and critical care customers, we are pleased to introduce our Louie Tracheostomy Model. Cricothyrotomy may also be performed on the model. Incisions can be made to the skin layers, the cricothyroid membrane and between the tracheal rings.

Louie comes with three sets of replaceable tracheas and skins and one artificial lung. Incisions and sutures can be made on the skins and trachea.

Additional tracheas and skins may be purchased separately. The model does not come with artificial blood.

■ Ref.no. VET4090



1

3 K-9 Thoracentesis

Our carefully crafted canine Thoracentesis manikin will help practitioners in performing chest tube placements, and simulating emergency trauma by aspirating air and fluid from the thoracic cavity.

Convenient anatomical landmarks are placed at key points for ease of use and quick learning.

■ Ref.No. VET4045



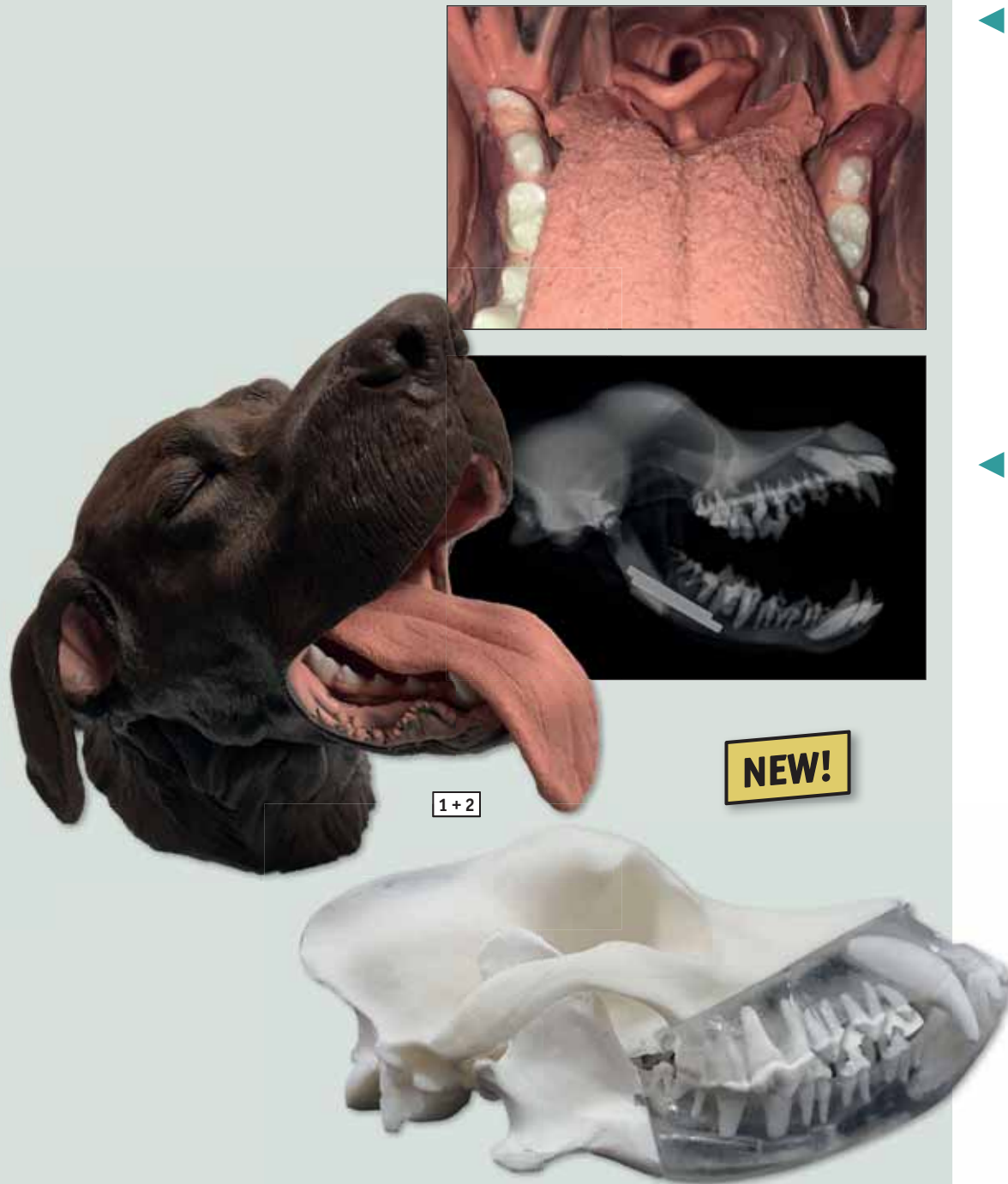
3



1



1



1 Canine Dental / Surgical Model

This anatomically correct simulator allows surgical training possibilities:

- Simulated teeth and bone are surrounded with soft rubber gums, complete with periosteum and periodontal ligament
- Allows for practical simulation including nerve blocks, luxation, elevation and extraction of any tooth, as well as tongue, epiglottis, esophagus and trachea to allow for intubation training
- Maxilla and mandible are easily replaced
- Model comes with one radiodense, extraction jaw set to practice radiography positioning techniques prior to, and after, tooth extraction.
- Clamp and arm for securing model to table is included
- Any tooth can be extracted
- Ref.no. VET4570

2 Canine Dental Technician Model

This very true-to-life simulator was especially developed for dental technology. It has a wide variety on training possibilities.

- Simulated teeth and bone are surrounded with soft rubber gums
- Allows for practical simulation including manual and ultrasonic scaling, probing, nerve blocks, as well as tongue, epiglottis, esophagus, and trachea to allow for intubation training
- Maxilla and mandible are easily replaced
- Model comes with clamp and arm, and two jaw sets:
- One set with calculus accumulation for scaling
- One radiodense jaw set to practice positioning techniques for radiographs
- X-ray set has gums complete with periodontal ligament
- Ref.no. VET4560

1



NEW!



1 Canine Bandaging Forelimb

This forelimb of a medium sized dog is perfect for training of practical bandaging techniques.

- Features separated toes
- Durable silicone with articulated skeleton
- Solid mounting points
- Each paw has a rubber sleeve to allow for taping
- Ref.no. VET4580

2



NEW!



2 Canine Bandaging Hind Limb

This hind limb of a medium sized dog is perfect for training of practical bandaging techniques.

- Features separated toes
- Durable silicone with articulated skeleton
- Solid mounting points
- Each paw has a rubber sleeve to allow for taping
- Ref.no. VET4585

1 Fluffy Feline CPR Manikin

The feline counterpart of Jerry, Fluffy has realistic working lungs and an artificial pulse. Students learn to perform feline compressions and mouth-to-snout resuscitation. It is also designed to splint and allow bandaging. Parts can be cleaned and are disposable.

Accessories include a carrying case and 5 disposable lungs. Face shields are sold separately.

■ Ref.no. VET4100

Available spare parts for VET4100 and VET4110:

Replacement lungs, pack of 24pcs

■ Ref.no. VET4100A

Replacement lungs, pack of 72pcs

■ Ref.no. VET4100B

Manikin face shields, roll of 36pcs

■ Ref.no. VET4000C



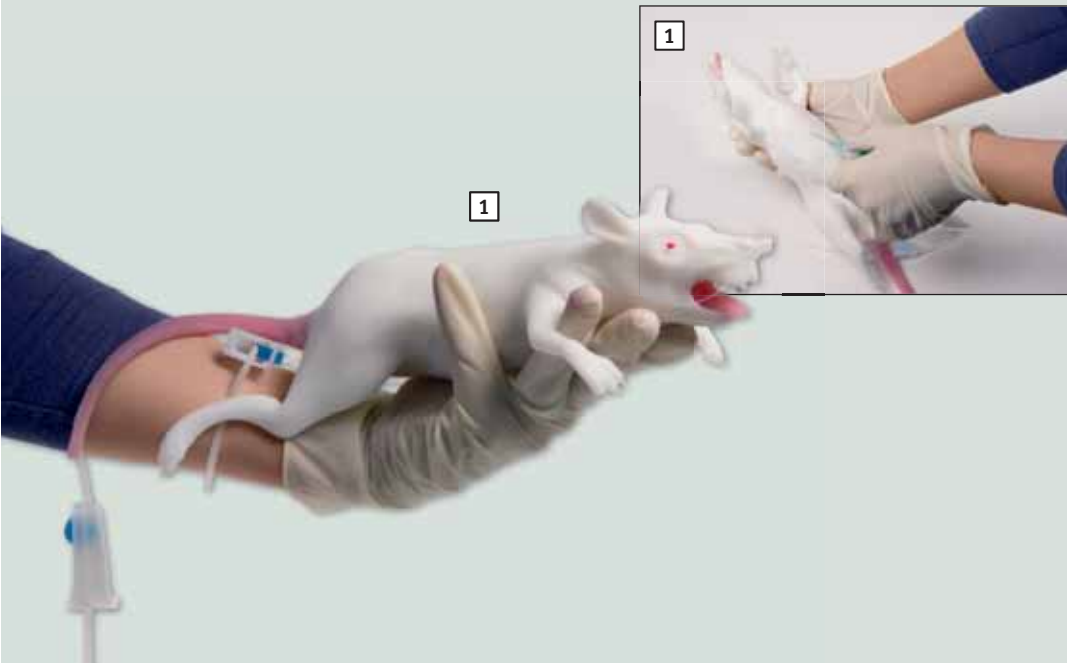
2 Critical Care Fluffy

Like its canine counterpart Critical Care Jerry, Critical Care Fluffy is a full-sized, realistic feline manikin.

It has all the features present in Critical Care Jerry – trachea, esophagus, epiglottis, tongue, articulated jaw and working lungs. Designed for CPR, veterinarians can perform different techniques in resuscitation on the cat. Moreover, one can also practice cat restraint, bandaging, and venipuncture (there are several vein practice sites.) Critical Care Fluffy accessories include a carrying case, artificial training blood, IV reservoir, IV holder, 5 disposable lungs, endotracheal tube and syringe.

■ Ref.no. VET4110





1 MIMOLETTE Lab Rat

MIMOLETTE Lab Rat manikin was created with these key features to end hopefully the practice of using live rats for training:

- Endotracheal intubation,
- Cardiac puncture,
- Blood collection from the saphenous vein

The laboratory rat has been used very widely in experiments. Following our ethos regarding humane science, MIMOLETTE is one of our proudest creations to date.

MIMOLETTE comes complete with her own carrying case, lungs, heart, veins, artificial blood and IV accessories.

■ Ref.no. VET4200

IV Access Tail

An option for a detachable and disposable tail for the capability of IV access at the caudal vein site is available for MIMOLETTE.

■ Ref.no. VET4201

2 Natsume Rat

We hope to contribute to a reduction in the number of experimental animals used, and Natsume Rat is used as an alternative to animal experiments in medical, pharmaceutical, and veterinary education and the education for sophisticated animal experiment techniques.

Skills that can be practiced:

- Retention / Holding
- Oral administration
- Endotracheal intubation
- Tail vein injection
- Blood collection through tail vein

Length of body: 19 cm, length of tail: 18 cm, sex: male, body weight: about 200 g

■ Ref.no. VET4230



1 Squeekums

The Squeekums Rat manikin allows students, lab technicians, and handlers to learn how to confidently handle and safely manage lab rodents.

The tail of this amazing rodent model can be conveniently detached and disposed of, while also having the capability of IV access at the caudal vein site. Tiny replaceable ears help students learn ear tagging procedures. The model is fully articulated and extremely realistic. Head, feet, and limbs move in a natural manner.

Squeekums comes with its own protective case, IV accessories, artificial blood, and instructions.

■ Ref.no. VET4210

Replacement parts:

Replacement Tail

■ Ref.no. VET4210A

Replacement Ears

■ Ref.no. VET4210B



2 Mimicky Mouse

Experimental procedure Simulator

- Handling
- Restraint
- Physical assessment
- Oral administration
- Intravenous administration
- Others

Sizes:

Mimicky Mouse Body: Approx. 7 x 4 x 3 cm, 25 g

Mimicky Tail: Approx. 130 mm (exposed section approx. 110 mm) 3 g

■ Ref.no. VET4220



1 Equine Vascular Access Simulator

Designed by veterinary surgeon educators using innovative technologies, the vascular access simulator is engineered to provide the most anatomically correct and realistic simulated venipuncture training experience available. The vascular access simulator delivers excellence in veterinary training.

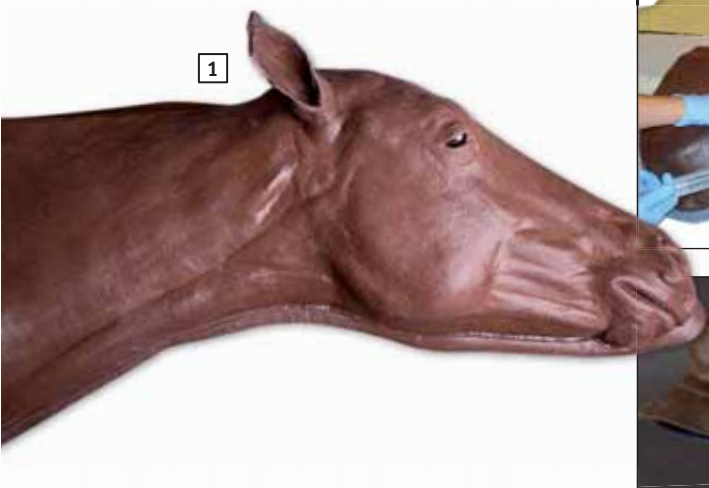
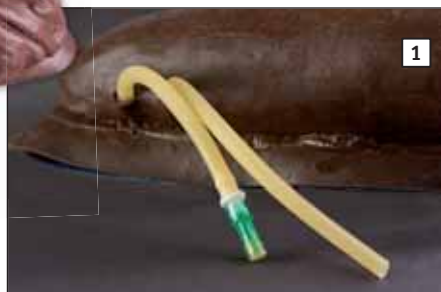
This product, modeled after a 1 year-old quarter horse (brown), is designed to advance a specific set of educational goals for the following venipuncture procedures:

- Blood draw from jugular
- Jugular catheter insertion
- Blood draw from deep facial artery
- Blood draw from transverse facial vein
- Transverse facial artery catheter insertion

Repetitive use of this product will help students develop the skills and confidence necessary for vascular access before their first live animal experience.

Ships with initial supply of artificial blood powder and 1000ml IV bag.

■ Ref.no. VET4300



2 Advanced Equine Simulator

The Advanced Equine Simulator (in black) is the leading and most comprehensive equine simulator available. It has been designed to advance a comprehensive set of educational goals for the following procedures:

- Intramuscular Injections
- Nasolacrimal Duct Flush
- Placement of Subpalpebral Lavage System
- Eye Nerve Blocks – Auriculopalpebral Nerve & Supraorbital Nerve
- Teeth Nerve Blocks - Mental Nerve, Maxillary Nerve & Infraorbital Nerve
- Blood draw from jugular
- Jugular catheter insertion
- Blood draw from deep facial artery
- Blood draw from transverse facial vein
- Transverse facial artery catheter insertion

Repetitive use of this product will help students develop the procedural skills and confidence necessary before their first live animal experience.

Ships with initial supply of artificial blood powder and 1000ml IV bag.

Designed by equine surgeon educators using innovative technologies, The Advanced Equine Simulator is engineered to provide the most anatomically correct and realistic simulated equine training experience available. The Advanced Equine Simulator delivers excellence in veterinary training.

■ Ref.no. VET4310





2 Horse Front Leg with Scapula Articulated on Base

We include the scapula, humerus, forearm (fused radius and ulna), cannon bone and foot. The foot consists of the long pastern bone (or first phalanx), the short pastern bone (or second phalanx) and the coffin bone (or third phalanx). The coffin bone is enclosed by the hoof.

The horse is an unguligrade mammal. Such mammals walk on from four to only one digit (the horse's foot is really a single digit). The equivalent of the wrist or ankle joint is high above the ground. Such adaptations result in the ability to sustain high speeds.

■ Ref.no. VET4370



NEW!

3 Equine Palpation / Radiology Limb

Right Distal Forelimb

- Features a fully articulated skeleton. The bone material is radiodense allowing for visualization using radiography techniques
- Allows movement at the carpus and fetlock joints
- Has a soft silicone skin for palpation

Features include:

- The full superficial and deep flexor tendon unit which can be felt towards its insertion
- Palpation of the suspensory apparatus
- Palpable landmarks of the pastern joint
- Palpable joints including the intercarpal, radiocarpal, fetlock and coffin joints

Includes stand for clamping to a table.

■ Ref.no. VET4550

1 Horse foot, flexible

The foot consists of the long pastern bone (or first phalanx), the short pastern bone (or second phalanx) and the coffin bone (or third phalanx). The coffin bone is normally enclosed by the hoof (not included). Not shown are Ligaments, tendons, cushions and cartilage that contribute to the complicated structure of the horse's foot.

■ Ref.no. VET4360



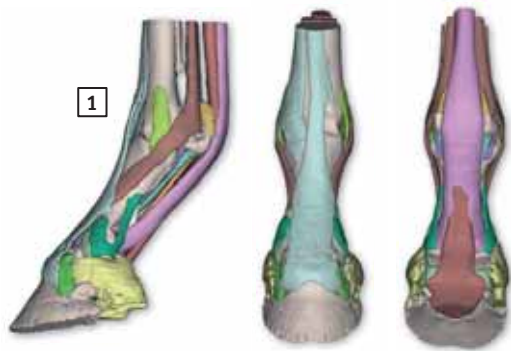
4 Horse Skull

The large and slender horse skull has long, broad, tapering nasals. At the front of the mouth are large incisors, designed for cropping grass. At the back of the mouth are six large, squared molars on either side of the maxilla and the mandible. The area between the incisors and the molars is called the bar. In that space sits a canine tooth (not present in all horses). The eyes sit back far on the head, typical of grazing animals. The braincase is small. The original male specimen of this cast was a large retired police horse. 2-part skull (separate cranium & jaw).

