

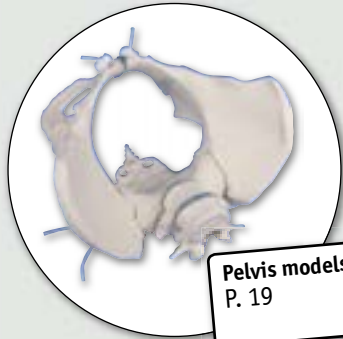


MARCA LAB

# ANATOMY

- Anatomical Models
- Anatomical Charts
- Medical Simulators
- Physiotherapy Supply

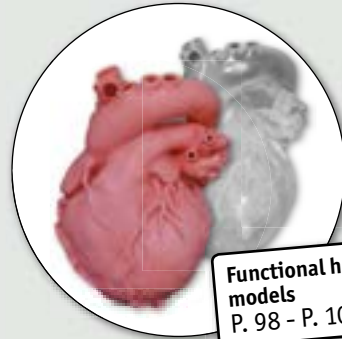
In this catalog you will find many new products – see some examples here:



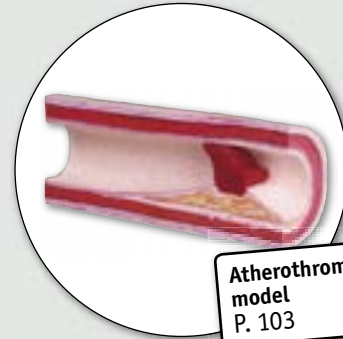
**Pelvis models**  
P. 19



**Transparent laryngopharynx model**  
P. 90



**Functional heart models**  
P. 98 - P. 101



**Atherothrombosis model**  
P. 103



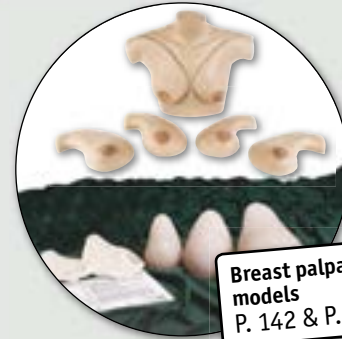
**Advanced birth torso**  
P. 127



**GYN/AID examination simulator**  
P. 138



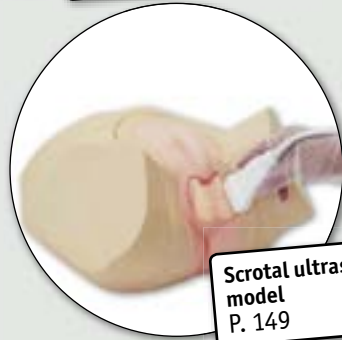
**Advanced pelvic examination simulator**  
P. 139



**Breast palpation models**  
P. 142 & P. 145



**ZACK Male health model**  
P. 148



**Scrotal ultrasound model**  
P. 149



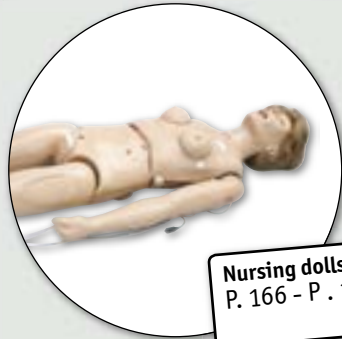
**Prostate and rectal Examination**  
P. 150



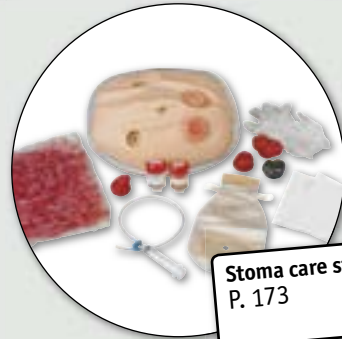
**Neonatal wound set**  
P. 156



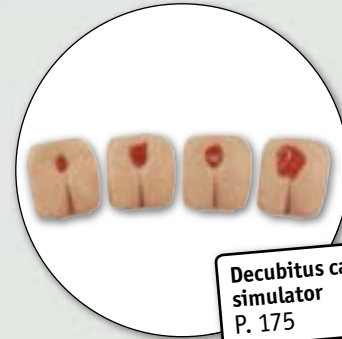
**Hip sonography training model**  
P. 158



**Nursing dolls**  
P. 166 - P. 167



**Stoma care simulators**  
P. 173



**Decubitus care simulator**  
P. 175



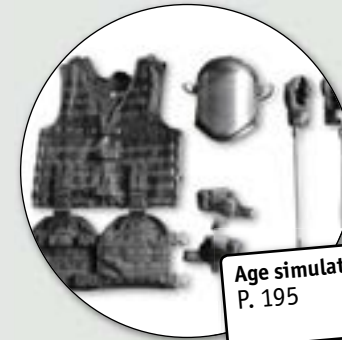
**Professional nursing wounds**  
P. 177



**Diabetic Injection**  
P. 184



**Foot problems**  
P. 186



**Age simulation**  
P. 195



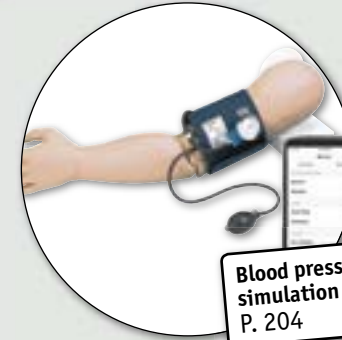
**Adipositas simulation**  
P. 196



**Ear examination**  
P. 200



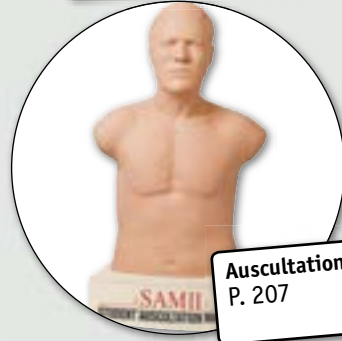
**Eye examination**  
P. 202



**Blood pressure simulation**  
P. 204



**Emergency backpacks**  
P. 205



**Auscultation trainers**  
P. 207



**Body-in-a-Box Port training model**  
P. 235



**Thoracentesis training models**  
P. 241



**IO training leg**  
P. 244



**Crico trainer**  
P. 246 - S. 247



**Supraglottic airway trainer**  
P. 248



**X-Ray baby trainer**  
P. 314



**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**.
- Oscar comes with a suspension ring, if necessary it can be hung on a special stand or on the ceiling.

*Size: 178 cm with stand*

*Weight: appr. 9 kg*

- Ref.no. 2960



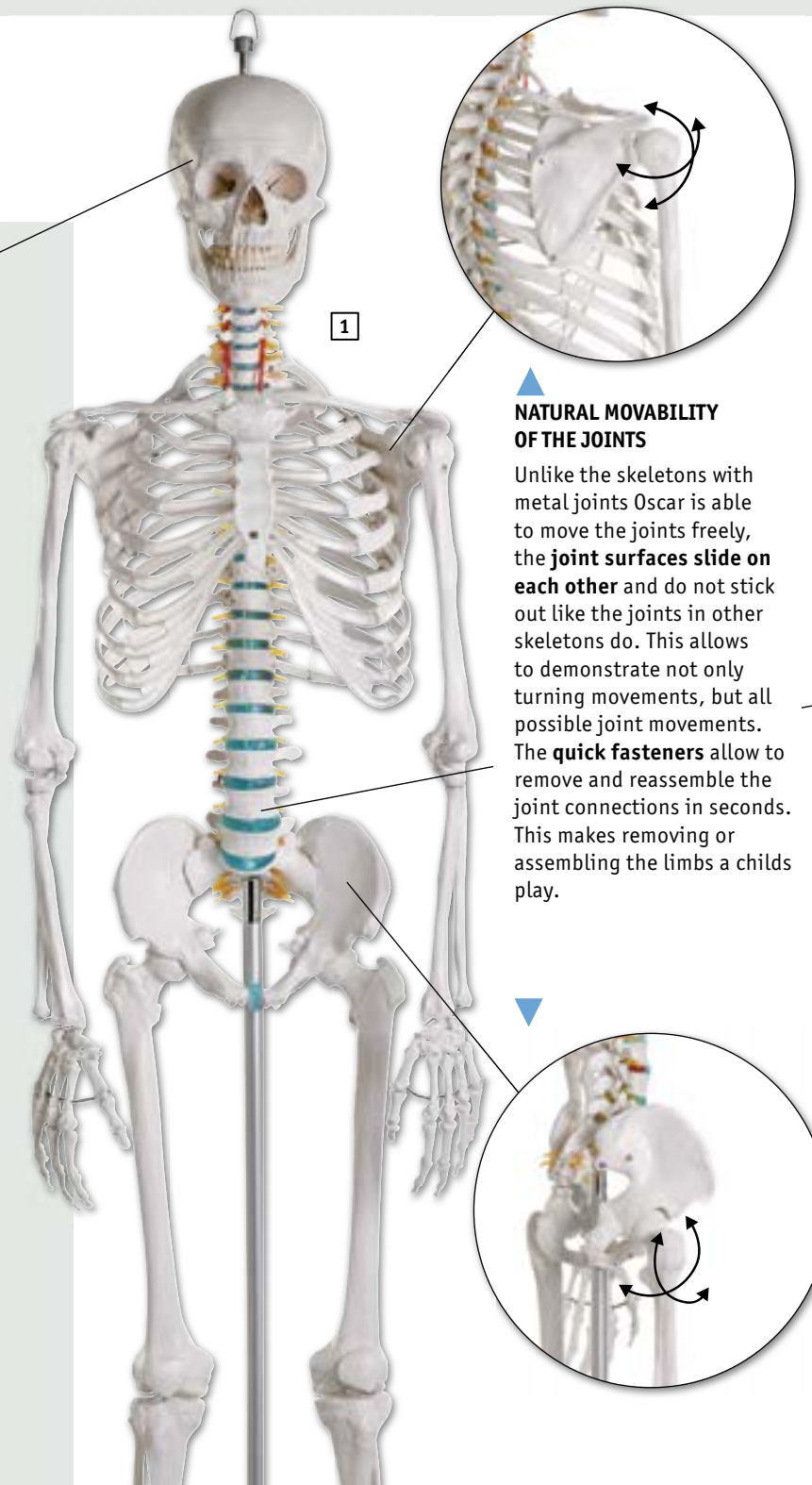


A suspension ring allows to hang the skeleton on the ceiling or a stand if required.



### 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.



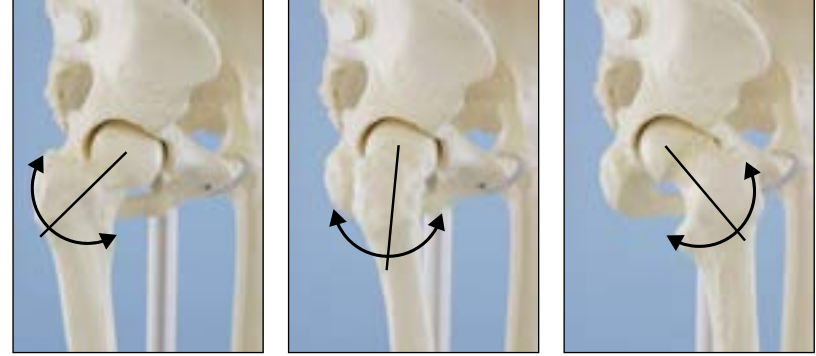
### NATURAL MOVABILITY OF THE JOINTS

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 child's 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.



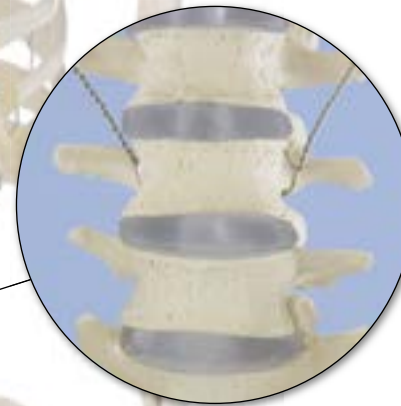
### Sliding joints

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.



### 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.



### 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

*Size: 176 cm, Weight: 9.5 kg*

- Ref.no. 3001

### Additional option:

## ▶ 2 Foot skeleton, mounted on rubber band

You may have one foot of the skeleton models mounted on rubber band to allow demonstration of the rolling movement. Just order this option additionally:

### Foot right, mounted on rubber

- Ref.no. 3018



2



1





### **Erlor-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.

Moveable Spine



## 1 Skeleton "Hugo"

This therapy skeleton with a **moveable 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 moveable vertebral column with flexible intervertebral discs and emerging spinal nerves

**Size: 176 cm, Weight: 9.5 kg**

■ Ref.no. 3014

### Additional option:

## 2 Foot Skeleton, mounted on rubber band

You may have one foot of the skeleton models mounted on rubber band to allow demonstration of the rolling movement. Just order this option additionally:

### Foot right, mounted on rubber

■ Ref.no. 3018



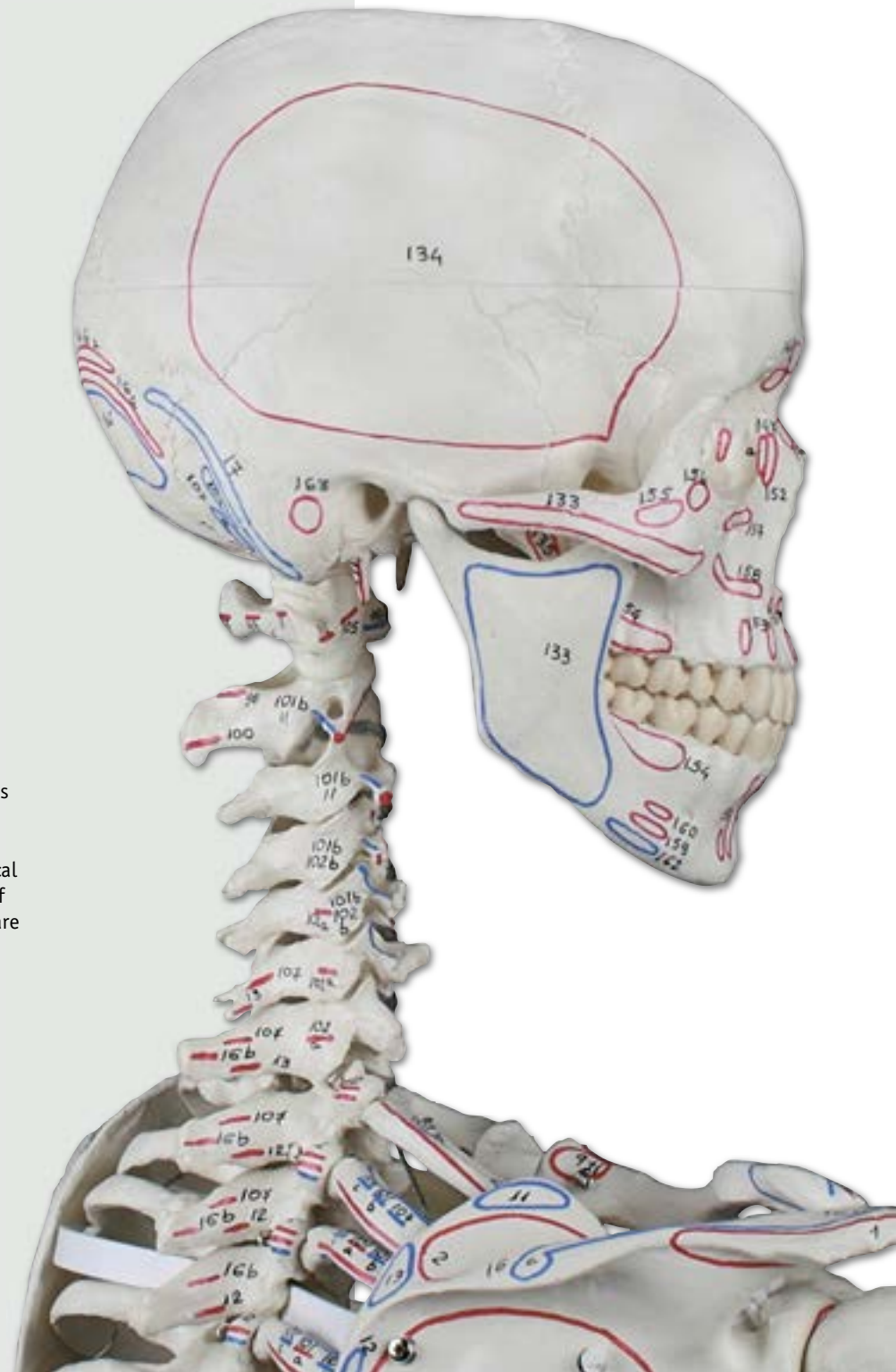
**Perfect for teaching  
and learning, ideal for  
exams preparation.**



### **Muscle marking**

#### **Perfect for Physiotherapy and students!**

The models Arnold, Bert, Peter, Max, Daniel and Fred have muscle markings. On the right side of the skeleton the muscle origins (red) and insertions (blue) are marked. The markings are developed together with the teachers of a physiotherapy academy and comply with the special needs of physiotherapists. The didactical order of the key card fits the didactical order of the physiotherapy education. Suitable books are mentioned in the key card.







Muscle Marking

### 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

**Size:** 176 cm, **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 moveable 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 moveable vertebral column with flexible intervertebral discs and emerging spinal nerves

**Size:** 176 cm, **Weight:** 9.5 kg

■ **Ref.no.** 3015

#### Additional option:

### 3 Foot skeleton, mounted on rubber band

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

Just order this option additionally:

#### Foot right, mounted on rubber

■ **Ref.no.** 3018



3



With detailed manuals!

1 + 2



Muscle Marking

Moveable Spine





1

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



2

Articular Ligaments  
Moveable Spine

### 2 Skeleton "Toni"

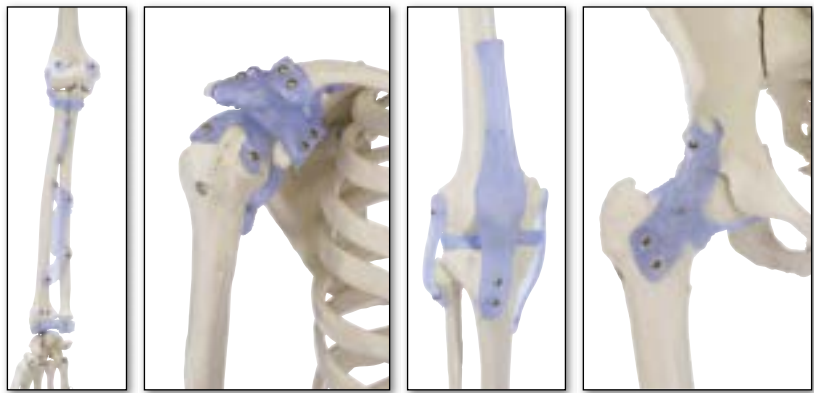
This therapy skeleton offers articular ligaments on one body side in addition to the moveable vertebral column.

**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 moveable 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 skeleton, mounted on rubber band

You may have one foot of the skeleton models mounted on rubber band to allow demonstration of the rolling movement. Just order this option additionally:

**Foot right, mounted on rubber**

■ Ref.no. 3018



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.

**Size: 176 cm, weight: 9.5 kg**

■ Ref.no. 3010



4

Articular Ligaments

Muscle Marking

Moveable Spine

### 4 Skeleton "Max"

This therapy skeleton offers marking of the muscle origins and insertion points on one body side in addition to the moveable 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 moveable vertebral column with flexible intervertebral discs and emerging spinal nerves

With detailed manual.

**Size: 176 cm, 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

### 1 Miniature – Skeleton “Patrick”

Scaled down reproduction of a human skeleton in ½ life size. Arms and legs are fully moveable; 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

### 2 Miniature – Skeleton “Daniel”, with muscle markings

Scaled down reproduction of a human skeleton in ½ life size. Arms and legs are fully moveable, 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 an key card. The model can be easily removed from the stand.

**Size without stand 81 cm.**

■ Ref.no. 3035

Best Price

Muscle Marking

### 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



3



▲ **1** Miniature-Skeleton “Paul”,  
with moveable spine

Scaled down reproduction of a human skeleton in ½ life size. Arms and legs are fully moveable; 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 moveable 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 moveable spine and muscle markings

Scaled down reproduction of a human skeleton in ½ life size. Arms and legs are fully moveable, 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 moveable 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



### 2 Child Skeleton, 5 year old

First class cast of a real human child skeleton. All bones are represented in high detail. All structures are reproduced detailed; special coloring makes the bones look very realistic and difficult to distinguish from real bones. Arms and legs do have limited range of motion, the skull can be removed. Supplied with stand.

**Size: 95 cm**

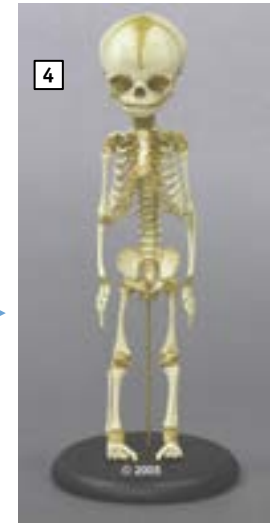
■ Ref.no. 2800

### 3 Child skeleton 14 to 16 month-old

First class cast of a real human child skeleton. All Fissures and Foramen are reproduced carefully. The limbs are limited moveable. It shows the unfused epiphyses of the long bones, and the cartilaginous margins of many of the bones which is typical at this age of development. Supplied with stand.

**Size: 65 cm**

■ Ref.no. 2870

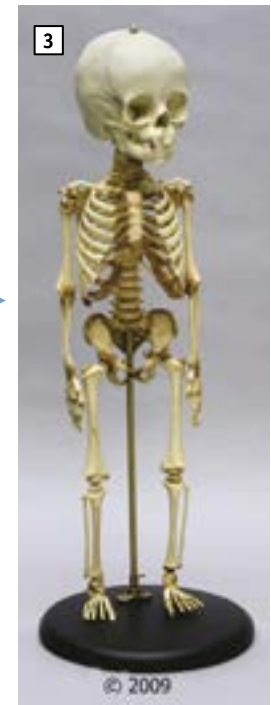


### 4 Fetus Skeleton, 30th week

First class actual cast of a real human Fetus skeleton in the 30<sup>th</sup> week of pregnancy. All parts have been reproduced and colored very carefully. The model is not movable and comes with a stand.

**Size: approx. 40 cm**

■ 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**

### 3 Skeleton, unassembled, with muscle marking (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. Muscle insertions and origins are marked in color and described in a nomenclature. Not suitable for self-assembly. Supplied in storage carton.

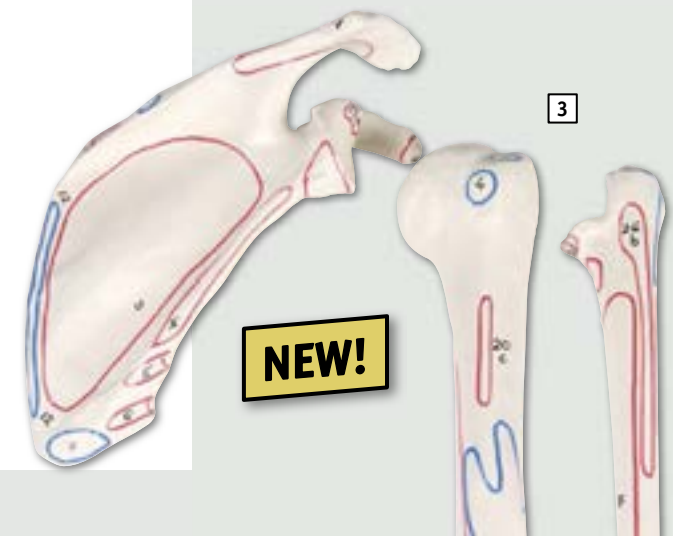
**Weight: 7.3 kg**  
**Ref.no. 3023**

### 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)
- 3084 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**

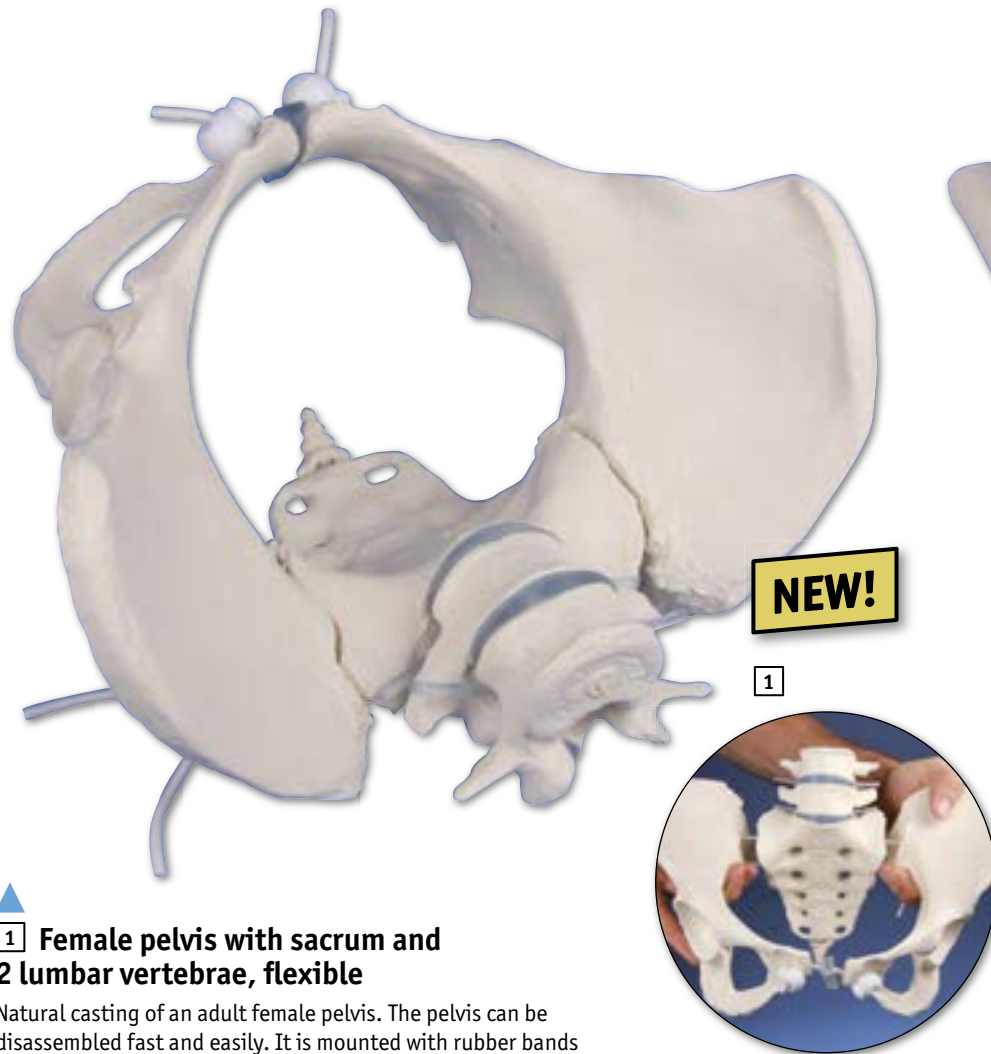
Natural casting of an adult female pelvis. The sacrum is removable and the movements in the iliosacral joint can be demonstrated. The vertebrae are mobile mounted and the femoral stumps are moveable and removable.

■ 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 moveable and removable.

■ Ref.no. 4057 (not pictured)



**1 Female pelvis with sacrum and 2 lumbar vertebrae, flexible**

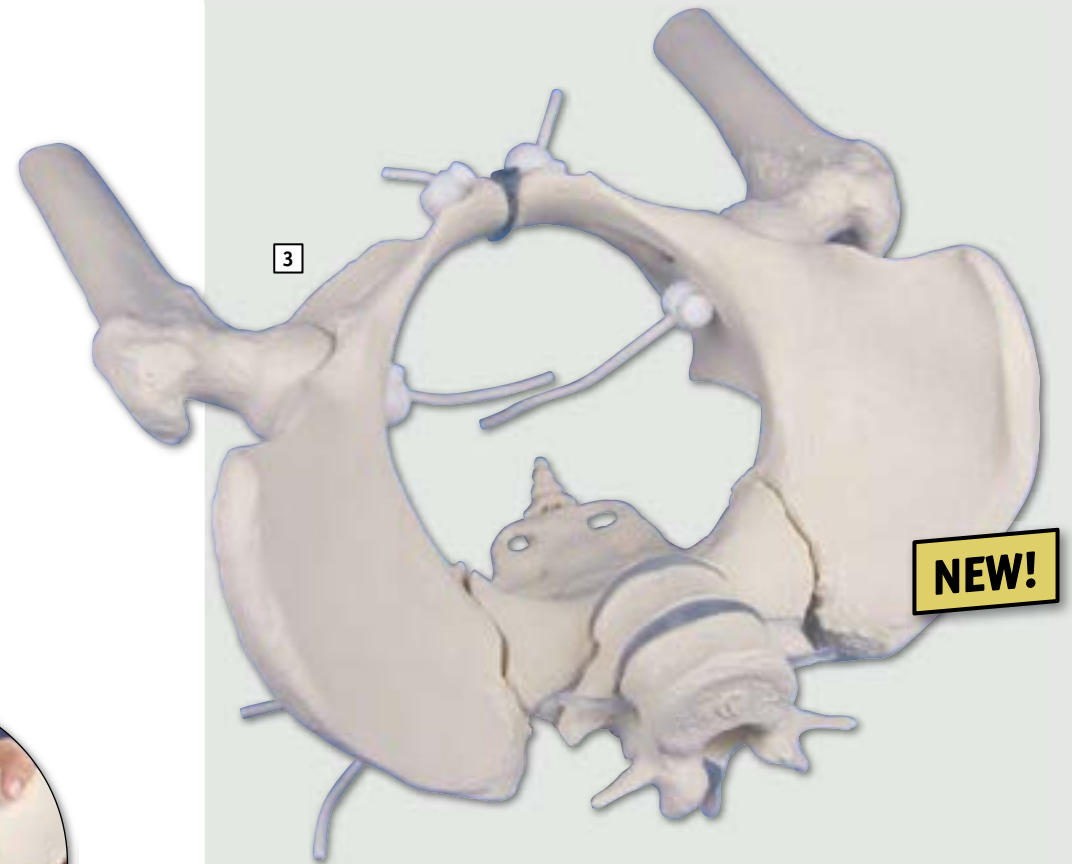
Natural casting of an adult female pelvis. The pelvis can be disassembled fast and easily. It is mounted with rubber bands completely to allow an exceptional range of movement. With flexibly mounted L5 and L4.

■ 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 moveable and removable.

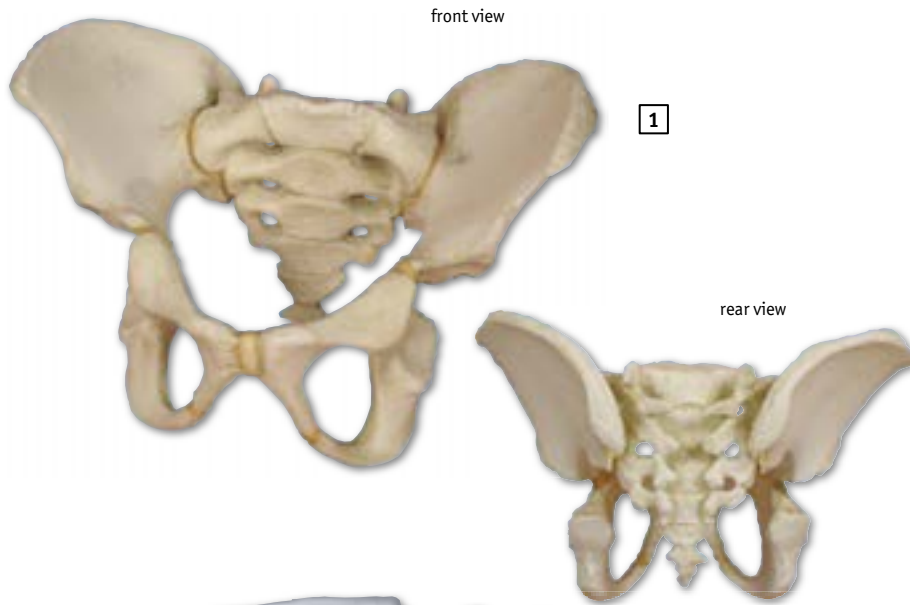
■ Ref.no. 4059G



▼ **1 Pelvis of a 5 year old child**

Actual cast of a real human bony child pelvis. This model is particularly suitable for explanation of the pelvis development during growth. The one-part model is not movable.

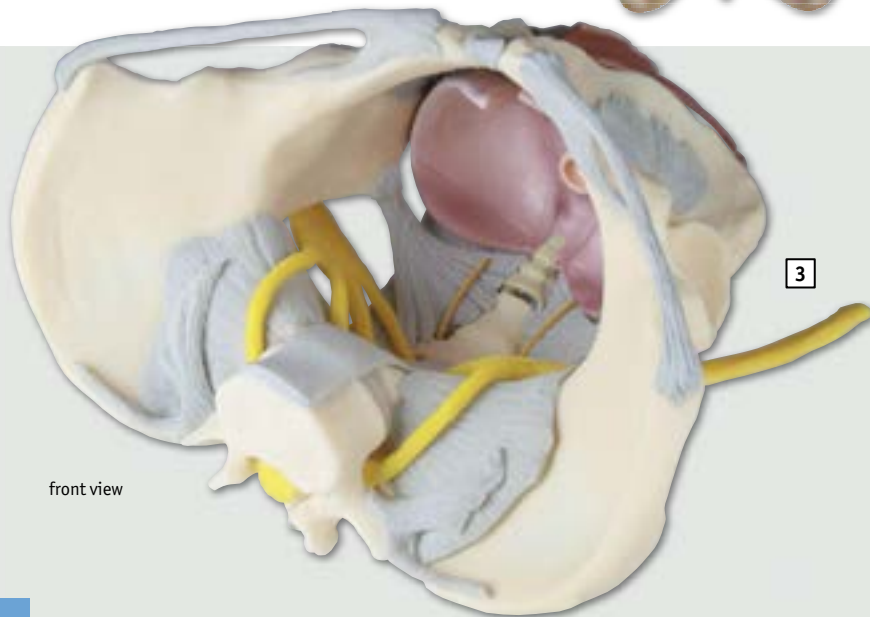
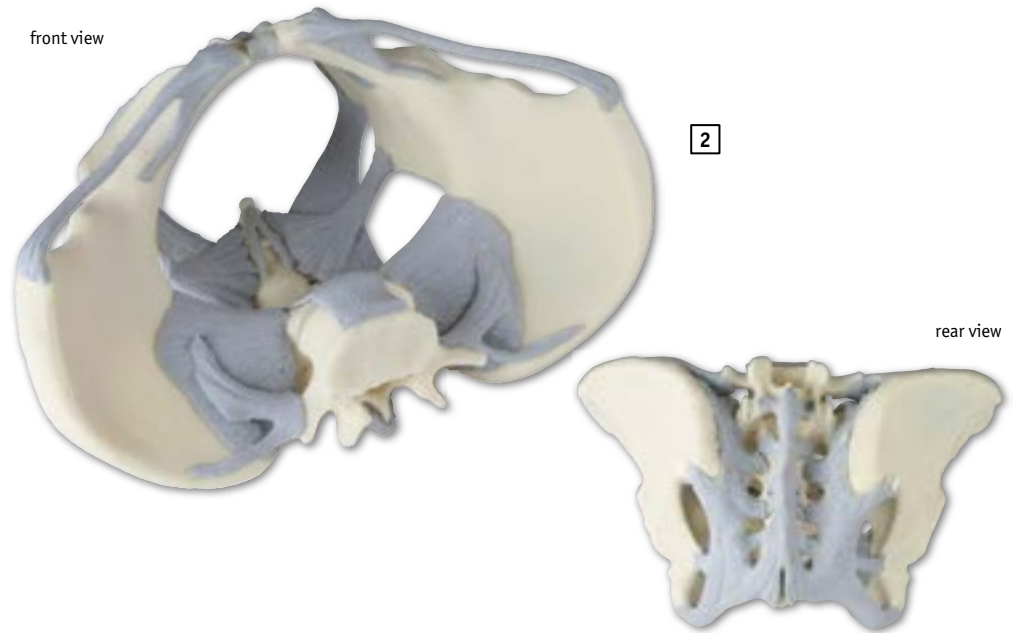
■ Ref.no. 4051



▼ **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

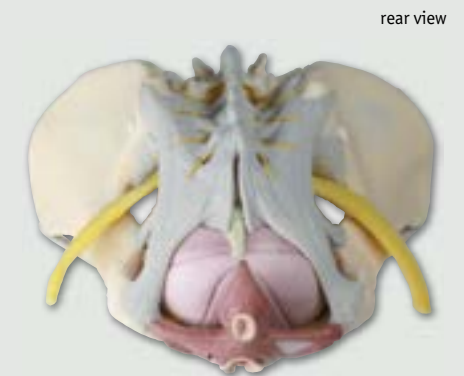


▶ **3 Female pelvis with Ligaments, Nerves and Pelvic Floor**

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



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)

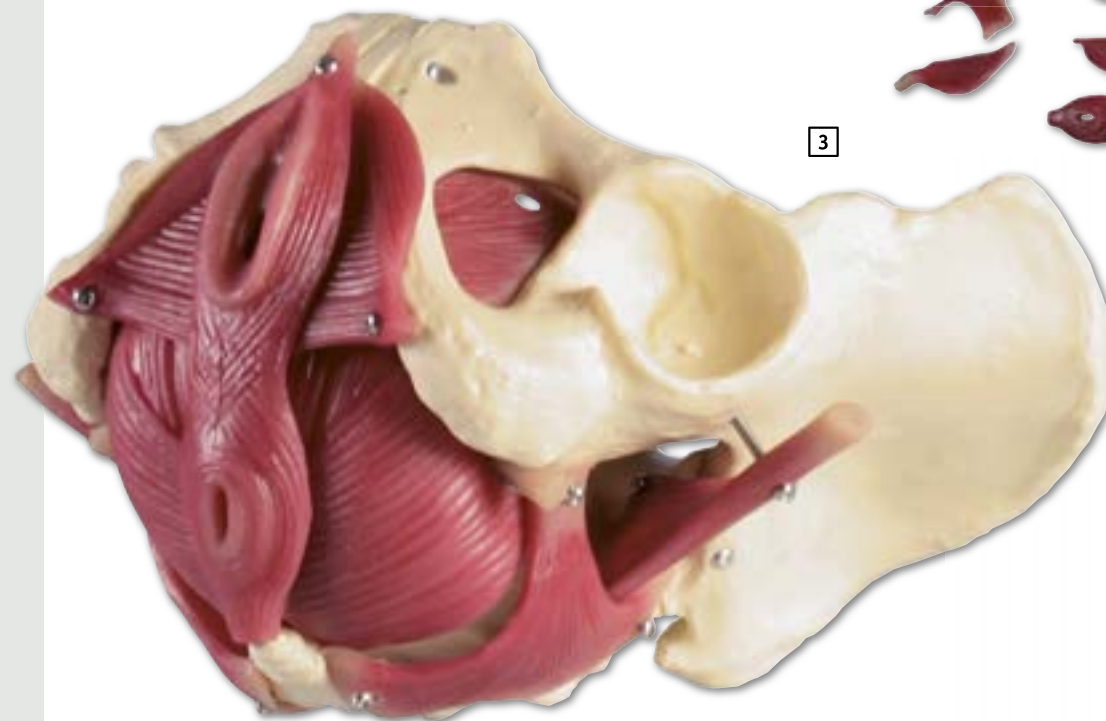
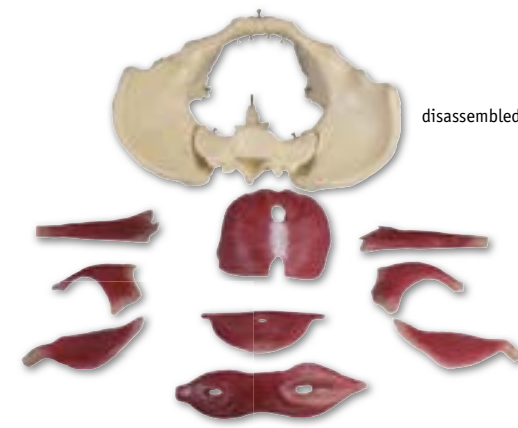
Together with the two hip bones and the sacrum the model consists of 12 parts in total. The muscles are fixed with pins, allowing to remove them for demonstration of the layers.

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





**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 moveable 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 moveable 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  
moveable!**



**Flexible intervertebral discs!**



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 Vertebral column with removable pelvis

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 special flexible intervertebral discs behave like natural intervertebral discs. The spinal nerves and vertebral artery are also represented.

**Size: 70 cm**

**Weight: 1.8 kg**

■ With removable stand Ref.no. 4009

■ Without stand Ref.no. 4006

### 2 Vertebral column with removable pelvis, femoral stumps

Highest quality natural casting of a human vertebral column with removable pelvis, femoral stumps. The model is mounted on a flexible metal spiral hose, which renders the vertebral column robust and simultaneously highly mobile. The special flexible intervertebral discs behave like natural intervertebral discs. The spinal nerves and vertebral artery are also represented. The model is push-fitted on to the stand and is easy to remove.

■ With removable stand Ref.no. 4014

■ Without stand Ref.no. 4014/1





1

### 1 Vertebral column with removable pelvis, plus muscle markings

Highest quality natural casting of a human vertebral column with removable pelvis. The muscle insertions and origins are marked in color and numbered. The model is mounted on a flexible metal spiral hose, which renders the vertebral column robust and simultaneously highly mobile. The special flexible intervertebral discs behave like natural intervertebral discs. The spinal nerves and vertebral artery are also represented. The model is push-fitted on to the stand and is easy to remove. With nomenclature.

- With removable stand Ref.no. 4011
- Without stand Ref.no. 4011/1
- With femur stumps and stand Ref.no. 4012



2

### 2 Vertebral column with removable pelvis, didactical colored

Highest quality natural casting of a human vertebral column with removable pelvis. The cervical, thoracic and lumbar spine is finished in different colors for better differentiation. The model is mounted on a flexible metal spiral hose, which renders the vertebral column robust and simultaneously highly mobile. The special flexible intervertebral discs behave like natural intervertebral discs. The spinal nerves and vertebral artery are also represented. The model is push-fitted on to the stand and is easy to remove.

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



Cervical

Thoracic

Lumbar



### Spine with prolapse and pelvis

Actual cast of a real human spine in highest quality with removable pelvis. The intervertebral discs are made of plastic and show a prolapse between L2 and L3. The model is mounted on a flexible metal hose and due to this extremely moveable and strong enough for intensive use at the same time. Spinal nerves and vertebral artery are represented.

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

- 1 Version with stand  
■ Ref.no. 4032
- 2 Version without stand  
■ Ref.no. 4024

### Spine with femur stumps, prolapse and pelvis

Actual cast of a real human spine in highest quality with removable pelvis. The intervertebral discs are made of plastic and show a prolapse between L2 and L3. The model is mounted on a flexible metal hose and due to this extremely moveable and strong enough for intensive use at the same time. Spinal nerves and vertebral artery are represented. With femur stumps.

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

- 3 Version with stand  
■ Ref.no. 4033
- 4 Version without stand  
■ Ref.no. 4033/1







**1 Flexible vertebral column**

A flexible 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. Mounted on a stand for hanging.

**Size: 75 cm, Weight: approx. 2.5 kg**

■ Ref.no. A250

1

**Bestseller!**



**3 Flexible vertebral column with femur heads**

A flexible life size vertebral column consisting of the occipital plate; cervical, thoracic and lumbar vertebrae; sacrum; coccyx; complete pelvis with symphysis; and removable femur heads. The model also features representations of the vertebral arteries, spinal nerve branches, and a prolapsed L3-L4 intervertebral disc. Mounted on a stand for hanging.

**Size: 85 cm, Weight: approx. 2.9 kg**

■ Ref.no. A251

3

**2 Storage bag for vertebral column models**

Very well suited to the transport of vertebral column models, arms or legs to training events, courses and similar. The bag is very easy to carry and versatile in use.

**Size: 70 x 35 x 33 cm, Weight: 0.3 kg**

■ Ref.no. 3022



2



2



1

### 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



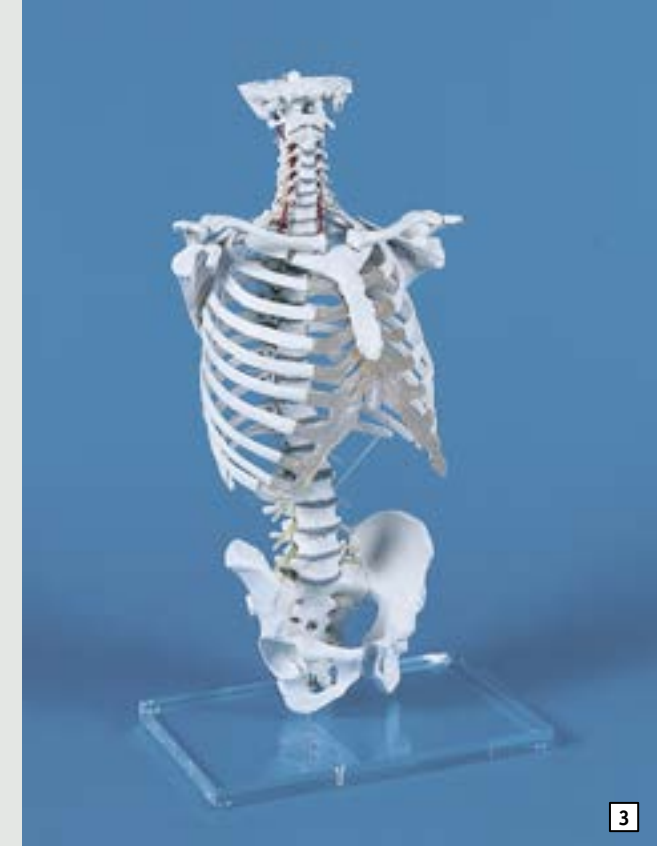
2

### 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



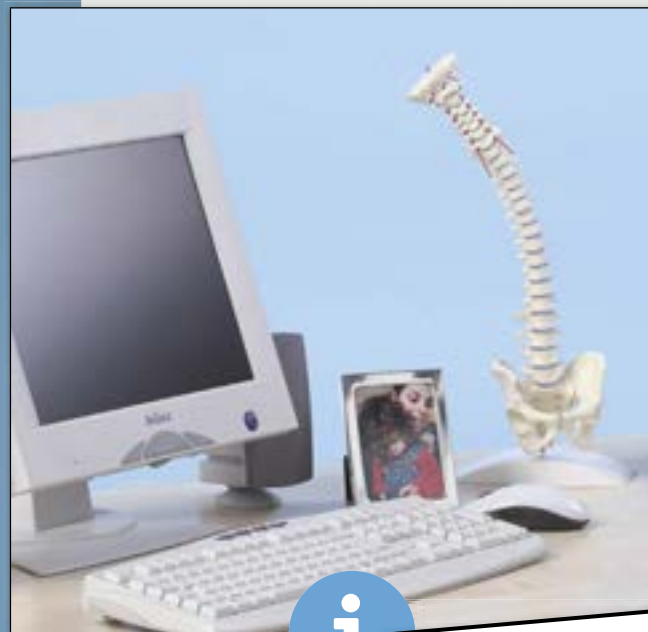
3

### 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. ½ life size. All bones are individually represented. This fully moveable 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

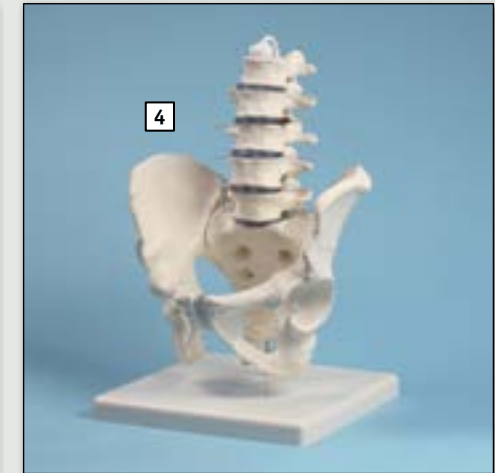
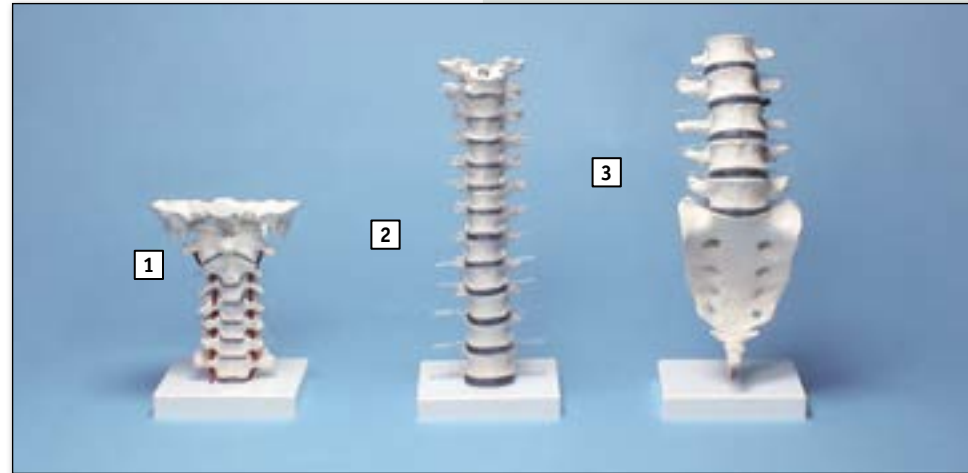
Th1 to Th12 are flexibly mounted. With spinal cord and emerging spinal nerves. All movements in the thoracic spine area can be demonstrated.

■ 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 removable stand Ref.no. 4036



### 4 Lumbar spine with pelvis

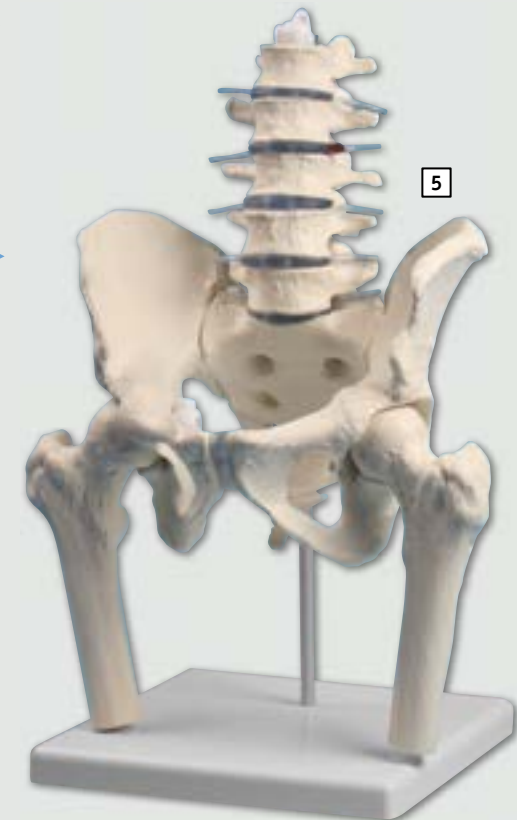
5 lumbar vertebrae with sacrum, additionally with removable pelvis.

■ Ref.no. 4040

### 5 Lumbar spine with pelvis and femoral stumps

5 lumbar vertebrae with sacrum, additionally with removable pelvis and femoral stumps.

■ Ref.no. 4045

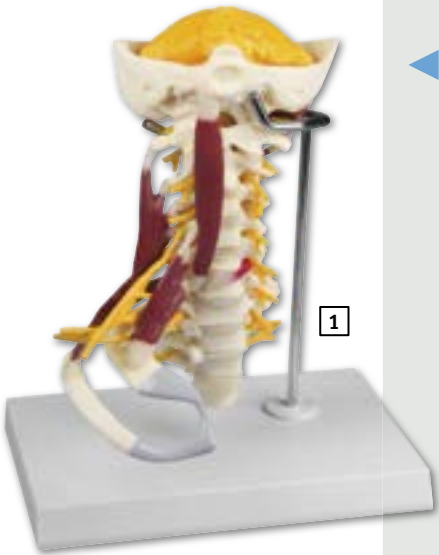


**NEW!**

### 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 Muscled Cervical Spine

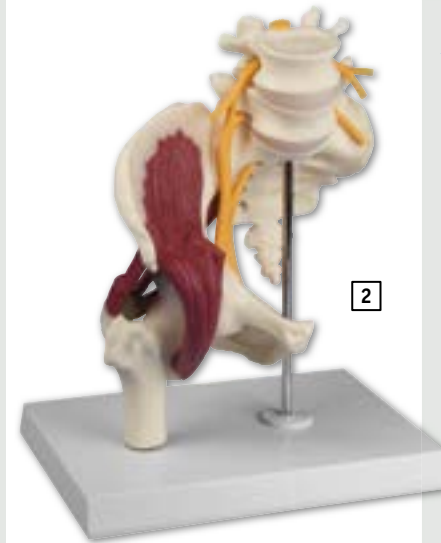
Full size model features brain stem, occipital bone, atlas and axis through C7, with herniated disc, T1 and T3.

**This model has** a soft cerebellum, full nerve with right side brachial plexus. Muscles include suboccipital triangle, longus capitis, levator scapulae, scalenus medius posterior and anterior.

The right first and second ribs are also featured and include cartilage.

**Size:** 14 x 16.5 x 25.5 cm

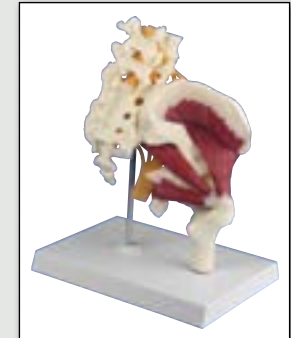
■ Ref.no. 4035



### 2 Muscled Hip with Sciatic Nerve

Full size normal right hip with proximal femur and lower lumbar vertebrae including: sciatic nerve, gluteus medius, gluteus minimus, iliacus, inferior and superior gemellus, obturator internus, piriformis and psoas muscles, articular capsule ligaments, L4-L5 with sacrum.

■ Ref.no. 4049



rear view



### 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,**

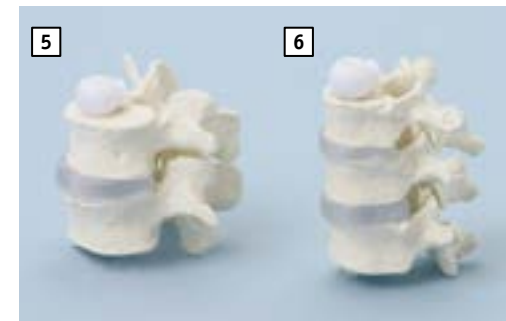
elastically mounted. Two elastically mounted lumbar vertebrae with intervertebral discs, can be dismantled. Ideal when travelling; fits in trouser pocket.

■ **Ref.no.** 4090

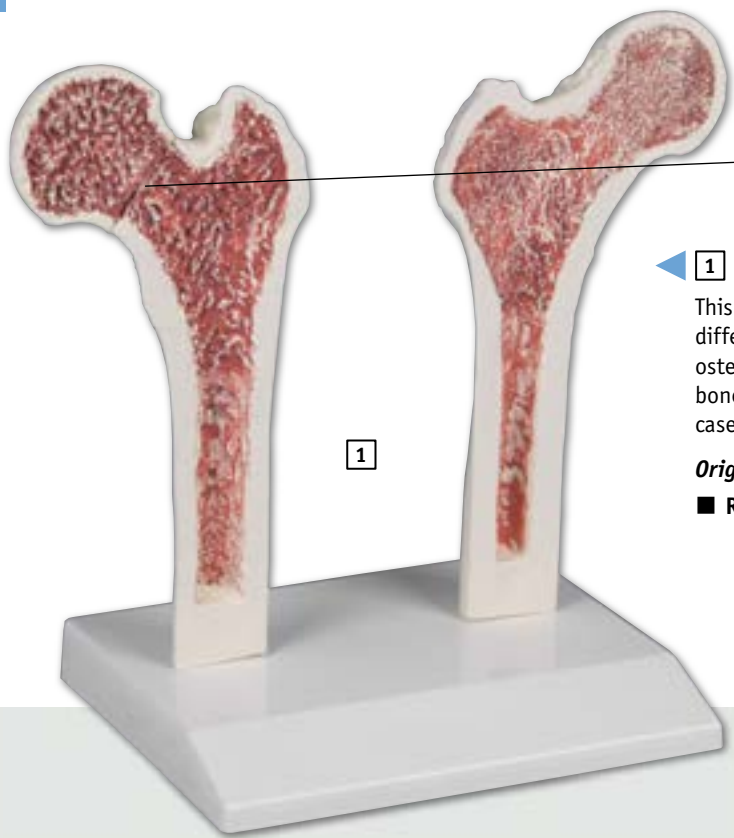
**6 3 thoracic vertebrae,**

elastically mounted. Three elastically mounted thoracic vertebrae with intervertebral discs, can be dismantled. Ideal when travelling; fits in trouser pocket.

■ **Ref.no.** 4092





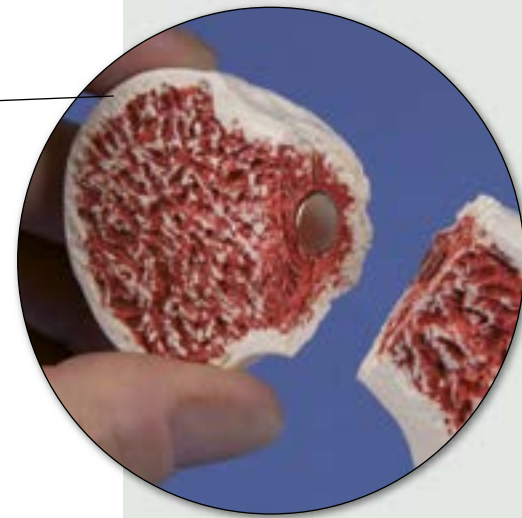


**1 Osteoporosis Femur**

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



**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

2





1

### 1 Osteoporosis Stages, disc model

4 discs show with enlarged cross sections the progressive thinning of trabeculae bone that occurs due to osteoporosis. With educational card.

*Diameter: 10 cm, Height: 4 cm*

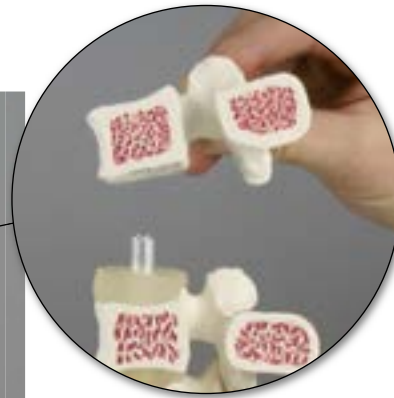
■ Ref.no. 4065



Healthy



Stage 4



2



### 2 Osteoporosis vertebrae model, 3 vertebrae

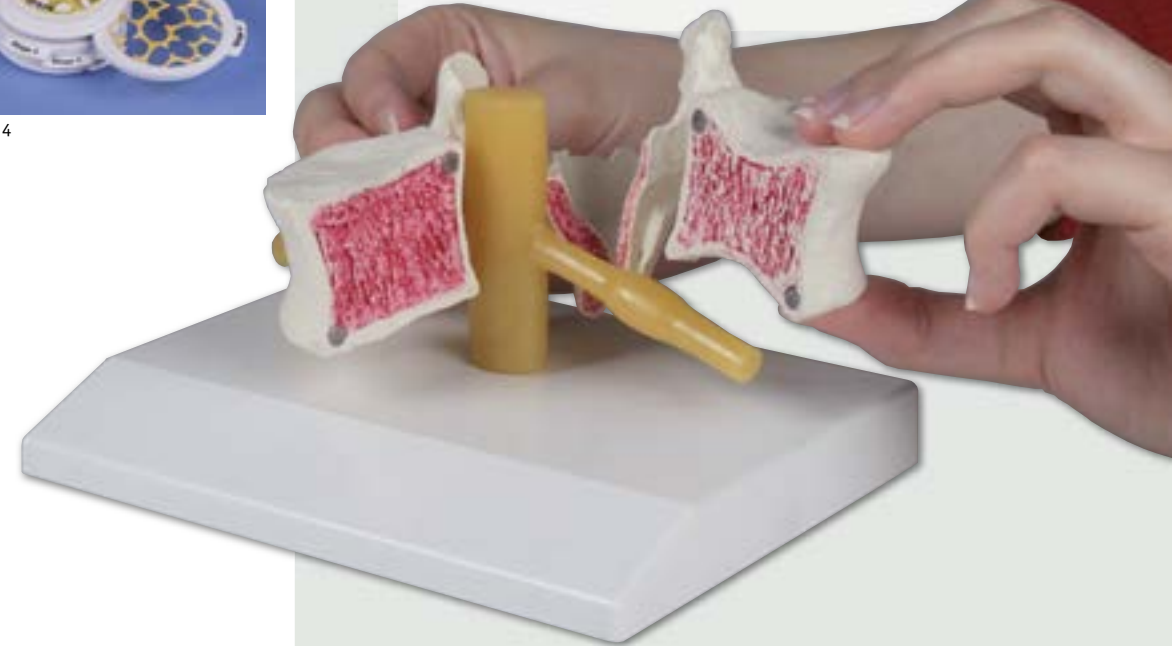
This model consists of three medially cut lumbar vertebrae with intervertebral discs. A healthy bone structure is represented on the surface of the upper vertebra and an osteoporotic bone structure on the middle vertebra. The lower vertebra shows osteoporosis at a markedly advanced stage with crushed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

*Size: 16 cm*

■ Ref.no. 4078



3

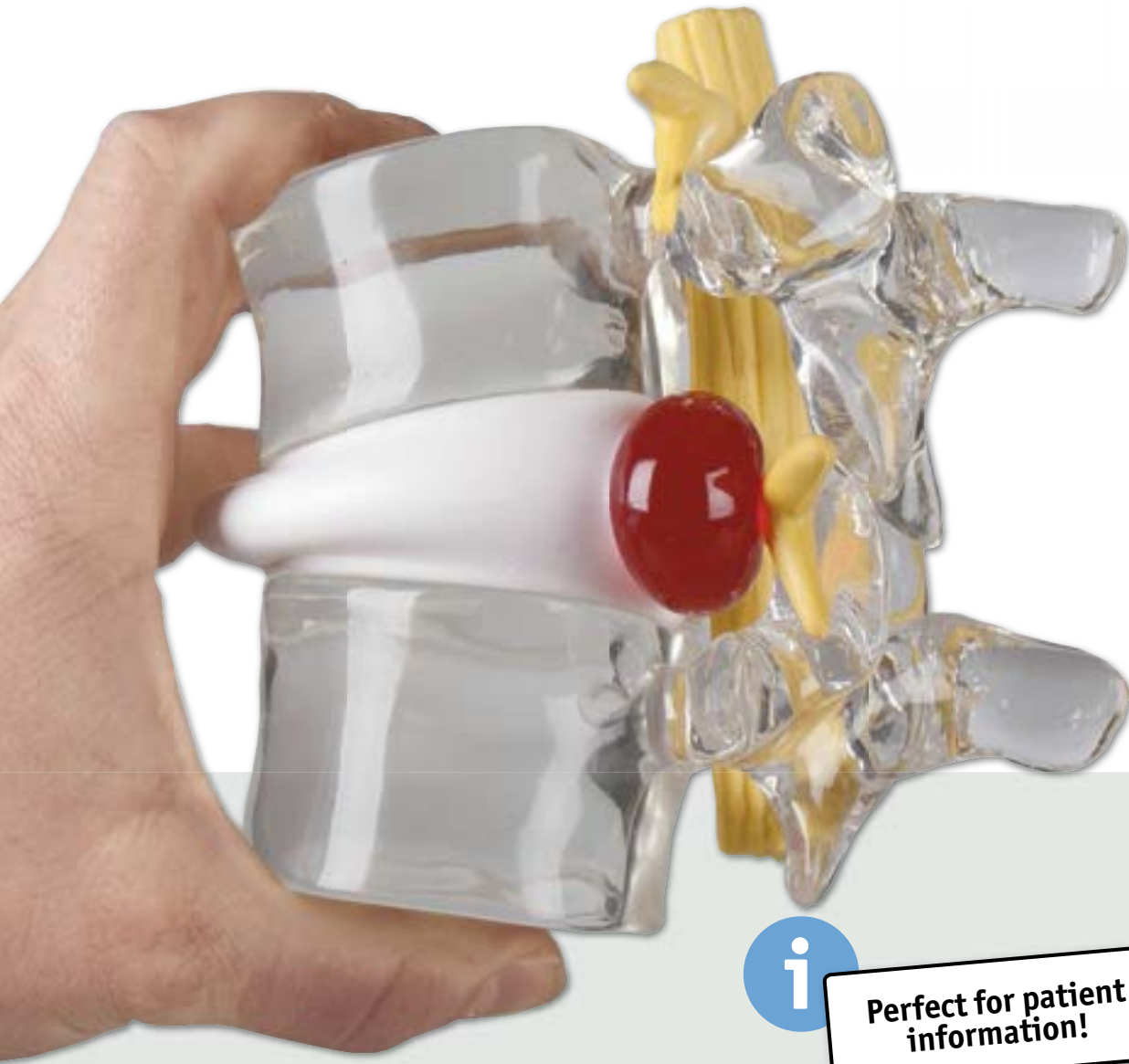


### 3 Osteoporosis vertebra, 2 times life size

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 side. 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



**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



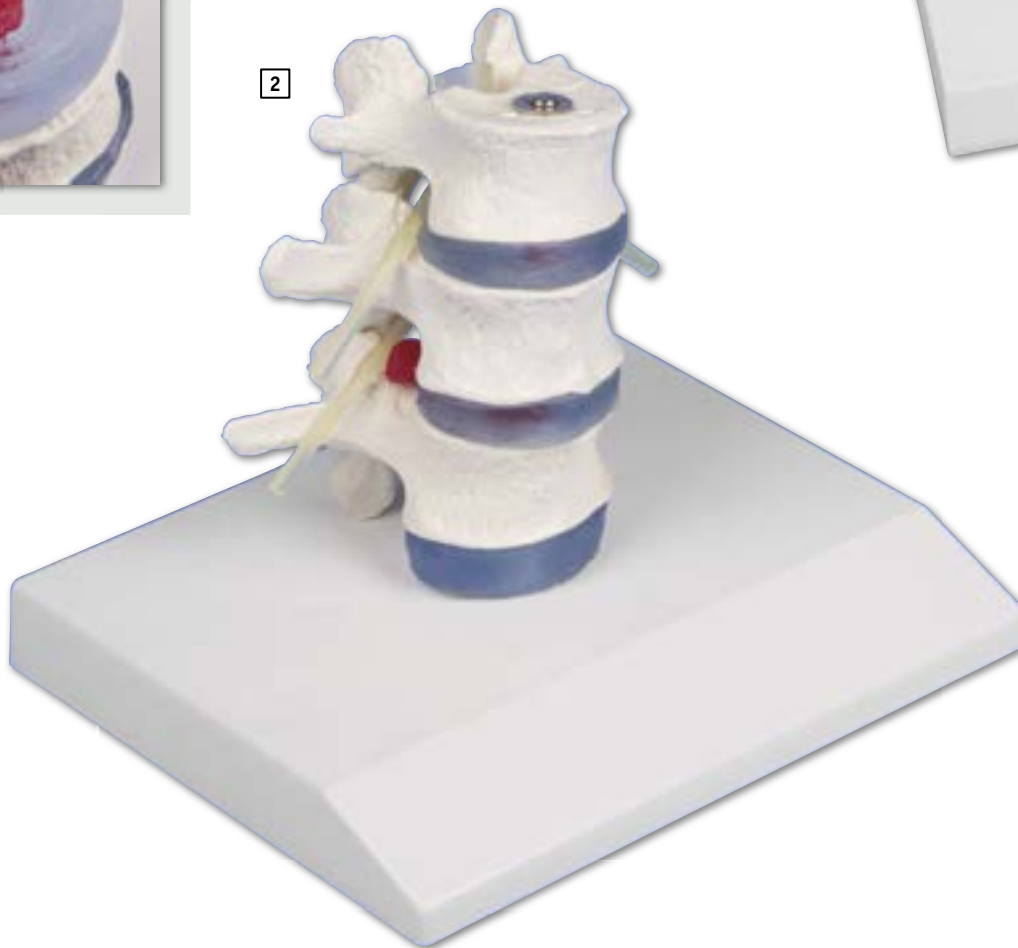
## 2 Lumbar vertebrae with prolapsed intervertebral discs

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.

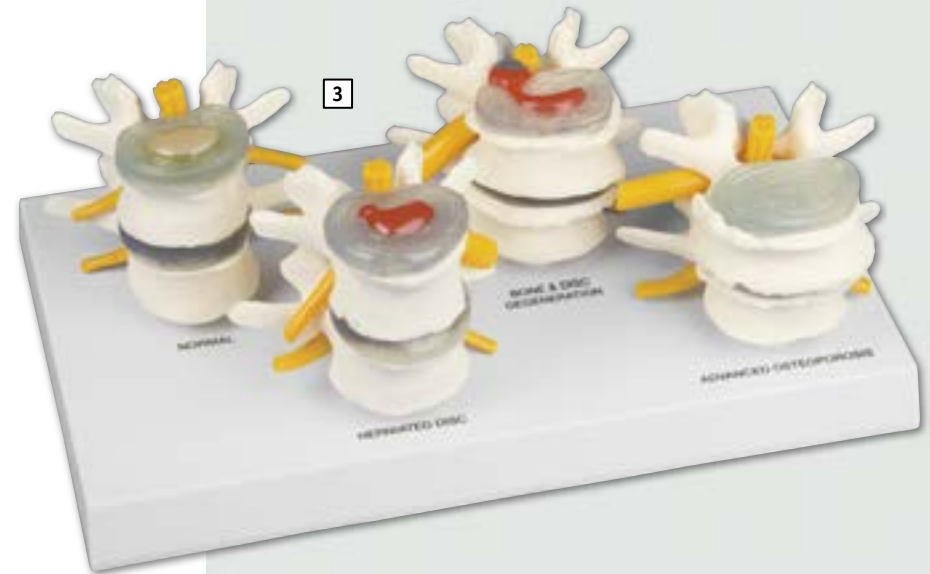
■ With removable stand Ref.no. 4047

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

2



3



## 3 Disc model

This model shows the stages of disc diseases. Each single model consists of two vertebrae, discs and nerves. Model 1 shows normal condition, model 2 a prolapsed disc. Model 3 and 4 show further damage of disc and vertebrae. Each model can be detached from the stand separately.

■ Ref.no. 7576

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 **Chart „The vertebral column“**

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

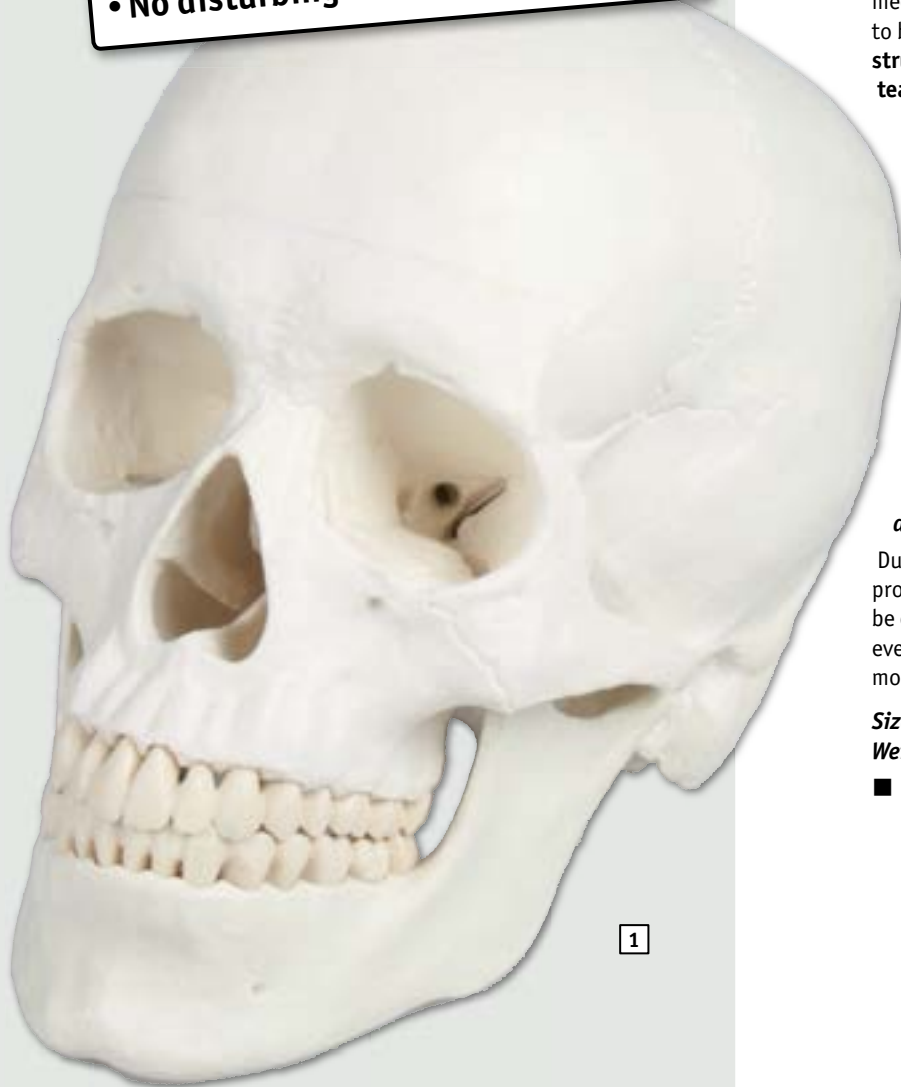
■ Ref.no. AL107

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



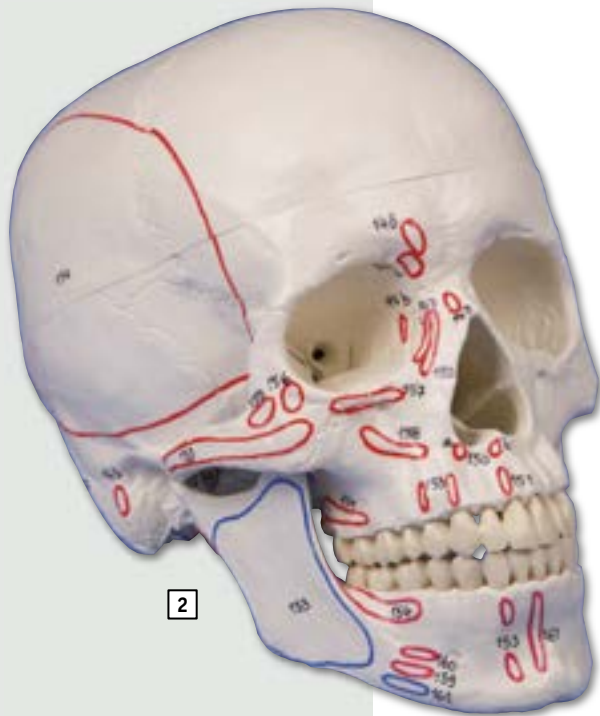
**2 Skull model, 3-part, with muscle marking**

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

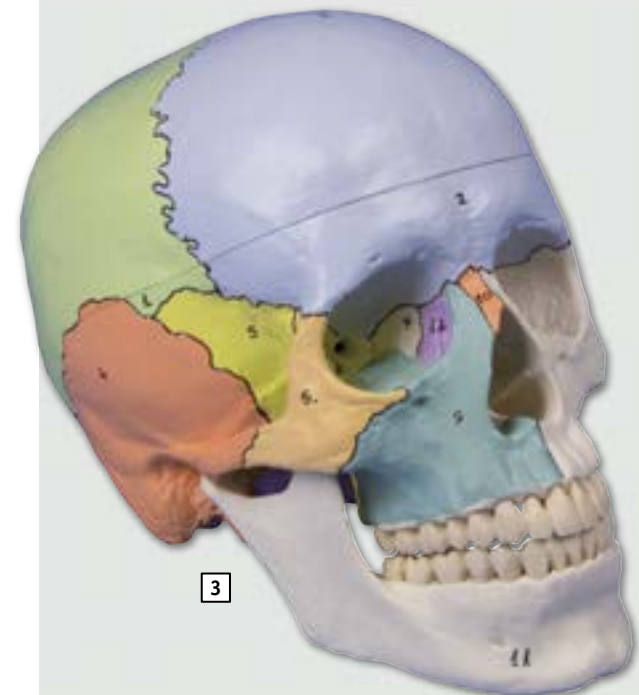


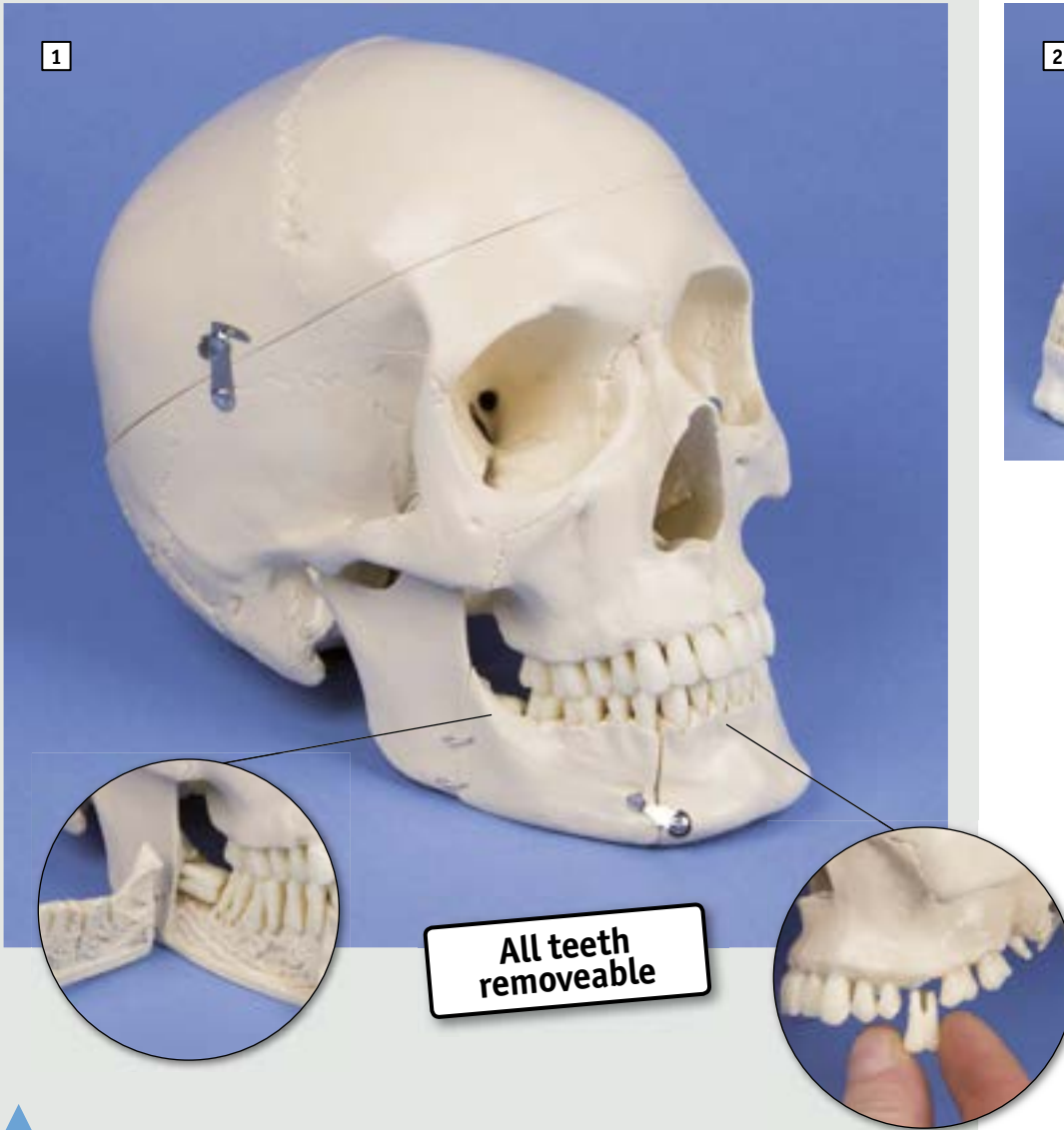
**3 Skull model, 3-part, didactical painted**

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





### 1 Dental skull, 4-part

The teeth in the upper and lower jaw can be extracted and reinserted. The mandible is open and shows roots, spongiosa, nerve canal and an impacted wisdom tooth. The mandible is removable.