■ Ref.no. VET4350

The foot of a horse as model ▶

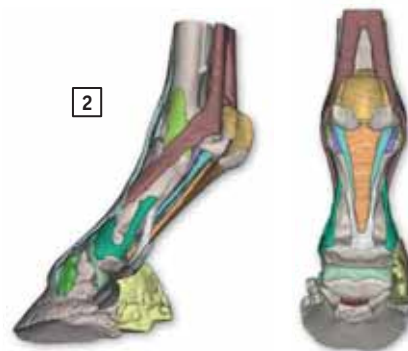
Derived from CT and MR co-registered data, anatomically accurate and lifesize. 3D printed in full color, each anatomical component is individually colored. Hoof capsule is available separately and anchors the distal limb in the stance position. The series consists of four models: starting from Model 1 showing the full anatomy of the foot and comprised of 25 anatomical structures to step-by-step reduced models showing deeper structures.



1 Model 1

Structures: Third metacarpal bone; Proximal sesamoid bones; Proximal phalanx; Middle phalanx; Distal phalanx; Distal sesamoid (navicular) bone; Ungular cartilages; Collateral ligaments of the metacarpophalangeal joint; Collateral ligaments of the proximal interphalangeal joint and the abaxial palmar ligaments of the foot; Collateral ligaments of the distal interphalangeal joint; Collateral ligament of the distal sesamoid (navicular) bone; Distal sesamoidean impar ligament; Proximal scutum and intersesamoidean ligament; Cruciate sesamoidean ligament; Short sesamoidean ligaments; Oblique sesamoidean ligaments; Straight sesamoidean ligament; Axial palmar ligaments of the foot; Suspensory ligament and extensor branches; Deep digital flexor tendon; Superficial digital flexor tendon; Common digital extensor tendon.

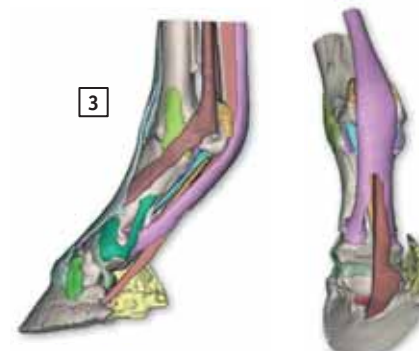
■ Ref.no. VET4400



2 Model 2

As Model 1, however, this model shows the proximal sesamoidean ligaments, impar ligament and the collateral ligaments of the distal sesamoid (navicular) bone.

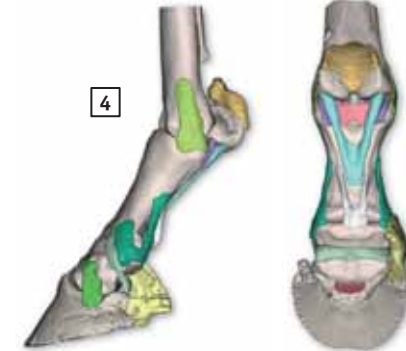
■ Ref.no. VET4410



3 Model 3

Similar to Model 1, but this model, with the deep digital flexor tendon sectioned, shows the tendon's relationship to the distal sesamoid bone and the impar ligament. One ungular cartilage is absent to show the collateral ligaments of the distal sesamoid bone.

■ Ref.no. VET4420



4 Model 4

This model, stripped of tendons and the suspensory ligament, shows the bones of the foot and their deep supporting ligaments.

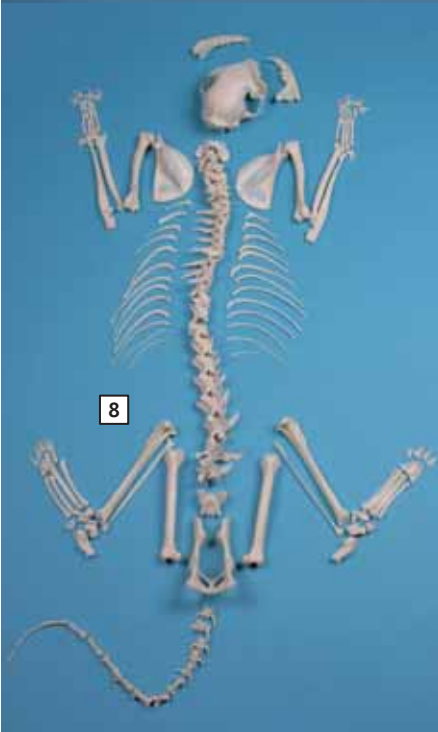
■ Ref.no. VET4430

5 Hoof Capsule ▶

The corresponding hoof capsule is separate and anchors the distal limb in the stance position.

■ Ref.no. VET4400-1





Real animal bones

Our animal bone specimens are made by well-known taxidermists in Germany, following all animal protection and hygienic laws. We do not sell cheap and ethically dubious specimens from Eastern Europe or China

Dog skeleton

- 1 Assembled, small size dog
■ Ref.no. VET3030
- 2 Assembled, middle size dog
■ Ref.no. VET3040
- 3 Assembled, big size dog
■ Ref.no. VET3050
- 4 Unassembled, small size dog
■ Ref.no. VET3000
- 5 Unassembled, middle size dog
■ Ref.no. VET3010
- 6 Unassembled, big size dog
■ Ref.no. VET3020

Cat skeleton

- 7 Assembled
■ Ref.no. VET3060
- 8 Unassembled
■ Ref.no. VET3070
- 9 Dog skull, small size
■ Ref.no. VET3080
- 10 Dog skull, big size size
■ Ref.no. VET3085
- 11 Cat skull
■ Ref.no. VET3090
- 12 Guinea pig skull
■ Ref.no. VET3095

Other natural animal specimens can be supplied on request.



1



9



11



12

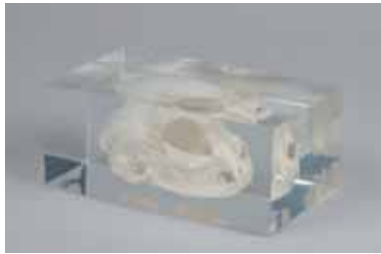
Anatomical charts



1 Dog skull in plastic block

Real dog skull embedded in unbreakable plastic. Embedding the skull makes it hygienic and protected. Perfect as demonstration object.

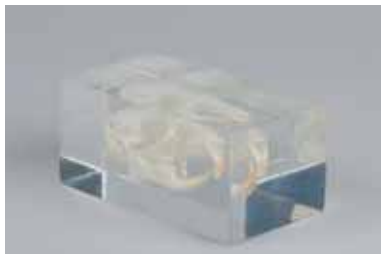
■ Ref.no. VET3081



2 Cat skull in plastic block

Real cat skull embedded in unbreakable plastic. Embedding the skull makes it hygienic and protected. Perfect as demonstration object.

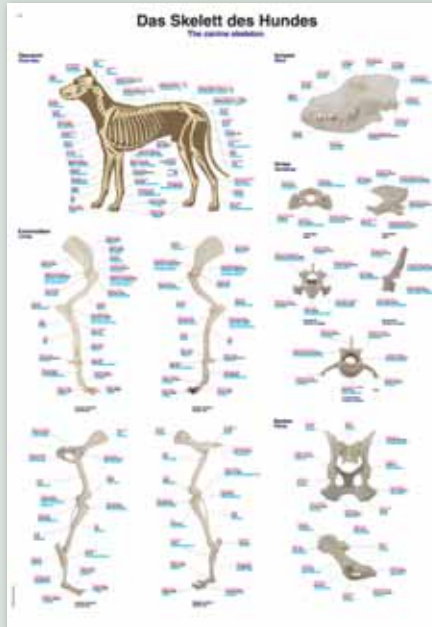
■ Ref.no. VET3091



3 Guinea pig skull in plastic block

Real guinea pig skull embedded in unbreakable plastic. Embedding the skull makes it hygienic and protected. Perfect as demonstration object.

■ Ref.no. VET3096



4 Chart "The canine skeleton"

70 x 100 cm, plastic, with metal edging and hanger. German, Latin, English.

■ Ref.no. VL100

50 x 70 cm, art paper, with rods and hanger. German, Latin, English.

■ Ref.no. VL600

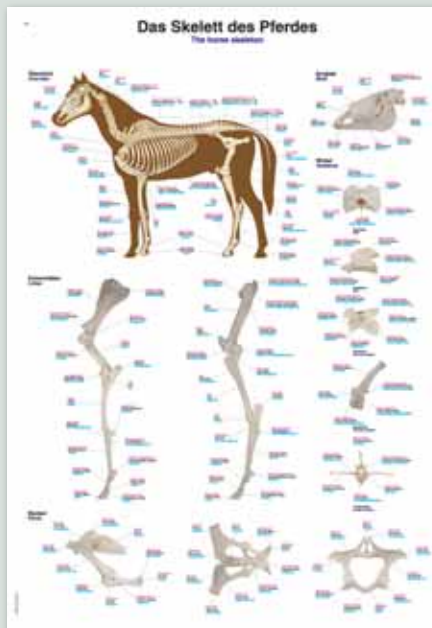
5 Chart "The canine musculature"

70 x 100 cm, plastic, with metal edging and hanger. German, Latin, English.

■ Ref.no. VL110

50 x 70 cm, art paper, with rods and hanger. German, Latin, English.

■ Ref.no. VL610



6 Chart "The horse skeleton"

70 x 100 cm, plastic, with metal edging and hanger. German, Latin, English.

■ Ref.no. VL200

50 x 70 cm, art paper, with rods and hanger. German, Latin, English.

■ Ref.no. VL700

7 Chart "The equine musculature"

70 x 100 cm, plastic, with metal edging and hanger. German, Latin, English.

■ Ref.no. VL210

50 x 70 cm, art paper, with rods and hanger. German, Latin, English.

■ Ref.no. VL710





1 Chart „The human muscles“

70 x 100 cm, plastic, with metal edging and hanger. German, Latin, English

■ Ref.no. AL100

50 x 70 cm, art paper, with rods and hanger. German, Latin, English

■ Ref.no. AL500

Chart „The human muscles“

50 x 70 cm, art paper with rods and hanger. English, Latin

■ Ref.no. AL600

Chart „La musculature humaine“

50 x 70 cm, art paper with rods and hanger. French, Latin

■ Ref.no. AL700

Chart „La musculatura humana“

50 x 70 cm, art paper with rods and hanger. Spanish, Latin

■ Ref.no. AL800



2 Chart „The human skeleton“

70 x 100 cm, plastic, with metal edging and hanger. German, Latin, English

■ Ref.no. AL102

50 x 70 cm, art paper, with rods and hanger. German, Latin, English

■ Ref.no. AL502

Chart „The human skeleton“

50 x 70 cm, art paper with rods and hanger. English, Latin

■ Ref.no. AL602

Chart „Le squelette humain“

50 x 70 cm, art paper with rods and hanger. French, Latin

■ Ref.no. AL702

Chart „El esqueleto humano“

50 x 70 cm, art paper with rods and hanger. Spanish, Latin

■ Ref.no. AL802

1

3 Chart „The human skull“

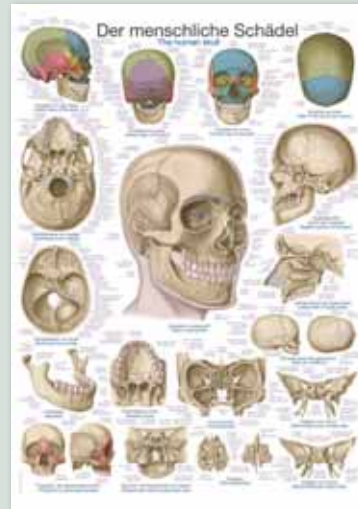
70 x 100 cm, plastic, with metal edging and hanger. German, Latin, English

■ Ref.no. AL103

50 x 70 cm, art paper, with rods and hanger. German, Latin, English

■ Ref.no. AL503

3



2

4 Chart „Osteoporosis“

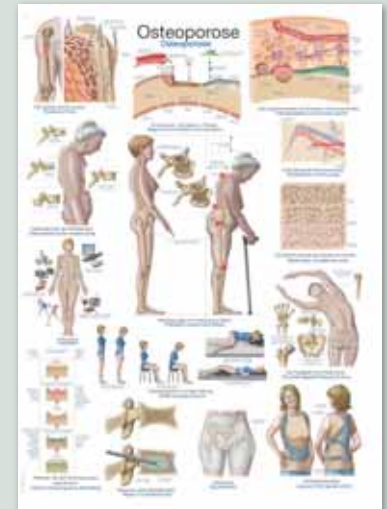
70 x 100 cm, plastic, with metal edging and hanger. German, English

■ Ref.no. AL104

50 x 70 cm, art paper, with rods and hanger. German, English

■ Ref.no. AL504

4



5



5 Chart „The nervous system“

70 x 100 cm, plastic, with metal edging and hanger. German, Latin, English

■ Ref.no. AL105

50 x 70 cm, art paper, with rods and hanger. German, Latin, English

■ Ref.no. AL505

6



6 Chart „The vascular system“

70 x 100 cm, plastic, with metal edging and hanger. German, Latin, English

■ Ref.no. AL106

50 x 70 cm, art paper, with rods and hanger. German, Latin, English

■ Ref.no. AL506

Anatomical charts



1 Chart „The vertebral column“

70 x 100 cm, plastic, with metal edging and hanger. German, English

■ Ref.no. AL107

50 x 70 cm, art paper, with rods and hanger. German, English

■ Ref.no. AL507



2 Chart „Lower Limb“

70 x 100 cm, plastic, with metal edging and hanger. German, Latin, English

■ Ref.no. AL108

50 x 70 cm, art paper, with rods and hanger. German, Latin, English

■ Ref.no. AL508

1

3 Chart „The lymphatic system“

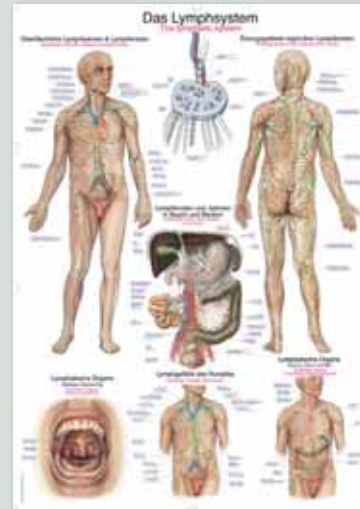
70 x 100 cm, plastic, with metal edging and hanger. German, Latin, English

■ Ref.no. AL109

50 x 70 cm, art paper, with rods and hanger. German, Latin, English

■ Ref.no. AL509

3



2

4 Chart „Body acupuncture“

70 x 100 cm, plastic, with metal edging and hanger. German, English

■ Ref.no. AL110

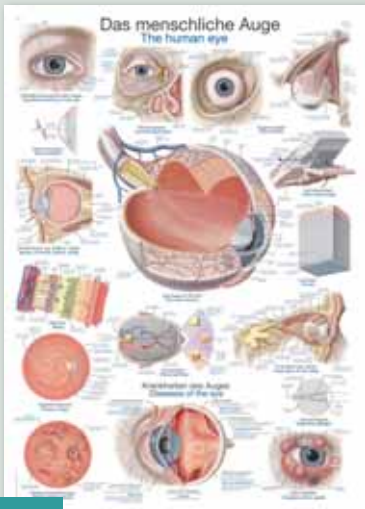
50 x 70 cm, art paper, with rods and hanger. German, English

■ Ref.no. AL510

4



5



5 Chart „The human eye“

70 x 100 cm, plastic, with metal edging and hanger. German, English

■ Ref.no. AL111

50 x 70 cm, art paper, with rods and hanger. German, English

■ Ref.no. AL511

6



6 Chart „The human heart“

70 x 100 cm, plastic, with metal edging and hanger. German, English

■ Ref.no. AL112

50 x 70 cm, art paper, with rods and hanger. German, English

■ Ref.no. AL512



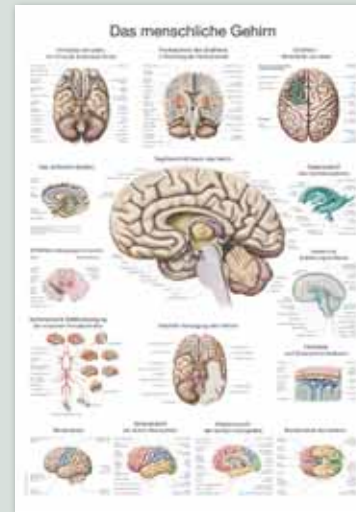
1 Chart „Upper Limb“

70 x 100 cm, plastic, with metal edging and hanger.
German, Latin, English

■ Ref.no. AL113

50 x 70 cm, art paper, with rods and hanger.
German, Latin, English

■ Ref.no. AL513



2 Chart „The human brain“

70 x 100 cm, plastic, with metal edging and hanger.
English

■ Ref.no. AL114E

50 x 70 cm, art paper, with rods and hanger.
English

■ Ref.no. AL514E

1

3 Chart „The respiratory system“

70 x 100 cm, plastic, with metal edging and hanger.
German, Latin, English

■ Ref.no. AL116

50 x 70 cm, art paper, with rods and hanger.
German, Latin, English

■ Ref.no. AL516

3



2

4 Chart „The digestive system“

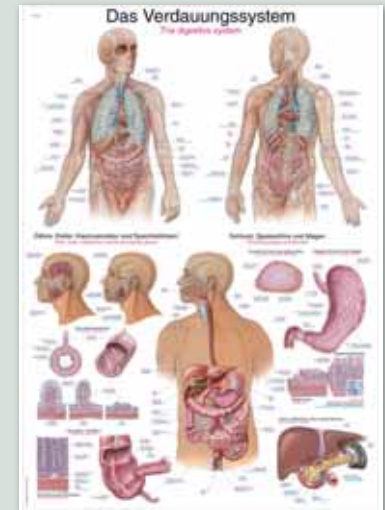
70 x 100 cm, plastic, with metal edging and hanger.
German, Latin, English

■ Ref.no. AL117

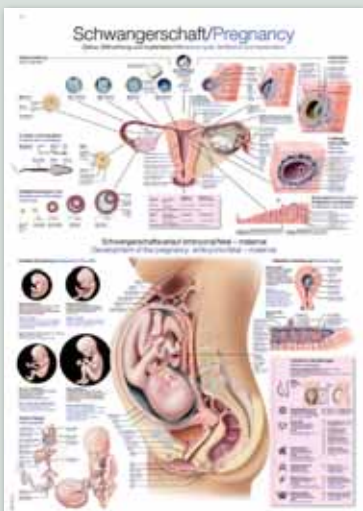
50 x 70 cm, art paper, with rods and hanger.
German, Latin, English

■ Ref.no. AL517

4



5



5 Chart „Pregnancy“

70 x 100 cm, plastic, with metal edging and hanger.
German, English

■ Ref.no. AL118

50 x 70 cm, art paper, with rods and hanger.
German, English

■ Ref.no. AL518

6



6 Chart „Birth“

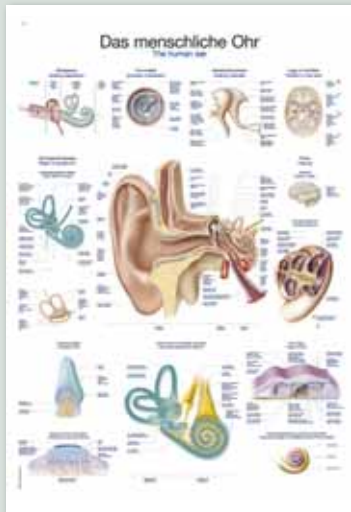
70 x 100 cm, plastic, with metal edging and hanger.
German, English.