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

■ Ref.no. 4513



### 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 moveable.

*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 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



1

**BESTSELLER**



### 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



### 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**

### 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







Interior view

**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: 21.5 x 14 x 21.5 cm**

**Weight: 0.8 kg**

■ Ref.no. 4710

On Page 78 you will find the brain model **C710** which will fit perfectly into the skull 4710.



Interior view

**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 12 x 16 cm**

**Weight: 0.8 kg**

■ Ref.no. 4715

On Page 68 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 1 1/2 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
- 2 40 weeks Ref.no. 4745
- 3 35 weeks Ref.no. 4746
- 4 34 weeks Ref.no. 4747
- 5 32 weeks Ref.no. 4750
- 6 31 weeks Ref.no. 4755
- 7 30 weeks Ref.no. 4757
- 8 29 weeks Ref.no. 4760
- 9 21½ weeks Ref.no. 4762
- 10 20 weeks Ref.no. 4765
- 11 17 weeks Ref.no. 4767
- 12 13 weeks Ref.no. 4768



### 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

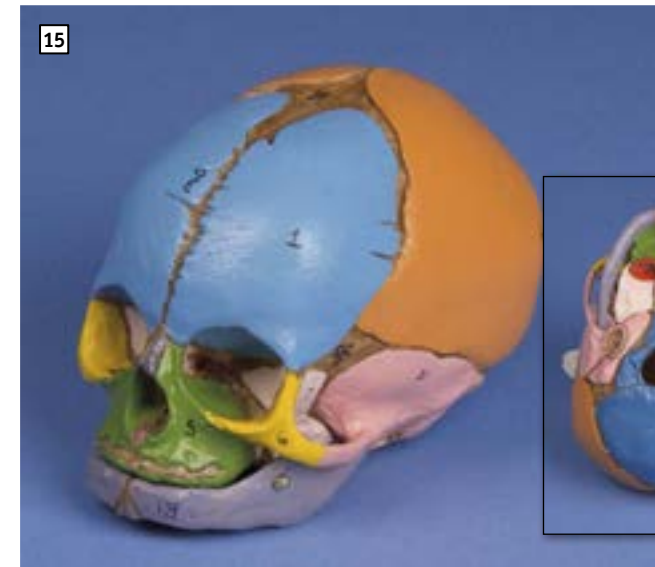


### 14 Fetus skull, 30th week

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 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



**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

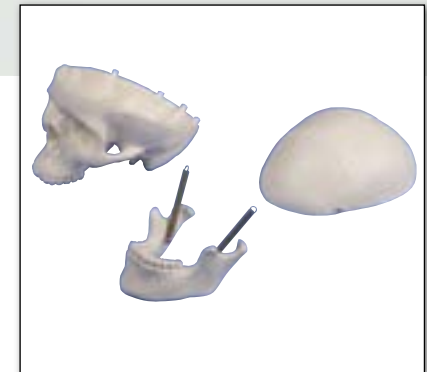
**2 Miniature skull, 3 part**

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



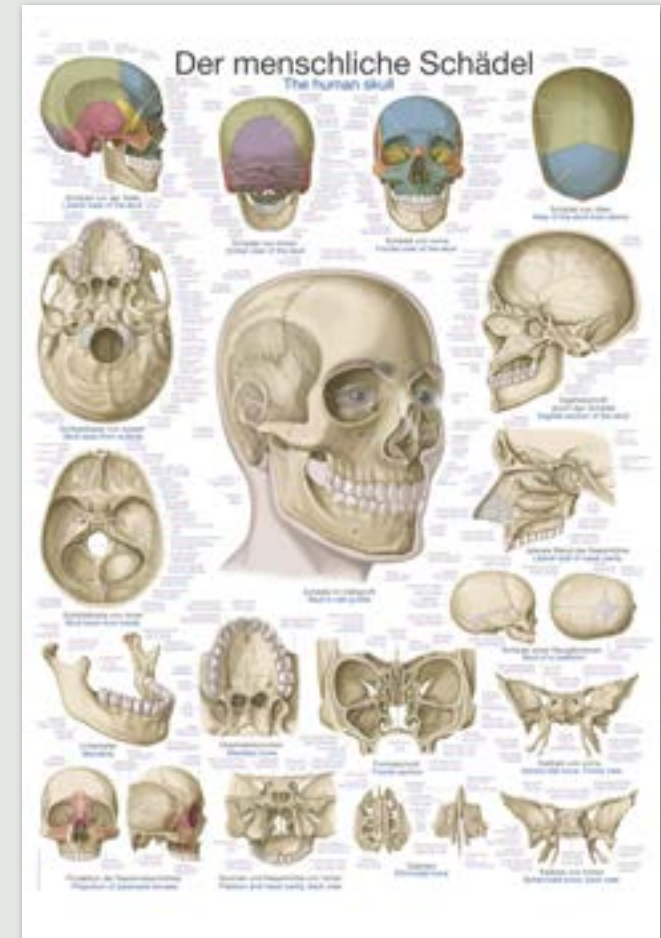
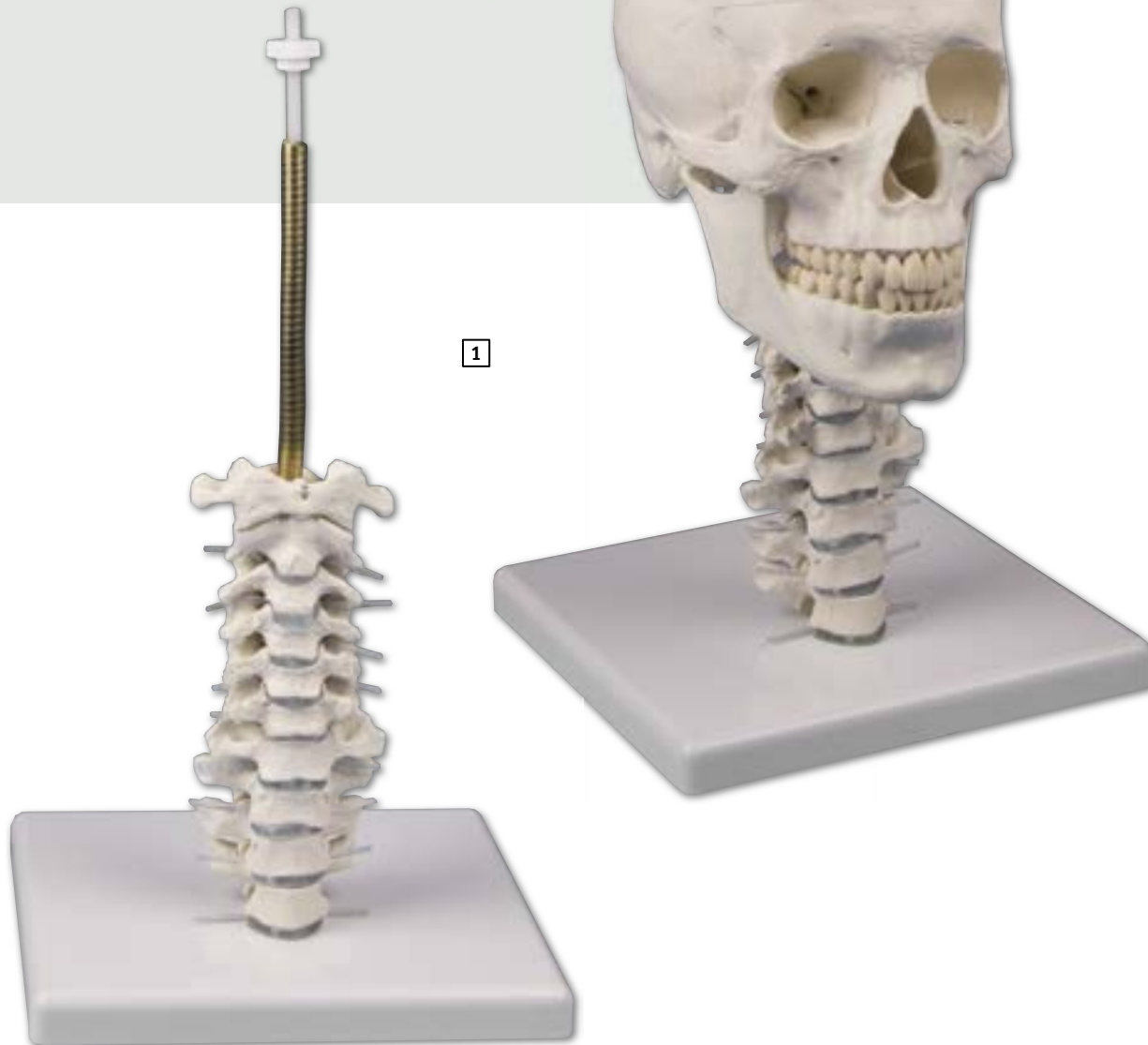
2



▼ **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 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

2



3



### 3 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.

■ Ref.no. 6002

### 4 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

4





**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**

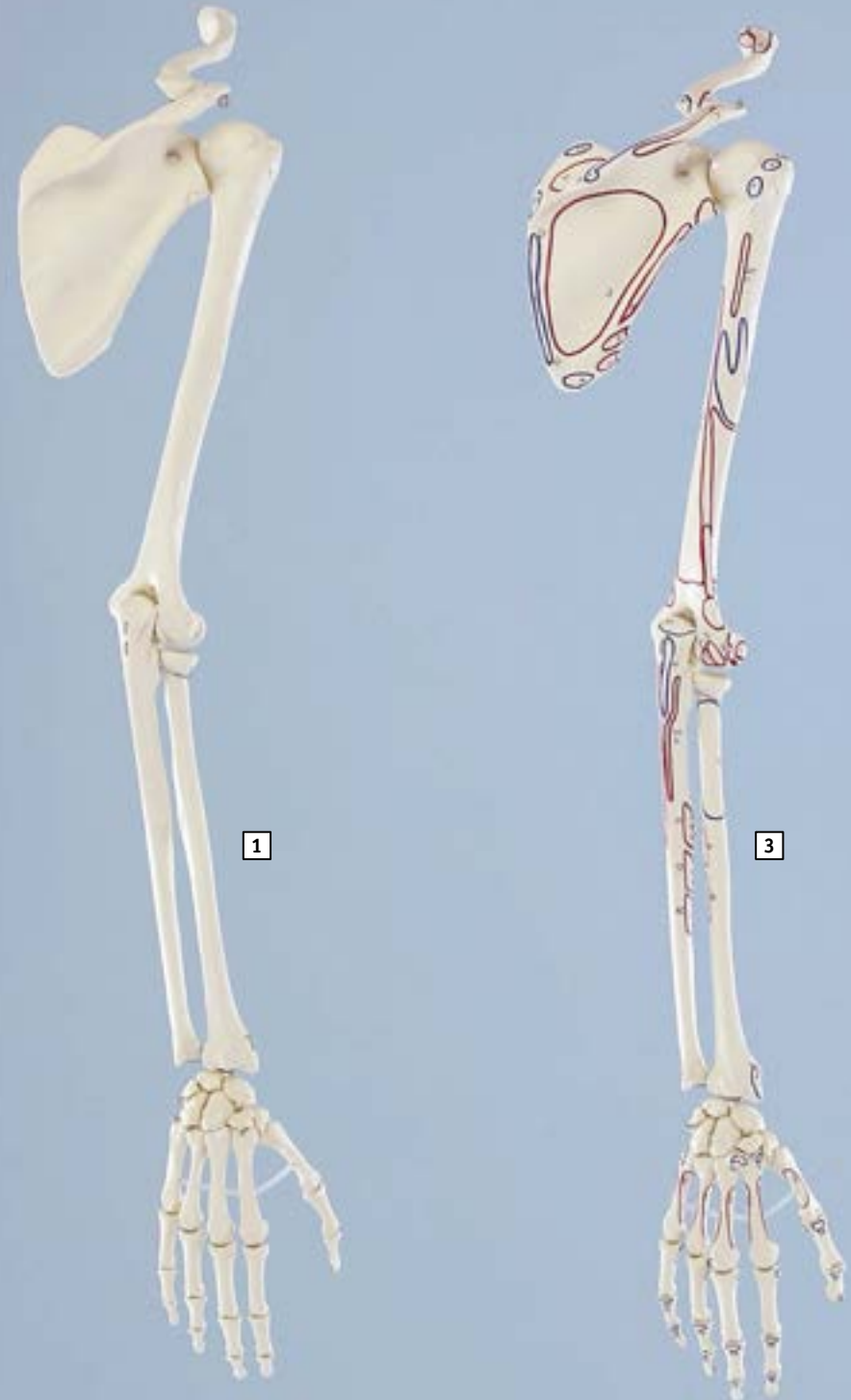
True to life casting of a skeleton of the human arm. The rolling movements of the bones of the lower arm (pronation and supination) and movements of the hand joint can be demonstrated. The hand is mobile-mounted on wire. Including marking of muscle origins and insertion points.

■ Ref.no. 6021

**4 Skeleton of arm with musculemarking**

Model as 6021, but without shoulder girdle

■ Ref.no. 6020 (not pictured)





▶ **1 Hand with Ligaments, Nerves and Carpal Tunnel**

Hand with start of lower arm, with Ligaments, Carpal Tunnel and Nerves. The skeleton is mounted on wire and is composed of single bones. Ligaments and nerves are made of flexible material and can be bent with the fingers. Life size.

■ Ref.no. 6011

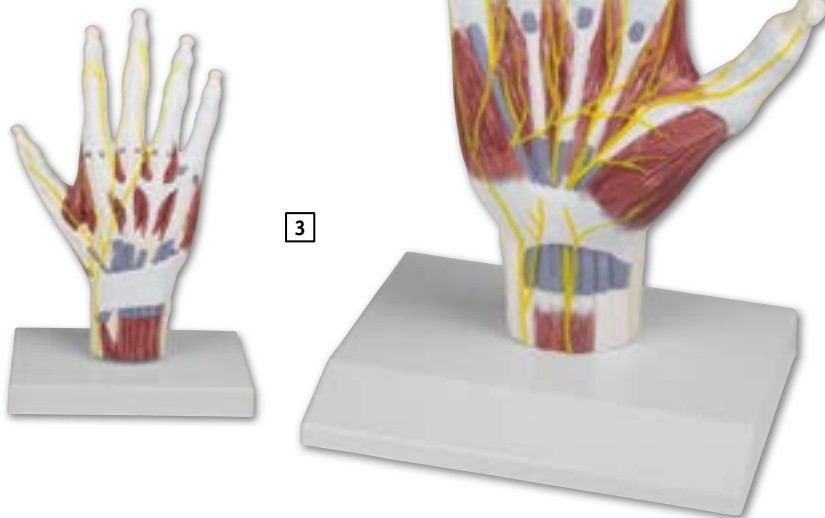
1

▶ **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

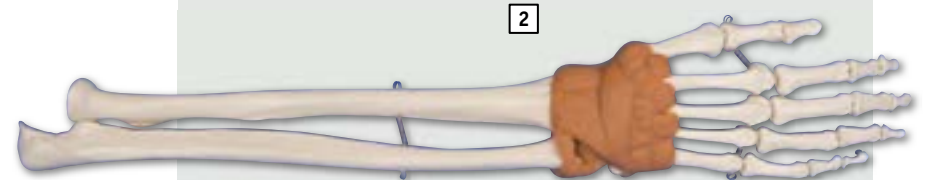


3

▶ **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



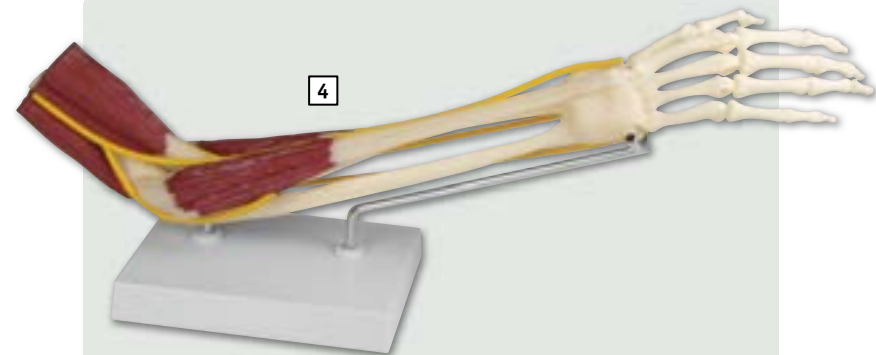
2

▶ **4 Elbow joint with musculature**

Model of a human elbow joint with lower arm and hand. The M. biceps brachii, M. triceps brachii, M. flexor carpi radialis, M. pronator teres, M. extensor carpi radialis longus and N. medianus, N. ulnaris, N. radialis and Lig. radiocarpeum palmare, Lig. carpi transversum and Lig. ulnocarpeum palmare are represented.

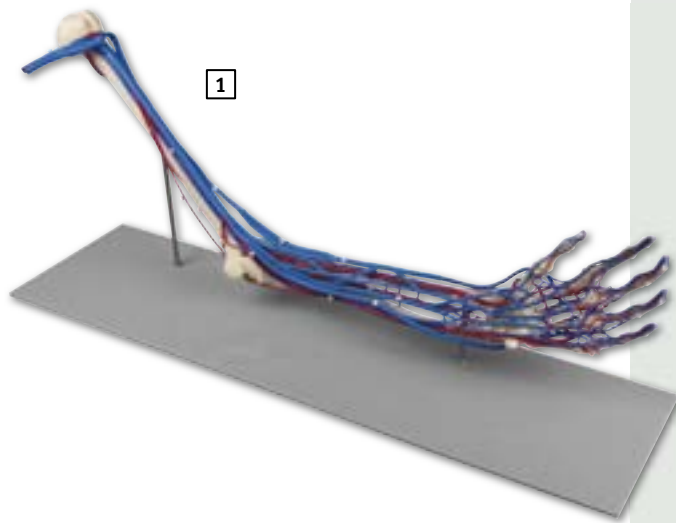
*Size: 56 x 13 x 25.5 cm*

■ Ref.no. 4566



4





1

### 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

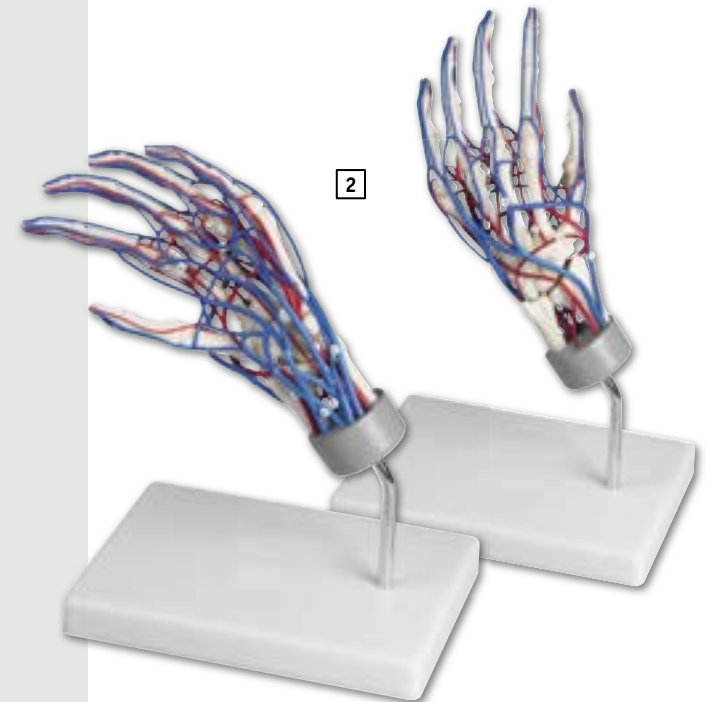
■ Ref.no. 6080

### 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.

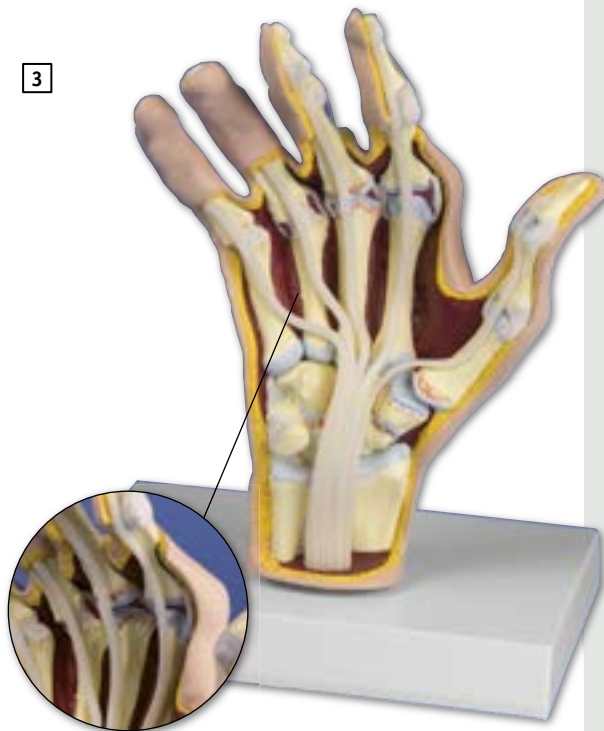
Size 26 x 15 x 22 cm

■ Ref.No. 6081



2

3



### 3 Rheumatoid Arthritis (RA) Hand

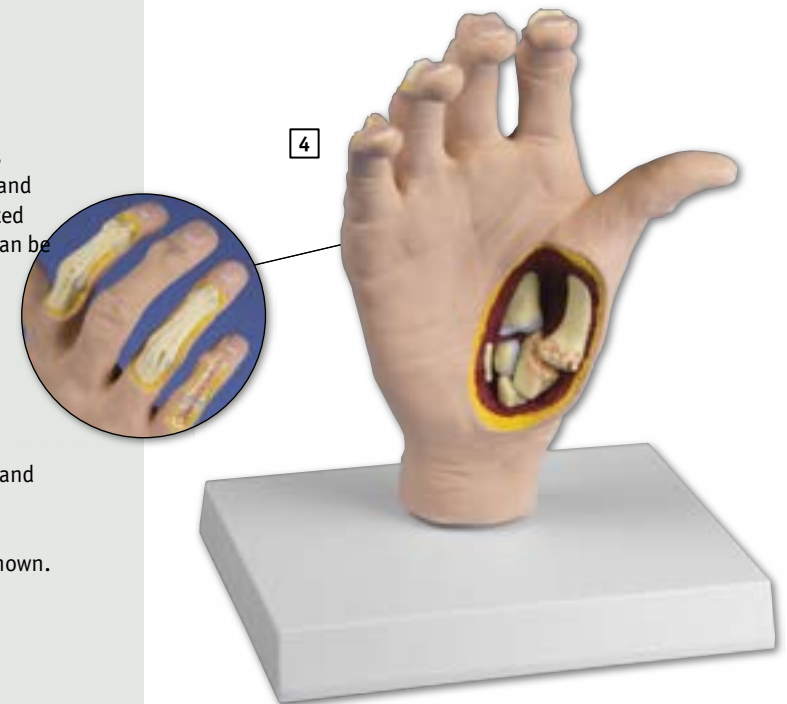
Full size right hand with cutaway views to reveal the effects of rheumatoid arthritis on ligaments, flexor and extensor tendons, muscle, cartilage, bones, synovial membrane, and joint spaces. A cross-section of the metacarpophalangeal joint capsules shows progression of the disease, including synovial swelling, erosion, and degeneration. Swan neck and boutonniere deformities are depicted on the second and third phalanges respectively. Flexor tendons can be lifted for better viewing of carpals.

■ Ref.no. M26

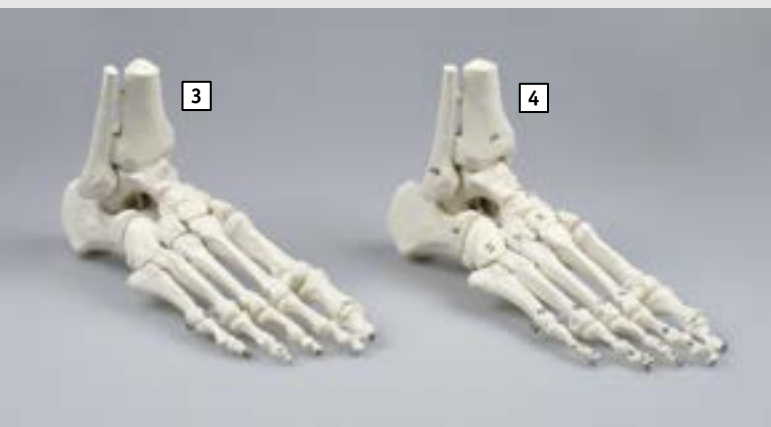
### 4 Osteoarthritis (OA) Hand

Full size right hand with cutaway views to reveal effects of osteoarthritis, including: osteophytes (bone spurs), Heberden's and Bouchard's nodes, and swan neck deformity of the thumb. Shows other anatomy affected by osteoarthritis: ligaments, tendons, muscle, and cartilage. For comparison, normal anatomy is also shown.

■ Ref.no. M25



4



◀ **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**

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

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)





1

### 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



3



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



4

### 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



6





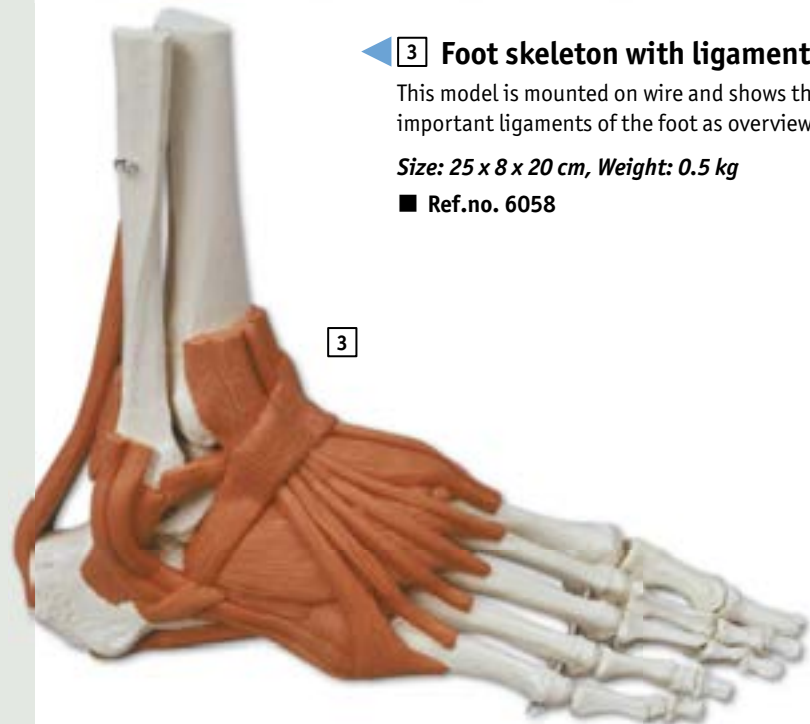
1

**NEW!**

1 **Foot skeleton with ligaments**

Flexible mounted foot skeleton in life size. Shows Ligaments and Muscles. Ligaments are shown individually.

■ Ref.no. 6052



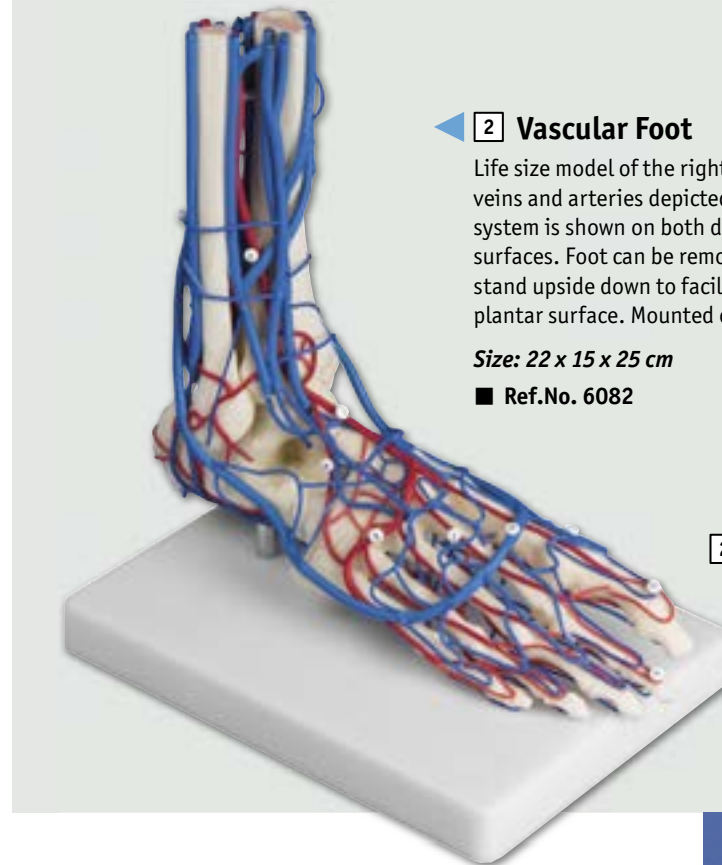
3

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



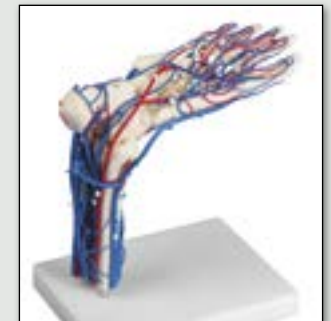
2

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!



4

4 **Neuro Foot**

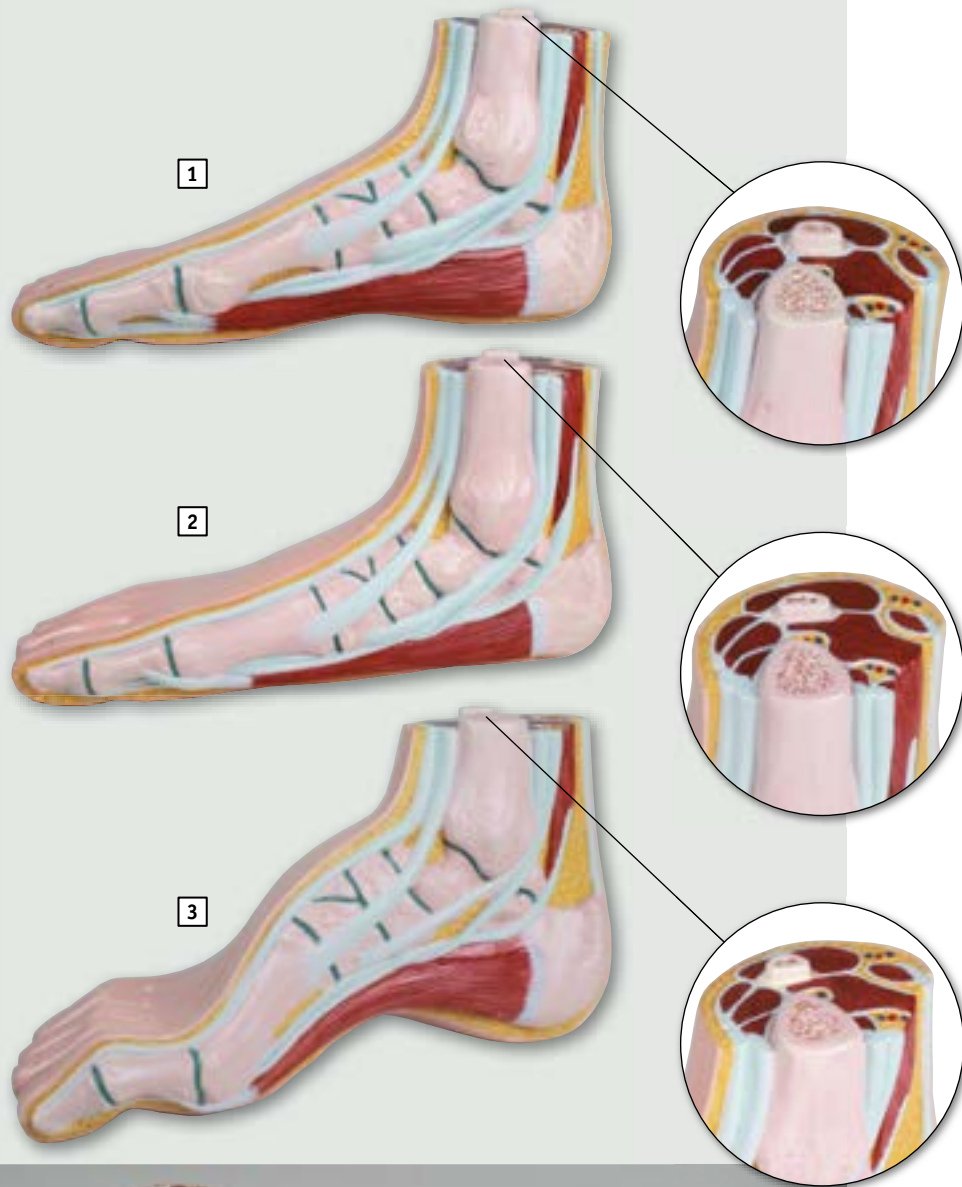
Life size model of the right foot with all major nerves depicted, shown on both dorsal and plantar surfaces. Foot can be removed and placed on the stand upside down to facilitate viewing of the plantar surface. Mounted on a stand with keycard.

*Size: 22 x 15 x 25 cm*

■ Ref.no. M28



Reversible!