■ Ref.no. AL119

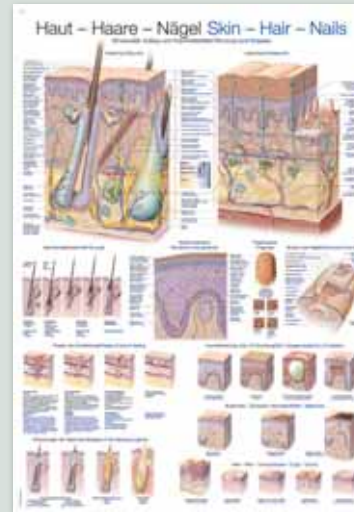
50 x 70 cm, art paper, with rods and hanger.
German, English

■ Ref.no. AL519

Anatomical charts



- 1 Chart „The human ear“
 70 x 100 cm, plastic, with metal edging and hanger.
 German, English.
 ■ Ref.no. AL120
 50 x 70 cm, art paper, with rods and hanger.
 German, English.
 ■ Ref.no. AL520



- 2 Chart „Skin-Hair-Nails“
 70 x 100 cm, plastic, with metal edging and hanger.
 German, English.
 ■ Ref.no. AL121
 50 x 70 cm, art paper, with rods and hanger.
 German, English.
 ■ Ref.no. AL521

1

3 Chart „Male genital organs“

- 70 x 100 cm, plastic, with metal edging and hanger.
 German, English.
 ■ Ref.no. AL123
 50 x 70 cm, art paper, with rods and hanger.
 German, English.
 ■ Ref.no. AL523

3



2

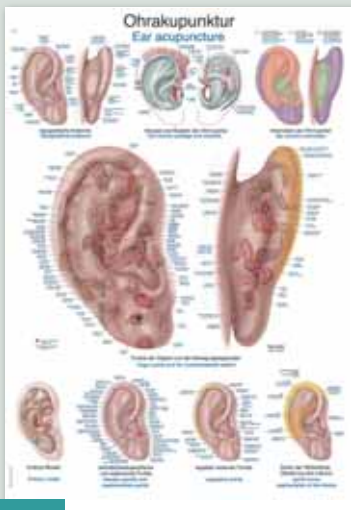
4 Chart „Female Genital Organs“

- 70 x 100 cm, plastic, with metal edging and hanger.
 German, English.
 ■ Ref.no. AL124
 50 x 70 cm, art paper, with rods and hanger.
 German, English.
 ■ Ref.no. AL524

4

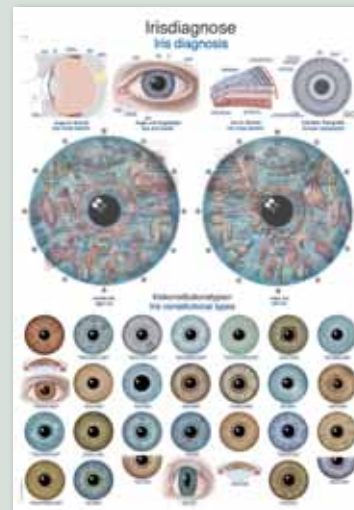


5

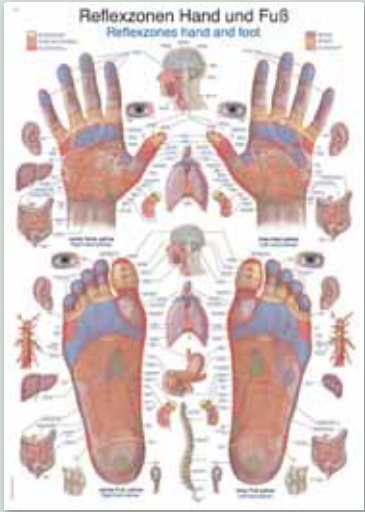


- 5 Chart „Ear acupuncture“
 70 x 100 cm, plastic, with metal edging and hanger.
 German, English.
 ■ Ref.no. AL125
 50 x 70 cm, art paper, with rods and hanger.
 German, English.
 ■ Ref.no. AL525

6



- 6 Chart „Iris diagnosis“
 70 x 100 cm, plastic, with metal edging and hanger.
 German, English.
 ■ Ref.no. AL126
 50 x 70 cm, art paper, with rods and hanger.
 German, English.
 ■ Ref.no. AL526



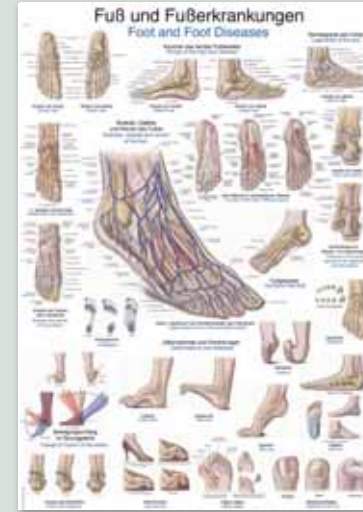
1 Chart „Reflexzones hand and foot“

70 x 100 cm, plastic, with metal edging and hanger. German, English

■ Ref.no. AL127

50 x 70 cm, art paper, with rods and hanger. German, English

■ Ref.no. AL527



2 Chart “Foot and foot diseases“

70 x 100 cm, plastic, with metal edging and hanger. German, English.

■ Ref.no. AL128

50 x 70 cm, art paper, with rods and hanger. German, English.

■ Ref.no. AL528

1

3 Chart „The hand“

70 x 100 cm, plastic, with metal edging and hanger. German, English

■ Ref.no. AL129

50 x 70 cm, art paper, with rods and hanger. German, English

■ Ref.no. AL529

3



2

4 Chart „The female breast“

70 x 100 cm, plastic, with metal edging and hanger. German, English

■ Ref.no. AL134

50 x 70 cm, art paper, with rods and hanger. German, English

■ Ref.no. AL534

4



5



5 Chart „Pelvic floor“

70 x 100 cm, plastic, with metal edging and hanger. German, English

■ Ref.no. AL138

50 x 70 cm, art paper, with rods and hanger. German, English

■ Ref.no. AL538

6



6 Chart „Shoulder and Elbow“

70 x 100 cm, plastic, with metal edging and hanger. German, English

■ Ref.no. AL139

50 x 70 cm, Art Paper, with rods and hanger. German, English

■ Ref.no. AL539

Anatomical charts



1

1 Chart "The Knee Joint"

70 x 100 cm, plastic, with metal edging and hanger.
German, English

■ Ref.no. AL147

50 x 70 cm, Art Paper, with rods and hanger. German,
English

■ Ref.no. AL547

2 Chart „Das Knie/Die Hüfte“

70 x 100 cm, plastic, with metal edging and hanger.
German only!

■ Ref.no. AL151

50 x 70 cm, Art Paper, with rods and hanger.
German only!

■ Ref.no. AL551



2

3



3 Chart „Foot and Ankle“

70 x 100 cm, plastic, with metal edging and
hanger. German, English

■ Ref.no. AL155

50 x 70 cm, Art Paper, with rods and hanger.
German, English

■ Ref.no. AL555

4



4 Chart „Dermatomes“

70 x 100 cm, plastic, with metal edging and hanger.
German, Latin, English

■ Ref.no. AL161

50 x 70 cm, Art Paper, with rods and hanger.
German, Latin, English

■ Ref.no. AL561

5 Chart „Dental anatomy“

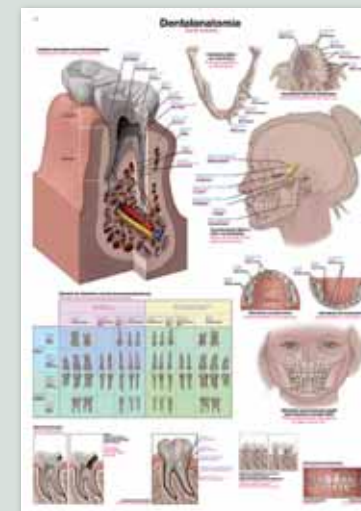
70 x 100 cm, plastic, with metal edging and hanger.
German, Latin, English

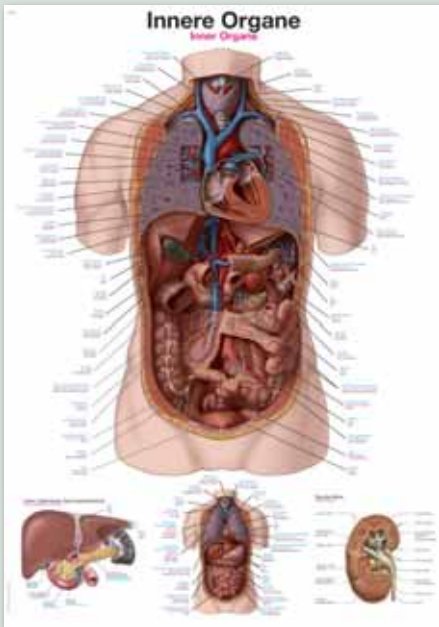
■ Ref.no. AL162

50 x 70 cm, Art Paper, with rods and hanger.
German, Latin, English

■ Ref.no. AL562

5





1

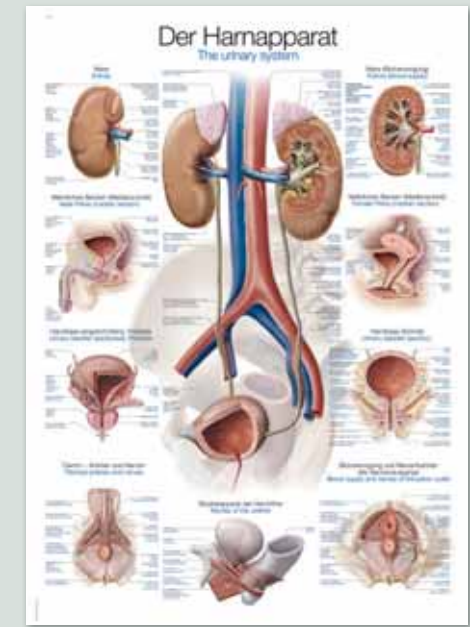
1 Chart „Internal organs“

70 x 100 cm, plastic, with metal edging and hanger. German, Latin, English

■ Ref.no. AL163

50 x 70 cm, Art Paper, with rods and hanger. German, Latin, English

■ Ref.no. AL563



2

2 Chart „Urinary System“

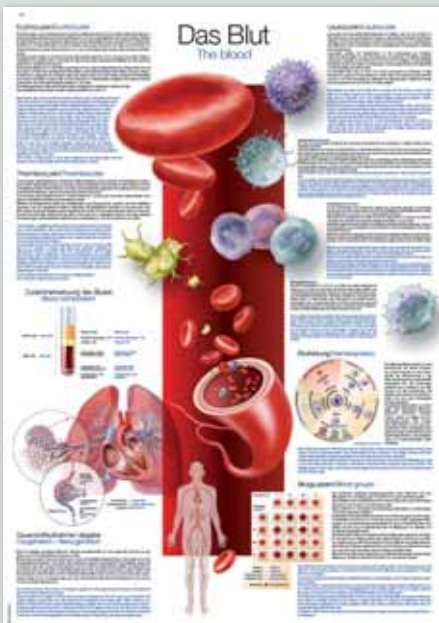
70 x 100 cm, plastic, with metal edging and hanger. German, English.

■ Ref.no. AL164

50 x 70 cm, art paper, with rods and hanger. German, English.

■ Ref.no. AL564

3



3 Chart „The Blood“

70 x 100 cm, plastic, with metal edging and hanger. German, English.

■ Ref.no. AL165

50 x 70 cm, art paper, with rods and hanger. German, English.

■ Ref.no. AL565

4



4 Chart „Trigger points“

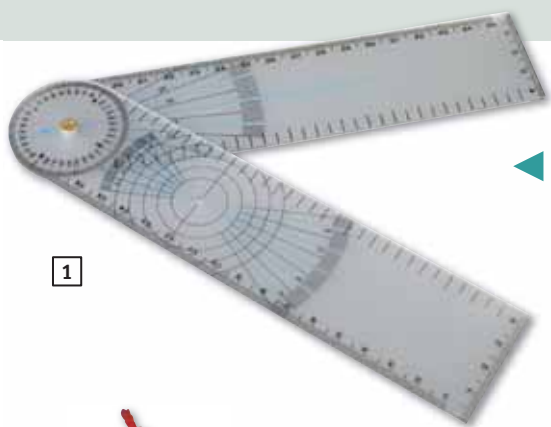
70 x 100 cm, plastic, with metal edging and hanger. German, Latin, English

■ Ref.no. AL160

50 x 70 cm, Art Paper, with rods and hanger.

German, Latin, English

■ Ref.no. AL560



1

1 Goniometer

Plastic

■ Ref.no. WM15

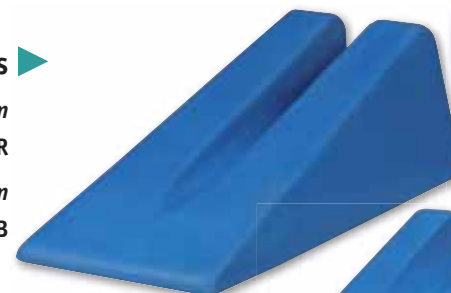
2 Mobilisation wedges

Size: 155x95x50 mm

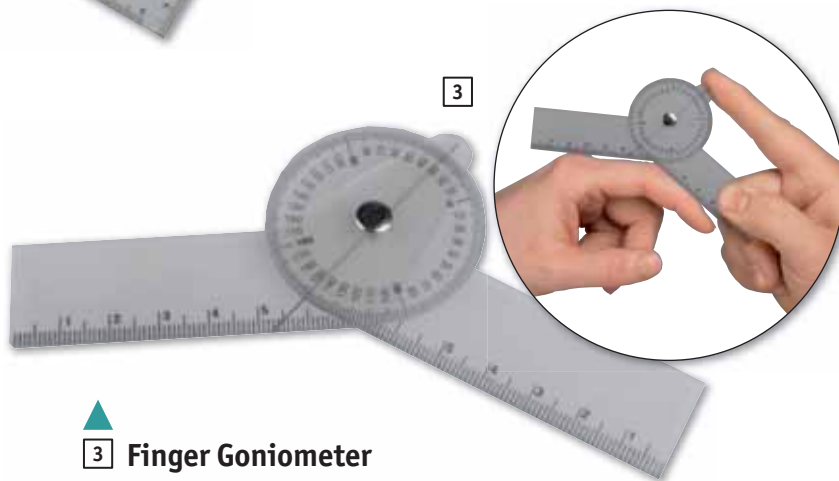
■ Ref.no. MOBI1R

Size: 220 x 105 x 80 mm

■ Ref.no. MOBI2B



2

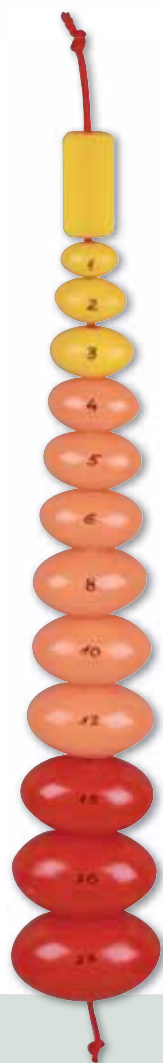


3

3 Finger Goniometer

Plastic

■ Ref.no. WM25



4

4 Orchidometer, plastic

Orchidometer for diagnosis of testicle volume. Consists of prepubertal testicles (1 to 3ml) in yellow, pubertal testicles (4 to 12ml) in orange and adult testicles (15 to 25ml) in red. Strong plastic material, hygienic, on rope.

■ Ref.no. OM20



5

5 Traction belt

With metal buckle

Length: 220 cm, Width: 5 cm

■ Ref.no. TRAK1

Length: 270 cm, Width: 5 cm

■ Ref.no. TRAK2

3D Anatomy Series

The ground-breaking Monash Anatomy Series represents a unique and unrivalled collection of colour-augmented human anatomy body replicas designed specifically for enhanced teaching and learning. This premium collection of highly accurate normal human anatomy has been generated directly from either radiographic data or actual cadaveric specimens using advanced imaging techniques. The Monash 3D Human Anatomy Series provides a cost effective means to meet your specific educational and demonstration needs in a range of curricula from medicine, allied health sciences and biological sciences. A detailed description of the anatomy displayed in each 3Dprinted body replica is provided.

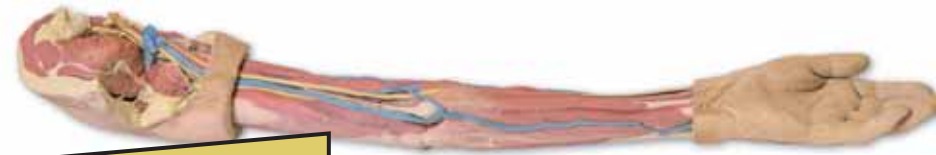
What advantages does The Monash 3D Anatomy Series offer over either plastic models or plastinated human specimens?

Each body replica has been carefully created from selected radiographic patient data or high quality real human prosected cadaver specimens selected by a highly qualified team of anatomists at the Centre for Human Anatomy Education; Monash University to illustrate a range of clinically important areas of anatomy with a quality and fidelity that is not possible in conventional models – this is real anatomy and not stylised.

Each body replica has been rigorously checked by a team of highly qualified anatomists at The Centre for Human Anatomy Education, Monash University, to ensure the anatomical accuracy of the final product. The body replicas are not real human tissue and therefore not subject to any barriers of transportation, importation or use in educational facilities that do not possess an anatomy license. The Monash 3D Anatomy Series avoids these and other ethical issues that are raised when dealing with plastinated human remains.