#### 1 Normal foot

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*

■ Ref.no. M230

#### 2 Flat foot, pes planus

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*

■ Ref.no. M231

#### 3 Hollow foot, pes cavus

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: 24.5 x 10.5 x 13.5 cm, Weight: 0.6 kg*

■ Ref.no. M232

#### 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



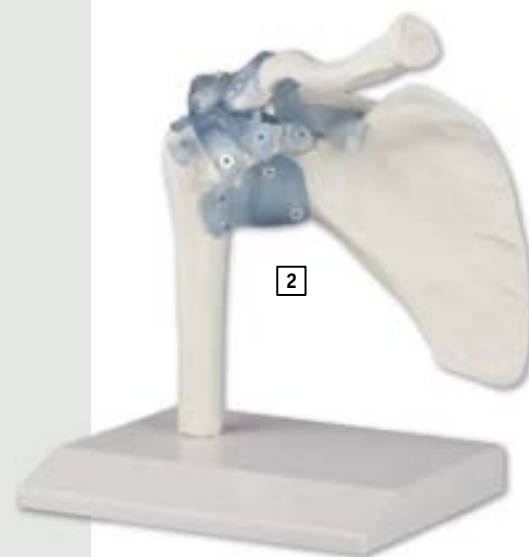


1

### 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, meniscuses 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

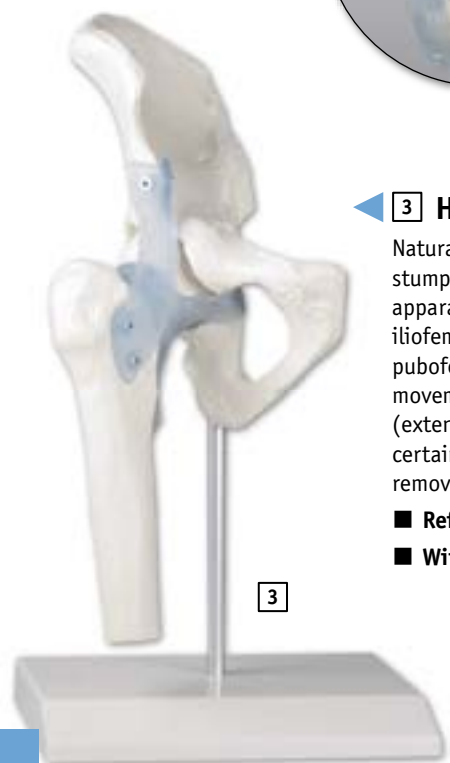


2

### 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 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

■ With stand and sacrum Ref.no. 4554 (not pictured)



4

### 4 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

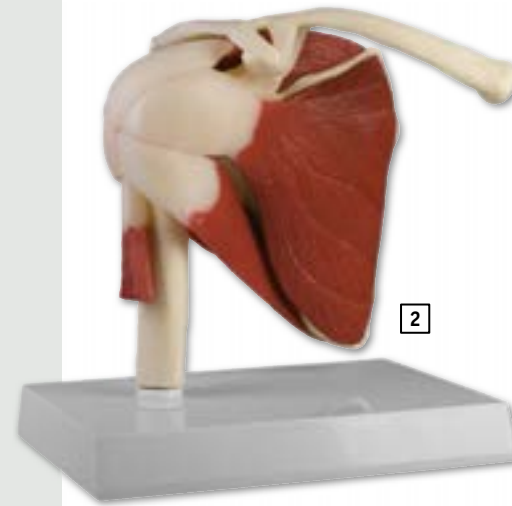


**1 Knee Joint,  
life size, with muscles**

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



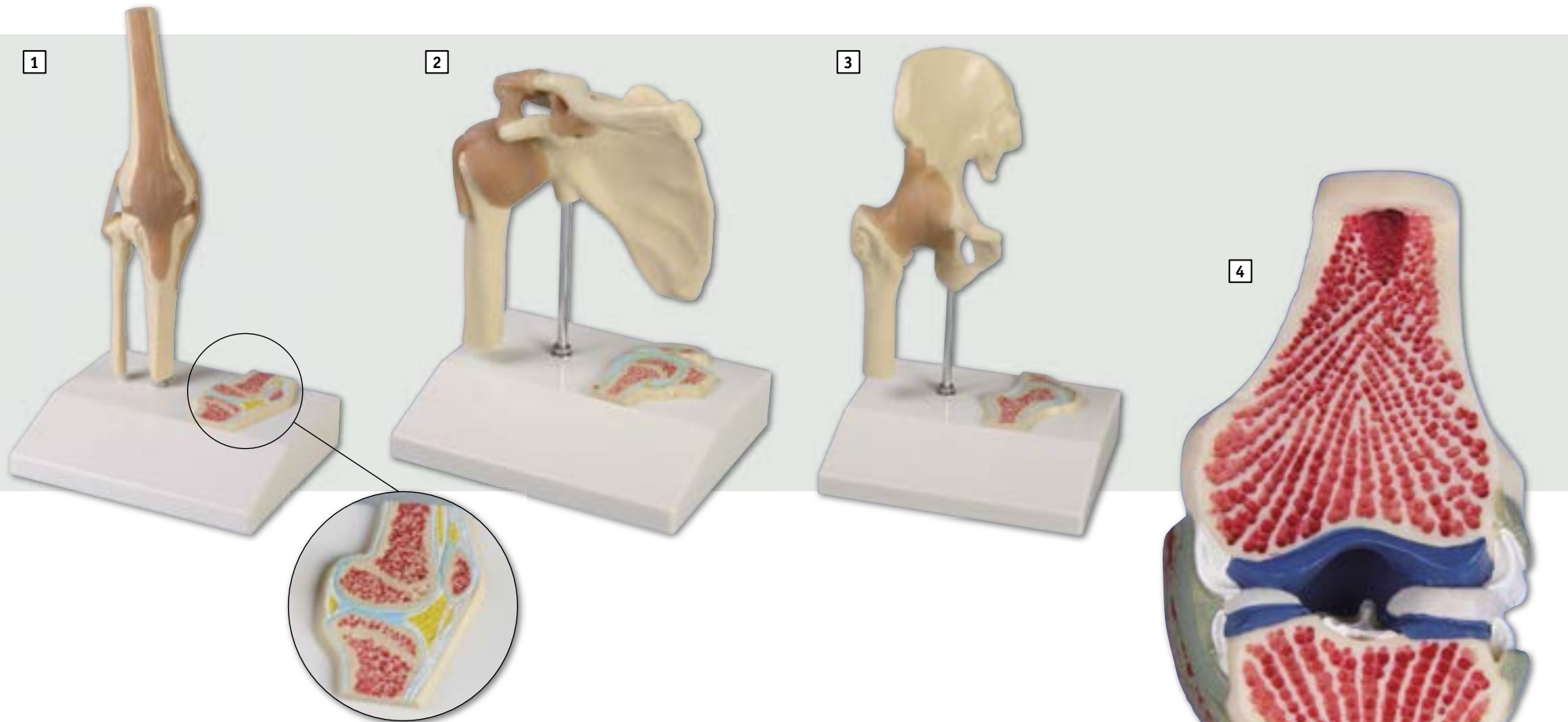
**4 Mini muscled joint set**

Set of 4 major joints in about half life size. models of knee, hip, shoulder and elbow show bones, ligaments and muscles.

**Size: 27 x 15 x 9 cm, Weight: 0.7 kg**

■ Ref.no. 4660





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 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

rear view





### 1 4-stage Osteoarthritis Knee

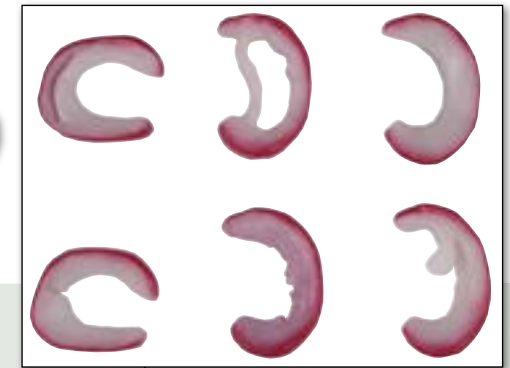
Set of 4 knee models (¾ scale) illustrating: degenerative joint disease (osteoarthritis); erosion to joint articular cartilage; Progression of degenerative joint disease; osteophytes (bone spurs) at the articular surfaces.

**Size:** 16 x 26.5 x 17 cm

**Knee size:** 7.5 x 4.5 x 14 cm

**Weight:** 1.1 kg

■ Ref.no. 4565

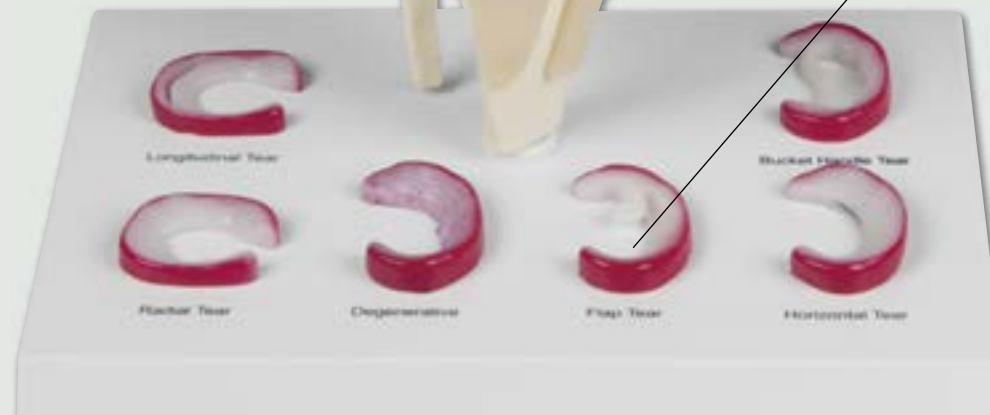


### 2 Meniscus tears model

Full size normal right knee demonstrating common meniscus tears. Condition shown includes: horizontal tear, flap tear, bucket handle, degenerative tear, radial tear, longitudinal tear.

**Size:** 9 x 7 x 15 cm, **Weight** 0,6 kg

■ Ref.no. 4580





1



### 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 can be removed and disassembled!**

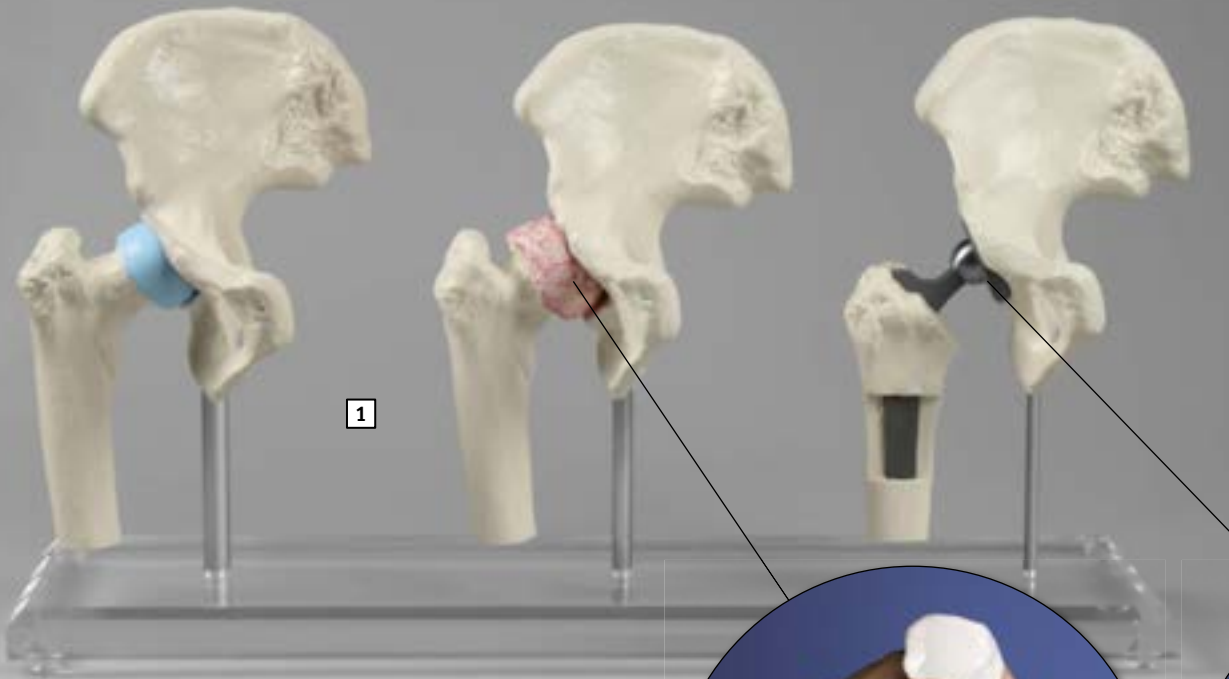


1 **Knee model with endoprosthesis**

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 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

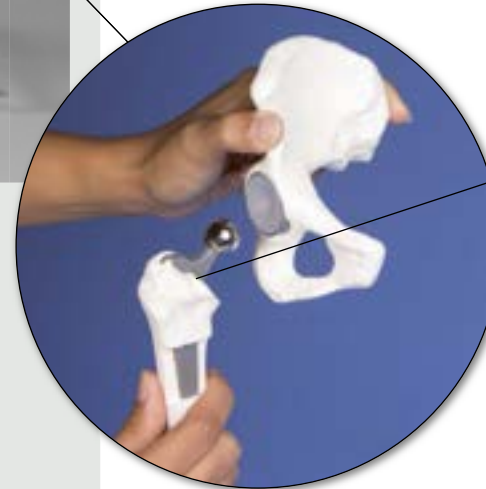


## 2 Hip joint with resurfacing implant

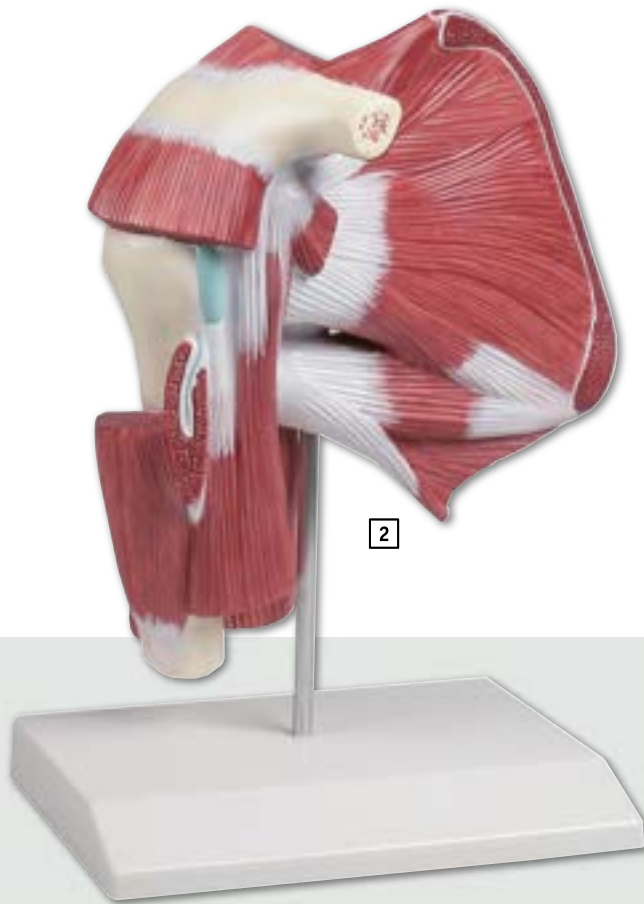
This hip joint in life size shows a "Birmingham Hip". The implants can be removed to allow the doctor to explain the function to the patient. The model can easily be removed from the stand and disassembled. Comes on Plexiglass stand.

*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

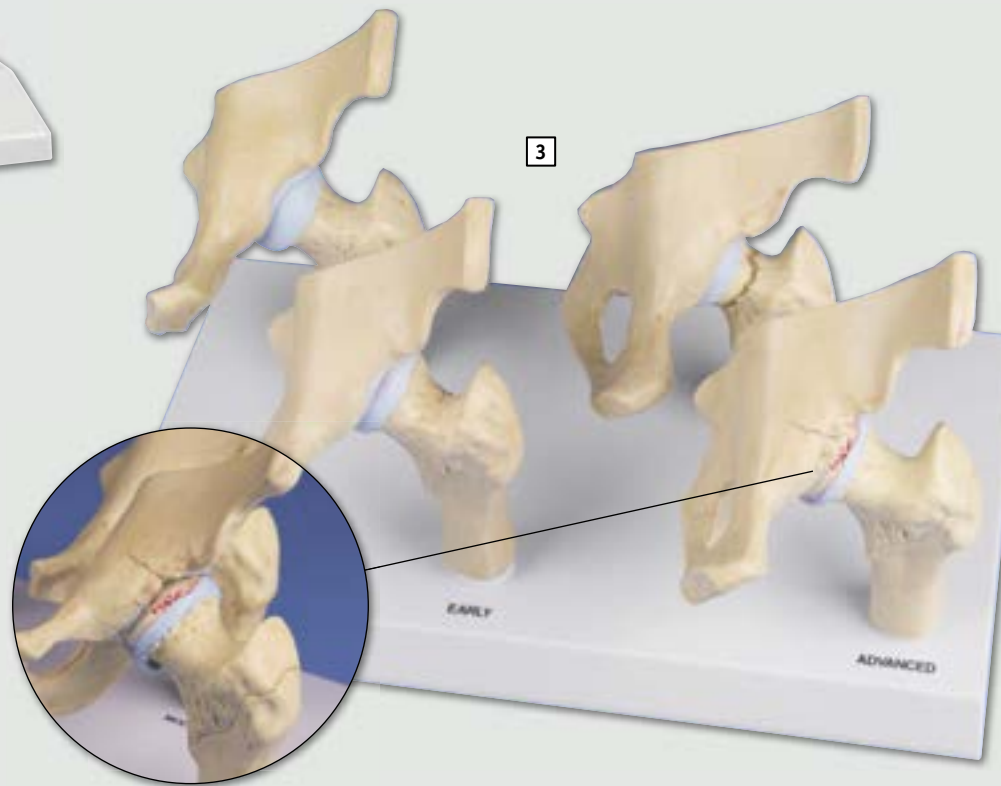
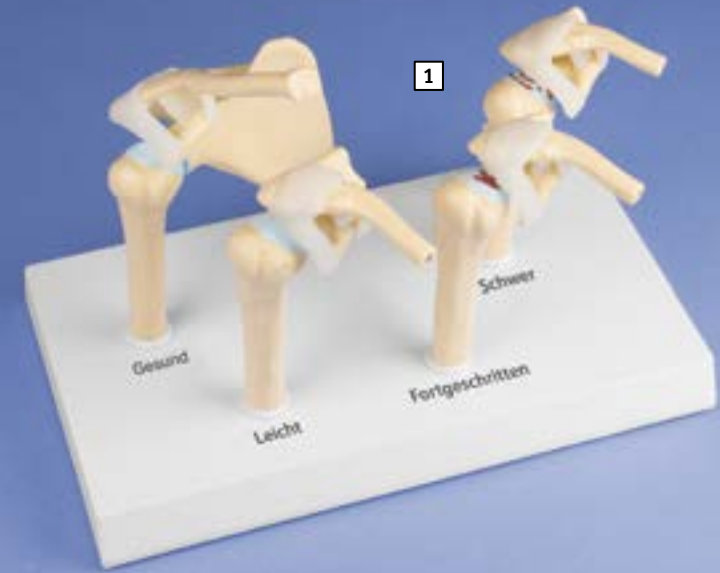
**1 4-stage Osteoarthritis (OA) Shoulder**

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

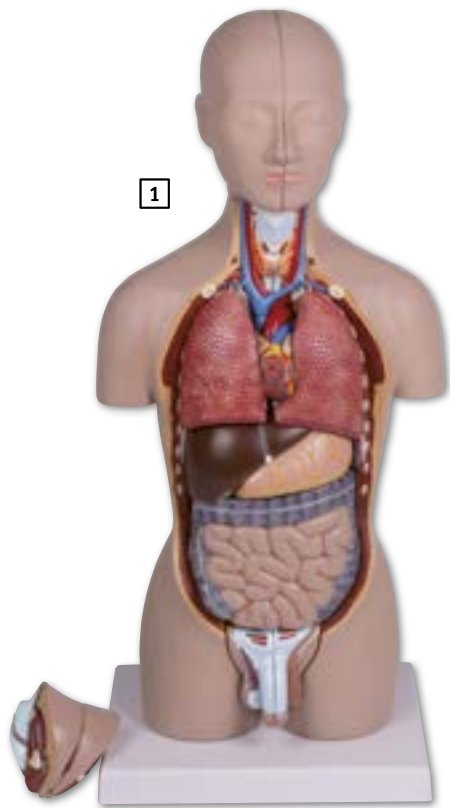


**3 4-stage osteoarthritis hip**

Set of 4 hip models (½ scale) illustrating: degenerative joint disease (osteoarthritis); erosion to joint articular cartilage; progression of degenerative joint disease; osteophytes (bone spurs) at the articular surfaces.

**Size:** 16 x 26.5 x 17 cm, **weight:** 1.1 kg

■ Ref.no. 4567



### 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.

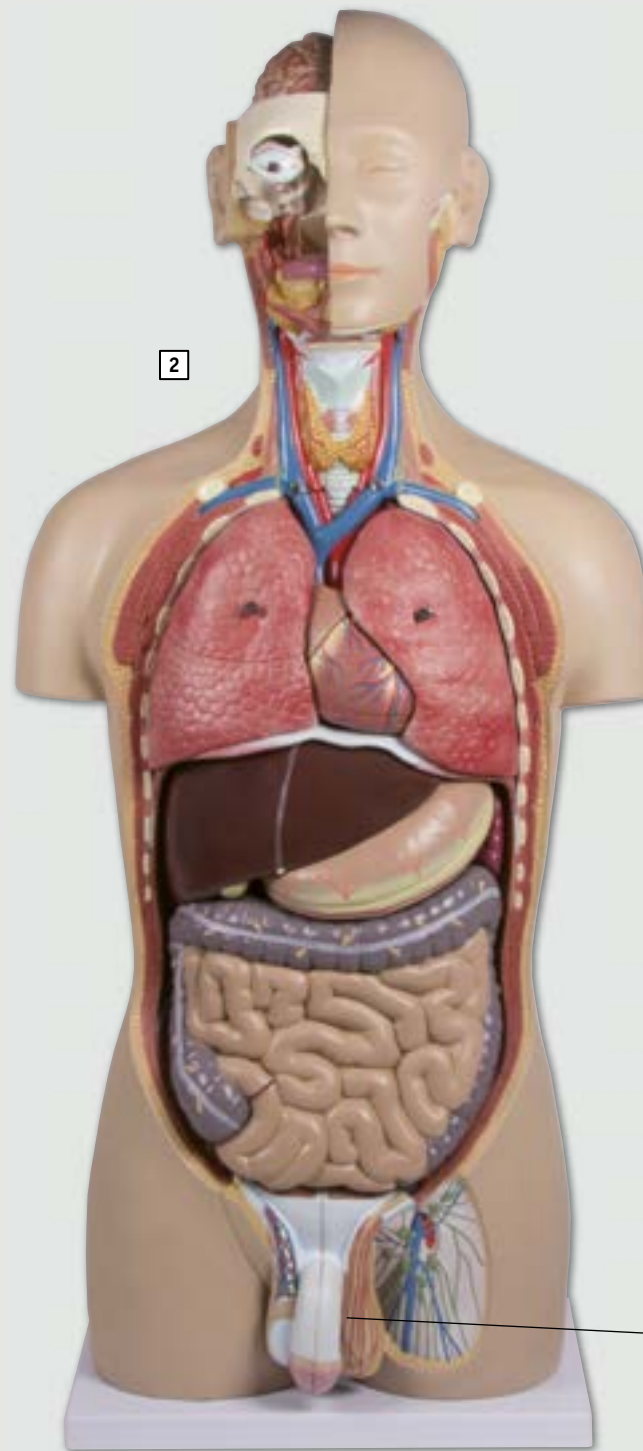
**The model consists of the following parts:**

- 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:**

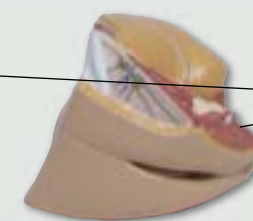
- torso
- half of the brain
- eye
- left lung, two parts
- right lung, two parts
- heart, two parts
- trachea
- esophagus
- liver
- stomach, two parts
- pancreas, duodenum and spleen
- half of one kidney
- intestines
- ilio-cecal valve
- female urogenital systems, 4 parts
- male urogenital systems, 4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



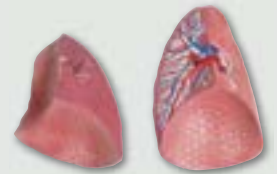
Half of Brain



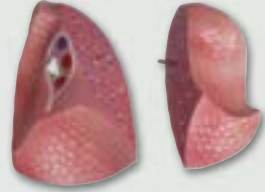
Eye



Bronchial tree



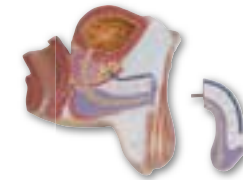
Lung



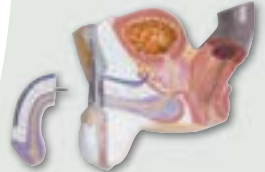
Esophagus, Aorta



Heart, 2-parts

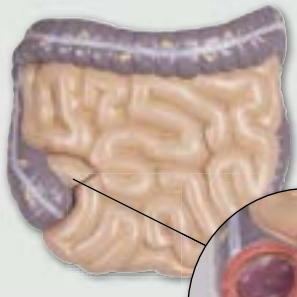
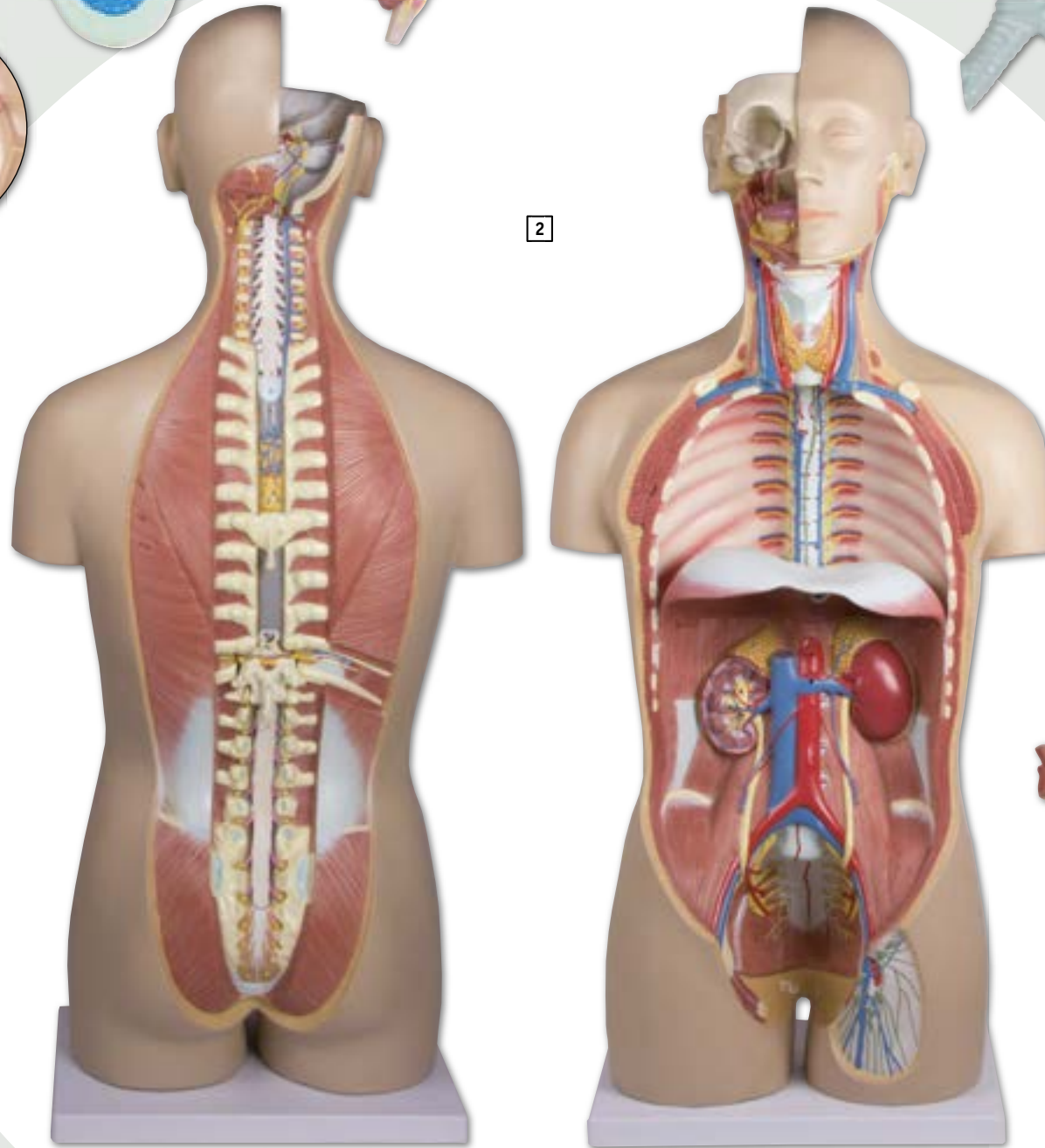


Male urogenital systems



Female urogenital systems

2



Intestine



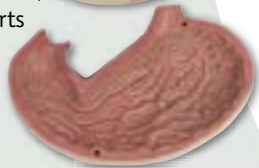
Liver



Half of Kidney



Stomach, 2-parts



Pancreas, Duodenum, Spleen







1

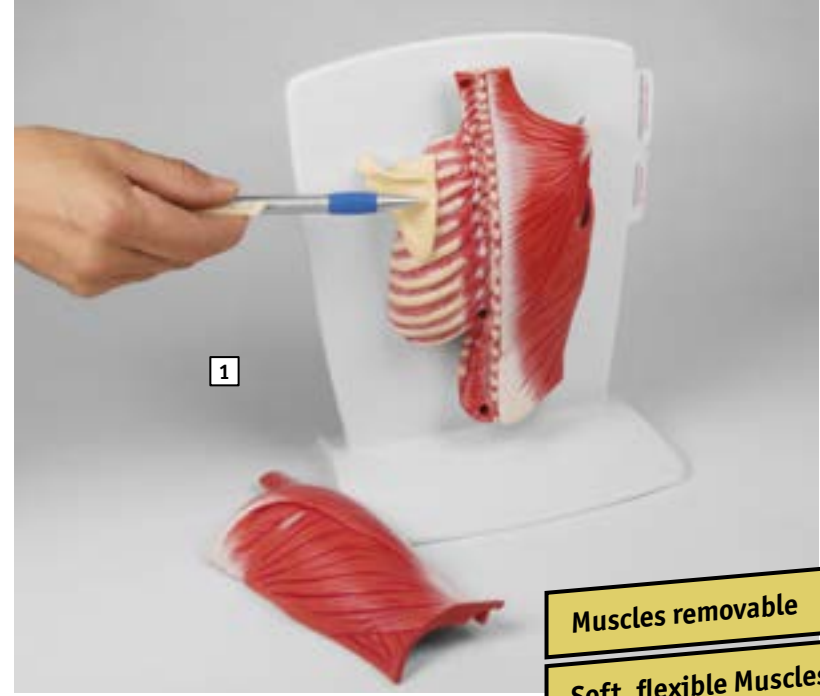
**1 Muscular figure, 1/3 life size**

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

rear view



Muscles removable  
Soft, flexible Muscles



1

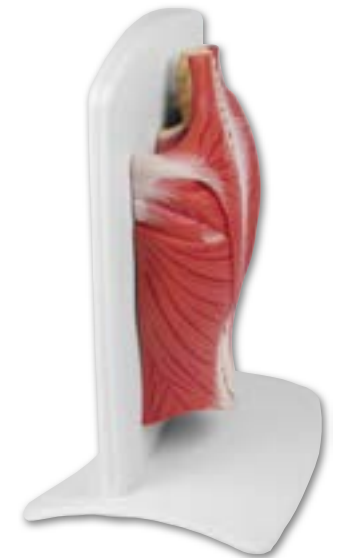


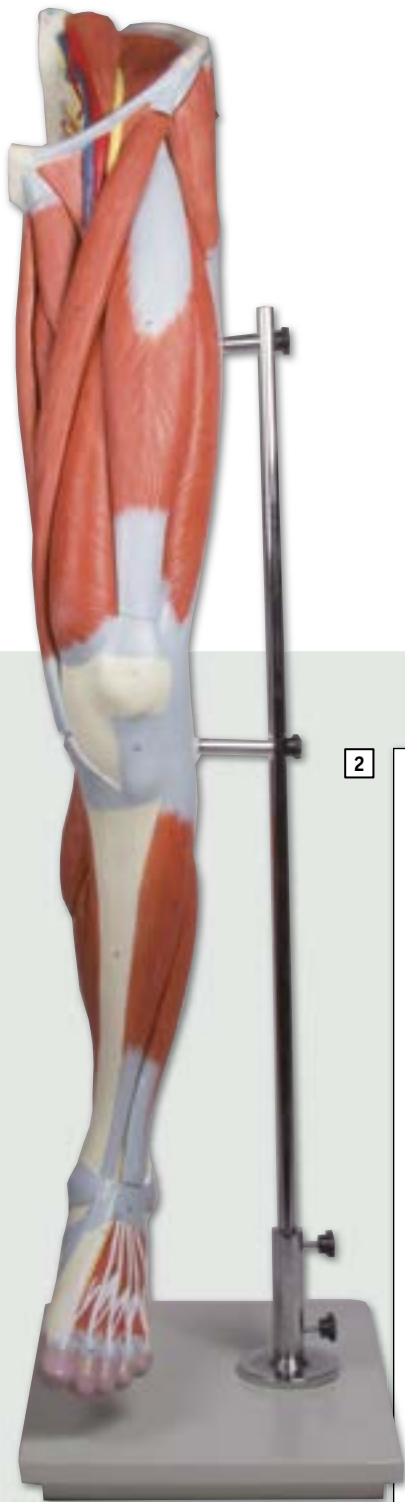
### 1 Back Muscle Model

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.

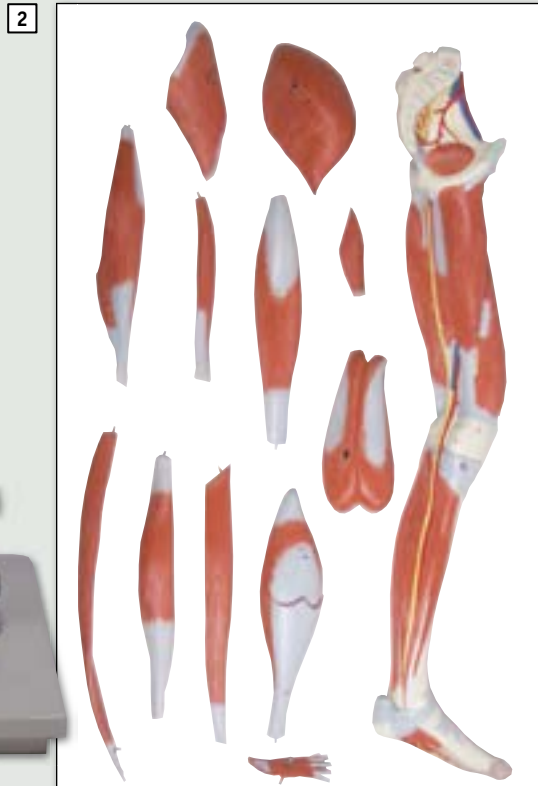
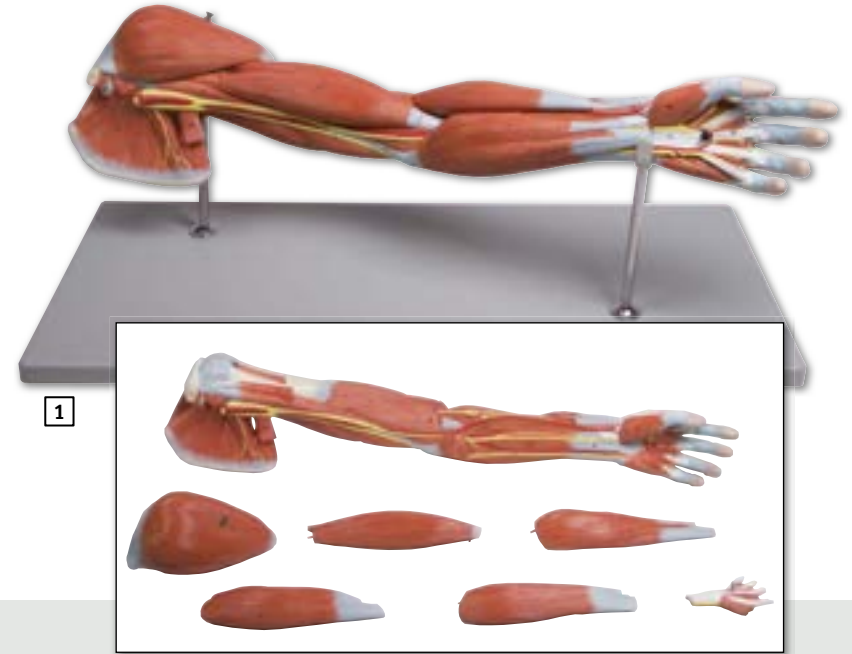
### Single muscles can be removed for closer study:

- 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:

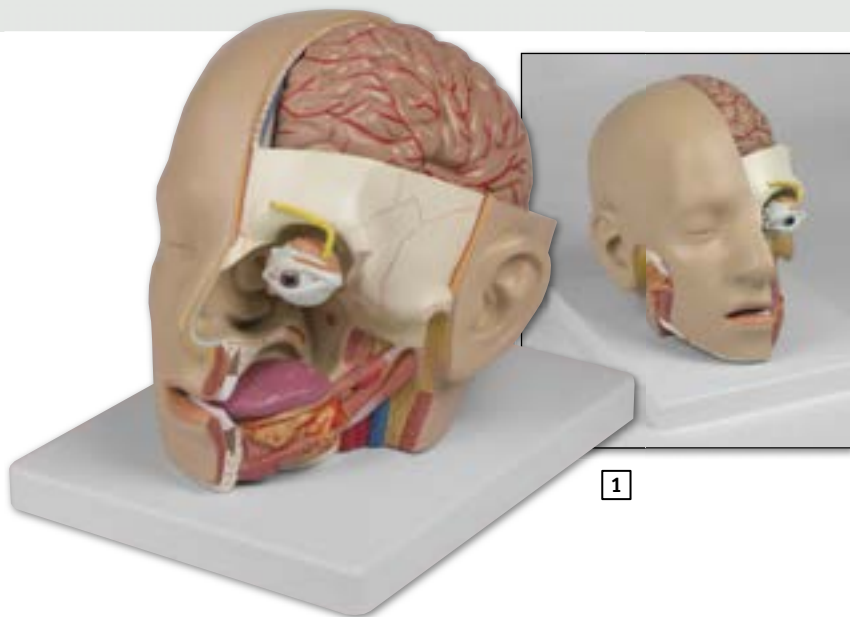
- Tensor fasciae latae
- plantar aponeurosis
- Extensor digitorum longus
- Rectus femoris
- Semitendinosus and semimembranosus
- Gracilis
- Gluteus medius
- Gastrocnemius
- Soleus
- Gluteus maximus
- Long head of biceps
- Sartorius

Supplied with stand and manual.

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

■ Ref.no. M220





1

### 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*

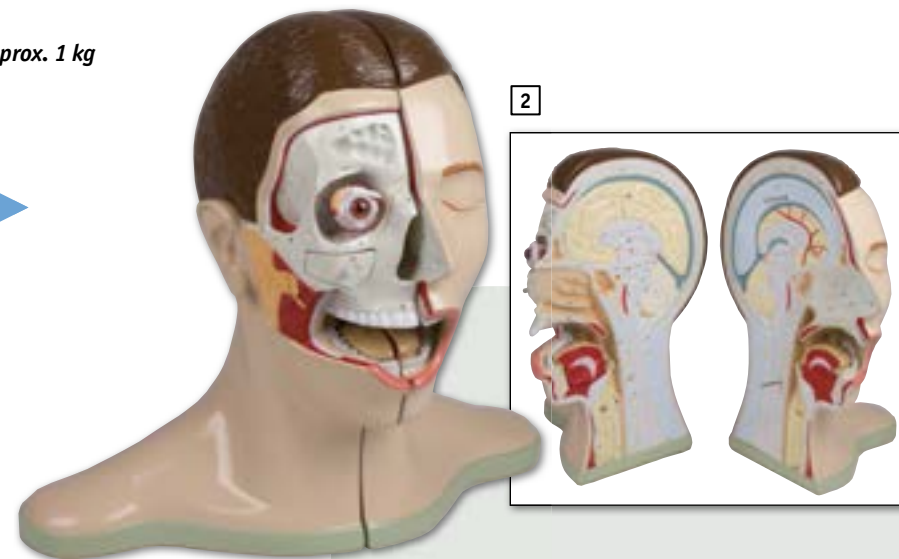
■ Ref.no. C250

### 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



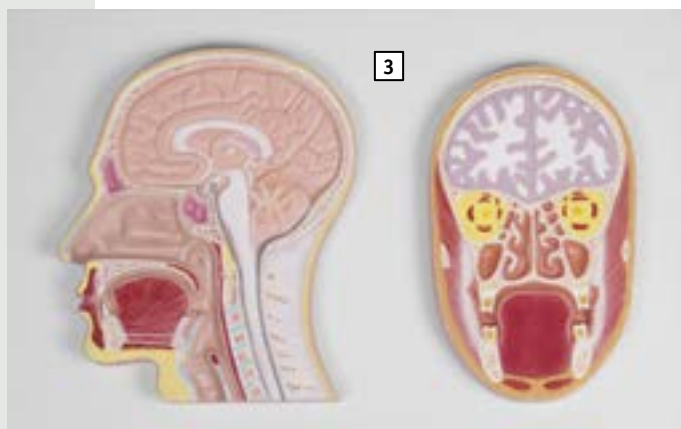
2

### 3 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



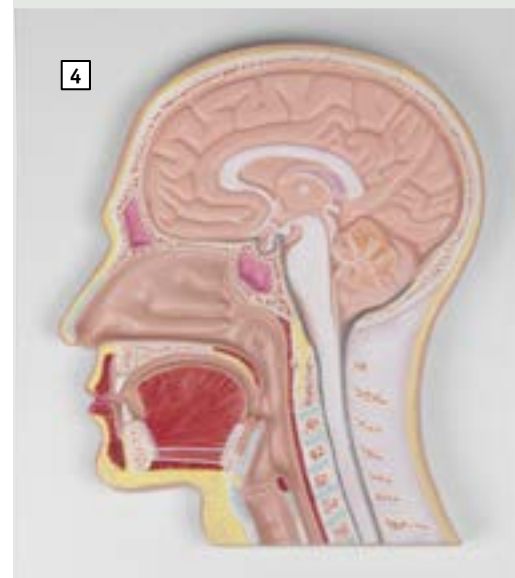
3

### 4 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.

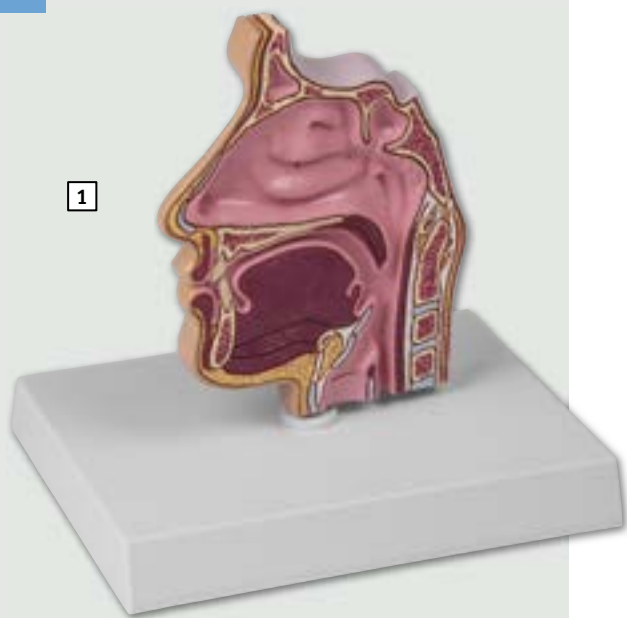
*Size without board: 24 x 20 x 2 cm, Weight: approx. 1.1 kg*

■ Ref.no. C212



4





1

### 1 Nose and sinus model

This cut-away model depicts a near median section through the nose and nasal passages. Details include nasal cavity, soft & hard palate, uvula and pharyngeal tonsil. Back side shows ethmoid and maxillary sinus cavities.

*Size: 12 x 2 x 14 cm*

■ Ref.no. C80

### 2 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

### 3 Clear Sinus Model

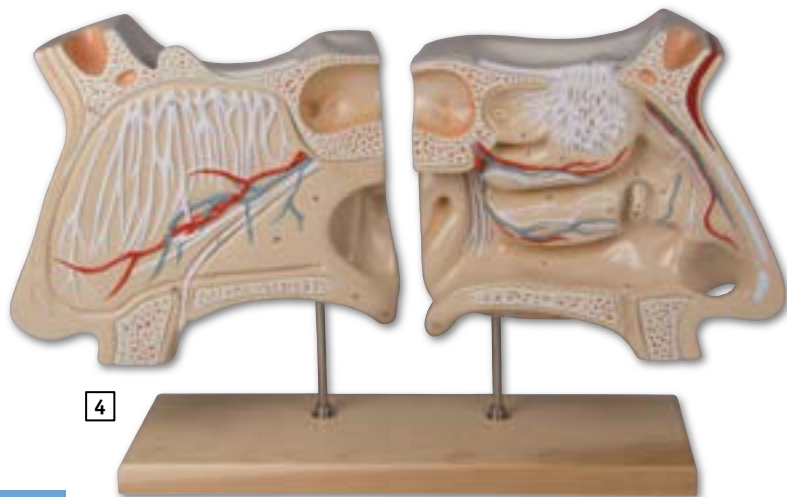
Life size Model of a clear face for orientation focusing on the sinus cavities: sphenoid, frontal, ethmoid, maxillary and mastoid.

*Size: 9.5 x 6.3 x 7 cm*

■ Ref.no. C183



3



4

### 4 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:**

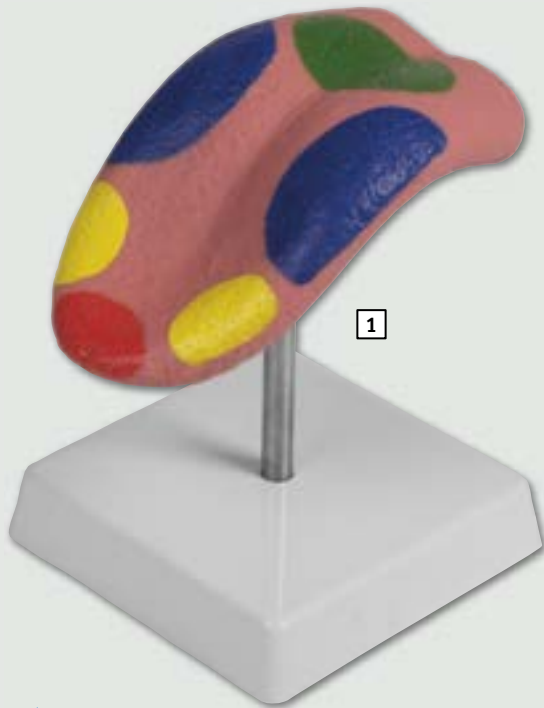
- Nose septum with vessels and nerves (right side)
- All structures of the inner nasal cavity (left side)
- Sinus and the opening of the Eustachian tube (left side)

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

■ Ref.no. C70



3

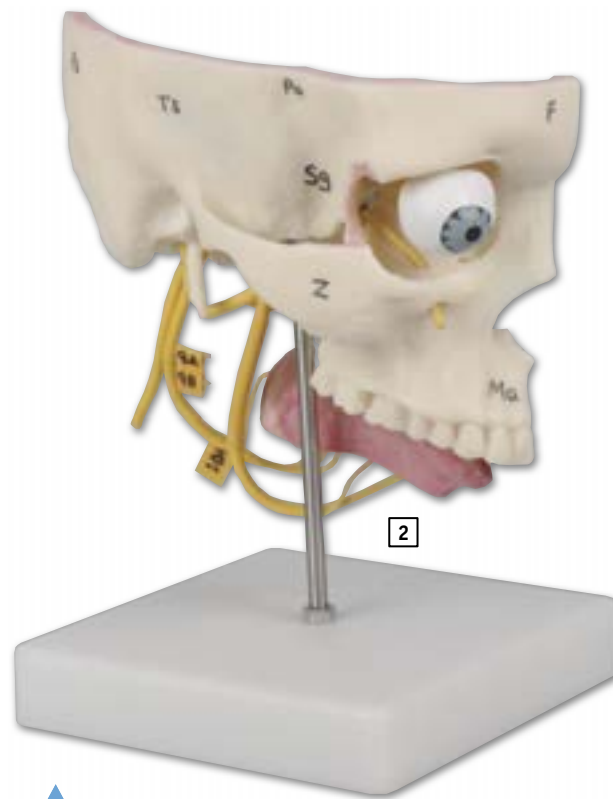


### 1 Tongue Model

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

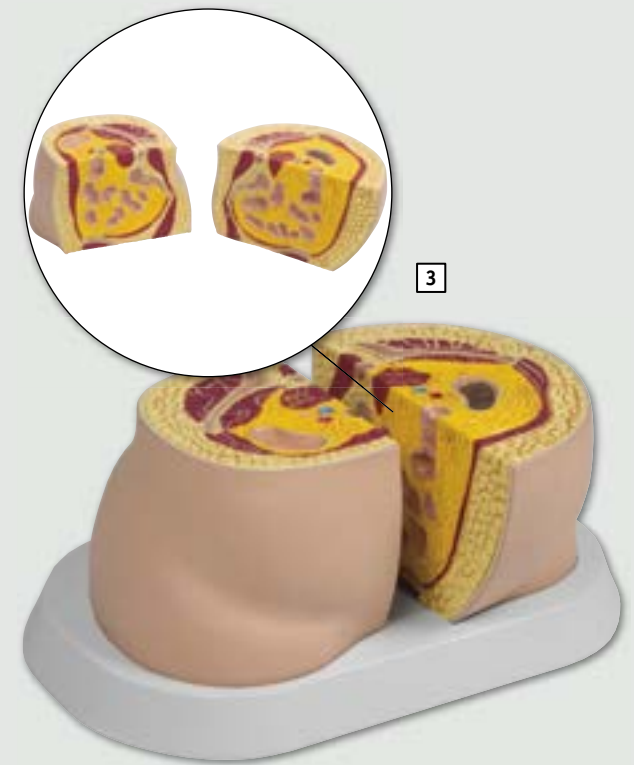
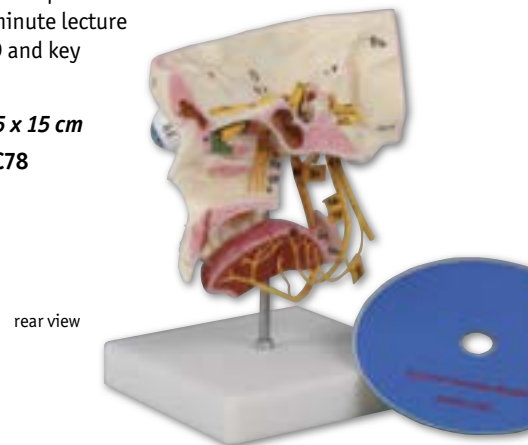


### 2 Special Senses

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



### 3 Obesity/Body types

Pear and apple shaped bodies in two cross sections (one left, one right) of the hip area. The pear shape is referred to as: "pear body fat distribution pattern" or "lower body fat". This is mainly composed of subcutaneous fat. The apple shape is referred to as: "apple body fat distribution pattern" or "intra-abdominal fat". Intra-abdominal fat can be composed of visceral and subcutaneous fat. Illustrating effects from obesity such as compression from visceral fat on the colon, common iliac artery and veins, ureter, small intestine, femoral nerve, etc. The education card depicts an apple, pear, and a normal section of the same areas with callouts.

■ Ref.no. M50

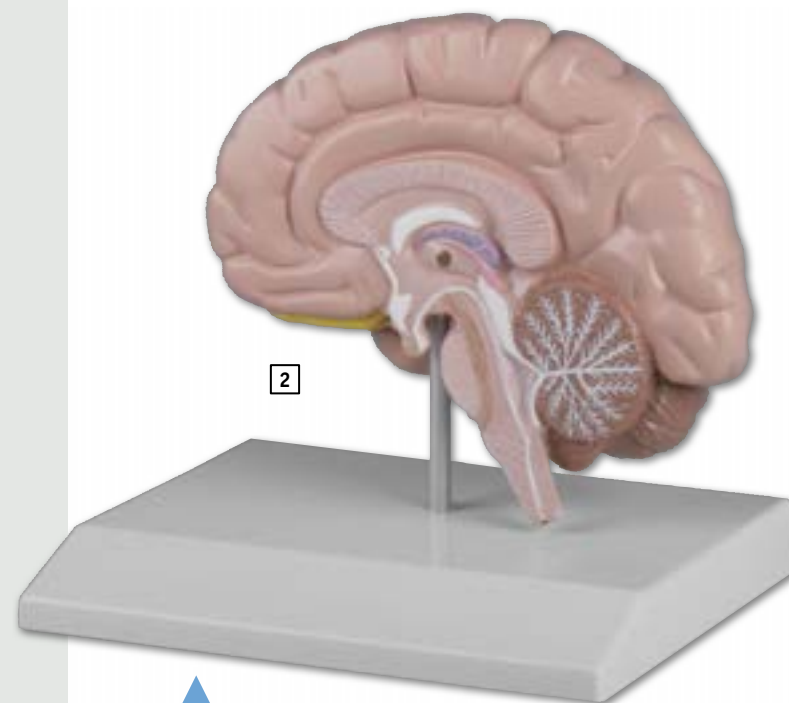


**1 Nervous system, 1/2 life-size**

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

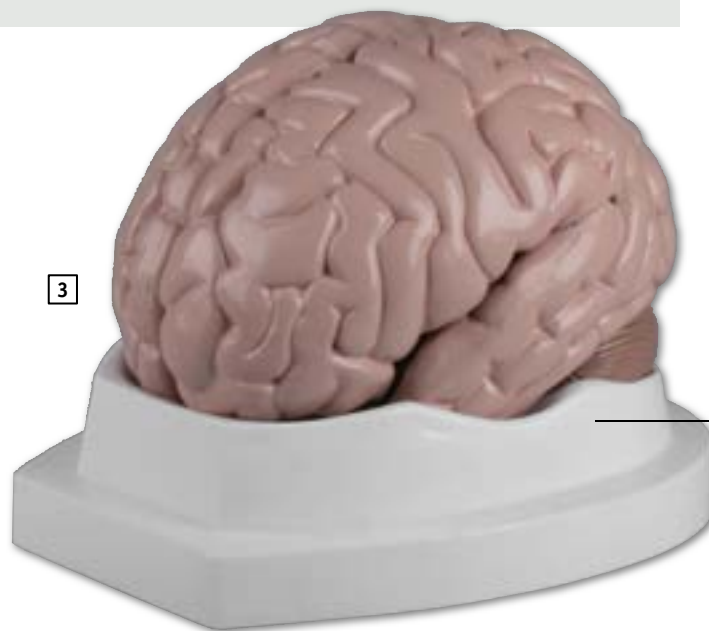


**2 Brain half**

Model of the right brain half in life size. Represented are also cerebellum and brain stem. on Stand, removable. With key card.

**Size: 16 x 13 x 18 cm, Weight: 0.3 kg**

■ Ref.no. C215



**3 Brain model, 5 parts**

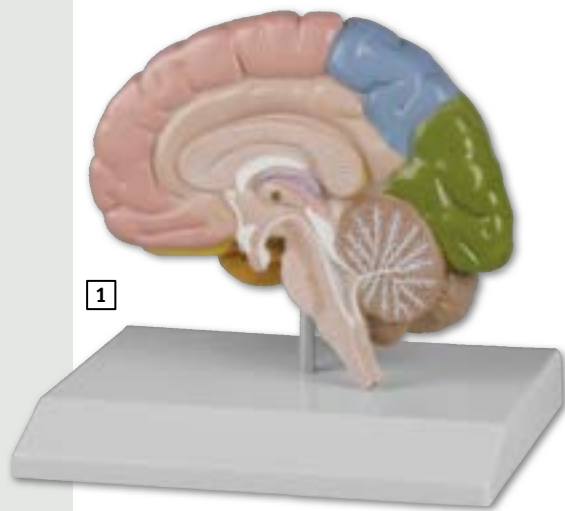
This carefully painted model of a brain in life size can be divided in right and left brain half. The left half can be divided into 4 parts. These are frontal with parietal lobes, temporal with occipital lobes as well as half of brain stem and half of cerebellum. With key card.

**Size: 18 x 15 x 14 cm, Weight: 0.7 kg**

■ Ref.no. C218







1

### 1 Regional brain half

Model of the right brain half in life size. Represented are also cerebellum and brain stem. The brain regions are marked with colours. On stand, removable. With key card.

**Size:** 16 x 13 x 18 cm, **Weight:** 0.3 kg

■ Ref.no. C221



2

### 2 Brain functional/regional, 5-parts

This carefully painted model of a brain in life size can be divided in right and left brain half. The left half can be divided into 4 parts. These are frontal with parietal lobes, temporal with occipital lobes as well as half of brain stem and half of cerebellum. The right half shows the brain regions in colour, on the left half the functional areas are shown in colour. With key card.

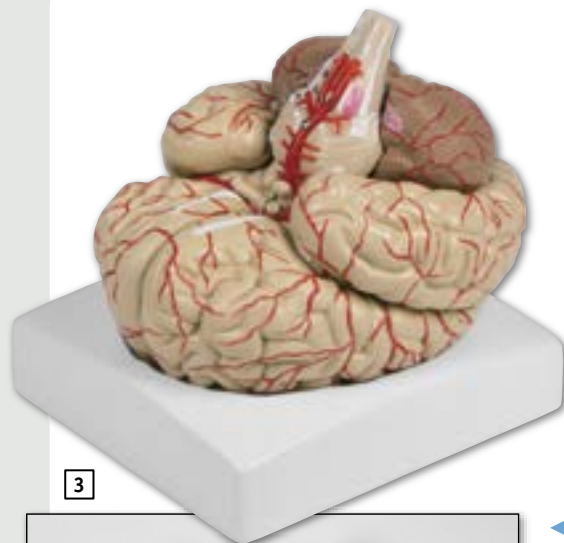
**Size:** 18 x 15 x 14 cm, **Weight:** 0.7 kg

■ Ref.no. C222



rear view

2



3

### 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



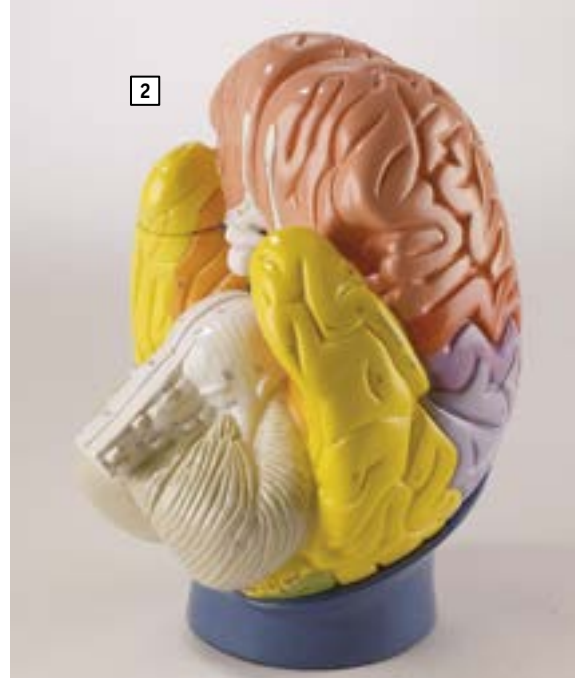


**1 Neuro-Anatomical Brain,  
4-part, 2 times life size**

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 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 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

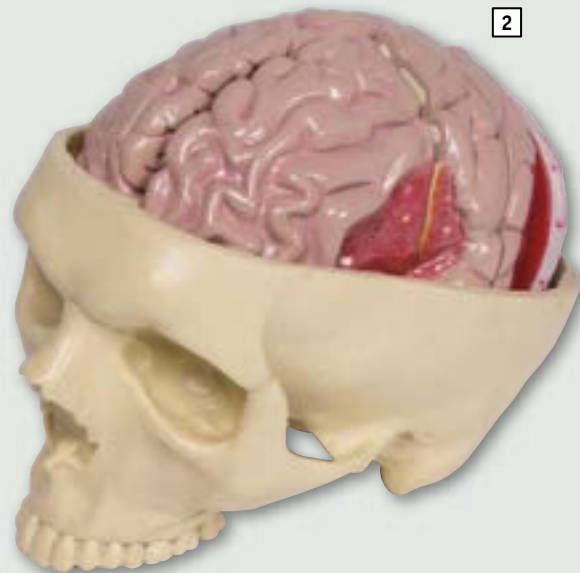


### 1 Base of Head with 7-Part Brain

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 Brain Diseases

Full size segmented brain features normal half and 3 piece sectioned pathology half, as well as Circle of Willis. The brain, which sits inside a partial skull, features the following pathologies: alcoholism, Alzheimer's, aneurism, depression related tumor, seizure related tumor, migraine, multiple sclerosis, Parkinson's disease, stroke and subdural haematoma.

**Size: 19 x 14 x 13 cm, Weight: 1.3 kg**

■ Ref.no. 4525



### 3 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.

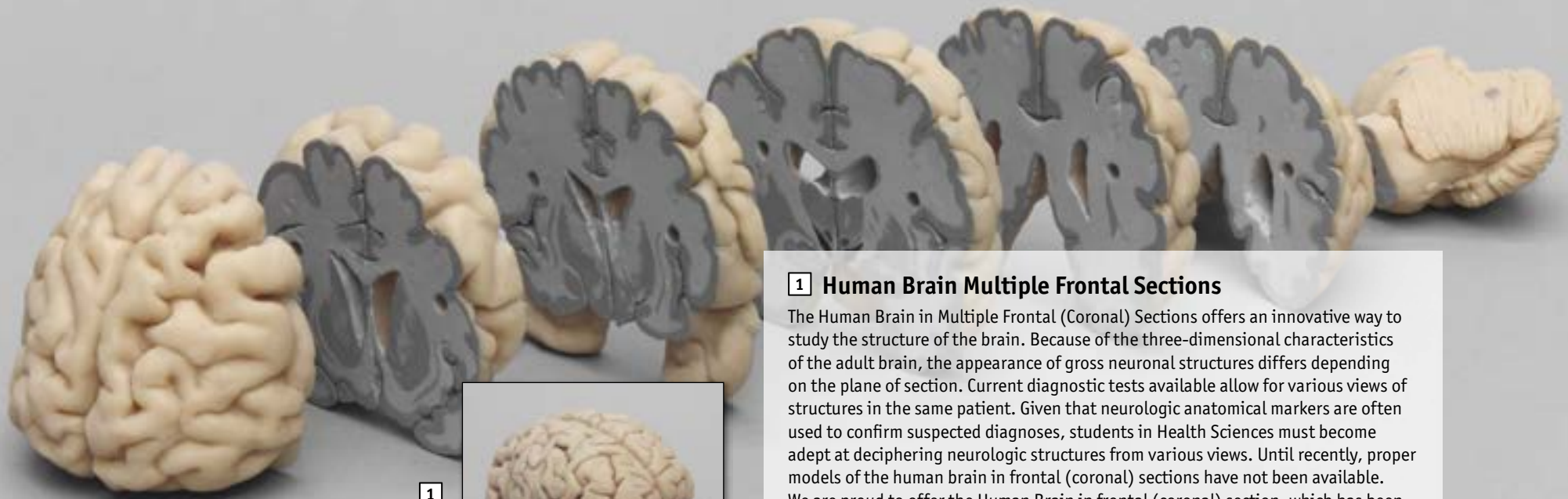
**Size: 17.5 x 16.5 x 22 cm**

■ Ref.no. 4610



interior view





### 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

1



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 44.



1



rear view

### 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*

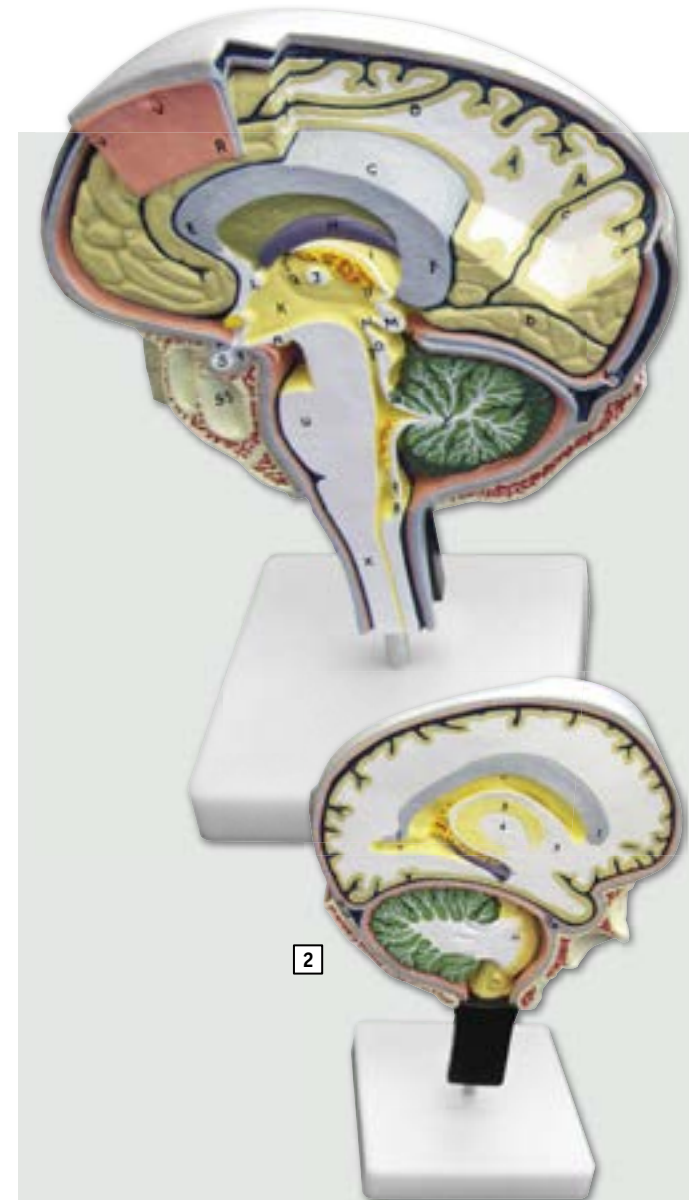
■ Ref.no. C76

### 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*

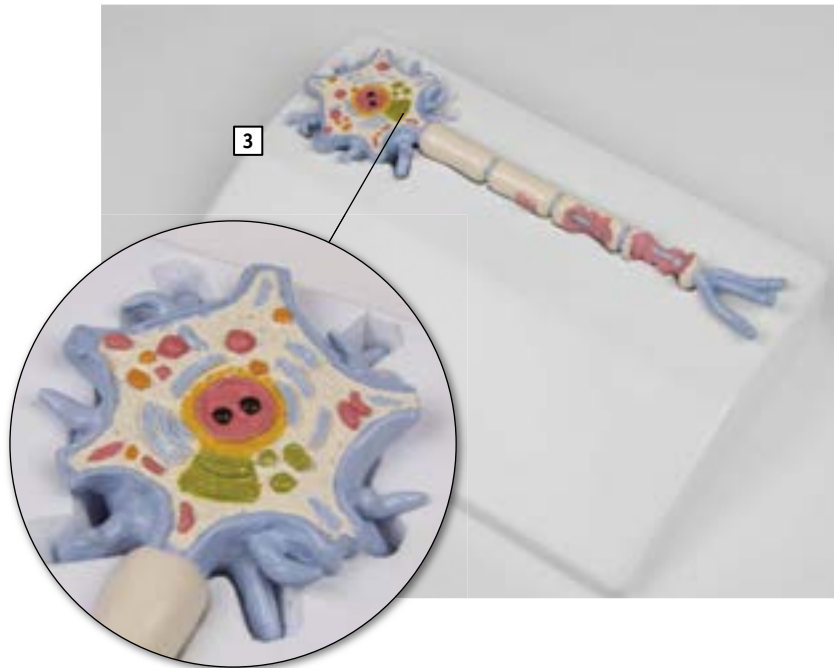
■ Ref.no. C77



2

rear view

3

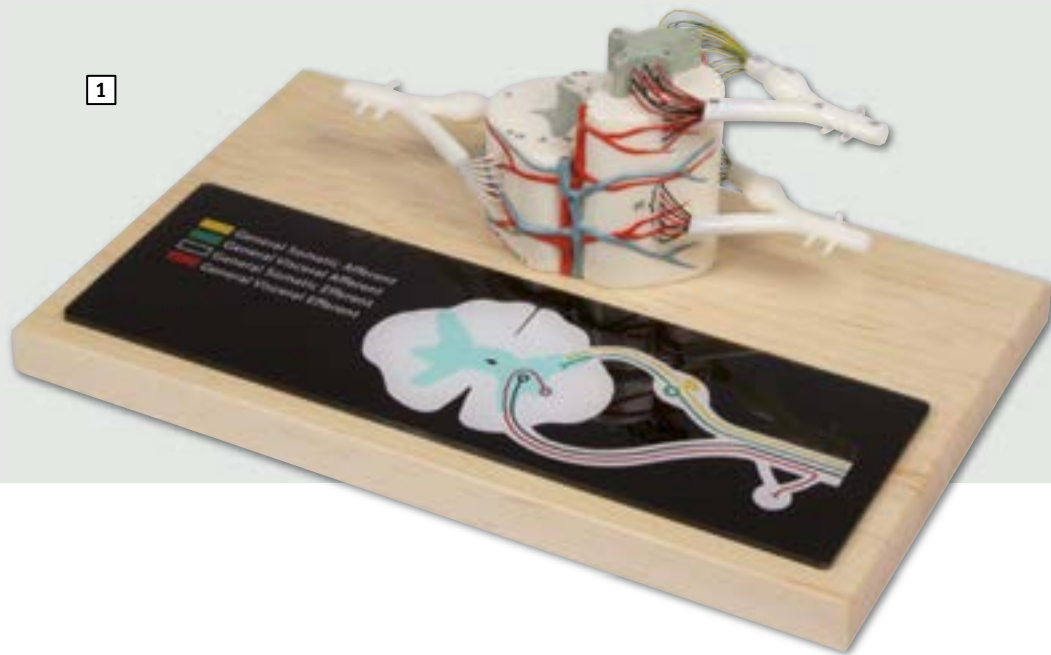


### 3 Neuron model with stages of multiple sclerosis

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

### 1 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.

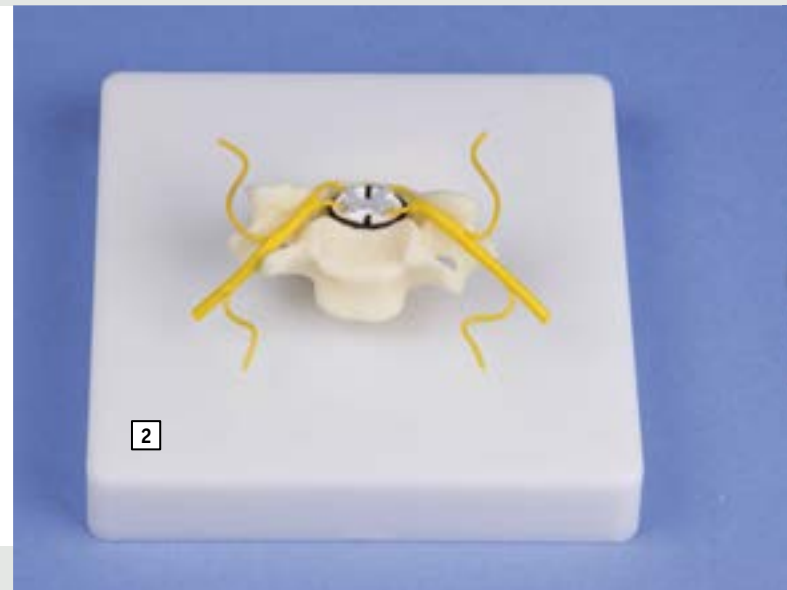
*Size: 35.5 x 27 x 27 cm, Weight: 0.75 kg*

■ Ref.no. R10116

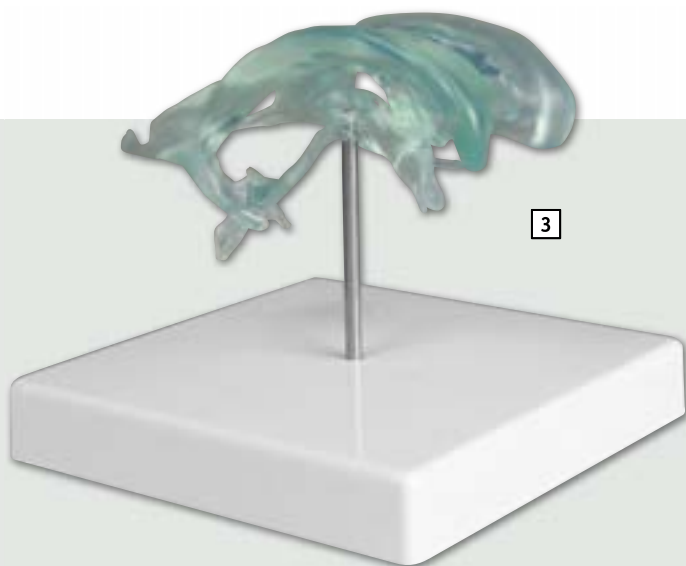
### 2 Vertebra with spinal cord section

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



2



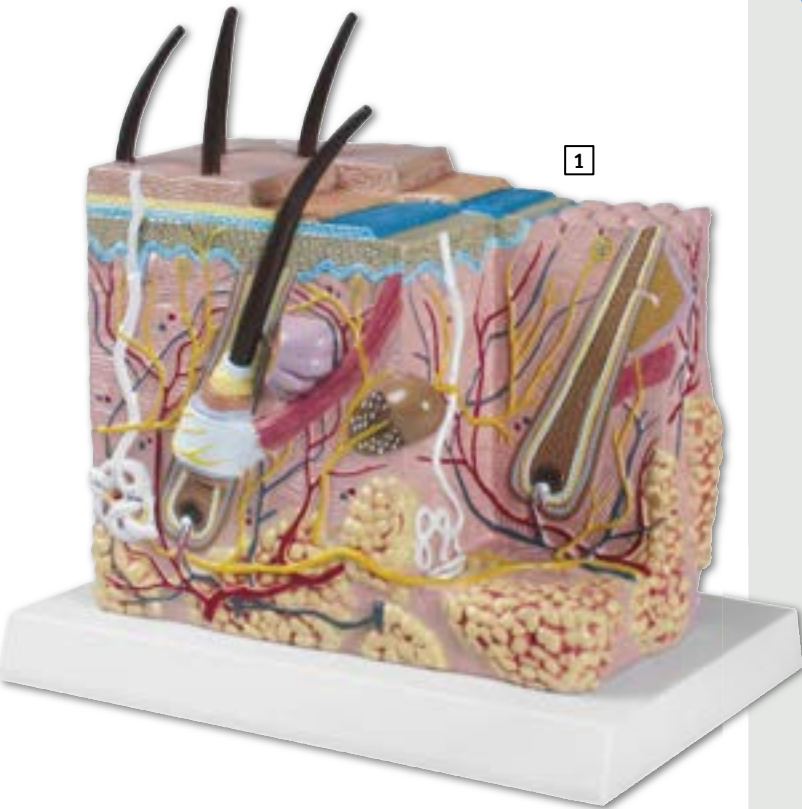
3

### 3 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





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

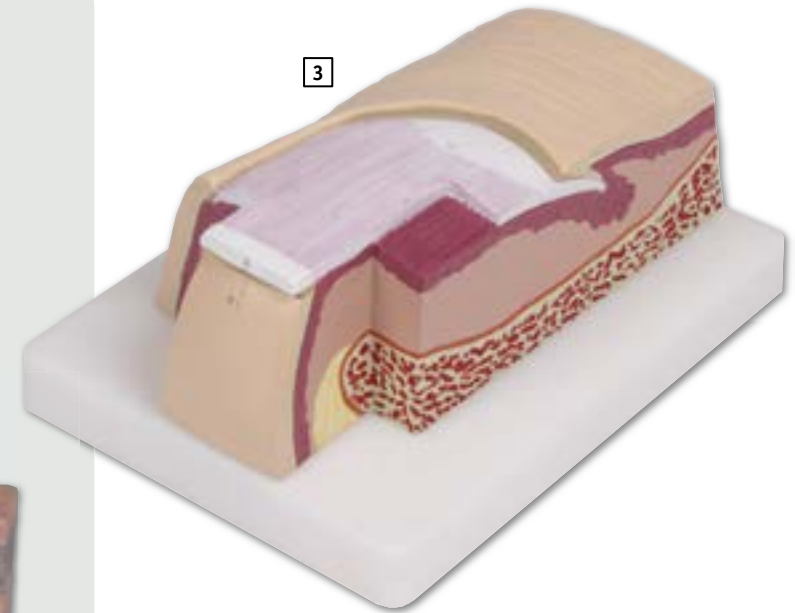
With this model it is easy to compare the structures of hairy and hairless skin: sensitive corpuscles, blood vessels, sweat gland, nerves, hair and hair root. Additionally a nail cross section model shows nail bed, nail plate and nail root. An enlarged hair root completes the model.