Real specimen



3D printed specimen



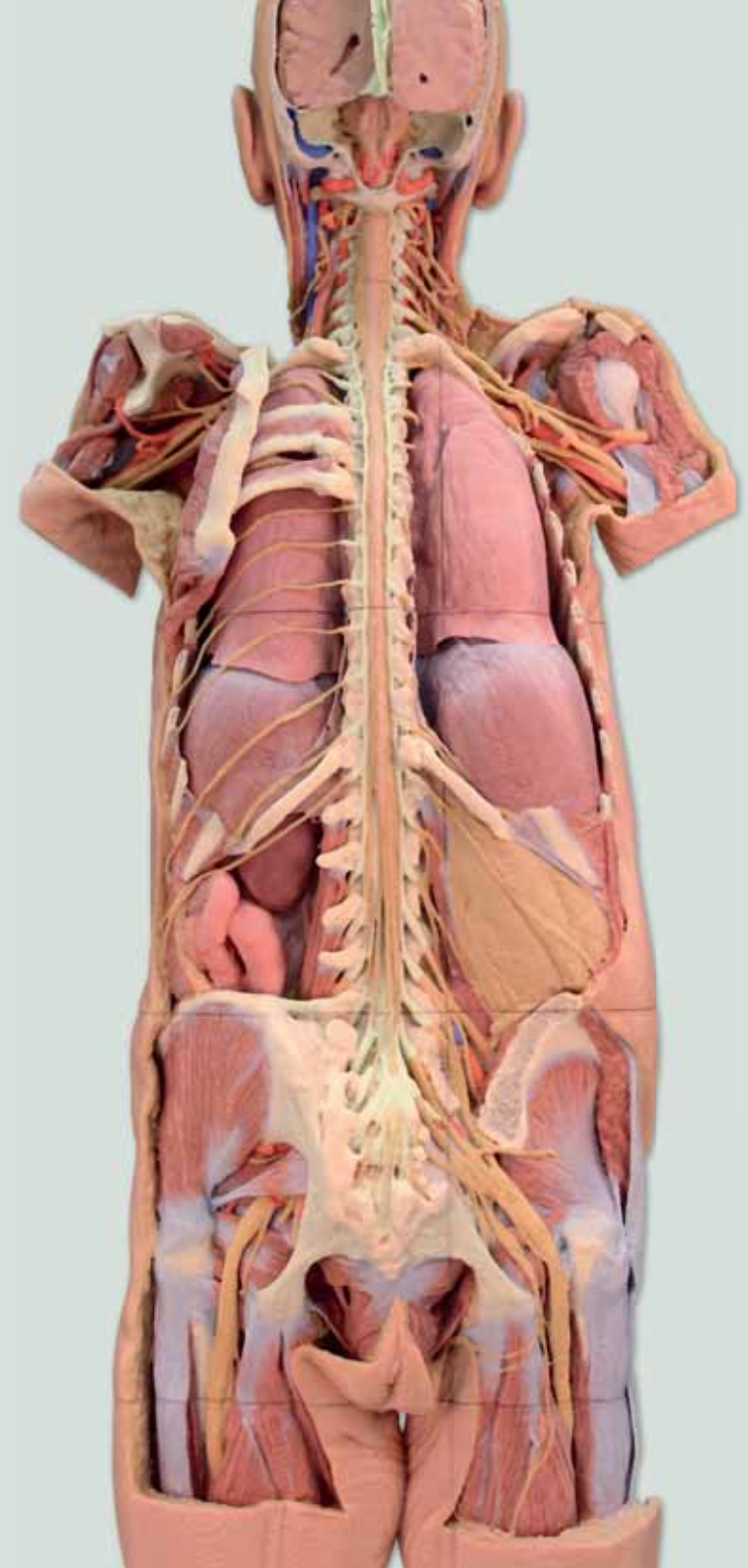
Real specimen

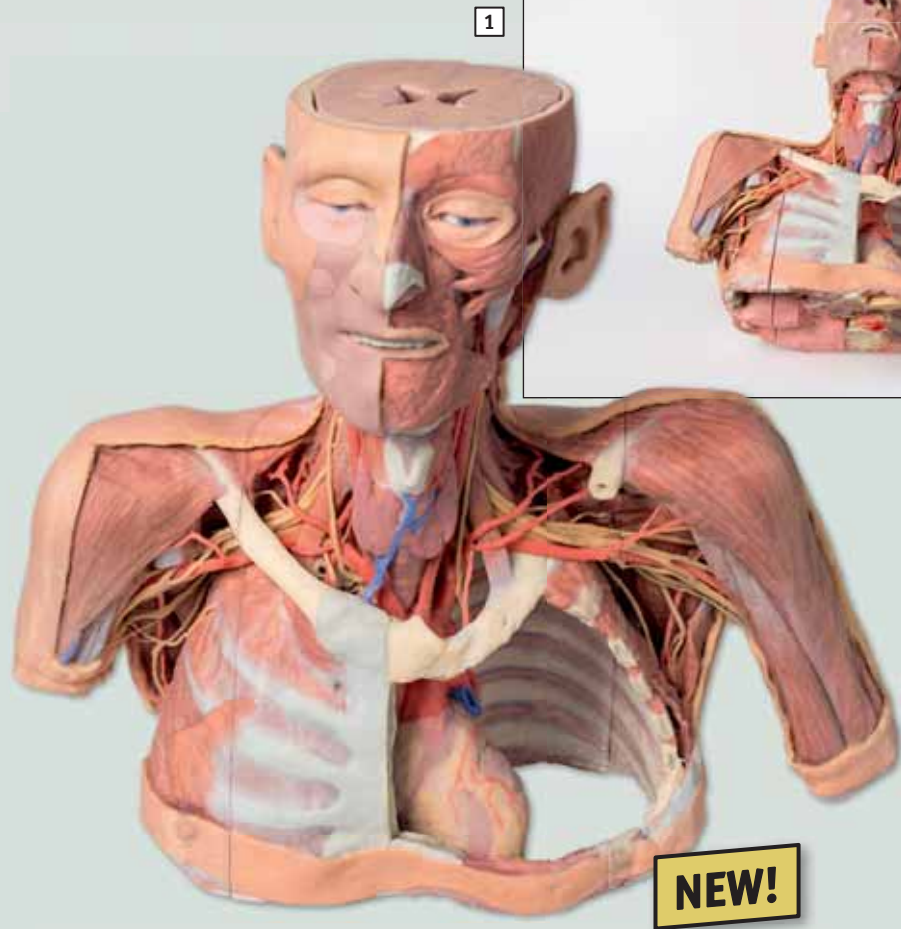


3D printed specimen

Advantages of our Human Anatomy Reproductions

- Anatomically accurate and identical to real specimen
- No ethical issues - not real human body parts
- Reasonably priced
- Available within a short lead time
- Reproducible, several identical prints can be used as a classroom set
- Can be produced in different sizes to cater for the needs of the teacher e.g. a larger auditory version can be created





1 Head, Neck and Shoulder with angiosomes

This large 3D printed specimen displays a great deal of anatomy spanning the head, neck, thorax, axillae and upper limbs. Detailed anatomical description on request.

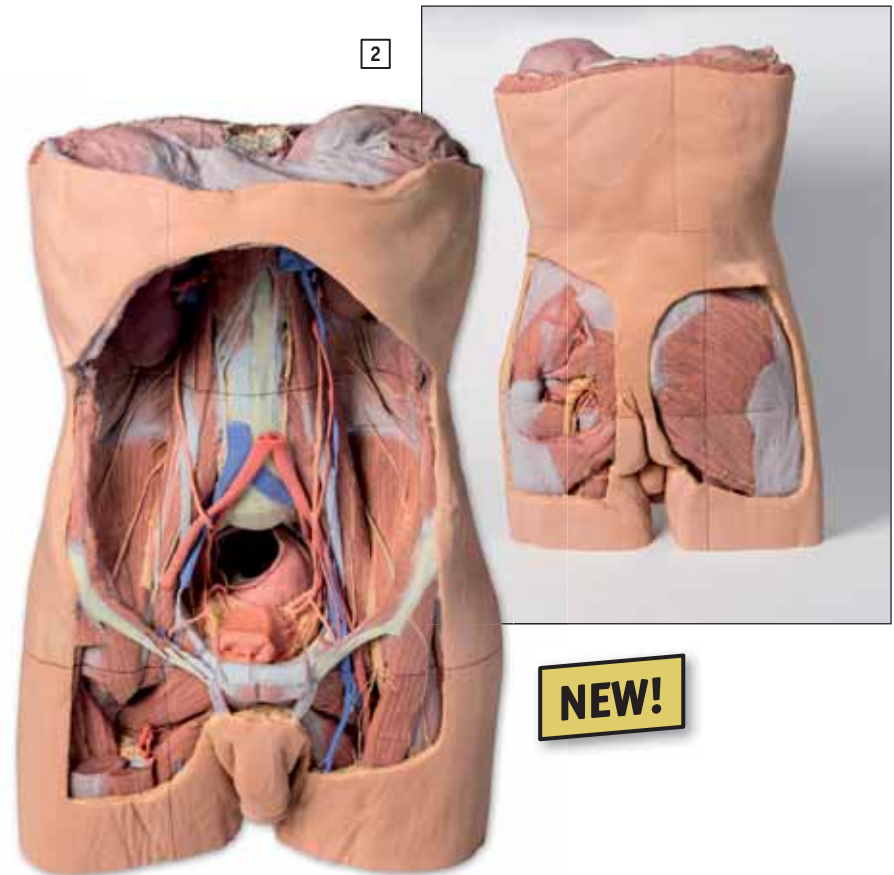
■ Ref.no. MP1250



2 Posterior Abdominal wall

This large 3D-printed specimen displays the entire male posterior abdominal wall from the diaphragm to the pelvic brim, as well as pelvic anatomy and to the proximal thigh. This same individual specimen is also available as a pelvic and proximal thigh specimen (MP1770). Detailed anatomical description on request.

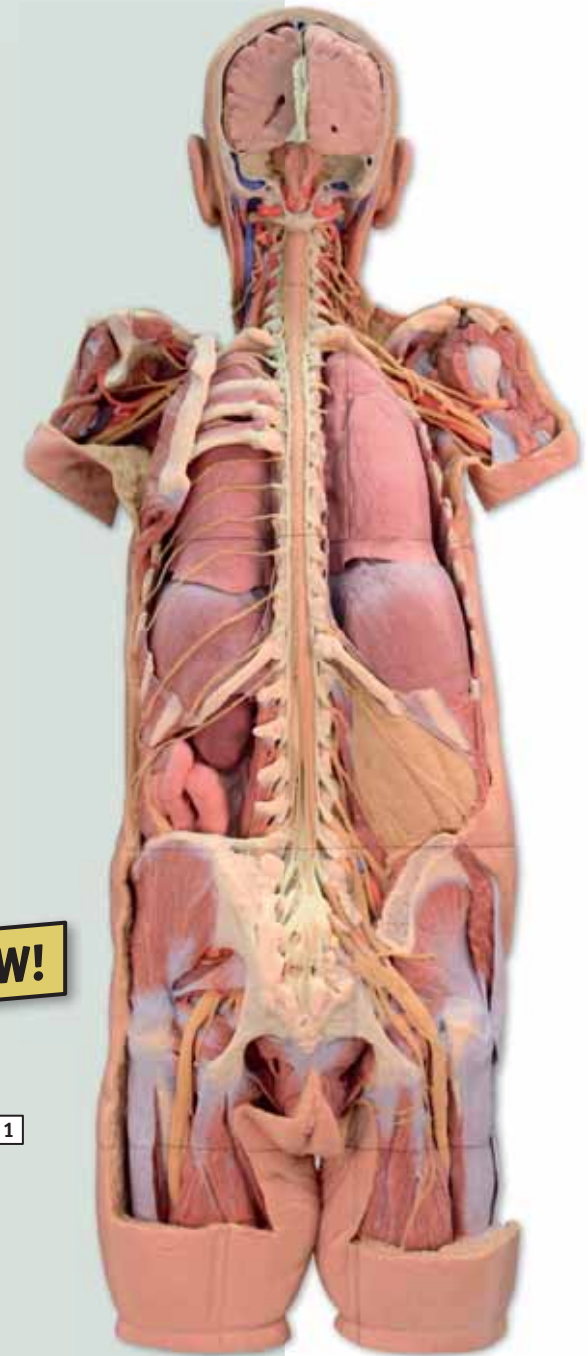
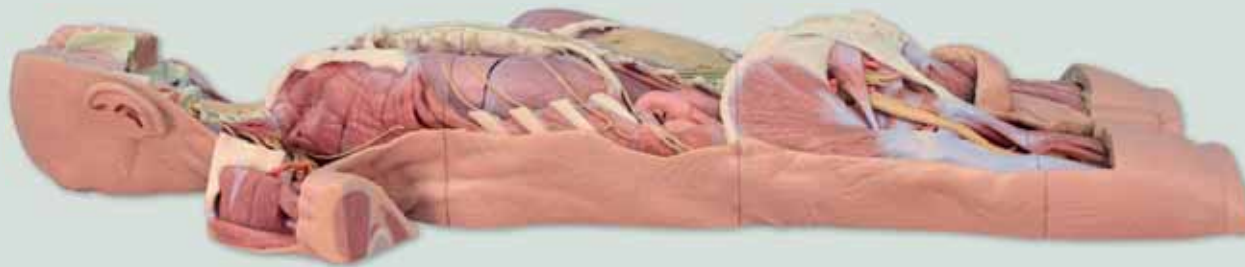
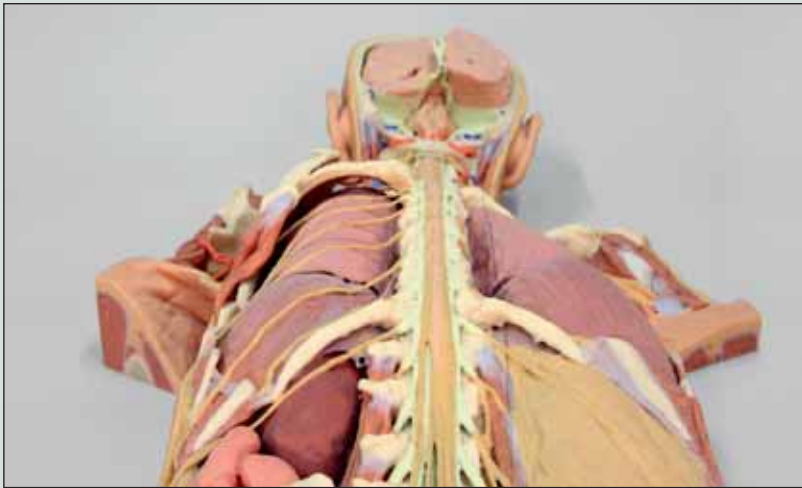
■ Ref.no. MP1300



1 Nervous System Dissection (posterior view) ▶

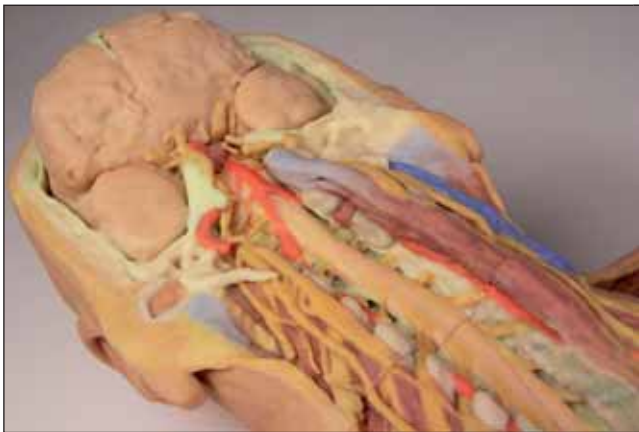
This 3D printed specimen presents a unique view of axial anatomy, presenting a dorsal deep dissection of the head, neck, axillae, thorax, abdomen, and gluteal regions. The removal of the posterior portions of the cranium and laminectomy from the cervical region to the opening of the sacral canal affords a continuous view of the central nervous system structures and origin of the segmental nerves relative to other axillary and appendicular structures. Detailed anatomical description on request.

■ Ref.no. MP1400

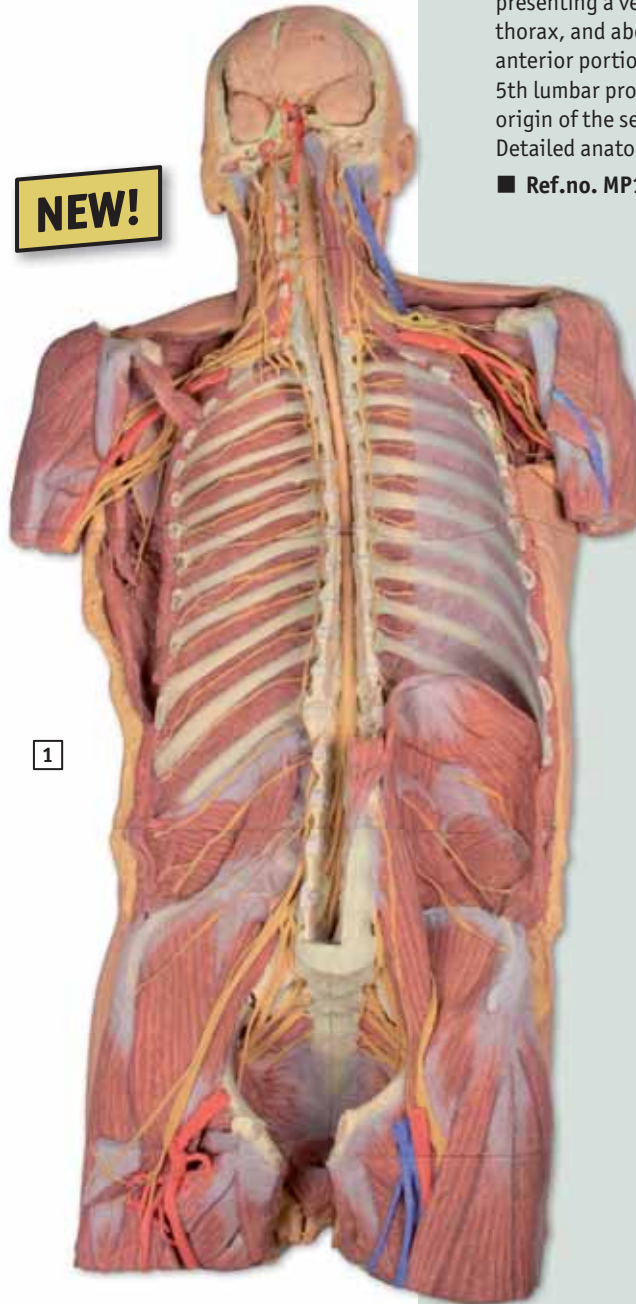


NEW!