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

■ Ref.no. J214



2



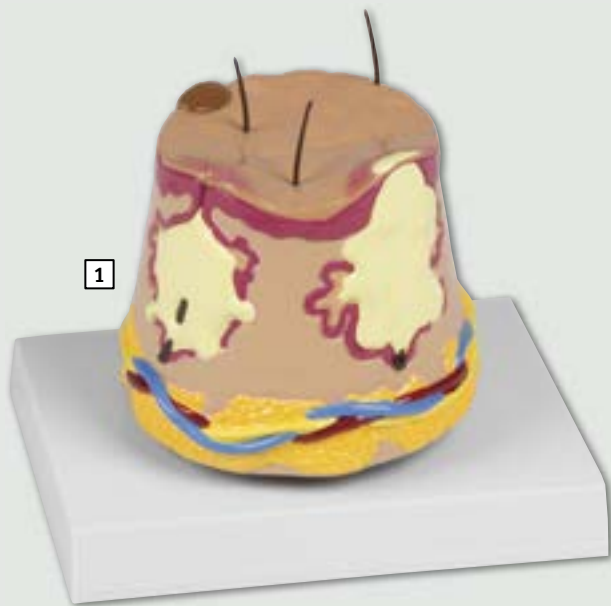
3

### 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



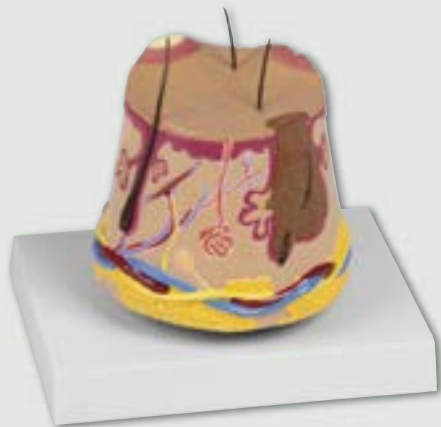
1

### 1 Skin Acne Model

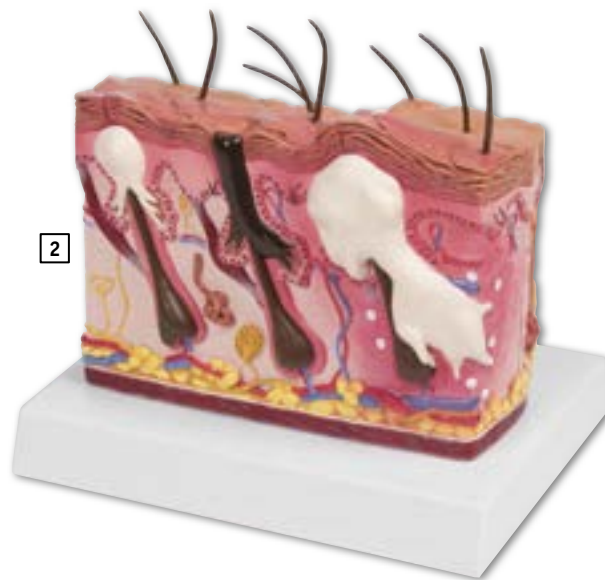
Enlarged cross section of skin. Relief detail displays acne pustule (pimple) on one side and open comedo (Blackhead) on backside. Also shown are epidermis, dermis & subcutaneous tissue details of normal skin.

**Size:** 10 x 10 x 11.5 cm

■ Ref.no. J50



rear view



2

### 2 Skin Model showing normal anatomy and skin acne

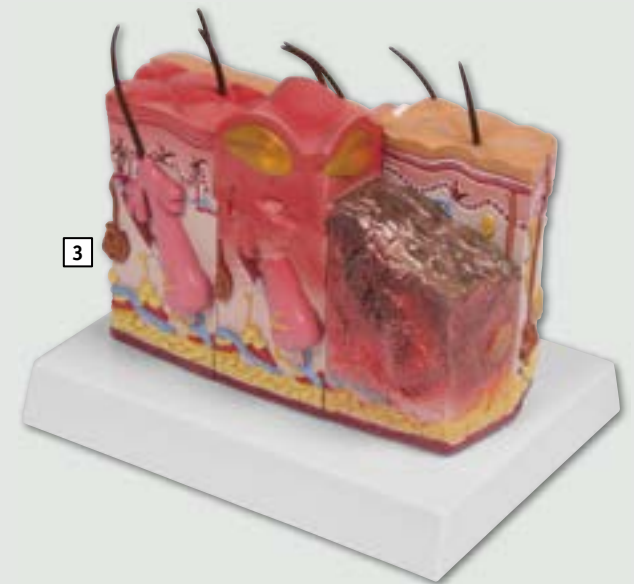
Enlarged 2-sided skin cross-section. The acne side of the model displays 3 conditions: whitehead, blackhead and pustule/cyst. The reverse side illustrates normal skin anatomy. With stand.

**Size:** 15 x 10 x 7 cm

■ Ref.no. J51



rear view



3

### 3 Skin Model showing normal anatomy and burn

Enlarged 2-sided skin cross-section. The burn side of the model shows indication of 1st, 2nd and 3rd degree burns. The reverse side illustrates normal skin anatomy. With stand.

**Size:** 15 x 10 x 7 cm

■ Ref.no. J65



rear view



### 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 Skin Cancer Model

This model features three cancerous conditions:

- NBC (Nodular Basal Cell),
- MM (Malignant Melanoma),
- MBC (Morpheic Basal Cell)

and three noncancerous conditions:

- DN (Dyplastic Nevi),
- KA (Keratoacanthoma) with basal layer and dermal layer cross-section detail.

**Size: 11.5 x 11.5 x 3 cm**

■ Ref.no. J55



rear view



### 3 Precancerous and cancerous Skin lesions

This model presents full size and enlarged views of dysplastic nevus, actinic keratosis, malignant melanoma, squamous cell carcinoma, and basal cell carcinoma skin lesions. Each disk has a 3-dimensional surface to help demonstrate the skin condition. Back side of disks presents additional lesion information.

**Size:**

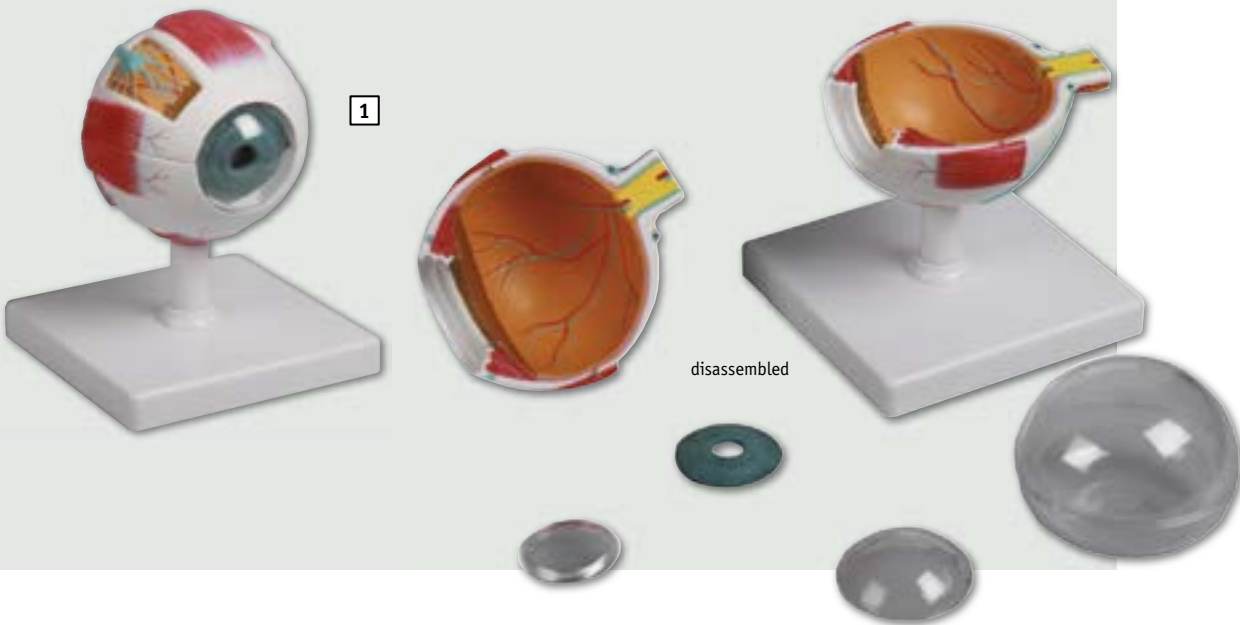
**Diameter 10 cm**

**Thickness 4 cm**

■ Ref.no. J56







**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



2

3



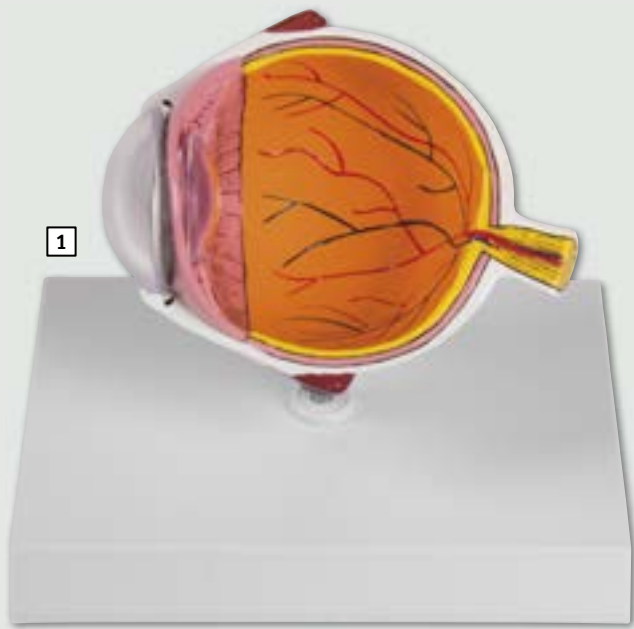
disassembled

**3 Eye with orbit and eyelid, 6 times life size, 15 parts**

This 15-part model in about 6 times life size shows the anatomy of the human eye. Removable parts are the eyelid, the eye muscles, and the eyeball. The eyeball can be divided horizontally into two halves of sclera with retina and eye muscle attachments as well as vitreous humour, lens, cornea and iris. On base board.

*Size: 31 x 29 x 50 cm*

■ Ref.no. F250



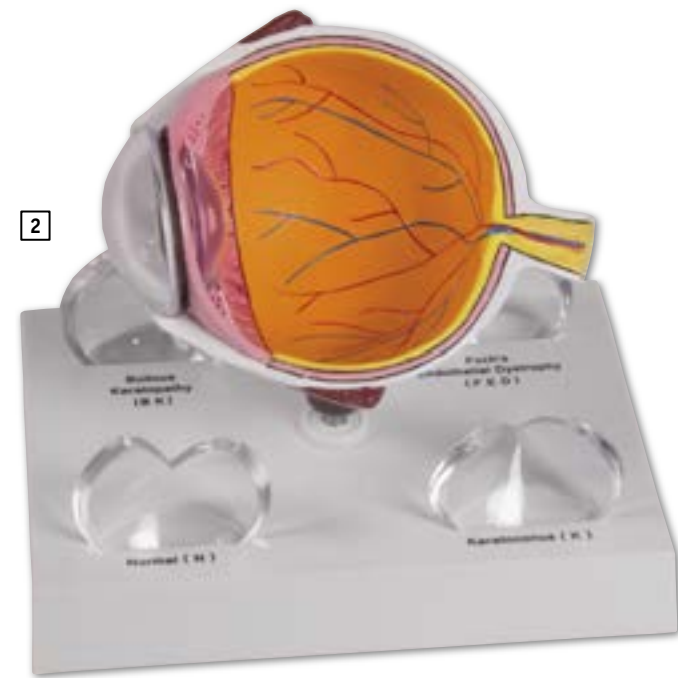
1

### 1 Eye half, enlarged

This three part model shows the inner anatomy of a human eye. Lens and cornea are removable. On stand.

**Size:** 12.5 x 10 x 9.5 cm

**Ref.no.** F25



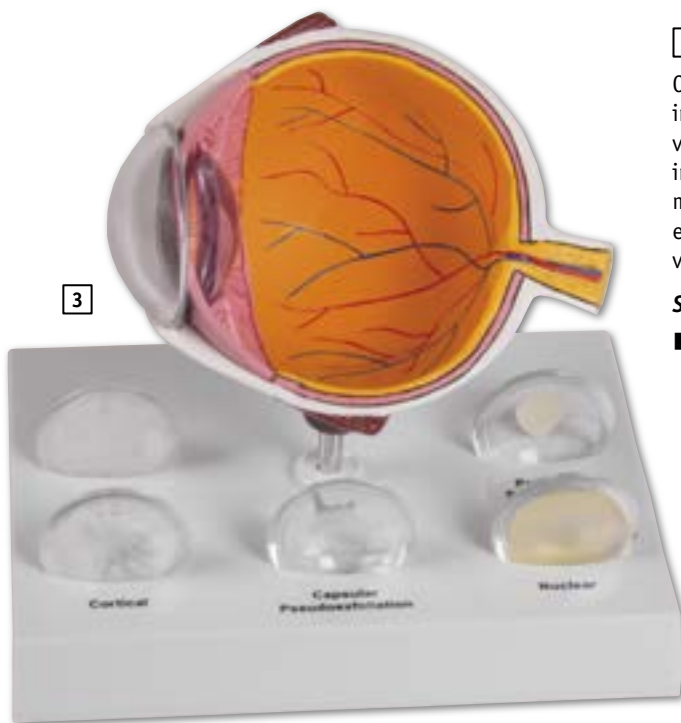
2

### 2 Cornea Eye Cross-Section

This normal oversized eye model includes 4 interchangeable corneas that show various cornea conditions including: bullous keratopathy, Fuch's endothelial dystrophy, keratoconus and normal.

**Size:** 13 x 8 x 13.5 cm

■ **Ref.no.** F85



3

### 3 Cataract Eye Model

Oversized eye model including interchangeable lenses that show various types of cataract conditions including subcapsular, capsular, mature, cortical and nuclear. The education card also highlights the visual effect of glaucoma.

**Size:** 13 x 11 x 10 cm

■ **Ref.no.** F80

### 4 Eyeball with Functional Lens, 6-times full-size, 5-part

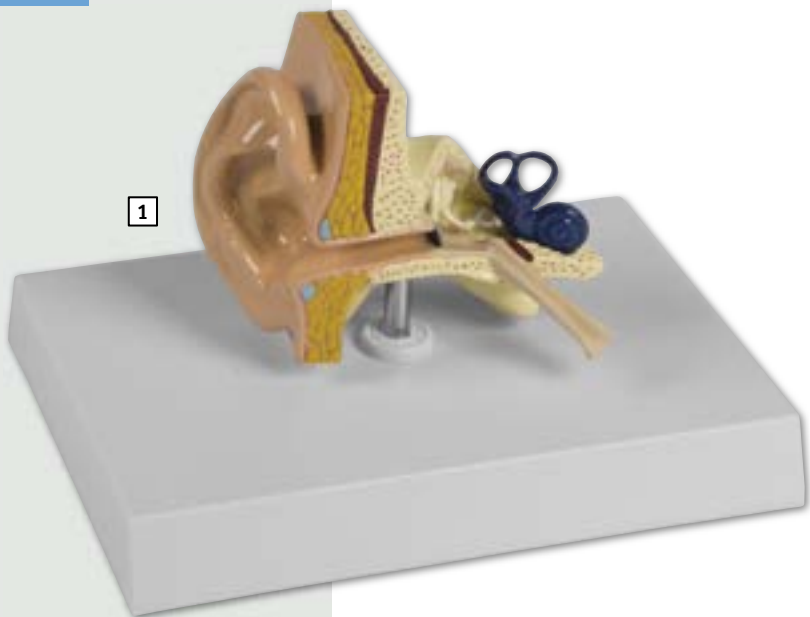
Featured on the exterior of the cornea are the large lacrimal gland, muscle attachments, optic nerve and blood vessels. To study interior features, the iris/cornea unit can be removed as can the functional lucite lens which magnifies and forms inverted images. Removing the transparent vitreous body exposes 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



4



1

### 1 Ear model, life size

This model shows outer, middle and inner ear in real size and position. It shows the eardrum with hammer and anvil as well as the labyrinth with stirrup and cochlea. On stand.

*Size: 10 x 6.5 x 7.5 cm*

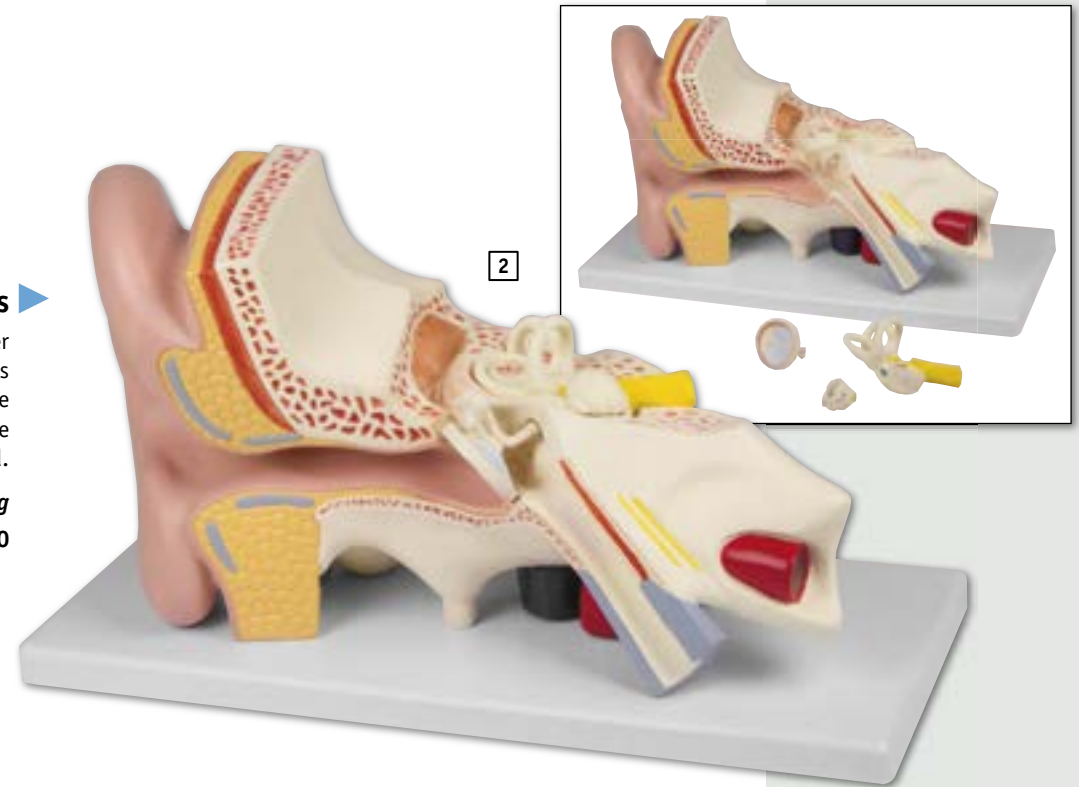
■ Ref.no. E20

### 2 Ear, 3 times life size, 4 parts

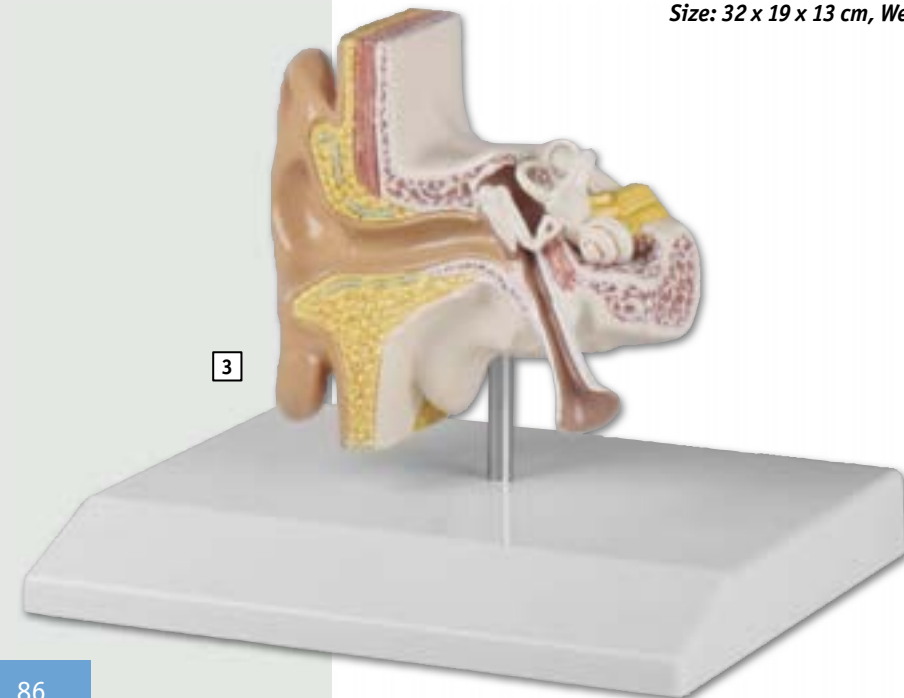
This model shows the details of the external, middle and inner ear in three times life size. The eardrum with malleus, incus and stapes can be removed. Additional removable part is the cochlea and labyrinth with vestibular and cochlear nerves, one half of the cochlea can be removed. Mounted on baseboard.

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

■ Ref.no. E210



2



3

### 3 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*

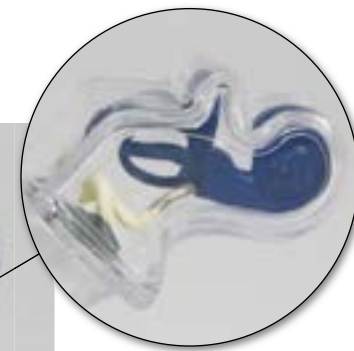
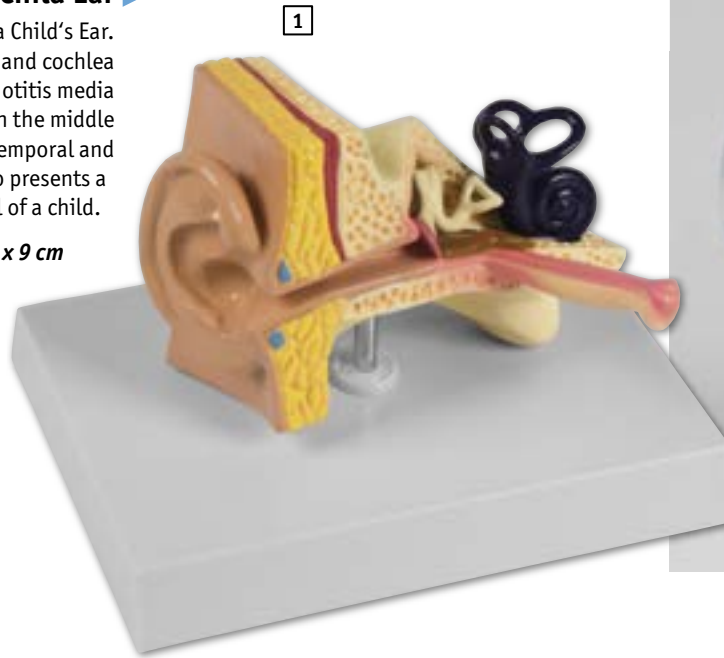
■ Ref.no. E220



### 1 Child Ear

One and one half times the size of a Child's Ear. Illustrating semi-circular canals and cochlea of the inner ear; auditory ossicles, otitis media (inflammation and simulated fluid in the middle ear); tympanic membrane and temporal and tympani muscles; the model also presents a horizontal eustachian tube typical of a child.

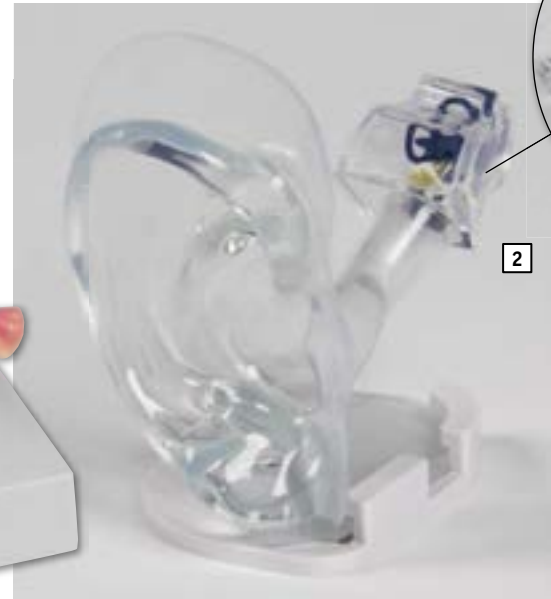
*Size: 12 x 10 x 9 cm*  
*Base: 16 x 13 cm,*  
*Weight: 0.5 kg*  
■ Ref.no. E25



### 2 Life Size normal clear Ear

Full size model of a human ear is clear to aid viewing of ear canal, tympanic membrane, stapes, incus, malleus and cochlea of the inner ear.

*Size: 9.5 x 6.3 x 7 cm*  
■ Ref.no. E133



### 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

### 1 Clear Human Jaw with Teeth

Full size hinged clear cast jaw to allow viewing of roots. Healthy side shows normal dentition and occlusion. Affected side shows multiple pathologies, including: super eruption, apical alveolar abscess with caries, periodontal disease, lateral abscess, abfraction, irregular root curvature, impacted canine, erosion, fractured tooth, horizontal impact, radicular pulpitis, root canal with crown, internal resorption, attrition, external resorption of root, implants, and fractured root.

■ Ref.no. D19



2

### 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



3

### 3 TMJ Joint model

TMJ-Temporomandibular Joint model, demonstrating the problematic conditions associated with the joint capsule. Emphasis on the disc, surrounding bone inflammation, and also the effects on the teeth, (cracks, chips, cavities, and characteristics of bruxism).

Size: 15 x 15 x 16.5 cm

■ Ref.no. 4511



4



**4 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.

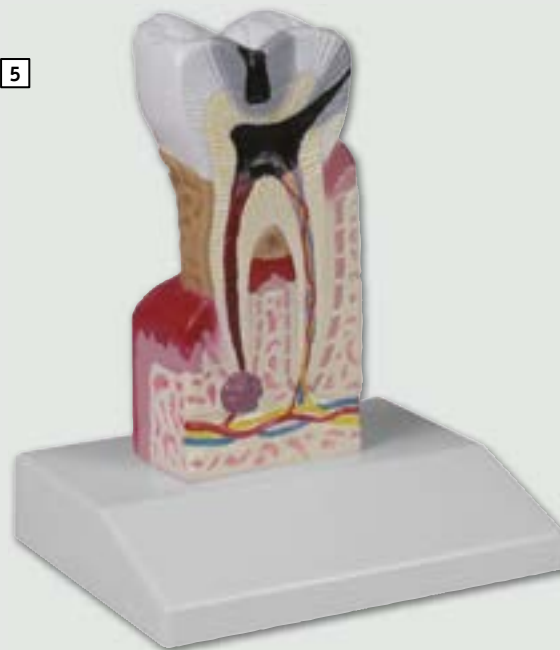
**Size: 17 x 10 x 5 cm, Weight: 0.4 kg**

■ Ref.no. D250



rear view

5



**5 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

6



**6 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







**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*

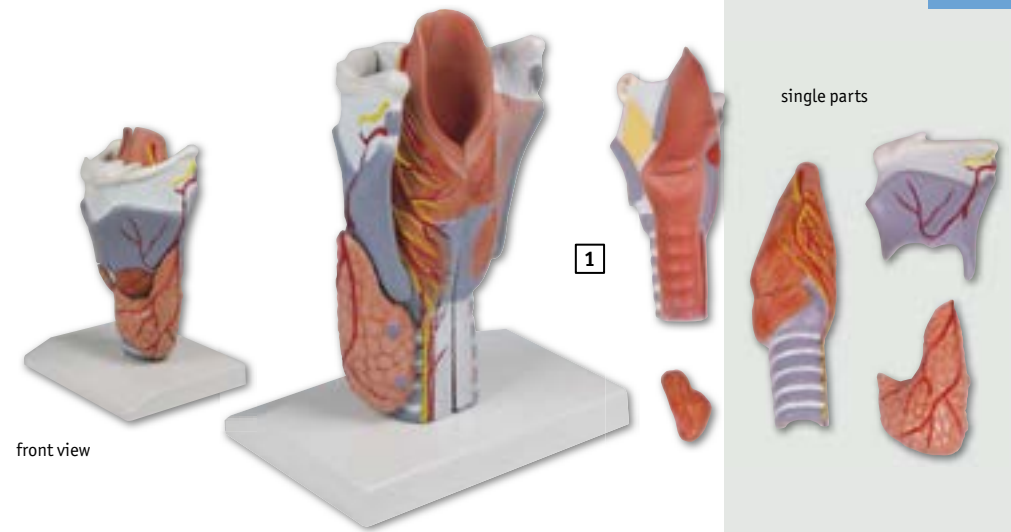
■ Ref.no. LM104

**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



rear view

front view

single parts

single parts

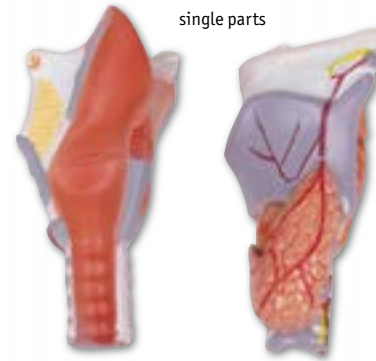
2

**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

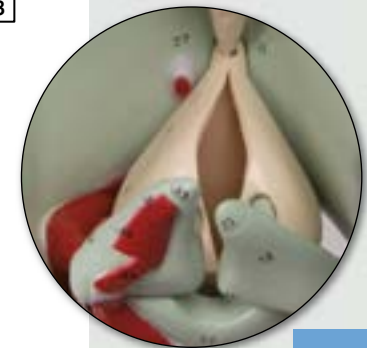


**3 Functional larynx, 4 times life size**

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



3

**4 Thyroid diseases**

Set of 4 average size thyroids and larynx. Models show normal thyroid, Hashimoto's thyroiditis (lymphocytic thyroiditis), Graves' disease, papillary carcinoma and the following structures: hyoid bone, thyroid membrane, thyroid cartilage, cricoid cartilage, and trachea.

**Size: Larynx 14 cm, Thyroids: approx. 5 x 4 x 5 cm**

■ Ref.no. G11



4

1



### 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*

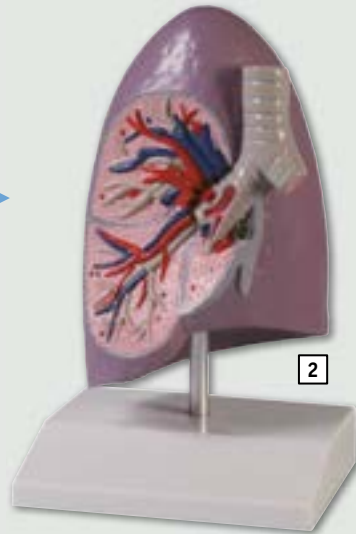
■ Ref.no. G216

### 2 Lung half, life size

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

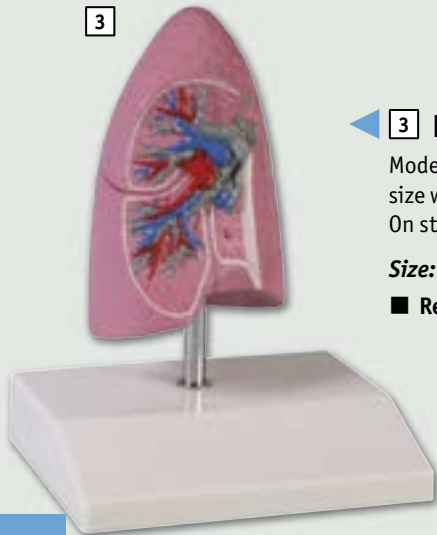
*Size: 14 x 12 x 23 cm, Weight: 0.3 kg*

■ Ref.no. G253



2

3



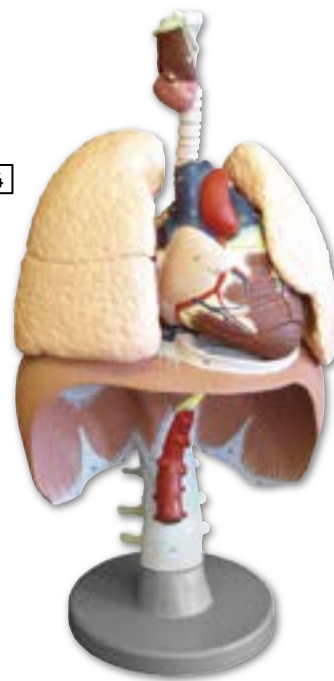
### 3 Lung half, 1/2 life size

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

4



### 4 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.

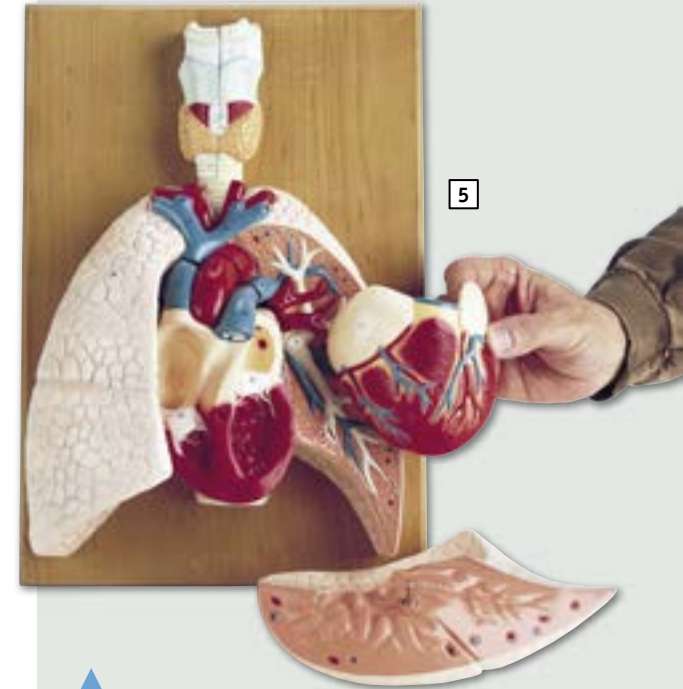
*Size: 41 x 23 x 19 cm*

■ Ref.no. G410



rear view

5



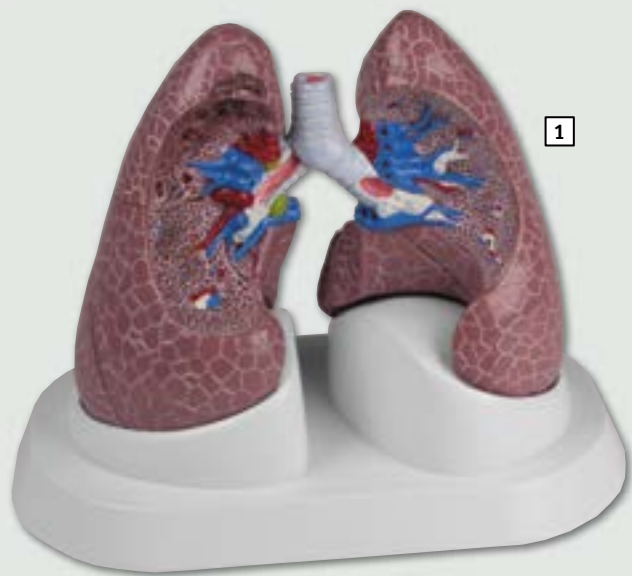
### 5 Cardiopulmonary system

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



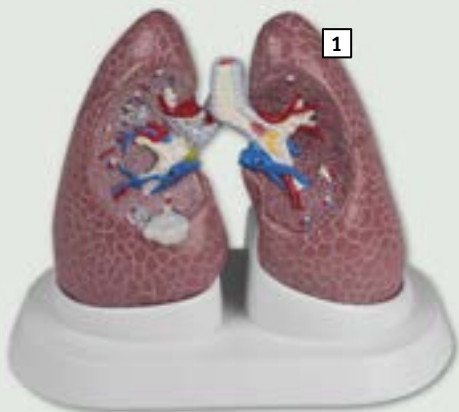


### 1 Lung set with pathologies

Full size 2-sided model of two separate lungs with 4 cutaway sections illustrating normal anatomy and the effects of COPD (Chronic Obstructive Pulmonary Disease), cancer and asthma.

**Size:** 11 x 14 x 21 cm each

■ Ref.no. G52



rear view



### 2 Bronchus stages model

4 stage cross-section of the bronchus demonstrating the tissue changes occurring in asthma and chronic bronchitis.

#### 4-stages:

- normal bronchus
- hypersecretion of the mucous gland
- swelling with lymphoid aggregations
- smooth-muscle spasm.

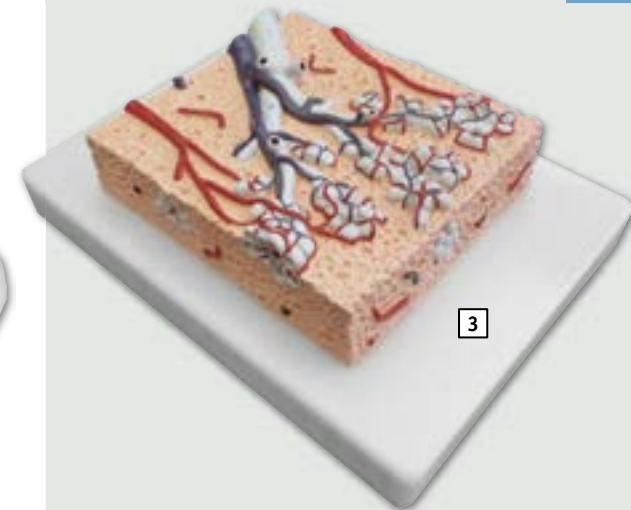
The model includes: cartilage, mucous glands and plug, spiralling smooth muscles, and the fibroelastic connective tissue and epithelial layers of the bronchus. All stages rotate on hinge pin.

**Diameter:** 3.8 cm, **Size:** 10 cm, **Weight:** 0.1 kg

■ Ref.no. G33



open

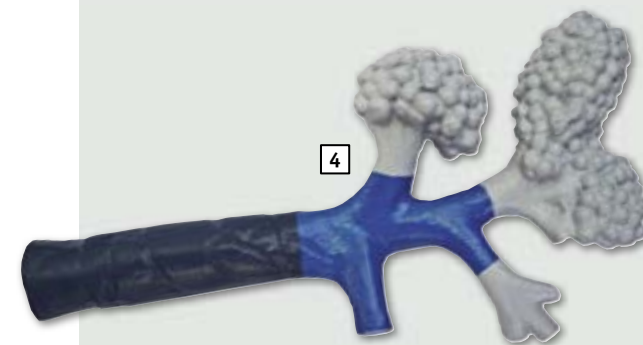


### 3 Lung lobule

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

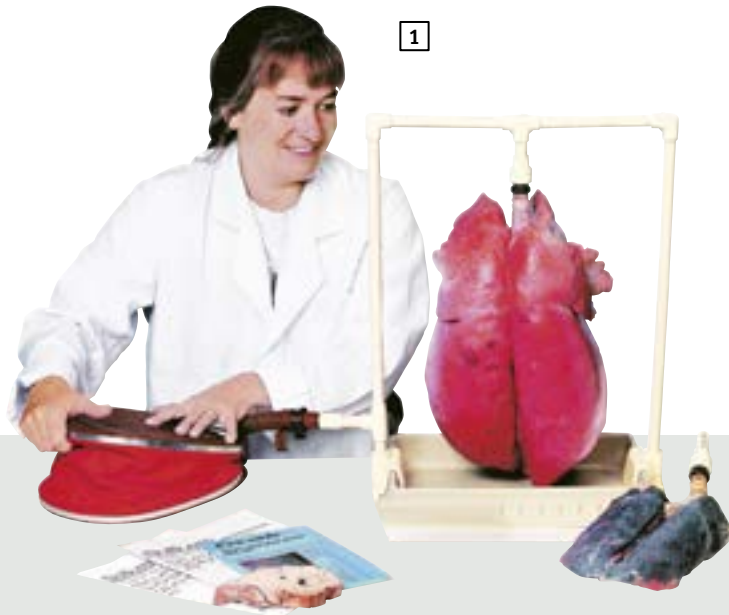


### 4 Bronchioles

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

**Length:** 13 cm

■ Ref.no. G430

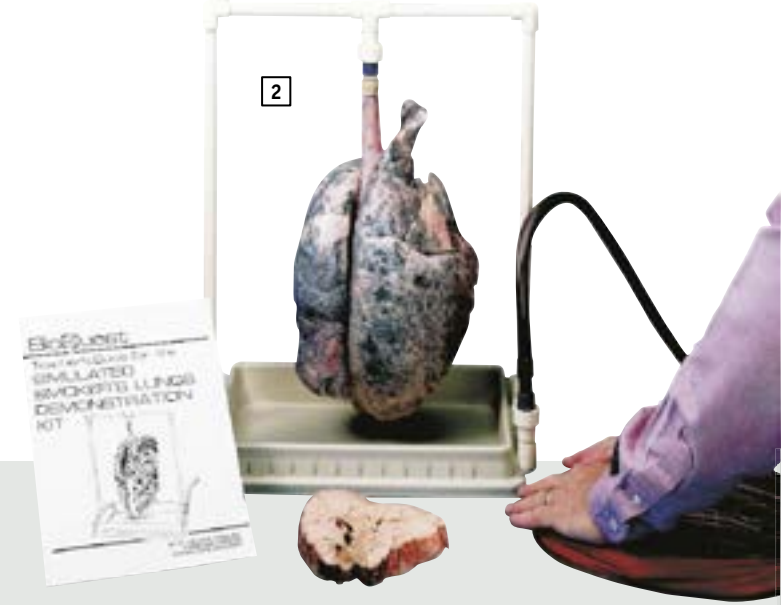


1

### 1 Lung demonstration model

This model contains a natural swine lunge that was preserved by a special technology to be long lasting, odour free and flexible. The lung is fixed on a stand and can be inflated by a supplied pump. This impressive model is very close to the human anatomy and provides an incredible possibility to see how a real lung inflates and deflates. Supplied with a lung cross section to see the internal structure.

■ Ref.no. R10060



2

### 2 Smokers lung model

Lung model as R10060, but this lung was stained realistically before the preservation process. It looks like a real smokers lung and works like the model R10060. Supplied with smokers lung cross section. Stand and Pump.

■ Ref.no. R10061



4

### 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



3

### 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

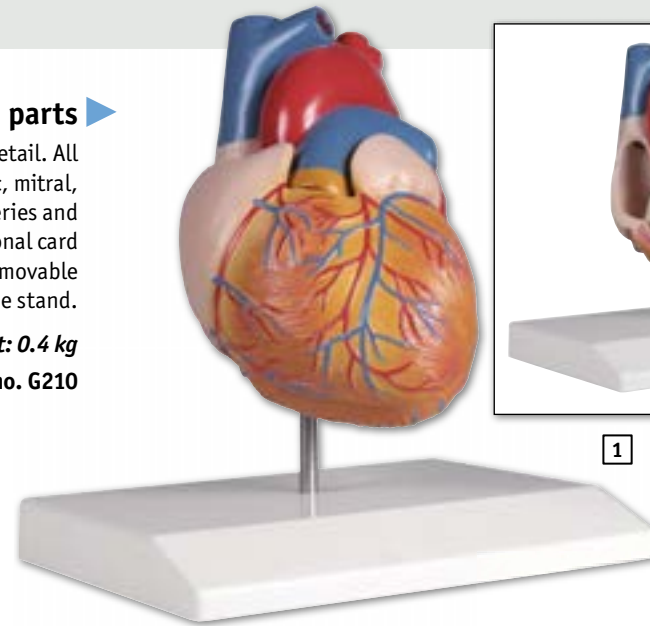


### 1 Heart model, life size, 2 parts ▶

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



1

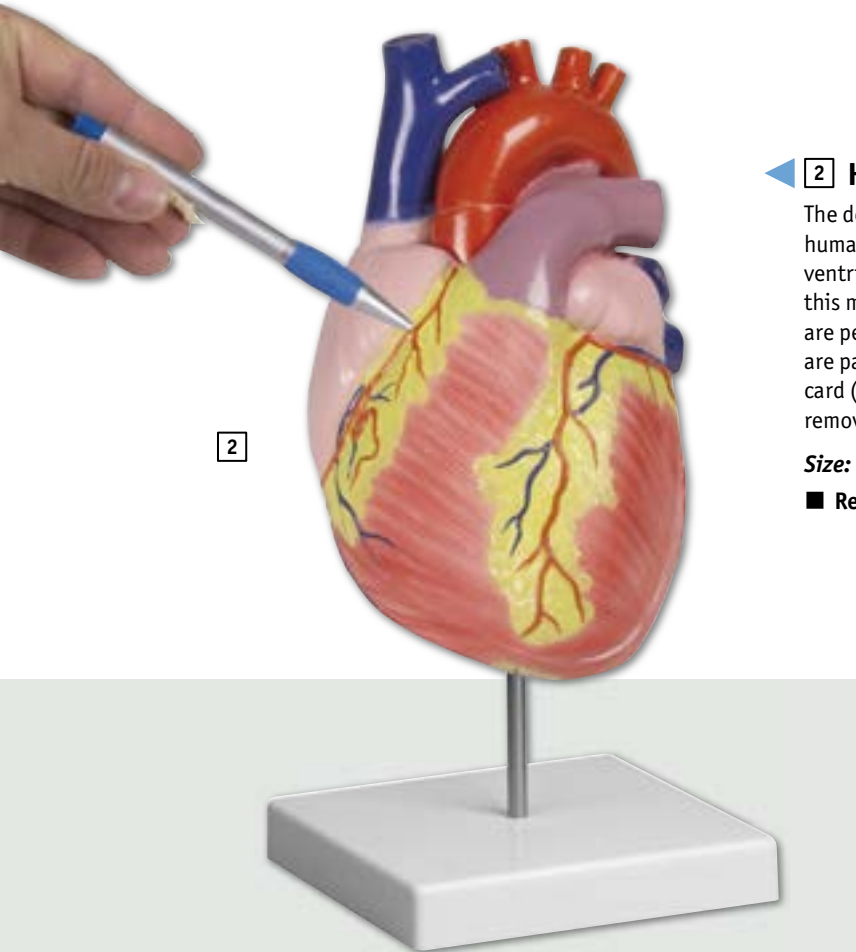
disassembled

### 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



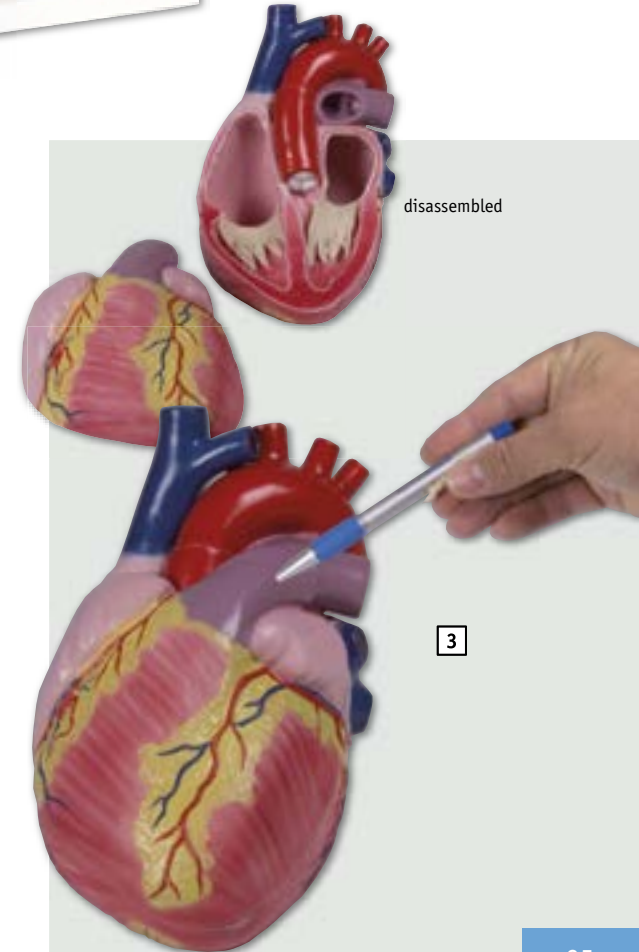
2

### 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**

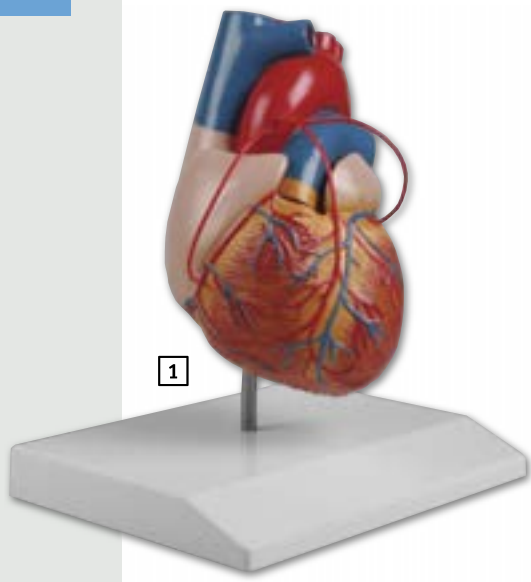
■ Ref.no. G254



3

disassembled





### 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

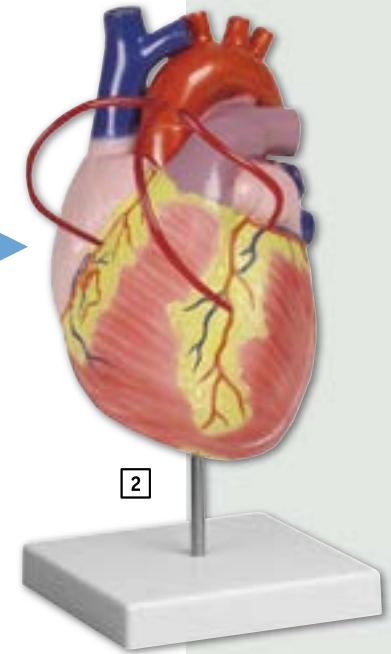
■ Ref.no. G205

### 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 diseases Model

Normal heart anatomy; myocardial infarction heart demonstrating a partially healed, thinned, and discolored infarcted area. Including a thrombus in the apex of the heart; and a heart demonstrating congestive heart failure as a result of hypertension. The left ventricle hypertrophy and the correspondingly enlarged and distorted shape of the heart is shown both internally and externally. All models are approximately 50% actual size.

**Sizes:** approx. 10 x 6 x 6 cm , **Weight:** 0.8 kg

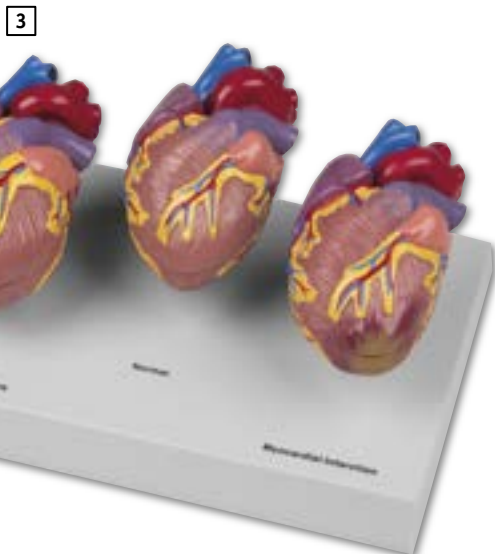
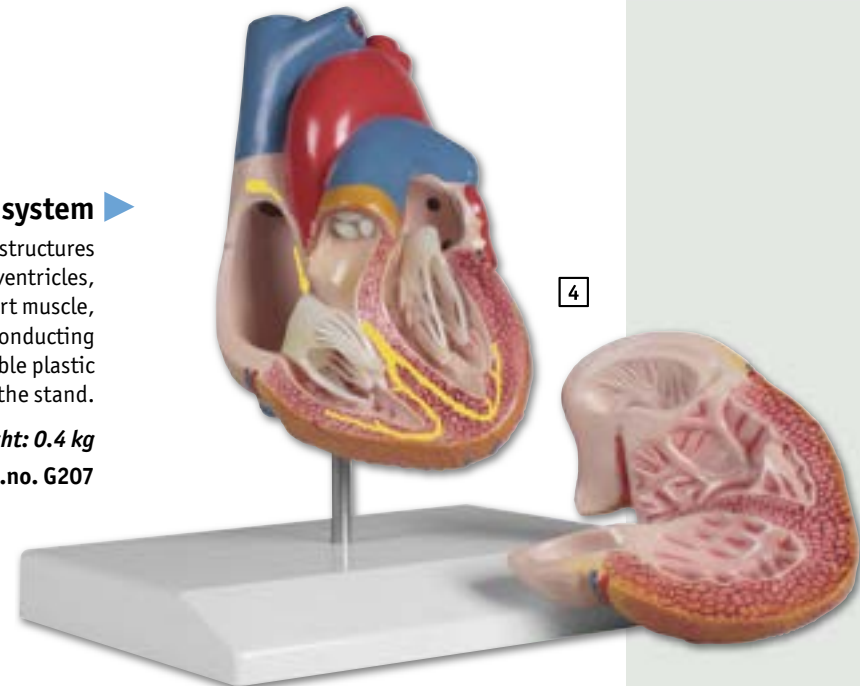
■ Ref.no. G70

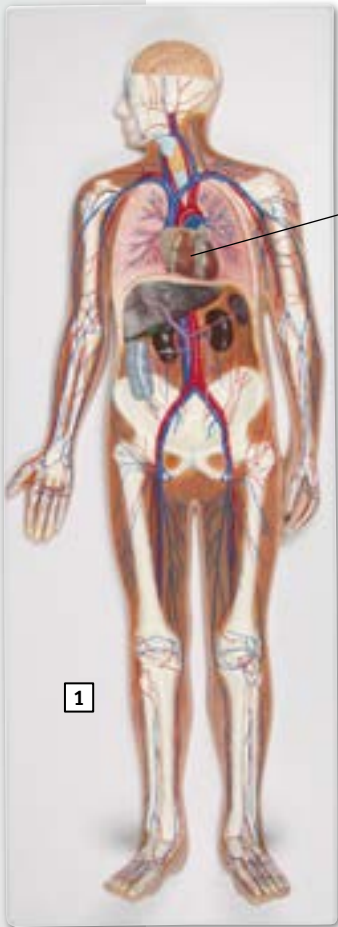
### 4 Heart model, 2 part, with conducting system

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

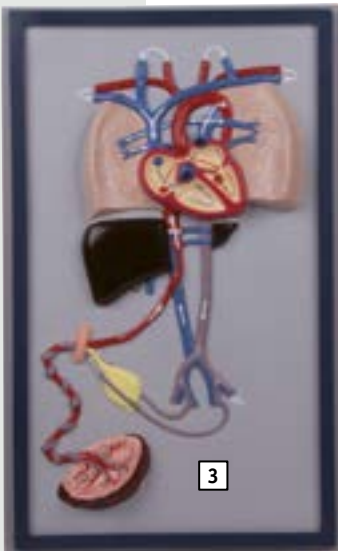
### 1 Circulatory system, relief model, 1/2 life size

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



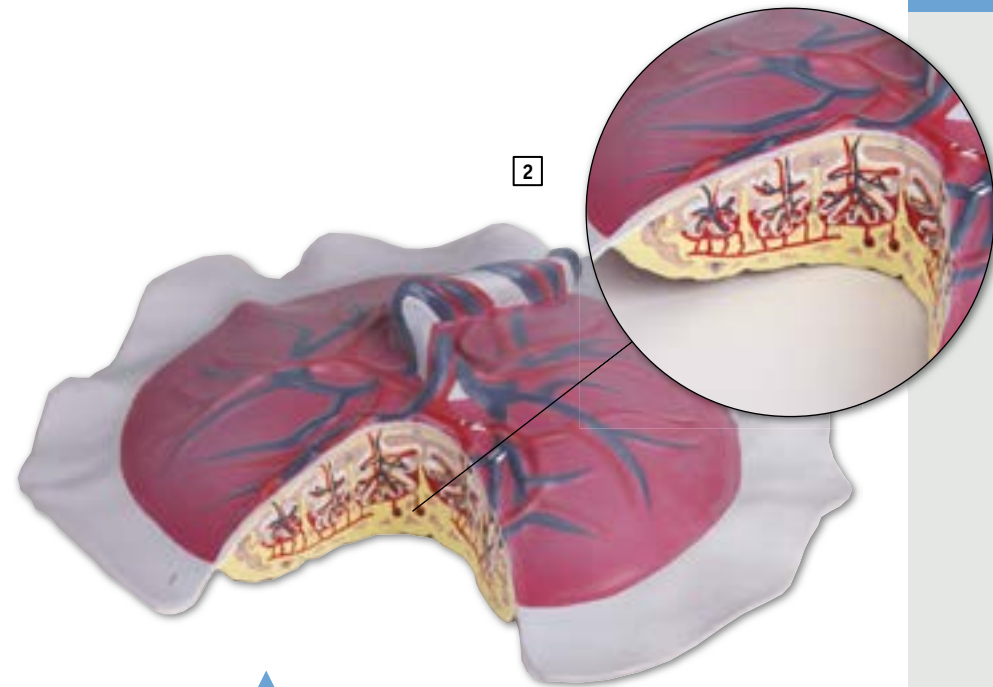
3

### 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

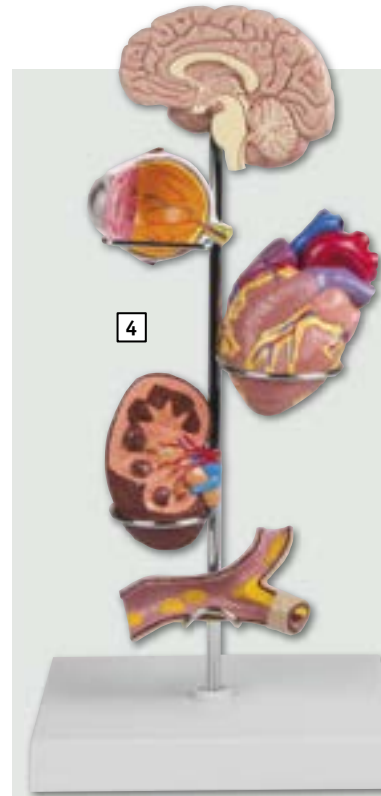


2

### 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



4

### 4 Hypertension model set

Miniature brain, eye, heart, kidney and artery models to explain the organ damage caused by hypertension. A key card describes the effects associated with hypertension: glaucoma, arthritis, arterial plaque, kidney failure and stroke.

**Size: approx. 35 cm,  
Models approx. 1/2 life size.**

■ Ref.no. G37

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.

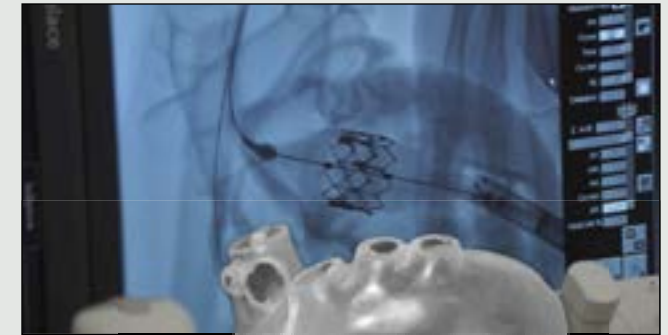
Reproduced sections: (external & luminal surfaces) right atrium, left atrium / right ventricle, left ventricle / aorta / superior & inferior vena cava / pulmonary vein / coronary artery, veins (luminal) mitral valve, tricuspid valve, aortic valve, pulmonary valve / papillary muscle / coronary sinus

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.

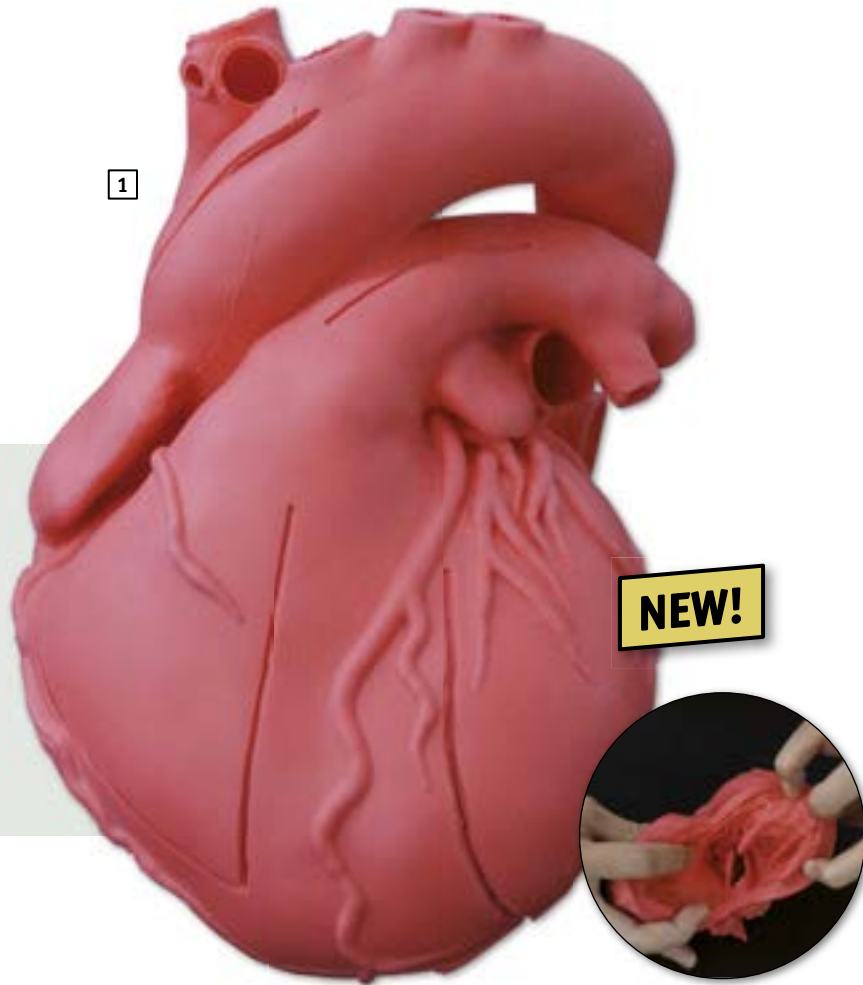
#### Uses of the model:

- 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



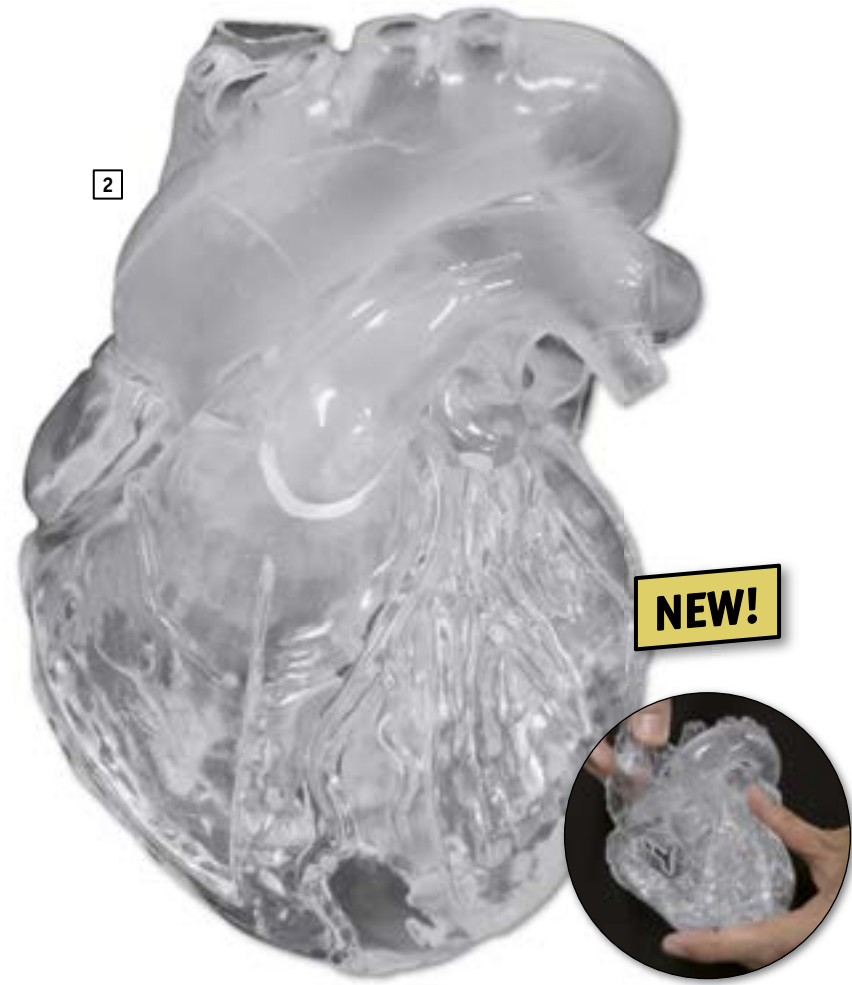




▲ **1 Heart model, flexible, didactical version**

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.

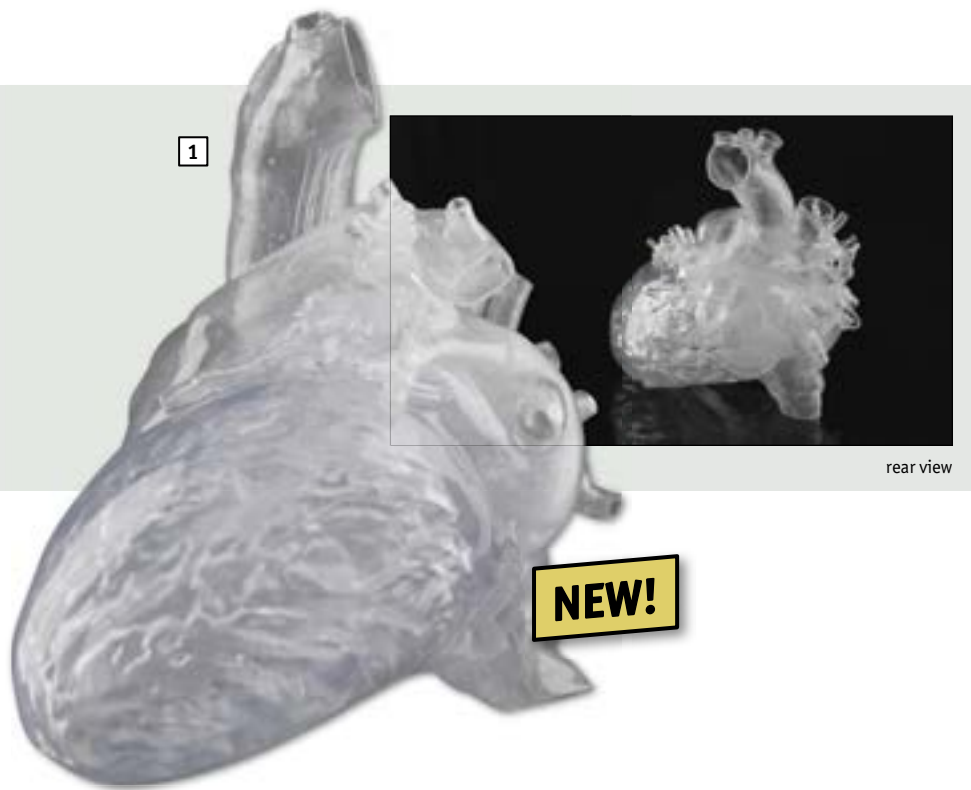
■ Art.Nr. G500



▲ **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.

■ Art.Nr. G510



### 1 Transparent reproduction of a real human heart

This reproduction of a real human heart of a 76year man was created out of DICOM files and is exactly like the real heart. It is made of transparent plastic und 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 transparant coronaries
- Right and left ventricle trabeculations and main papillary muscles
- Visualization cuts in the ventricles

**Size:** 7.5 x 6 x 9.3 cm

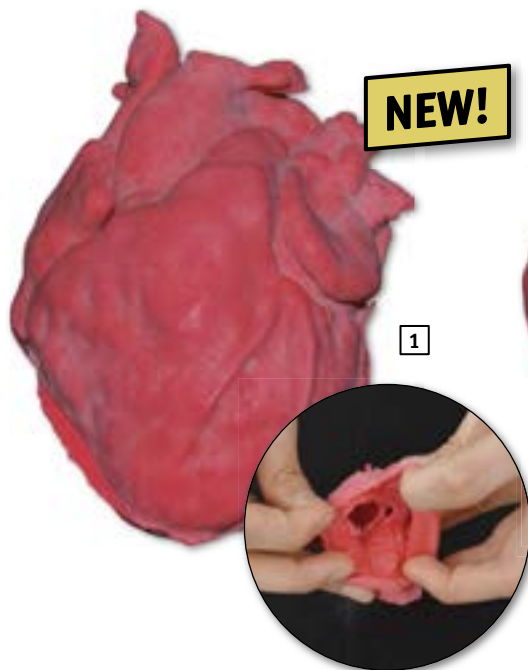
■ **Ref.no.** R50320

▼ **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

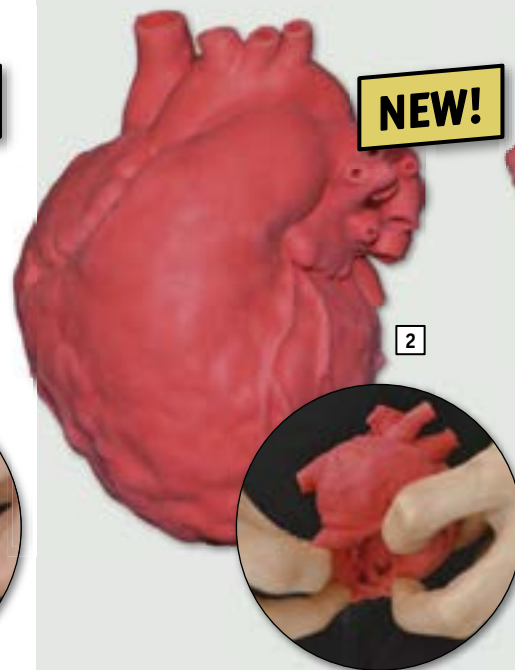


▼ **2 Pediatric heart with atrial septal defect (ASD)**

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

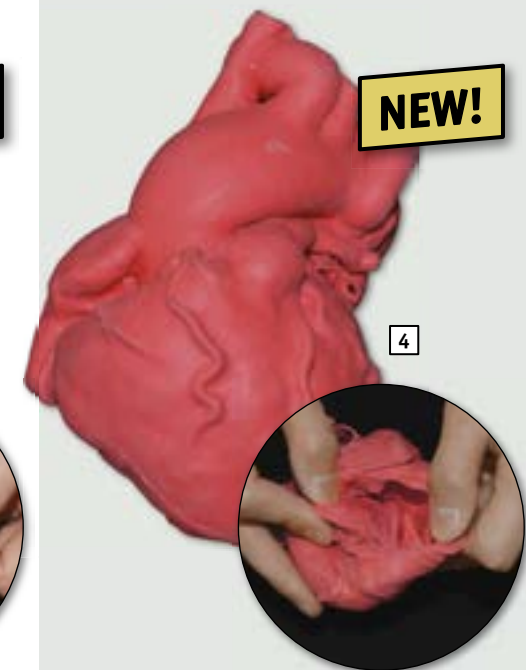


▼ **4 Pediatric heart with tetralogy of Fallot (TOF)**

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



### 1 Artery Model, 4 sections

4-stage cross-section of an artery demonstrating atherosclerosis in which the narrowing of the artery is due to a buildup of fatty tissue (cholesterol) and plaque.

#### 4-stages:

- normal artery
- fatty streak
- fibrous plaque
- blockage

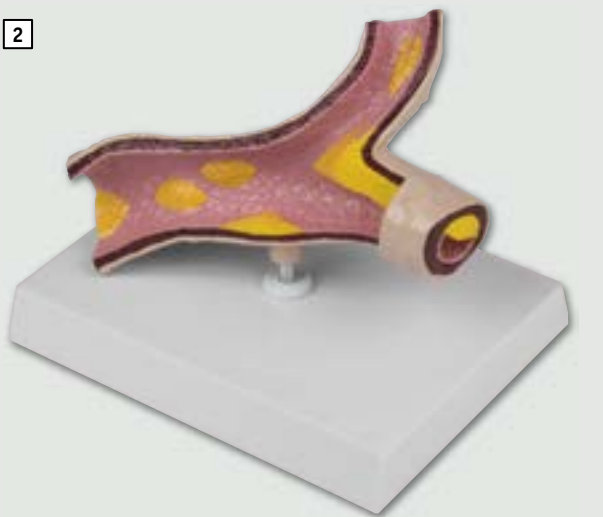
The stages cause a decrease in blood flow, which can lead to a blood clot or thrombus. All stages rotate on hinge pin.

**Diameter:** 3.5 cm, **Size:** 9 cm

**Weight:** 0.1 kg

■ Ref.no. G65

2



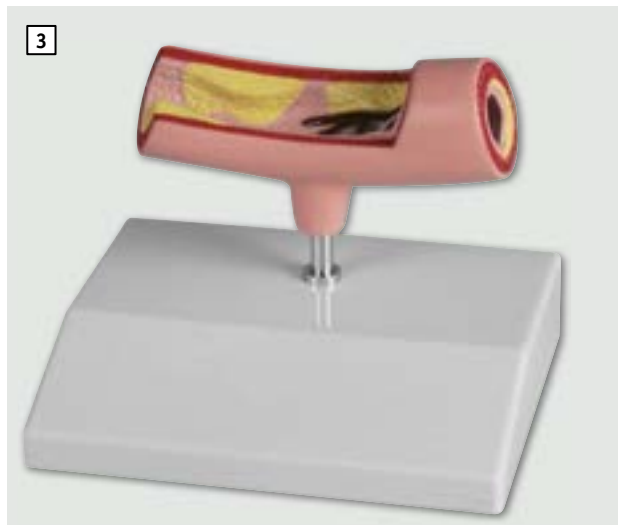
### 2 Arteriosclerosis-Model, 1-part

Enlarged Artery fork with cut-away to show gradual build up of cholesterol deposits.