1



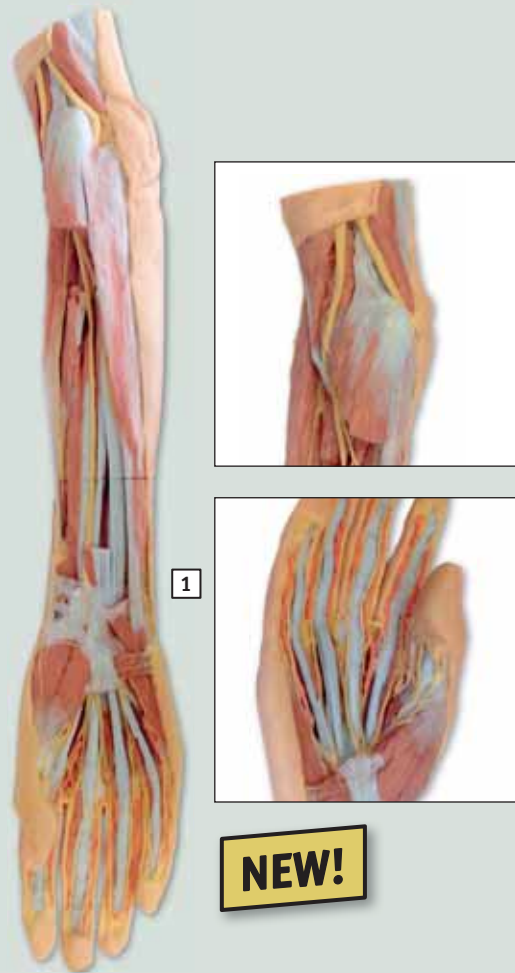
NEW!



1 Posterior Body Wall / Ventral Deep Dissection

This 3D printed specimen complements our dorsal dissection specimen (MP1400) by presenting a ventral deep dissection of axial anatomy from the head, neck, axillae, thorax, and abdomen to the proximal portion of the thighs. The removal of the anterior portions of the cranium and vertebral bodies from the cervical region to the 5th lumbar provides a continuous view of the central nervous system structures and origin of the segmental nerves relative to other axillary and appendicular structures. Detailed anatomical description on request.

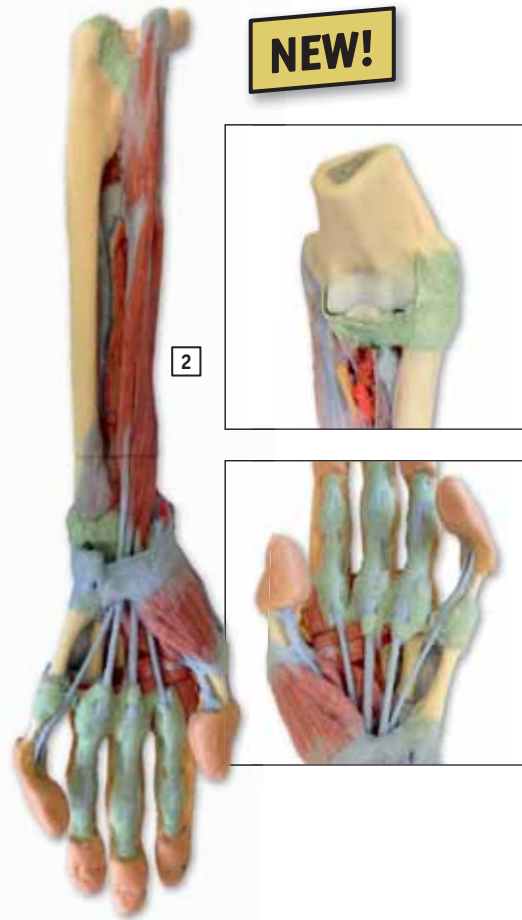
■ Ref.no. MP1410



1 Forearm and hand - superficial and deep dissection

This 3D printed specimen preserves a mixed superficial and deep dissection of the anterior aspect of a right distal arm, forearm and hand. Detailed anatomical description on request.

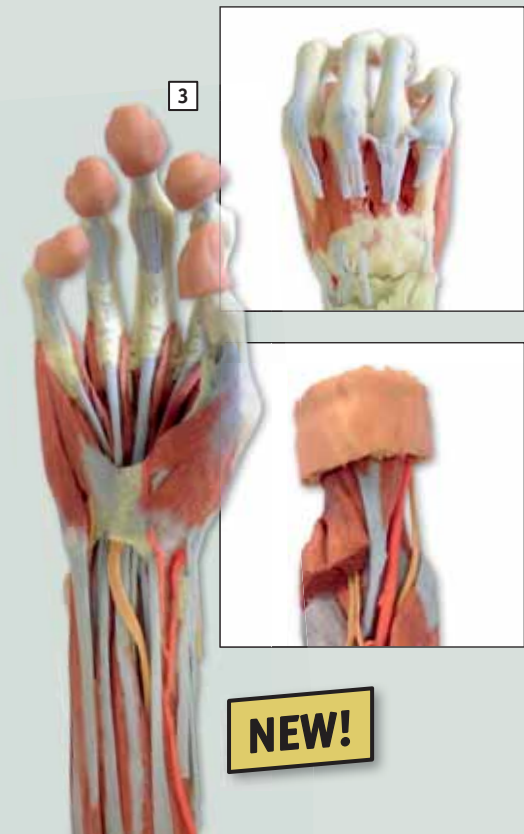
■ Ref.no. MP1512



2 Forearm and hand - deep dissection

This 3D printed specimen of a left upper limb preserves a deep dissection from the distal humerus to the palmar surface of hand. Detailed anatomical description on request.

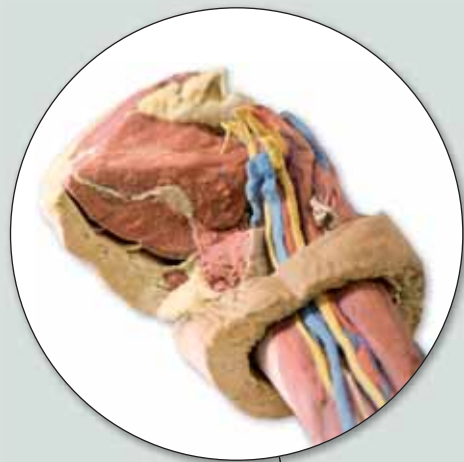
■ Ref.no. MP1514



3 Deep upper limb and hand

This 3D print of a superficially dissected right upper limb specimen displays a mixture of the vascular, nervous and muscular anatomy of the distal arm, forearm and hand. Detailed anatomical description on request.

■ Ref.no. MP1513



1 Upper Limb

This 3D-printed specimen demonstrates the superficial anatomy of a left upper limb from the blade of the scapula to the hand. The skin and superficial and deep fascia has been removed from most of the limb except over the dorsum of the scapula, proximal arm, and over the hand. The superficial veins, including the median cubital vein, have been maintained; with the cephalic and basilica preserved from the wrist to the deltopectoral groove and termination in the brachial vein, respectively. Detailed anatomical description on request.

■ Ref.no. MP1500

1

NEW!



2 Upper Limb - elbow, forearm and hand

This 3D-printed specimen displays a great deal of upper limb anatomy. In the distal arm and elbow/cubital fossa region it shows the arrangement of the biceps tendon, brachial artery and median nerve arranged from lateral to medial. The bicipital aponeurosis has been divided to reveal the structures deep to it. Detailed anatomical description on request.

■ Ref.no. MP1510



2



NEW!



1

NEW!

1 Upper Limb Ligaments

This 3D printed specimen presents the entire upper limb skeleton and ligaments from the pectoral girdle to the hand. Detailed anatomical description on request.

■ Ref.no. MP1520

2 Upper Limb - biceps, bones and ligaments

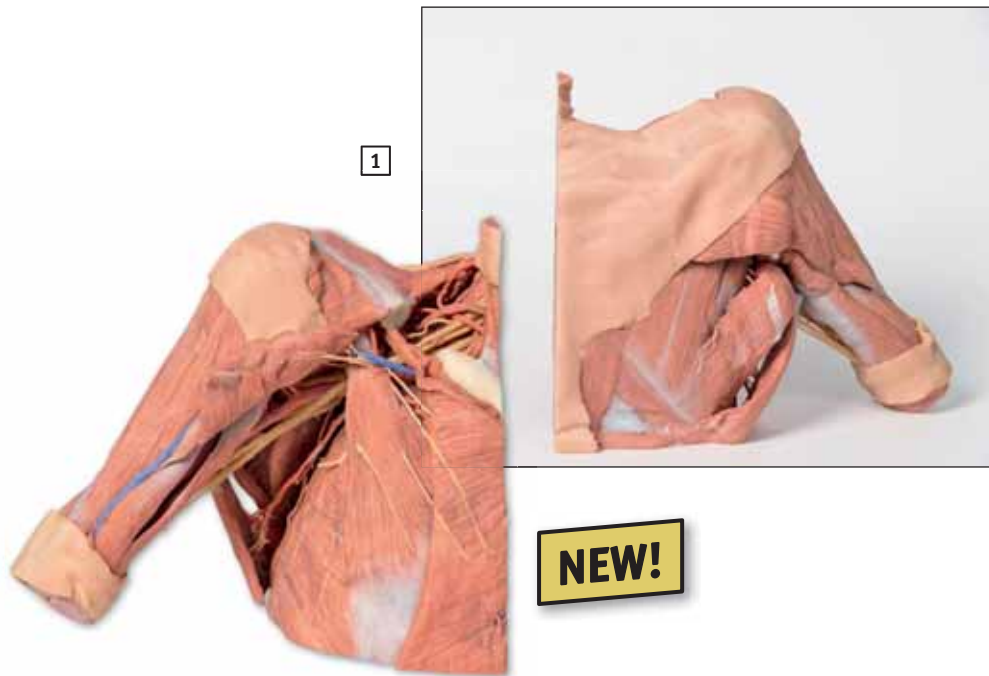
This 3D-printed specimen shows the origin and insertion of biceps (most other arm and shoulder muscle bellies have been removed). The long head of biceps arises from the supraglenoid tubercle (hidden from view) and travels inferiorly in the bicipital groove, whereas the short head of biceps arises from the coracoid process. The bifid insertion of the muscle as the bicipital aponeurosis and the rounded tendon which can be seen winding around the radius to insert into the radial tuberosity are clearly discernable. Detailed anatomical description on request.

■ Ref.no. MP1515



2

NEW!



◀ 1 Right thoracic wall - axilla, and the root of the neck

This 3D printed specimen preserves a dissection of the right thoracic wall, axilla, and the root of the neck. The specimen is cut just parasagittally and the visceral contents of the chest have been removed. Structures within the right chest wall are visible deep to the parietal pleura, including the ribs, muscles of the intercostal spaces and the origins of the neurovascular bundle in each intercostal space. The pectoralis major has been reflected medially towards the sectioned edge of the specimen to expose pectoralis minor which acts as a useful landmark as it divides the axillary artery into its three parts. The clavicle has had its middle 1/3 removed, but the subclavius muscle has been retained. The brachial plexus and many of its branches are seen almost in its entirety from the roots of C5-T1 to its termination as it exits the axilla to enter the arm. Detailed anatomical description on request.

■ Ref.no. MP1521

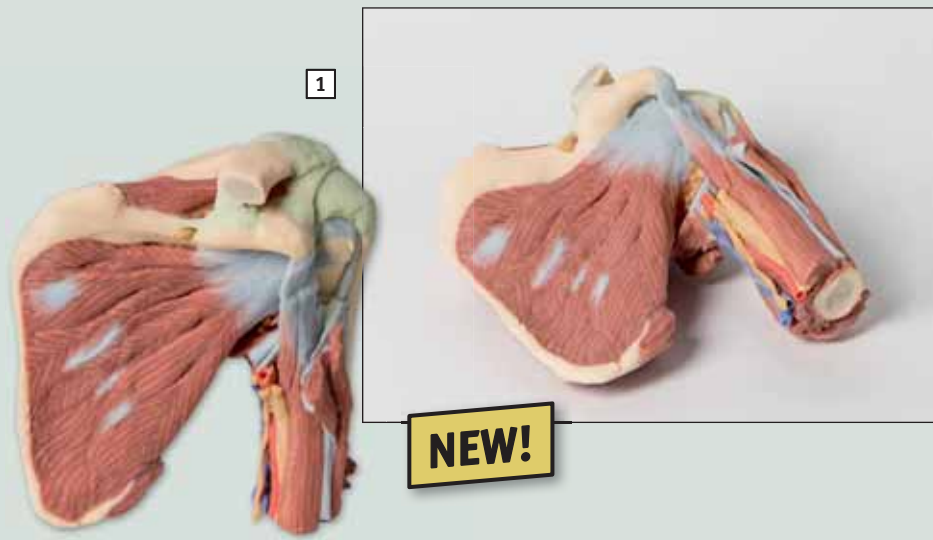


◀ 2 Shoulder (left) - Superficial muscles and axillary/brachial artery

This printed 3D left shoulder specimen consists of the scapula, humerus (sectioned near midshaft) and clavicle (sectioned at midshaft) with the superficial muscles around the shoulder joint, the rotator cuff muscles and the axillary artery as it progresses distally to become the brachial artery.

The muscles attached to the clavicle have been preserved including the subclavius muscle attachment to the inferior border of the clavicle and the deltoid covering the lateral aspect of the proximal upper limb (overlying the origins of the long head of biceps brachii and the lateral head of triceps brachii). Detailed anatomical description on request.

■ Ref.no. MP1523



1 Shoulder - deep dissection of the left shoulder joint, musculature, and associated nerves and vessels

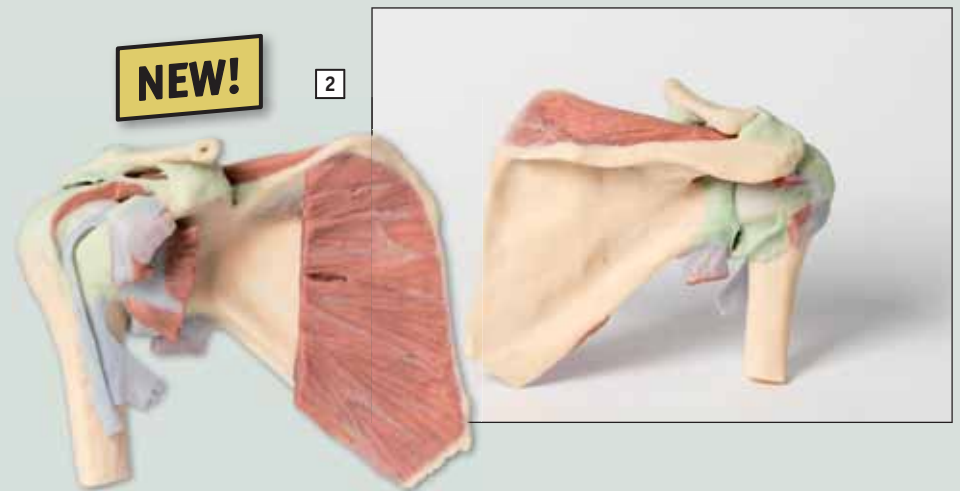
This 3D printed specimen presents a deep dissection of the left shoulder joint, musculature, and associated nerves and vessels of the scapula and proximal humerus (to near midshaft). Anteriorly, the deltoid muscle has been detached from its origin to expose the underlying deeper structures of the shoulder joint and rotator cuff musculature. Detailed anatomical description on request.

■ Ref.no. MP1525

2 Shoulder - deep dissection of a right shoulder girdle, preserving a complete scapula, lateral clavicle, and proximal humerus

This 3D printed specimen preserves a deep dissection of a right shoulder girdle, consisting of a complete scapula, lateral clavicle, and proximal humerus. In the anterior view, the subscapularis muscle is present but sectioned to highlight the cross-sectional thickness of the belly within the subscapular fossa. Detailed anatomical description on request.

■ Ref.no. MP1527

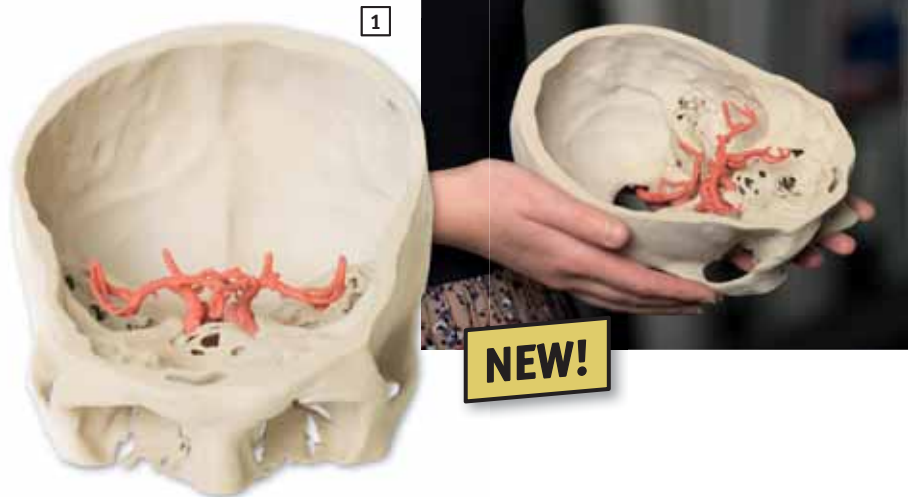


3 Hand

This 3D printed specimen demonstrates a superficial dissection of a left hand and wrist. Anteriorly, the transverse carpal and palmar carpal ligaments have been removed to expose the tendons and nerves traversing the carpal tunnel and Canal of Guyon. The palmar aponeurosis has been removed to demonstrate the course of the tendons through the palm, the superficial muscles of the thenar and hypothenar eminences (abductors and flexors), and the lumbrical muscles arising from the flexor digitorum tendon. Detailed anatomical description on request.

■ Ref.no. MP1530





1

NEW!

1 Circle of Willis

This 3D printed specimen demonstrates the intracranial arteries that supply the brain relative to the inferior portions of the viscerocranium. This print was created by careful segmentation of angiographic data. The model shows the paired vertebral arteries entering the cranial cavity through the foramen magnum and uniting to form the basilar artery. The basilar can be seen dividing into their terminal posterior cerebral arteries. The superior cerebellar arteries arise just proximal to this termination. Detailed anatomical description on request.

■ Ref.no. MP1600



2

NEW!

2 Dural Skull

This 3D print of a dissected and opened cranial cavity displays the dural folds and dural venous sinuses, including the falx cerebri (preserved by a retained midsagittal portion of the calvaria). The intact tentorium cerebelli demonstrates the tentorial notch which normally houses the midbrain. Detailed anatomical description on request.

■ Ref.no. MP1610



3

NEW!

3 Temporal Bone Model, Set of 3

This 3 part 3D printed model derived from CT data highlights the complex anatomy of the temporal bone including bone ossicles, canals, chambers, foramina and air spaces. In addition, the spatial relations between temporal bone and other structures of otological importance, i.e. carotid artery, dural venous sinuses, related nerves and the dura mater are indicated. Internal casts (endocasts) of the bony chambers and canals have been created to aid visualisation of the internal anatomy of the temporal bone. The model set consists of three parts:

- Part 1 Skull Preparation
 - Part 2 The Petrous Part Of The Temporal Bone
 - Part 3 The Auditory And Vestibular Apparatus
- Detailed anatomical description on request.

■ Ref.no. MP1620



1

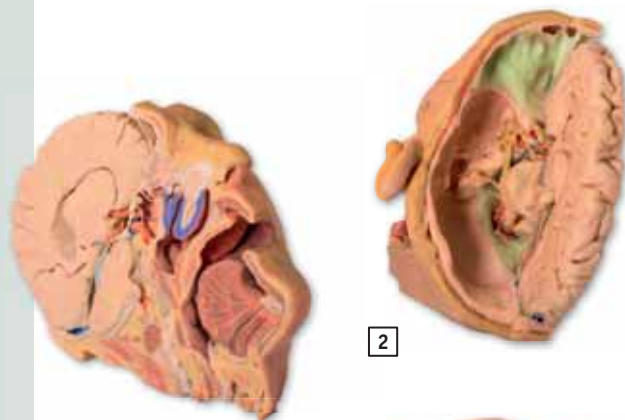
NEW!



1 Paranasal Sinus model

This unique model has been created from CT imaging and segmentation of the internal spaces of the viscerocranium. Parts of the skull have been retained but sections or windows have been removed to expose the paranasal sinuses. The paired frontal sinuses, with the right being partially subdivided, are coloured blue. Detailed anatomical description on request.

■ Ref.no. MP1630



2

NEW!

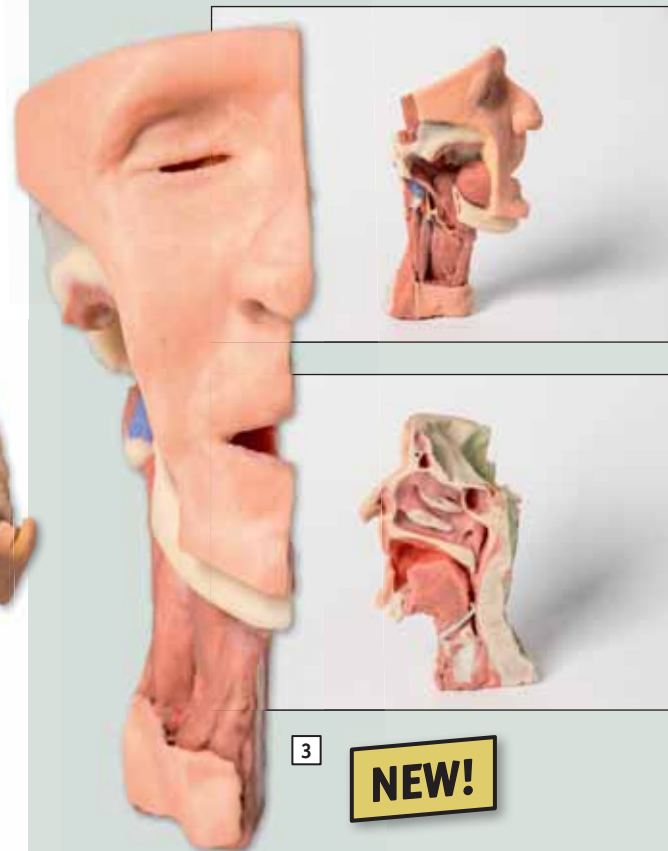


2 Head and Neck

This 3D printed specimen of a parasagittally sectioned head and neck demonstrates a range of anatomical features:

Lateral aspect of the face: A window has been created to expose the parotid region. The pinna of the ear has been left intact, however the mastoid process has been exposed by reflection of the sternocleidomastoid (SCM) muscle. The parotid gland has been carefully removed to display structures which are normally embedded or hidden by the gland. The attachment of the posterior belly of digastric arising from the digastric groove medial to the mastoid process can be clearly seen. Detailed anatomical description on request.

■ Ref.no. MP1660



3

NEW!

3 Deep face/Infratemporal fossa

In this 3D printed specimen of a midsagittally-sectioned right face and neck, the ramus, coronoid process and head of the mandible have been removed to expose the deep part of the infratemporal fossa. The pterygoid muscles have also been removed to expose the lateral pterygoid plate and posterior surface of the maxilla. The buccinator has been retained and can be seen originating from the external aspect of the maxilla, the pterygomandibular raphe and the external aspect of the (edentulous) mandible. Detailed anatomical description on request.

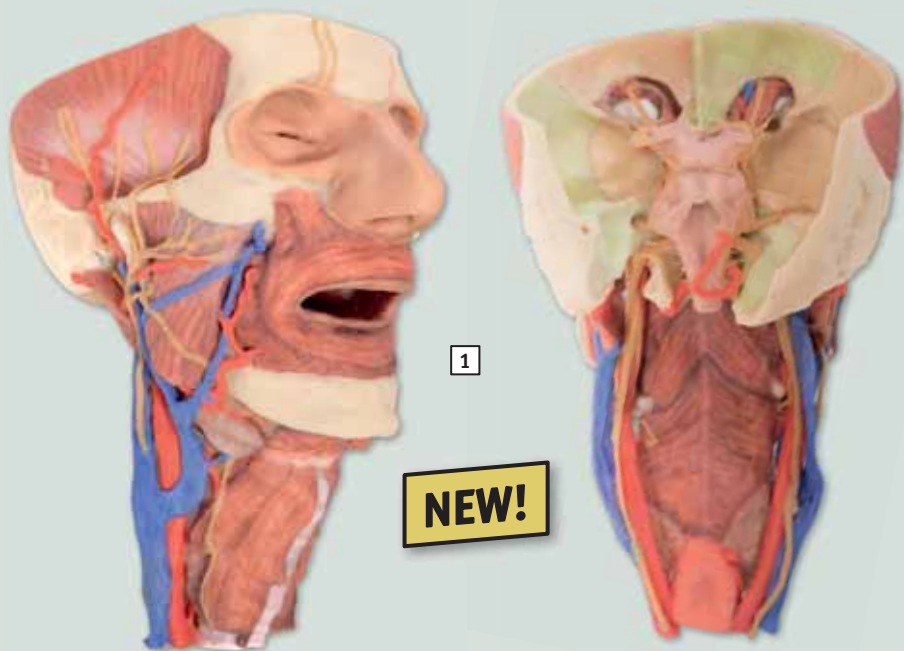
■ Ref.no. MP1665

▼ 1 Head and visceral column of the neck

This 3D print specimen preserves a series of features of the head and visceral column of the neck:

The face: On the right side of the head the parotid gland has been removed to reveal the facial nerve and all its branches (temporal, zygomatic, buccal, marginal mandibular and cervical) and demonstrate the spatial relations of structures embedded in the gland from superficial to deep (facial nerve, retromandibular vein, external carotid artery). In the surrounding region the temporalis, masseter and posterior belly of digastric are exposed, as are and the facial artery, transverse facial artery and superficial temporal artery. The facial vein and transverse facial vein are clearly visible uniting to form the common facial vein which is joined by the retromandibular vein to form the external jugular vein. Detailed anatomical description on request.

■ Ref.no.MP1670



2

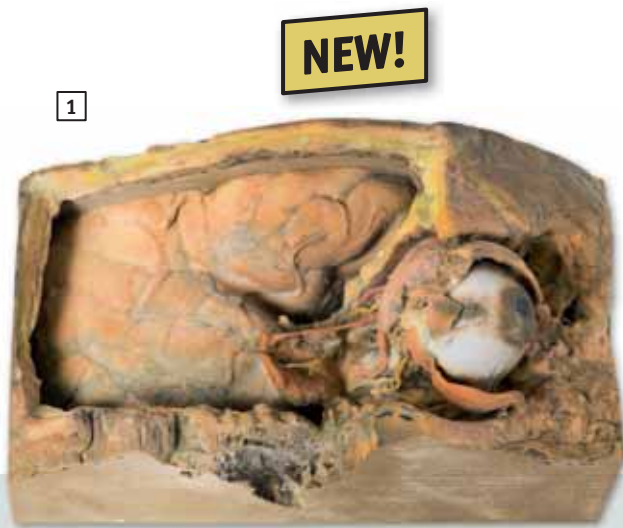
NEW!



▲ 2 Superior Orbit

This 3D printed model captures a dissection in which the calvaria and cerebrum have been removed to expose the floors of the anterior and middle cranial fossae. The midbrain has been sectioned at the level of the tentorium cerebelli and on the cross sectional surface one can identify the superior colliculi, cerebral peduncles and the substantia nigra. Anterior to the mid-brain the vertebral artery can be clearly identified rising from the posterior cranial fossa and dividing into the posterior cerebral arteries. Detailed anatomical description on request.

■ Ref.no. MP1675



1 Lateral Orbit

This 3D printed specimen shows the orbit from the lateral perspective when the bony lateral wall and part of the calvaria of the skull have been removed. The frontal and temporal lobes of the brain are exposed. In the orbit the lateral rectus (LR) has been divided to demonstrate the intraconal space. The muscle near its insertion has been reflected anteriorly to reveal the insertion of inferior oblique muscle (IO). The portion near its origin from the annulus is reflected to reveal the abducens nerve (VI Nv) entering the bulbar aspect of the muscle belly. Detailed anatomical description on request.

■ Ref.no. MP1680



2 Medial Orbit

This 3D print displays the orbital contents and its close relations as viewed from the medial perspective when the majority of the lateral wall of the nasal cavity and the intervening ethmoidal sinuses have been removed. The posterior ethmoidal nerve (PEN) (a branch of the nasociliary nerve, CN V1) can be seen passing between the medial rectus (MR) inferiorly and the superior oblique muscle superiorly. Detailed anatomical description on request.

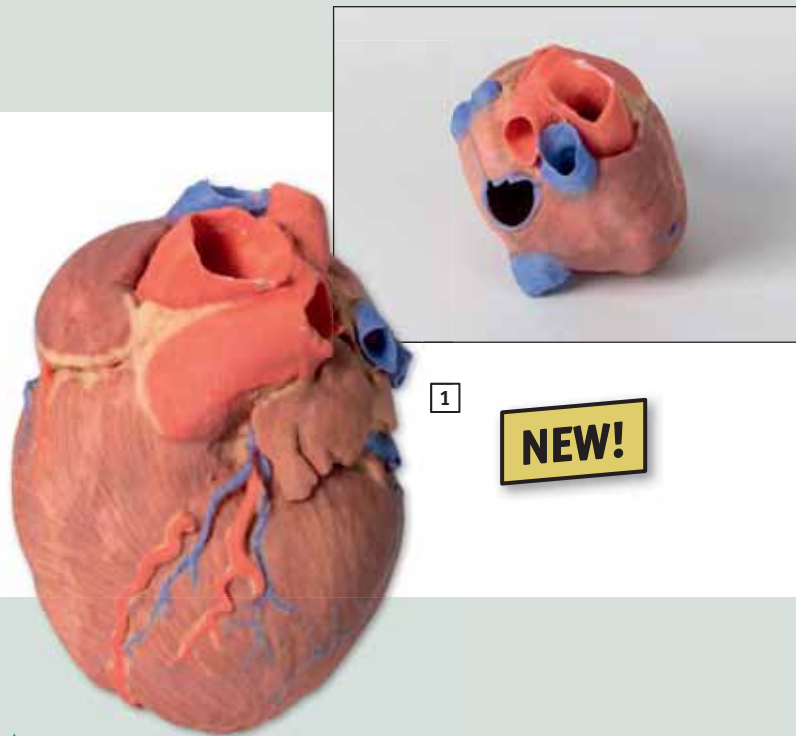
■ Ref.no. MP1685



3 Bronchial Tree

This 3D printed specimen presents the conducting pathways of the respiratory system from the trachea, carina, and complete right and left bronchial trees to the level of the tertiary lobar bronchi. Each set of lobar bronchi have been colour-coded to demonstrate the bronchopulmonary segments of the right and left lobes. Detailed anatomical description on request.

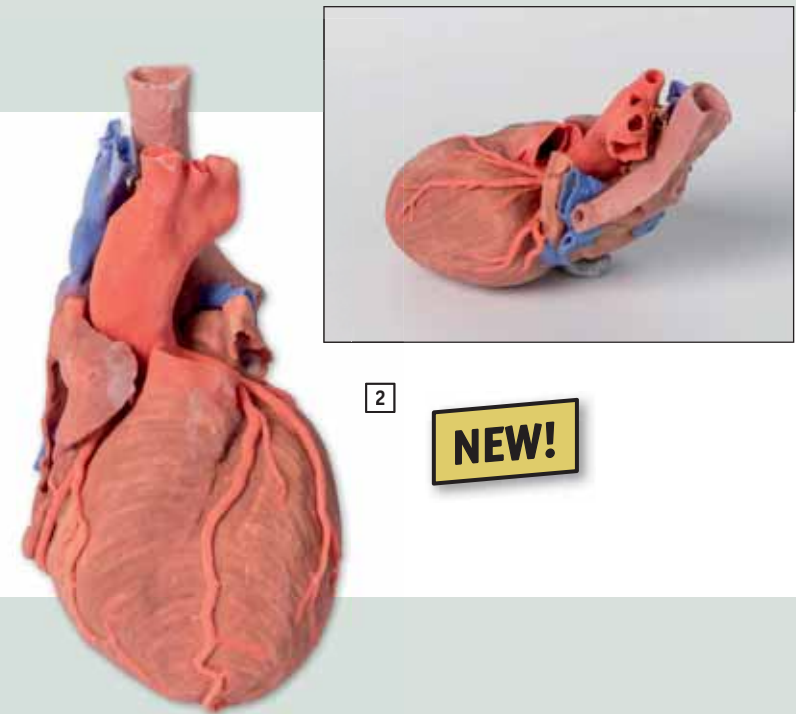
■ Ref.no. MP1690



1 Heart

This 3D printed heart specimen preserves superficial cardiac anatomy and the bases of the great vessels. All four chambers (atria and ventricles) are preserved, with the pericardial reflections on the left atrium demarcating the position of the transverse and oblique pericardial sinuses. The right marginal branch of the right coronary artery is visible exiting from the fat-filled coronary sulcus, as well as the posterior interventricular (posterior descending) artery within its sulcus. The anterior interventricular (left anterior descending) and diagonal branches from the left coronary artery are also visible anteriorly, as well as the terminal portion of the circumflex branch deep to the left auricle and great cardiac vein. On the posterior aspect, the coronary sinus receives all the cardiac veins (great, middle, small) and a prominent posterior vein of the left ventricle. The aortic and pulmonary semilunar valves are visible at the bases of the ascending aorta and pulmonary trunk, respectively. Detailed anatomical description on request.

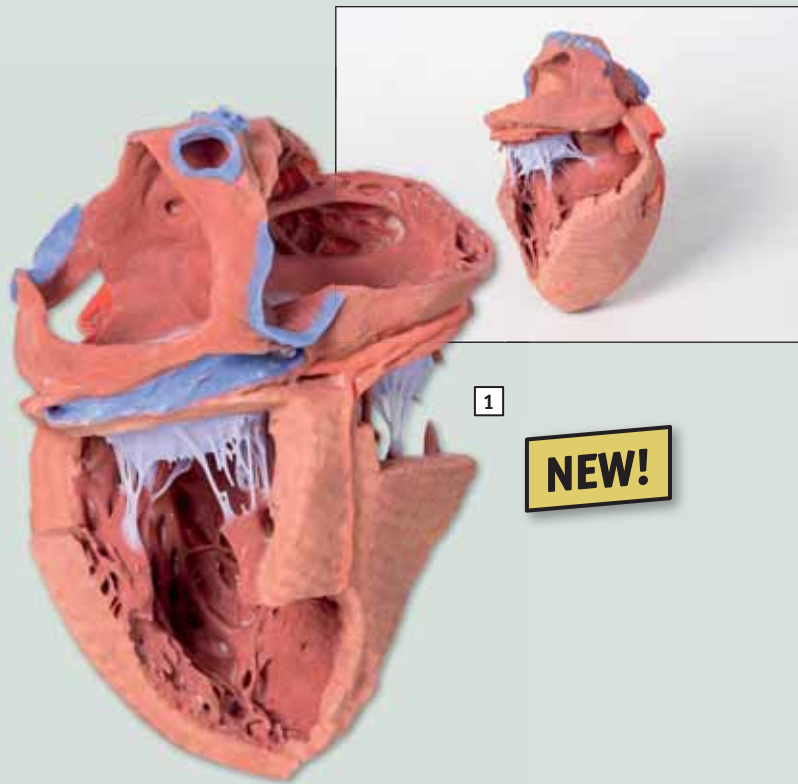
■ Ref.no. MP1700



2 Heart and the distal trachea, carina and primary bronchi

This 3D printed specimen preserves the external anatomy of the heart and the distal trachea, carina, and primary bronchi in the posterior mediastinum relative to the great vessels and left atrium (which demonstrates the pericardial reflections of the transverse and oblique pericardial sinuses). An anterior window has been dissected into the right atrium and base of the auricle, exposing the right atrioventricular (tricuspid) valve and passage into the right ventricle. Both the right and left coronary arteries and named branches are visible (with the posterior interventricular artery arising from the right coronary artery). The left auricle has been sectioned to demonstrate the course of the circumflex artery in the coronary groove. The cardiac veins have been removed, but the coronary sinus has been retained inferior to the left atrium. The pulmonary trunk has been removed to expose the (open) pulmonary semilunar valves, while the arch of the aorta is intact to display the origins of the brachiocephalic trunk, left common carotid, and left subclavian. Adjacent to the aorta, the termination of the left and right brachiocephalic veins and azygos vein into the superior vena cava is preserved. Detailed anatomical description on request.

■ Ref.no. MP1710

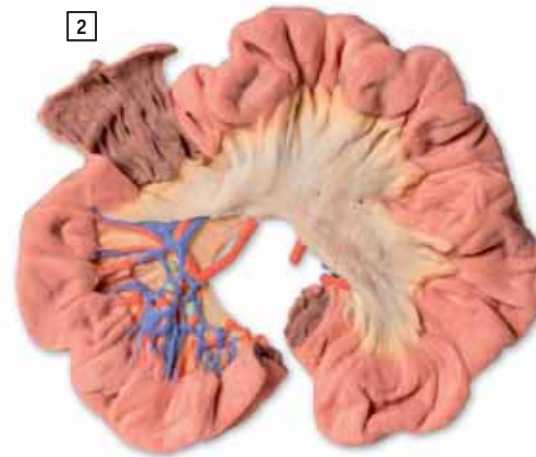


NEW!

1 Heart internal structures

This 3D printed heart has been dissected to display the internal structures of the chambers. At the base of the heart the termination of the superior vena cava is preserved entering the right atrium. Part of the inferior vena cava is also preserved on the inferior aspect of the right atrium; however, most of the vessel lumen and much of the anterior wall has been removed to expose the pectinate muscles of the right auricle and the fossa ovalis (which is nearly translucent in the 3D print). The anterior wall of the right ventricle has also been removed to expose the right atrioventricular valve and its three cusps (anterior, posterior, and septal), including the chordae tendineae connecting them to respective papillary muscles projecting from trabeculae carneae (including a septomarginal trabecula entering the anterior papillary muscle from the interventricular septum). Detailed anatomical description on request.

■ Ref.no. MP1715

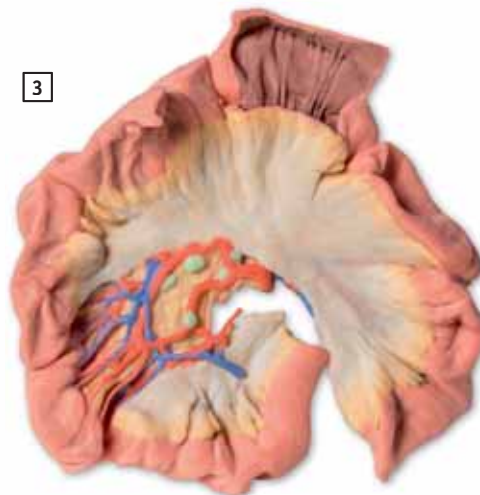


NEW!

2 Bowel - Portion of Ileum

This 3D printed specimen demonstrates a small loop of ileum and mesentery. A window into the mesentery has been dissected (removing fat and visceral peritoneum) to show arterial arcades in the mesentery. Detailed anatomical description on request.

■ Ref.no. MP1725

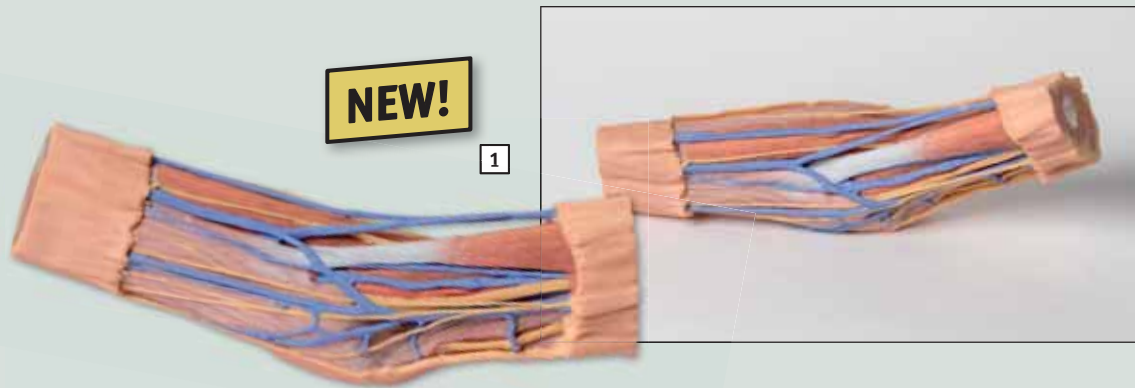


NEW!

3 Bowel - Portion of Jejunum

This 3D printed specimen presents a small loop of jejunum and mesentery. A window into the mesentery, fat and visceral peritoneum has been removed to illustrate the arterial arcades in the mesentery. Detailed anatomical description on request.

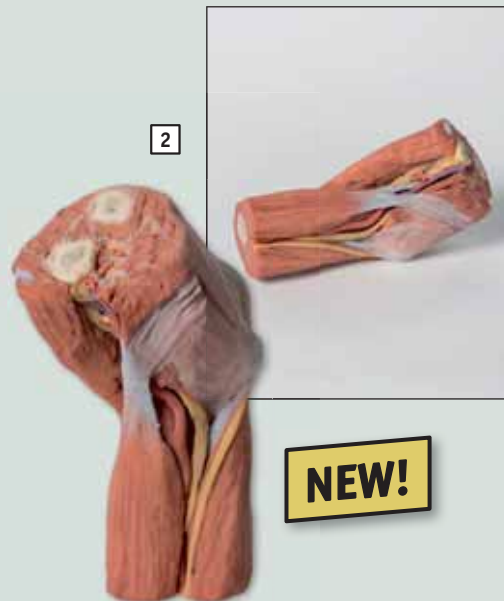
■ Ref.no. MP1730



1 Cubital Fossa

This 3D printed cubital fossa displays a superficial dissection of the right distal arm and proximal forearm. The skin and superficial fascia has been removed anteriorly, medially and laterally to expose the superficial veins (basilic, cephalic, and median cubital) and cutaneous (medial, lateral and posterior antebrachial) nerves. Detailed anatomical description on request.

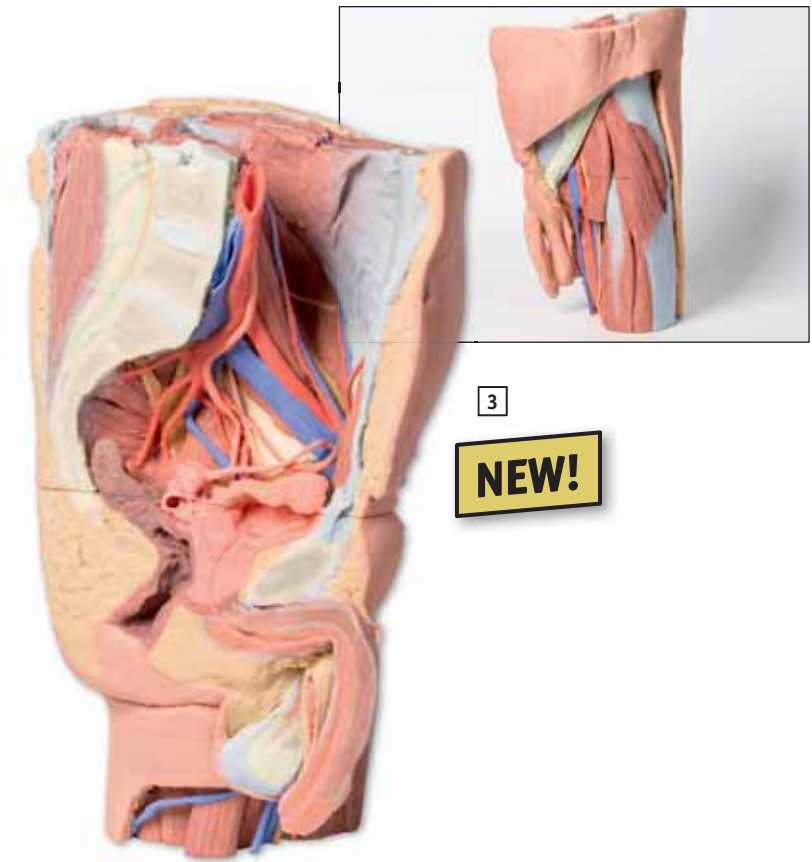
■ Ref.no. MP1750



2 Cubital fossa - muscles, large nerves and the brachial artery

This 3D printed specimen presents a left distal arm and proximal forearm with all skin, subcutaneous fat and superficial cutaneous nerves and veins removed. The elbow region partially flexed to display the arrangement of muscles and neurovascular structures of the cubital fossa. Detailed anatomical description on request.

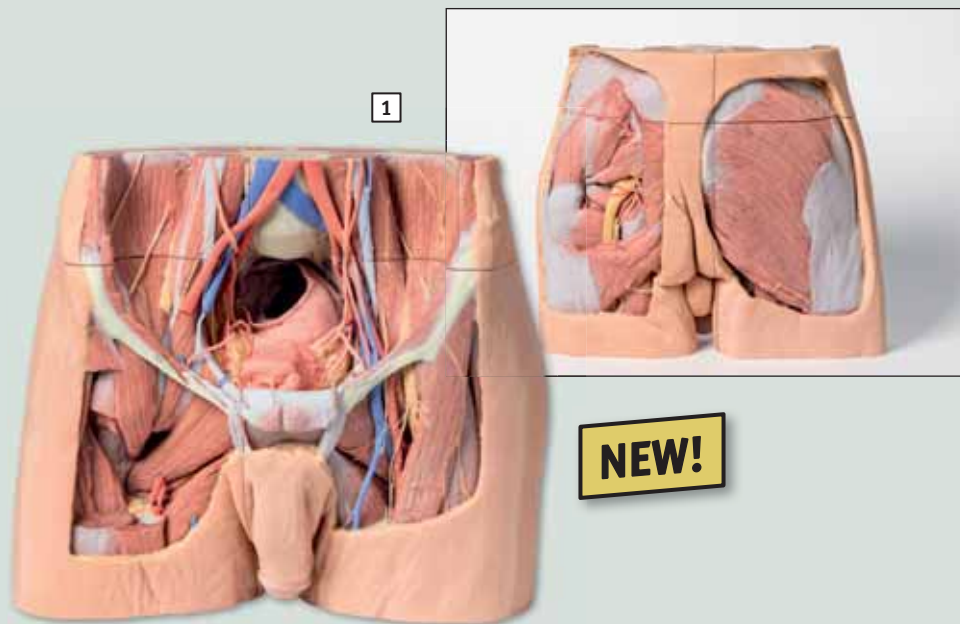
■ Ref.no. MP1755



3 Male left pelvis and proximal thigh

This 3D printed male left pelvis and proximal thigh (sectioned through the midsagittal plane in the midline and transversely through the L3/4 intervertebral disc) shows superficial and deep structures of the true and false pelvis, inguinal and femoral region. In the transverse section, the epaxial musculature, abdominal wall musculature (rectus abdominis, external and internal abdominal obliques, transversus abdominis), psoas major and quadratus lumborum are visible and separated from each other and the superficial fat by fascial layers such as the rectus sheath and the thoracolumbar fascia. The psoas major muscle lies lateral to the external iliac artery, with the left testicular artery and vein lying on its superficial surface. More laterally (and moving inferiorly), the ilioinguinal nerve, the lateral cutaneous nerve of the thigh and the femoral nerve are positioned over the superficial surface of the iliacus muscle. Detailed anatomical description on request.

■ Ref.no. MP1765

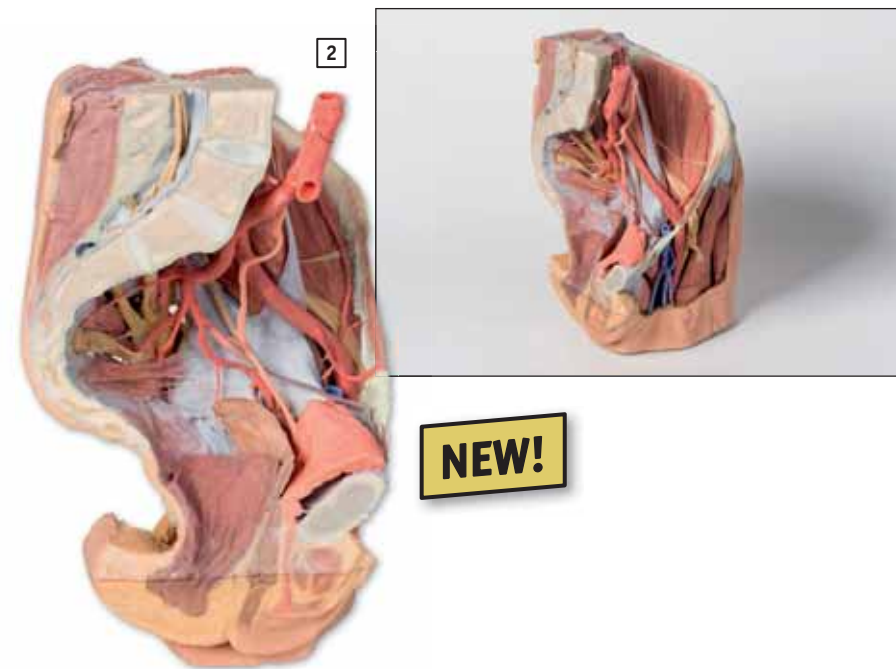


1 Male Pelvis

This multipart 3D printed specimen represents the inferior portions of our larger posterior abdominal wall print (MP1300) that displays the inferior posterior abdominal wall, the pelvic cavity and the proximal thigh (including the gluteal regions and femoral triangles).

Lower posterior abdominal wall and false pelvis: The specimen is transected at approximately the level of the L2/L3 intervertebral disc. The common iliac veins unite to form the inferior vena cava. The common iliac arteries are close to uniting at the top of the print. The iliacus and psoas muscles are easy to identify, the latter has a prominent psoas minor tendon. They can be seen to unite as they pass under the inguinal ligament. The nerves of the iliac fossa (from superior to inferior: ilioinguinal nerve, lateral cutaneous nerve of thigh, femoral nerve) and their course is clearly visible, as is the genitofemoral nerves on the surface of psoas muscle. The ureters also descend on the superficial surface of the psoas and cross from its lateral to its medial border. They enter the pelvis at the bifurcation of the common iliac arteries into external and internal arteries. The external iliac arteries and veins running along the pelvic brim are clearly visible, as is the vas deferens crossing the brim from the deep inguinal ring to enter the pelvis. Detailed anatomical description on request.

■ Ref.no. MP1770



2 Female left pelvis and proximal thigh

This 3D printed female left pelvis and proximal thigh preserves both superficial and deep structures of the true and false pelvis, inguinal region, femoral triangle, and gluteal region. The specimen has been sectioned transversely through the fourth lumbar vertebra, displaying the cross-section of the musculature (epaxial musculature, psoas and quadratus lumborum muscles) and cauda equina within the vertebral canal. The ventral and dorsal roots of the cauda equina are also visible exiting the intervertebral and sacral foramina in the sagittal section. Detailed anatomical description on request.

■ Ref.no. MP1780

1

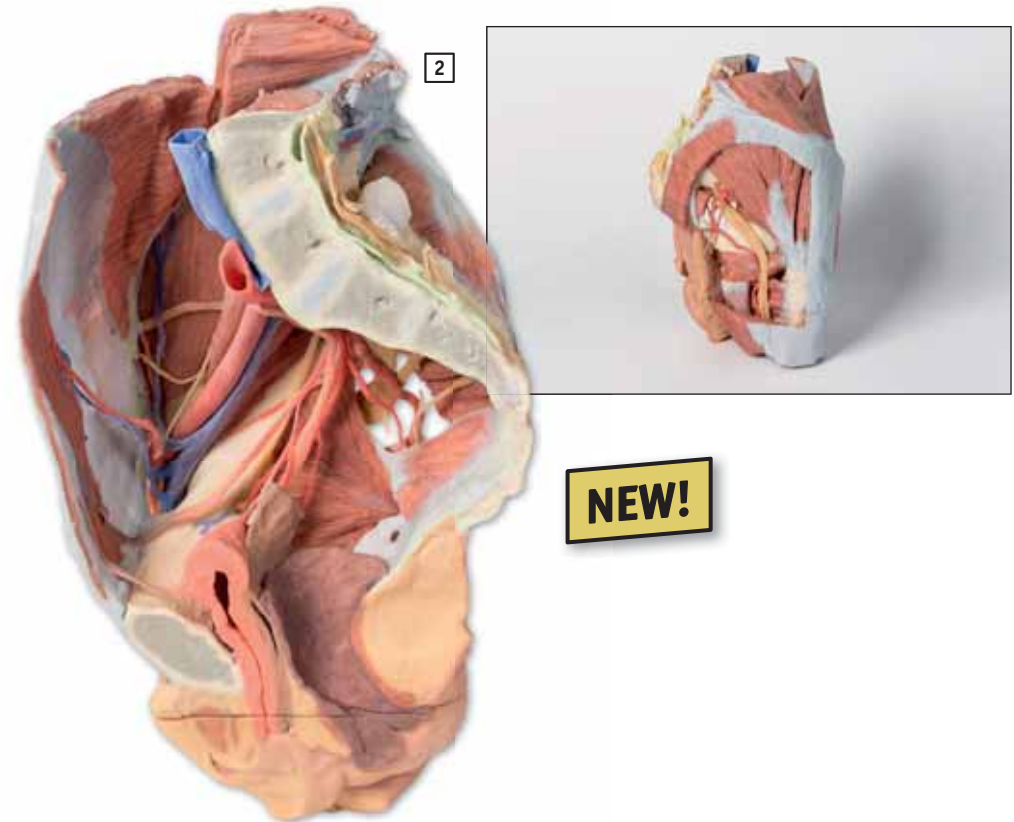


1 Female right pelvis superficial and deep structures

This 3D printed female right pelvis preserves both superficial and deep structures of the true and false pelvis, as well as the inguinal ligament, the obturator membrane and canal, and both the greater and lesser sciatic foramina. Somewhat unique is the removal of portions of the peritoneum (a grayish colour) to create 'windows' displaying extraperitoneal structures. Detailed anatomical description on request.

■ Ref.no. MP1783

2



2 Female right pelvis

This 3D printed specimen represents a female right pelvis, sectioned along the midsagittal plane and transversely across the level of the L4 vertebrae and the proximal thigh. The specimen has been dissected to demonstrate the deep structures of the true and false pelvis, the inferior anterior abdominal wall and inguinal region, femoral triangle and gluteal region. Detailed anatomical description on request.

■ Ref.no. MP1785



1

1 Knee Joint, flexed

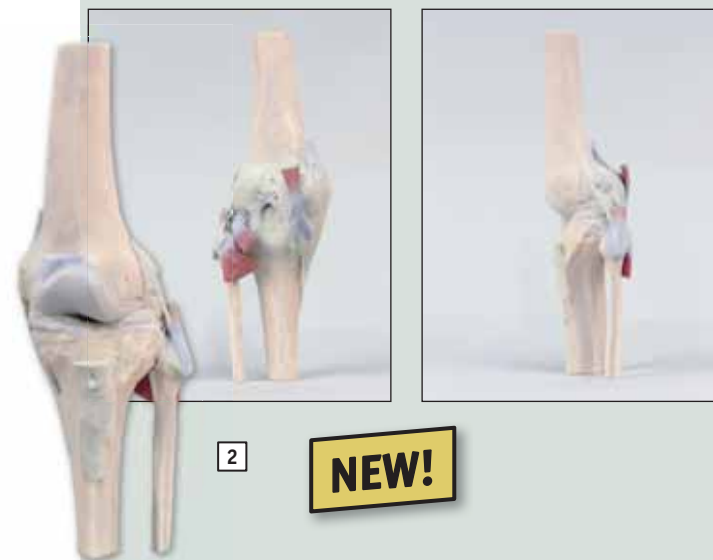
This 3D printed specimen demonstrates the ligaments of the knee joint with the leg in flexion. In the anterior view, with the patella and part of the patellar ligament removed, the medial and lateral menisci and anterior and posterior cruciate ligaments are visible. Detailed anatomical description on request.

■ Ref.no. MP1800

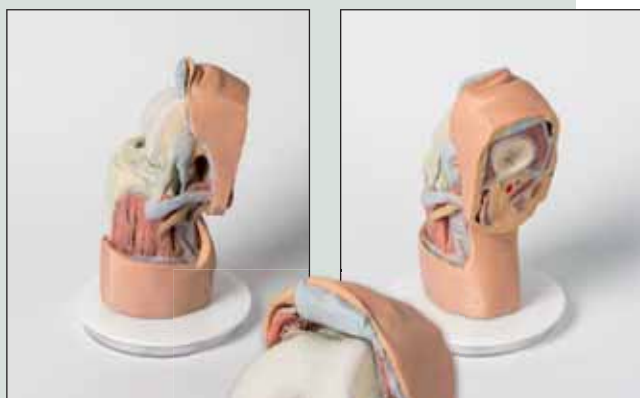
2 Knee Joint, extended

This 3D printed specimen demonstrates the ligaments of the knee joint with the leg in extension; it represents the same specimen as MP1800 knee joint printed in a flexed position. Both tibial and fibular collateral ligaments are intact. Detailed anatomical description on request.

■ Ref.no. MP1805



2



3

3 Flexed knee joint deep dissection

This 3D printed specimen displays a deep dissection of a left knee joint with the internal joint capsule structures relative to superficial tissues in a flexed position. Detailed anatomical description on request.

■ Ref.no. MP1807

NEW!



4 Popliteal Fossa distal thigh and proximal leg

This 3D printed specimen preserves the distal thigh and proximal leg, dissected posteriorly to demonstrate the contents of the popliteal fossa and surrounding region. Detailed anatomical description on request.

■ Ref.no. MP1820



4

NEW!



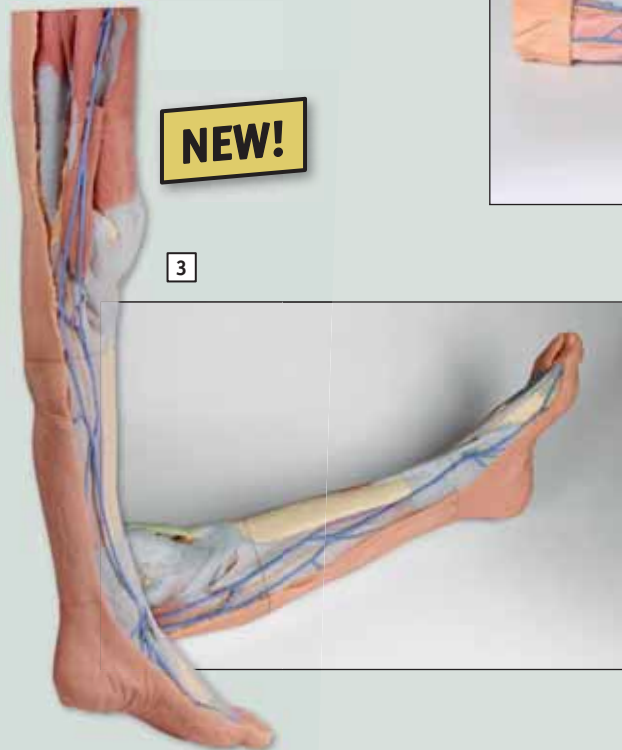
1

NEW!

NEW!



2



3

NEW!

1 Lower Limb - deep dissection

This 3D printed specimen consists of a right partial lower limb sectioned just proximal to the knee joint and complete through a partially dissected foot exposing the structures on the dorsum. Detailed anatomical description on request.

■ Ref.no. MP1809

2 Lower Limb superficial veins

This 3D printed specimen presents a superficial dissection of a left lower limb, from just proximal to the knee joint to a complete foot. The skin and superficial fascia have been removed to display the superficial venous structures of the leg including the dorsal venous plexus, great saphenous vein (including numerous tributaries), and the small saphenous vein (including numerous tributaries) on the crural fascia. Detailed anatomical description on request.

■ Ref.no. MP1815

3 Lower limb – superficial dissection

This 3D printed specimen represents the remainder of the lower limb portions of our male abdominopelvic and proximal thigh specimen (MP1765), sectioned proximally near midthigh and continuous to the partially dissected foot. The transverse section through the thigh exposes the neurovascular structures of the anterior, medial and posterior compartments. Detailed anatomical description on request.

■ Ref.no. MP1816



1 Lower Limb Musculature

This 3D printed specimen preserves a superficial dissection of the lower limb musculature from the mid-thigh to mid-leg, as well as nerves and vessels of the popliteal fossa. The insertions of the muscles of the anterior, middle and posterior compartments of the thigh are visible, including the pes anserinus medially and the iliotibial tract laterally. The capsule of the knee joint has been opened anteriorly to demonstrate the menisci and the tibial and fibular collateral ligaments. Detailed anatomical description on request.

■ Ref.no. MP1810



2 Lower Limb - deep dissection of a left pelvis and thigh

This 3D printed specimen presents a deep dissection of a left pelvis and thigh to show the course of the femoral artery and sciatic nerve from their proximal origins to the midshaft of the femur. Proximally, the pelvis has been sectioned along the mid-sagittal plane and the pelvic viscera are removed. In the pelvis the coccygeus muscle spans between the sacrum and iliac spine and the obturator artery and nerve entering the obturator canal superior to the obturator membrane. Detailed anatomical description on request.

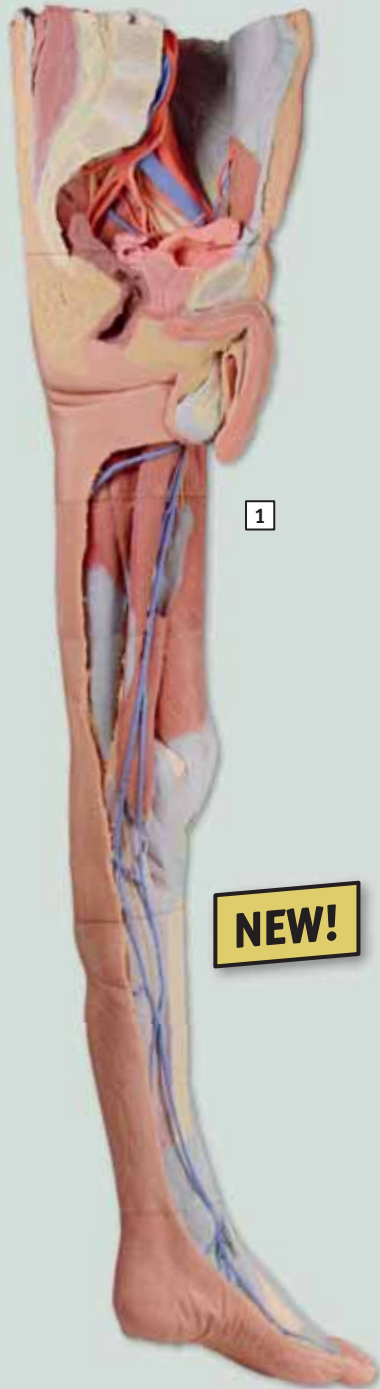
■ Ref.no. MP1813



3 Popliteal Fossa

This 3D printed specimen preserves the distal thigh and proximal leg, dissected posteriorly to demonstrate the contents of the popliteal fossa and surrounding region. The proximal cross-section demonstrates the anterior, posterior and medial compartment muscles, with the femoral artery and vein visible within the adductor canal. The sciatic nerve and great saphenous vein are also visible. Detailed anatomical description on request.

■ Ref.no. MP1830



◀ **1 Lower limb – superficial dissection with male left pelvis**

This 3D printed specimen combines the Lower limb – superficial dissection (Ref.no. MP1816, page 395) with the male left pelvis (Ref.no. MP1765, page 391). Detailed anatomical description on request.

■ Ref.no. MP1818

▼ **2 Foot - Parasagittal cross-section**

This 3D printed specimen provides a parasagittal cross-section through the medial aspect of the right distal tibia and foot, displaying the skeletal structures of the medial longitudinal arch of the foot and surrounding soft-tissue structures. Detailed anatomical description on request.

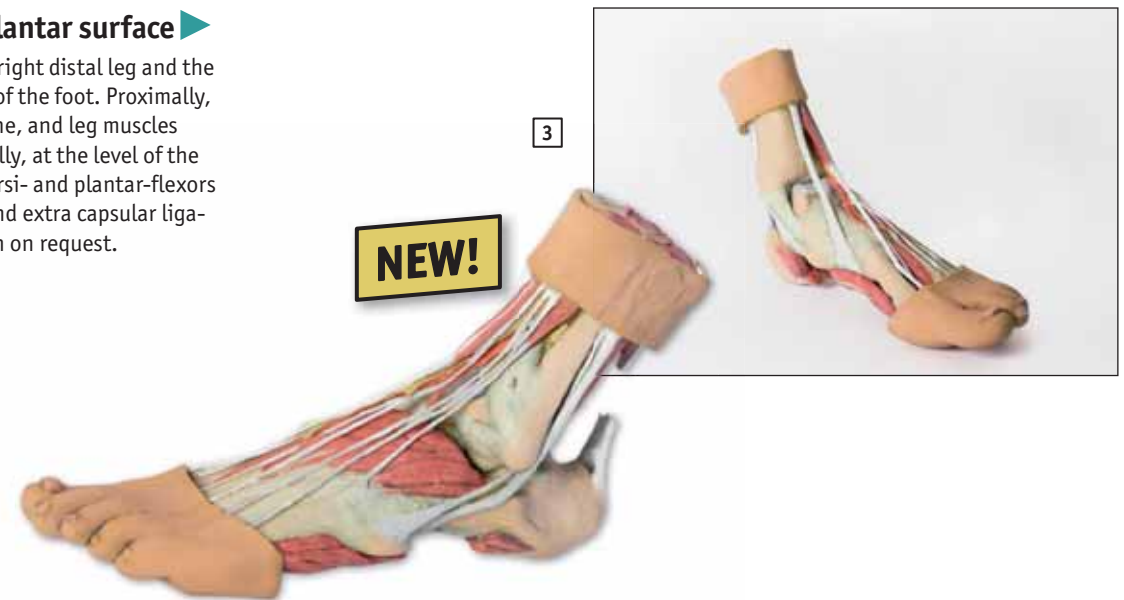
■ Ref.no. MP1850



3 Foot - Structures of the plantar surface ▶

This 3D print records the anatomy of a right distal leg and the deep structures of the plantar surface of the foot. Proximally, the tibia, fibula, interosseous membrane, and leg muscles are discernable in cross-section. Medially, at the level of the ankle joint, the long tendons of the dorsi- and plantar-flexors are visible superficial to the capsular and extra capsular ligaments. Detailed anatomical description on request.

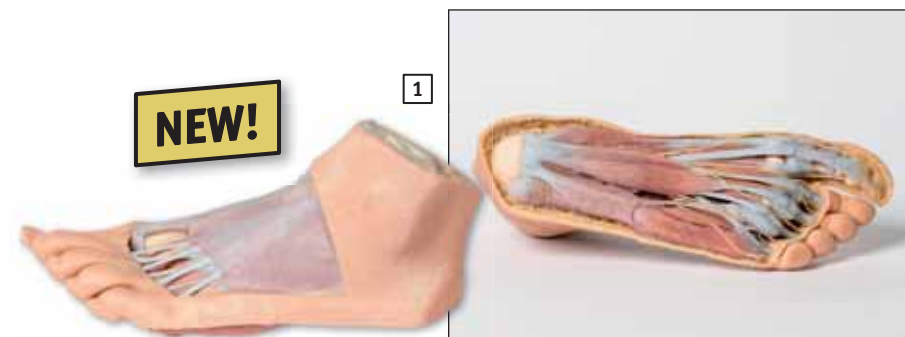
■ Ref.no. MP1900



1 Foot - Plantar surface & superficial dissection on the dorsum

This 3D printed specimen is a left foot with superficial structures exposed on the dorsum, and the superficial layer of muscles and nerves on the plantar surface. The anterior portion of the plantar aponeurosis has largely been removed to expose the first layer of muscles. Detailed anatomical description on request.

■ Ref.no. MP1910



2 Foot - Superficial and deep dissection of distal leg and foot

This 3D printed specimens preserves a mixed superficial and deep dissection of a left distal leg and foot. Posteriorly, the compartment muscles and neurovascular structures have been removed to isolate the tendocalcaneus and expose the body of the calcaneus. Detailed anatomical description on request.

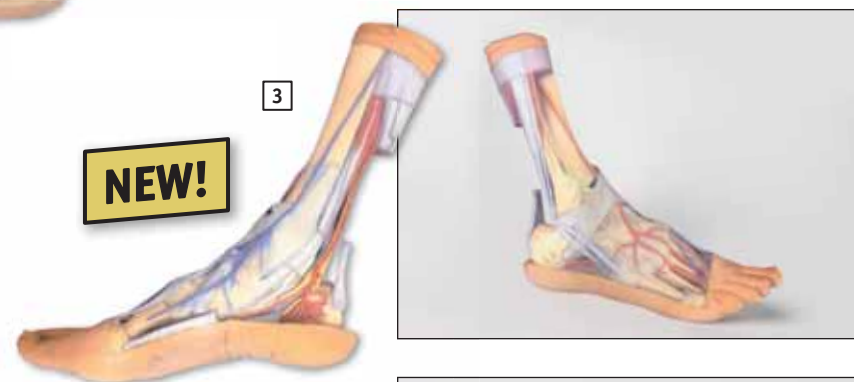
■ Ref.no. MP1920



3 Foot - Superficial and deep structures of the distal leg and foot

This 3D printed specimen presents both superficial and deep structures of a right distal leg and foot. Proximally, the posterior compartment of the leg has been dissected to remove the triceps surae muscles and tendocalcaneus to demonstrate the deep muscles of the compartment (tibialis posterior, flexor digitorum longus, flexor hallucis longus). Detailed anatomical description on request.

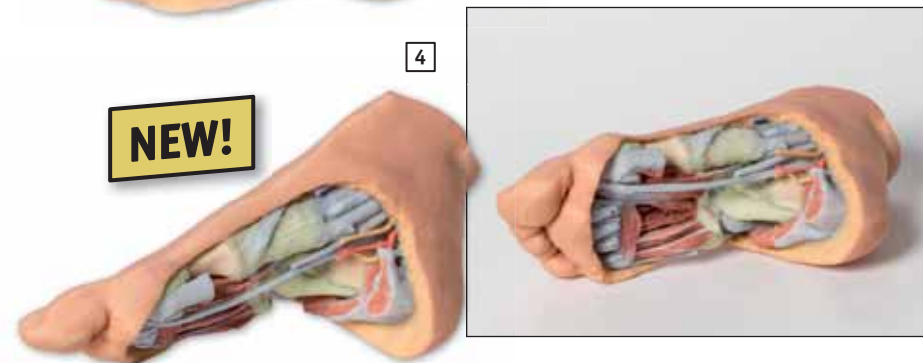
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4 Foot - Deep plantar structures

This 3D printed specimen provides a view of deep plantar structures of a right foot. Medially, the cut edge of the great saphenous vein is visible within the superficial fascia, just anterior to the cut edges of the medial and lateral plantar arteries and nerves overlying the insertion of the tibialis posterior muscle. The superficial fascias, the plantar aponeurosis, and superficial musculature have been removed to expose the deep (third layer) of musculature. Detailed anatomical description on request.

■ Ref.no. MP1940





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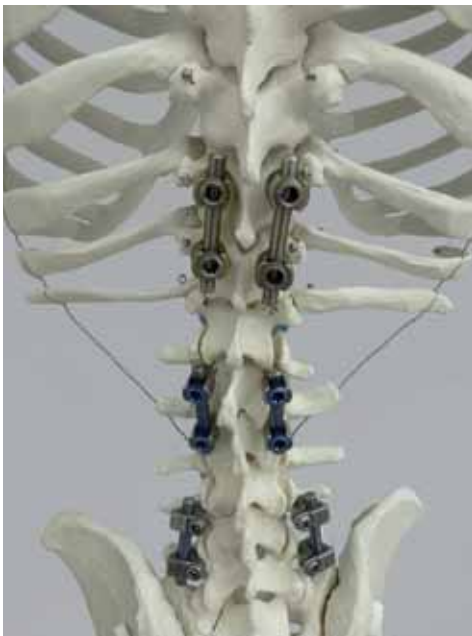


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