**Size:** 16.5 x 4 x 10 cm

■ Ref.no. G60

3



### 3 Artery model

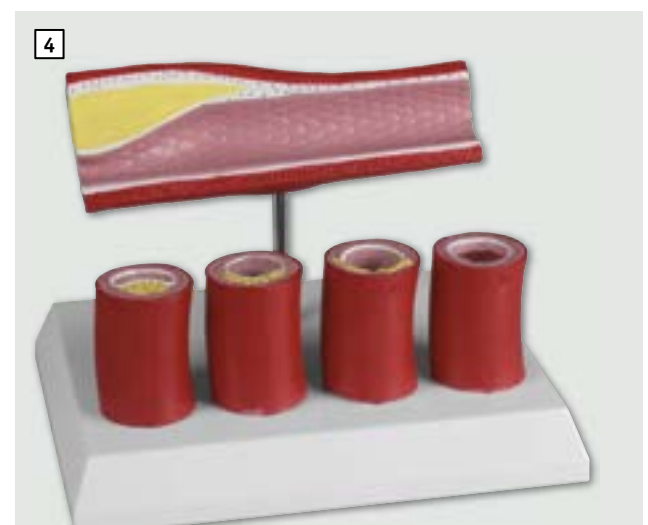
Longitudinal section of an artery with constriction caused by plaque adsorption and a blockage caused by a thrombus.

**Size:** 10 x 4 x 4 m

**Weight:** 0.1 kg

■ Ref.no. G241

4



### 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 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

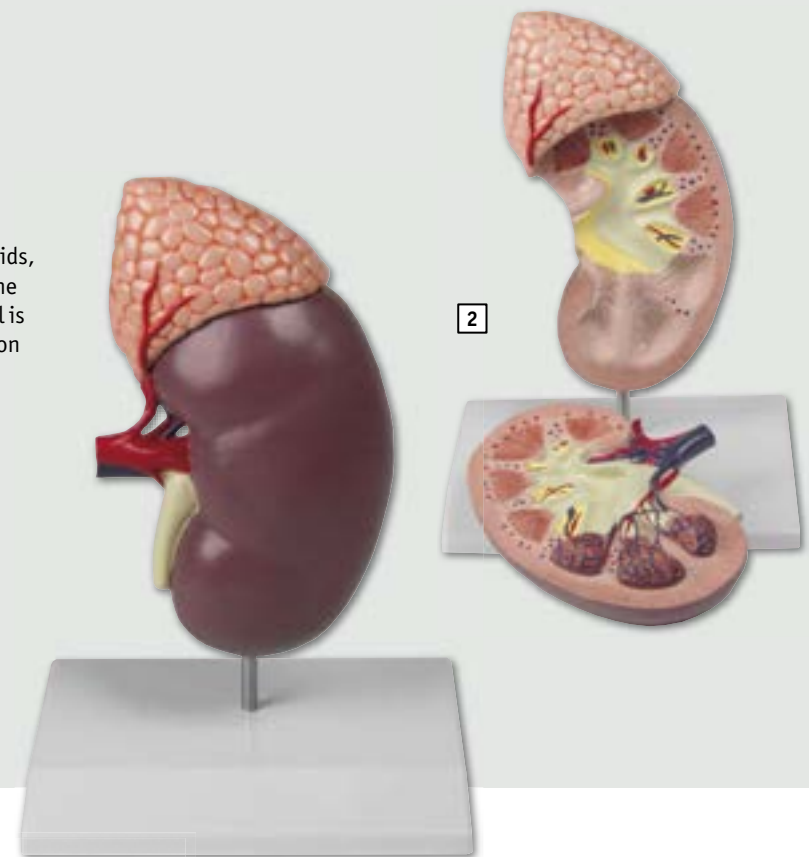


▢ **2 Kidney with Adrenal Gland, 2 times enlarged, 2-part**

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.

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

■ Ref.no. K213

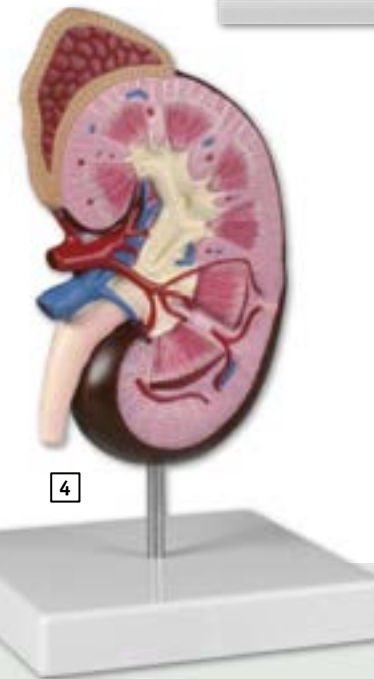
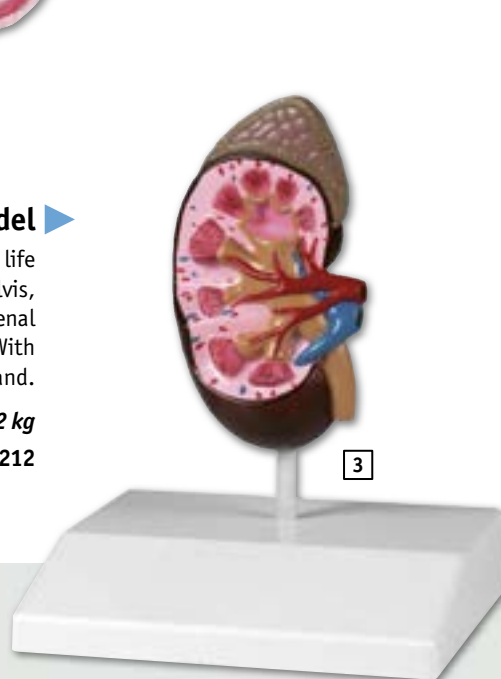


▢ **3 Kidney model**

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

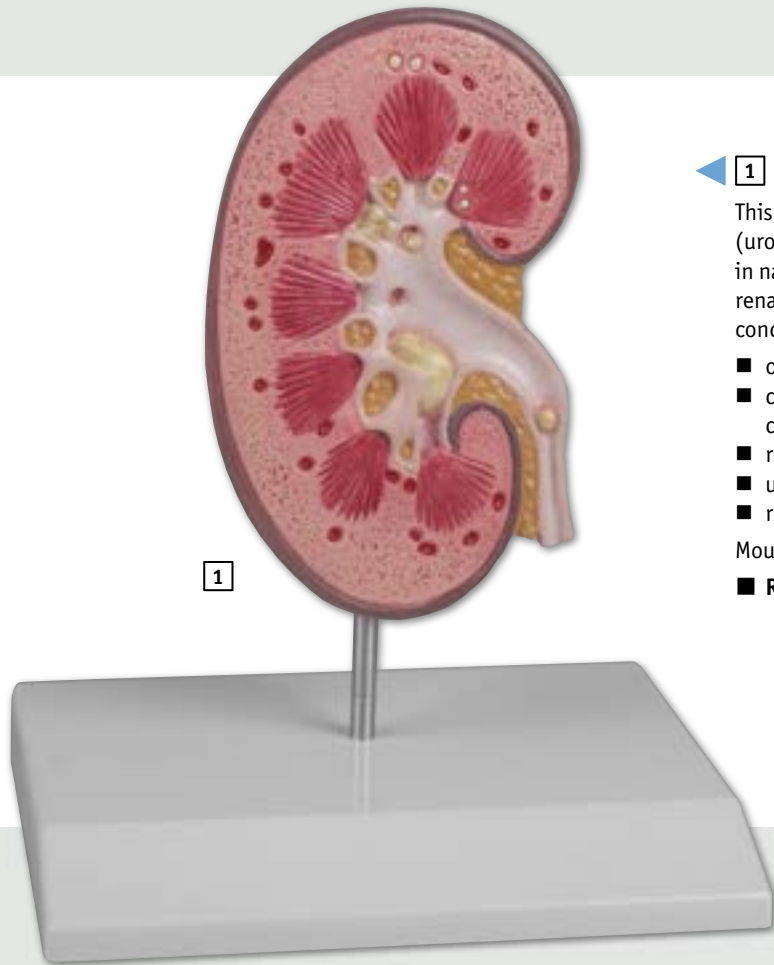


◀ **4 Kidney model, 2 times life size**

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 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.

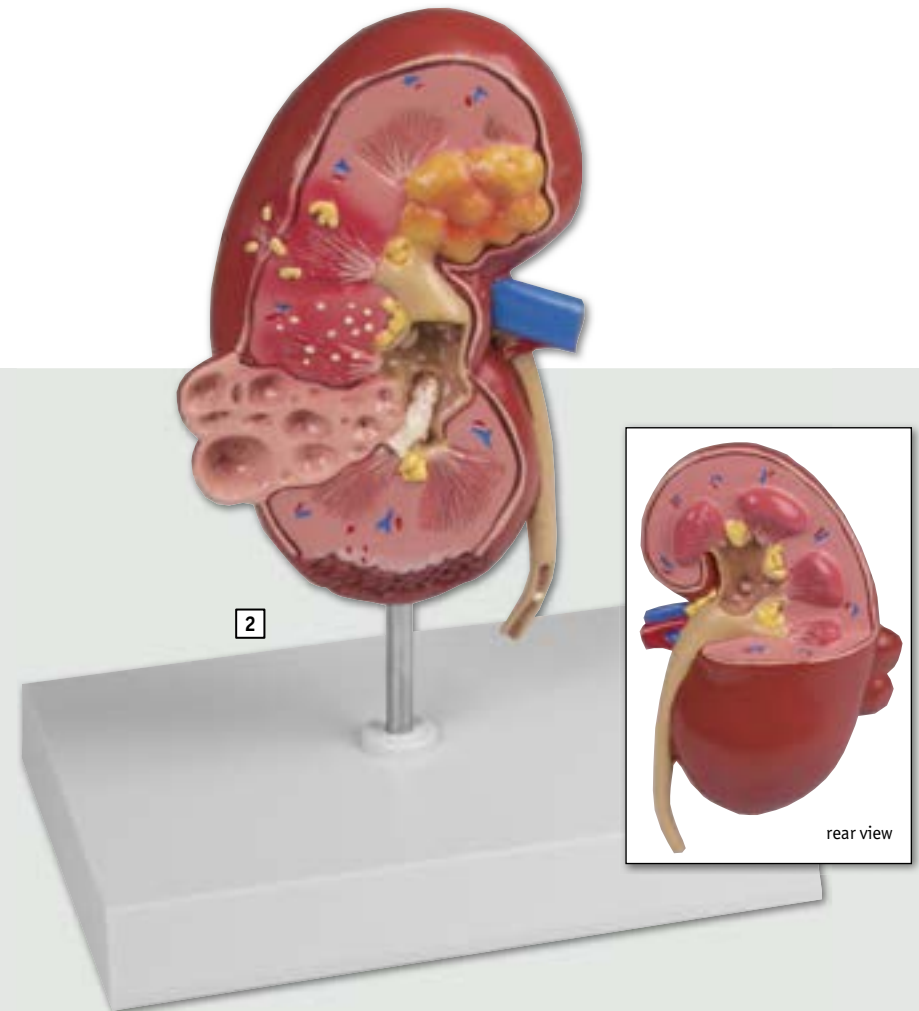
■ Ref.no. K229

### 2 Kidney model – Normal and Pathology

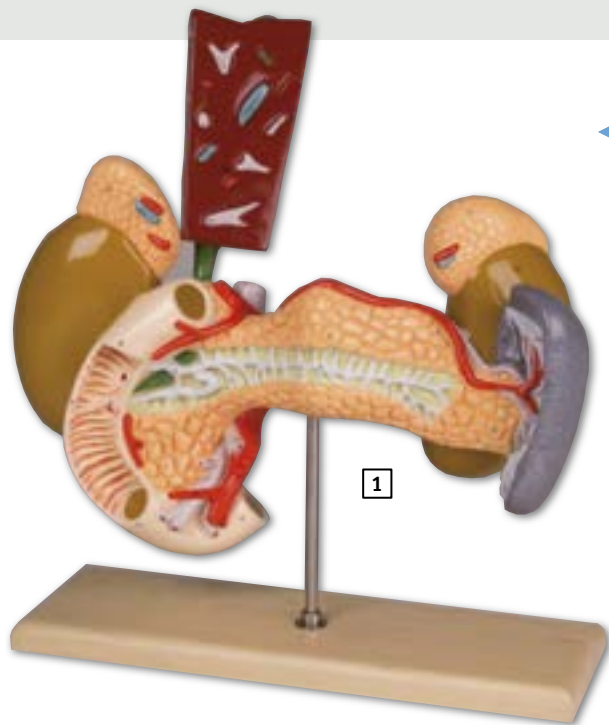
This oversized 2-sided kidney model has a normal anatomy cutaway on one side and a diseased anatomy cutaway on the other side depicting: infection, scarring, atrophy, urinary (kidney) stones, tumor, polycystic disease, hypertension effects

*Size: 9 x 5 x 16.5 cm*

■ Ref.no. K62







### 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

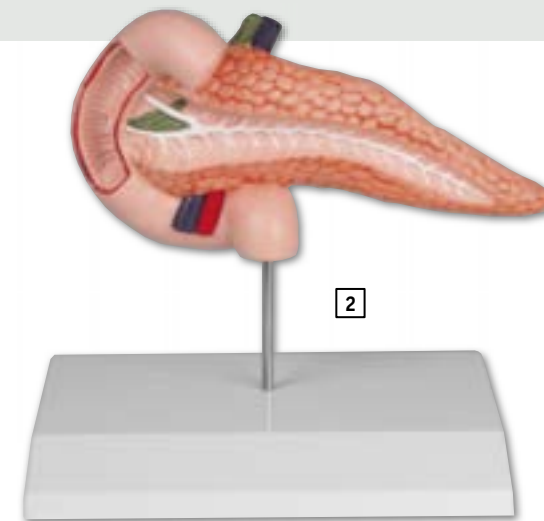
### 2 Pancreas and duodenum

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

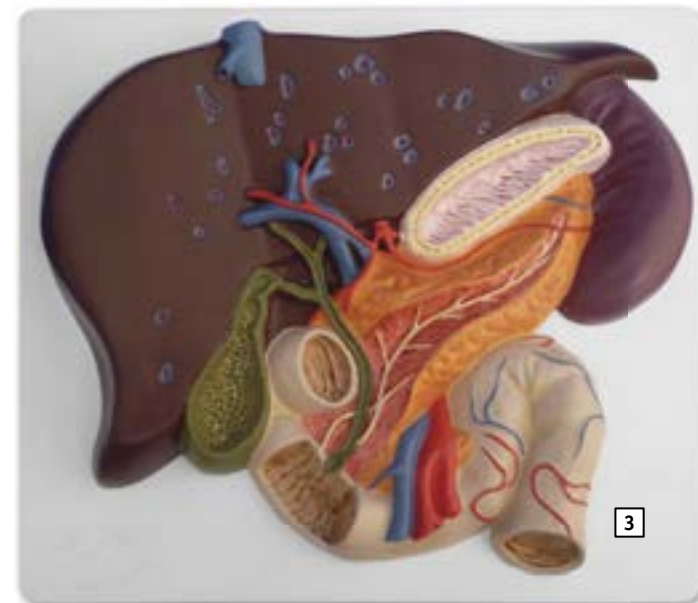


### 3 Liver with gall bladder, pancreas and duodenum

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

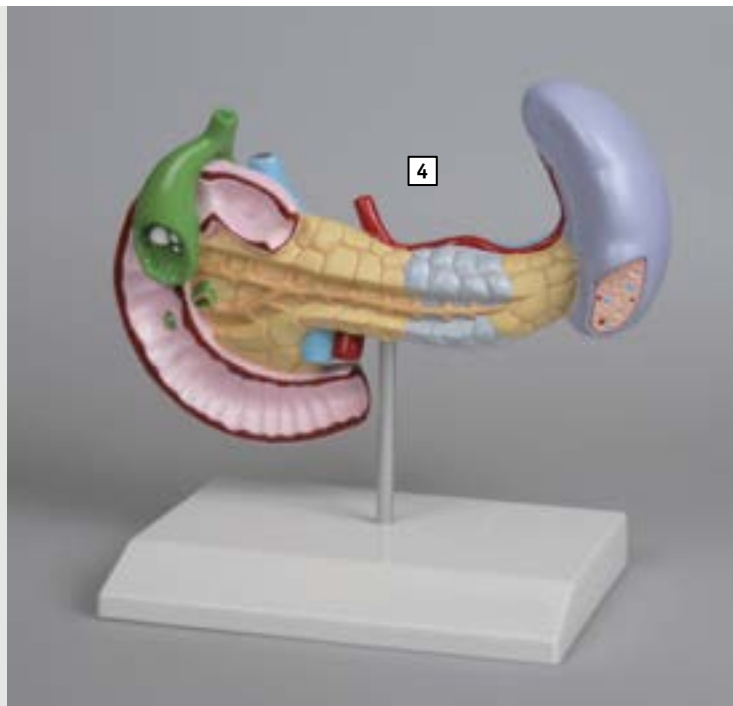
■ Ref.no. K440

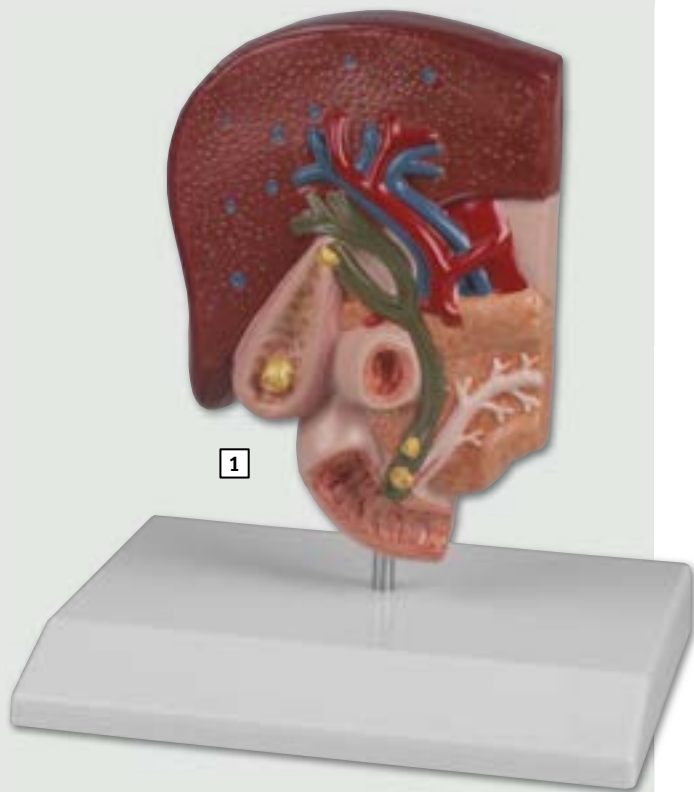


### 4 Diseases of Pancreas, Spleen and Gall bladder

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

■ Ref.no. K295





1

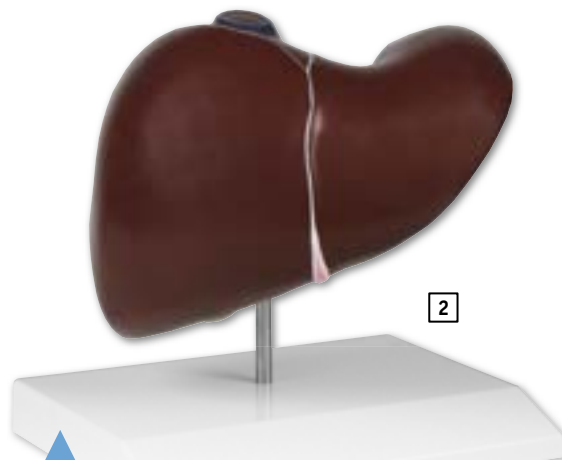
### 1 Gallstone Model

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



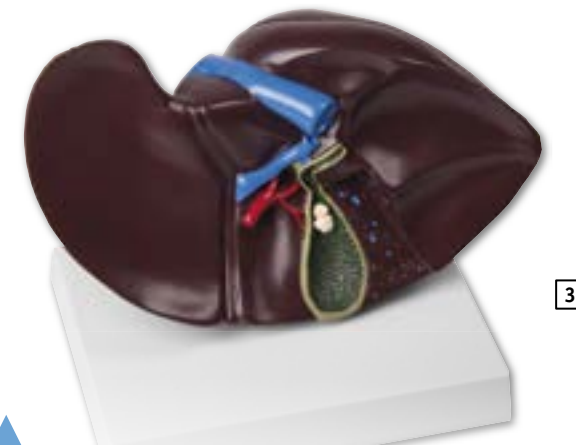
2

### 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



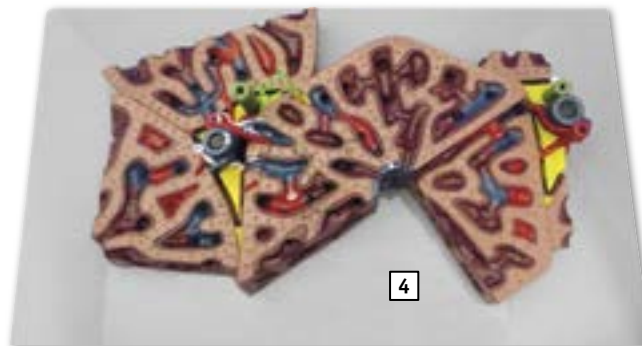
3

### 3 Liver with gall bladder, full size

This model shows the 4 liver lobes and the gall bladder with cut-away section. The gall bladder shows a gallstone. On stand.

*Size: 21.5 x 11.5 x 12 cm*

■ Ref.no. K70



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



5

### 5 Liver with pathologies

Full size liver model shows conditions such as: Cirrhosis (septal and nodular), biliary obstruction, gall stones, and tumors.

*Size: 20 x 11.5 x 14 cm*

■ Ref.no. K75

## 1 Gastroesophageal reflux diseases ▼

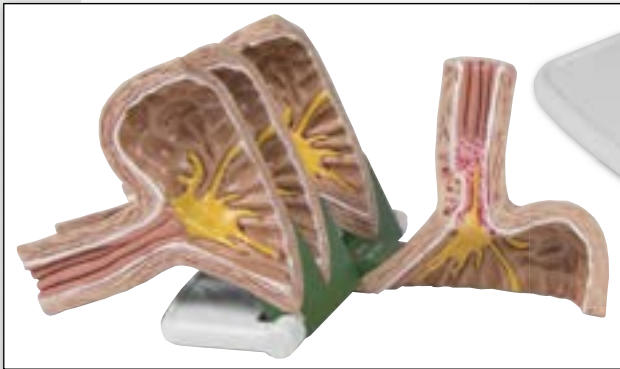
This 4-piece model shows the progressive stages of GERD.

### The conditions include:

Sliding Hiatal Hernia and Acid Reflux; Chronic Acid Reflux/ Barrett's Esophagus; Barrett's Esophagus/Adeno Carcinoma.

*Size of single stages: 10 x 7.5 x 2.5 cm*

■ Ref.no. K19



1

rear view

## 2 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:

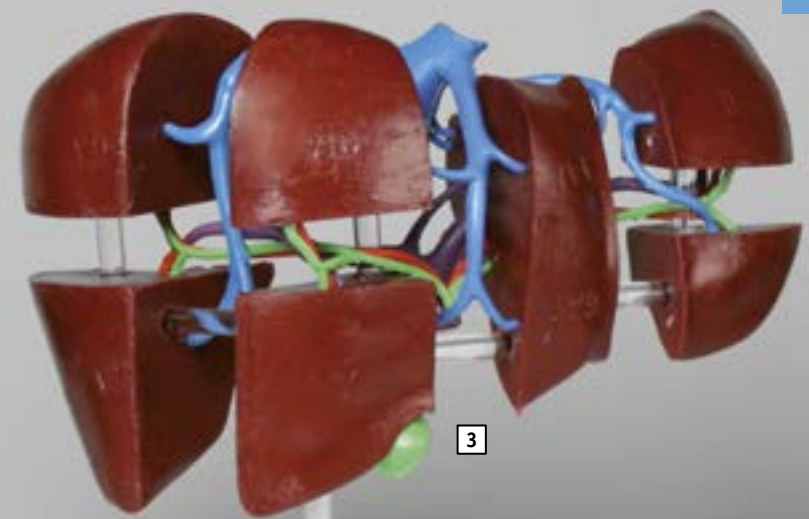
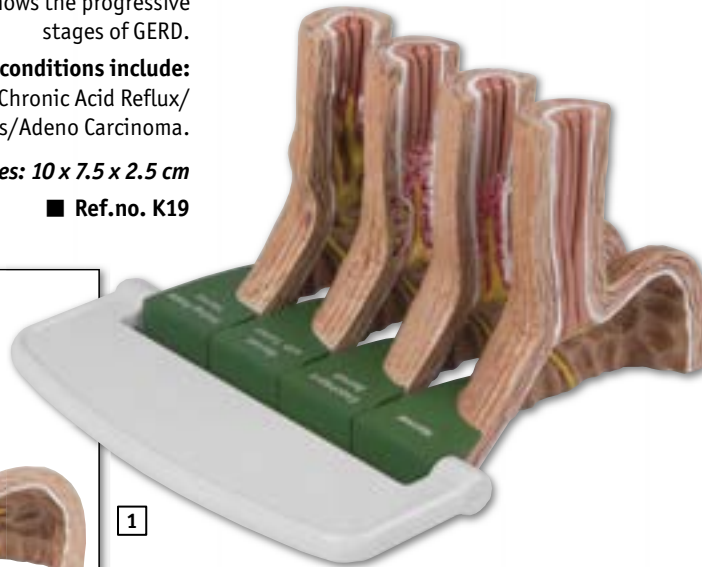
- Hiatal hernia
- Ulcer
- Reflux oesophagitis
- Barrett's Ulcer
- Oesophageal varices
- Oesophageal carcinoma

Mounted on base.

■ Ref.no. K218



2



3

## 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.

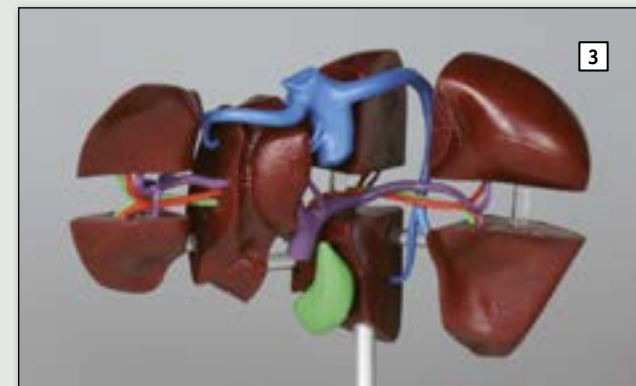
### The following segments are depicted:

- 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.

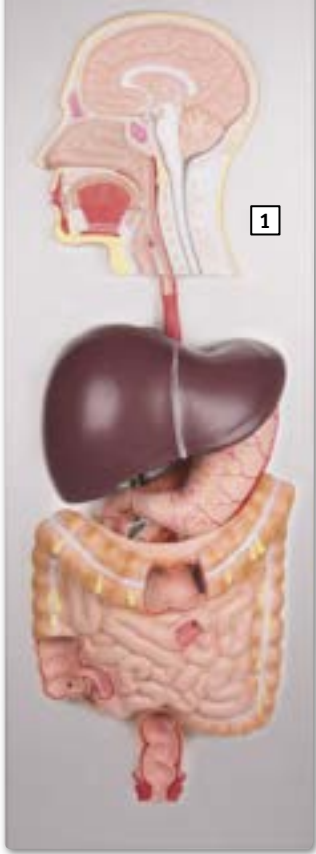
*Size: 18 x 13 x 17 cm, Weight: 0.5 kg*

■ Ref.no. K79



3



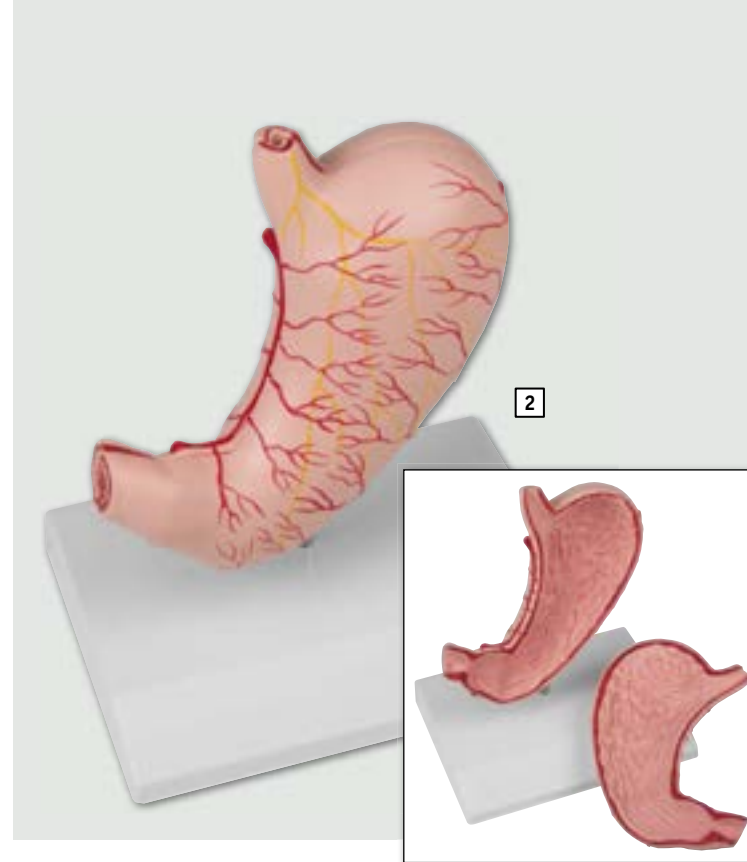


### 1 Human digestive system, 5 parts

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

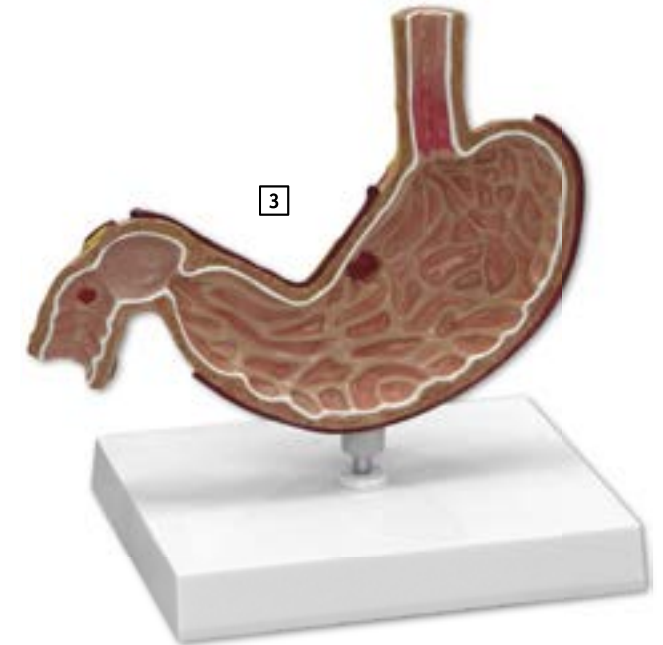


### 2 Stomach, life size, 2 parts

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 Stomach model, life size

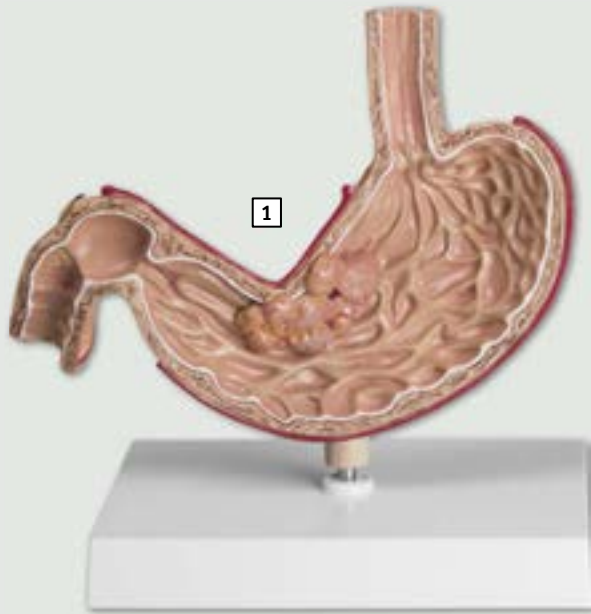
This model of a stomach half shows the inner structures of the stomach and three diseases:

- gastric ulcer
- duodenal ulcer
- esophageal inflammation

On removable stand.

**Size:** 20.5 x 3 x 16 cm

■ Ref.no. K80



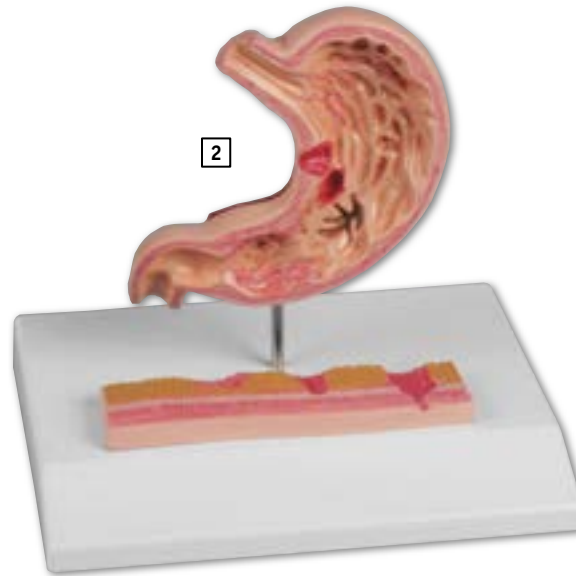
▲ **1 Stomach Cancer model**

Full size cut away section of stomach showing a carcinoma tumor.

On removable stand.

**Size: 19.7 x 3.5 x 16 cm**

■ Ref.no. K83



▲ **2 Stomach with Ulcers**

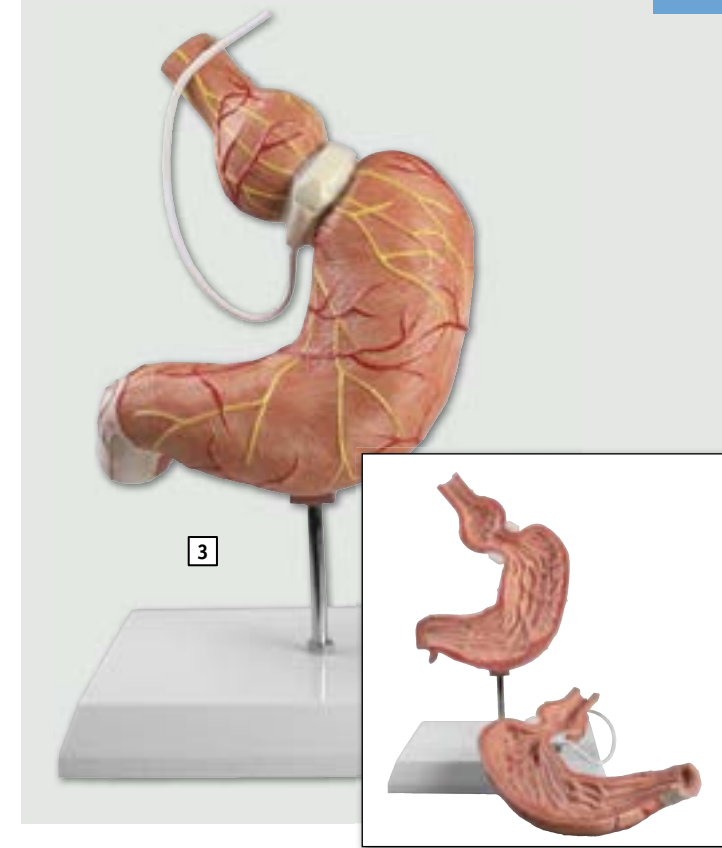
This reduced size model shows different stages of gastritis starting from light ulcer and ending in perforation. The section model shows the lower part of esophagus, the stomach and the start of duodenum. **It shows the following pathologies:**

- 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

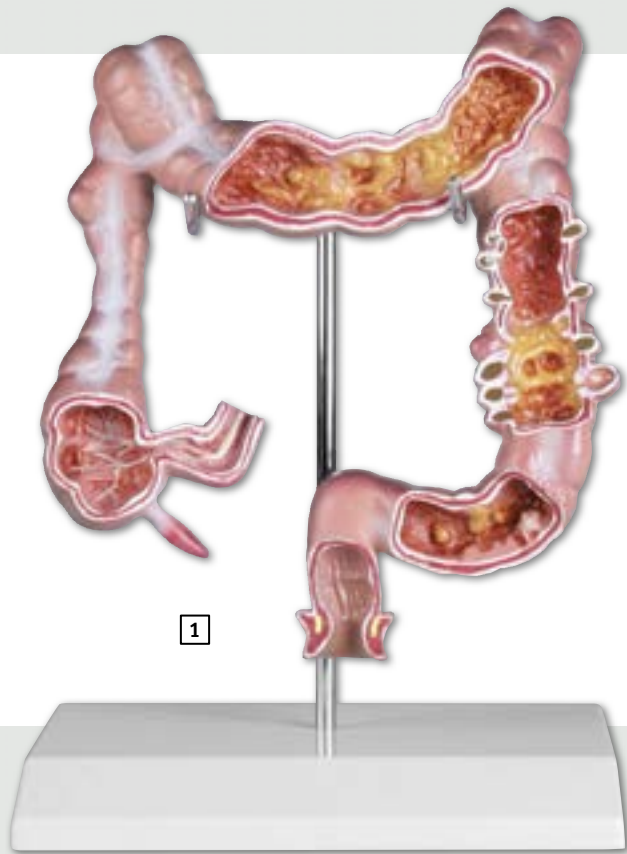


▲ **3 Stomach model with gastric band**

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

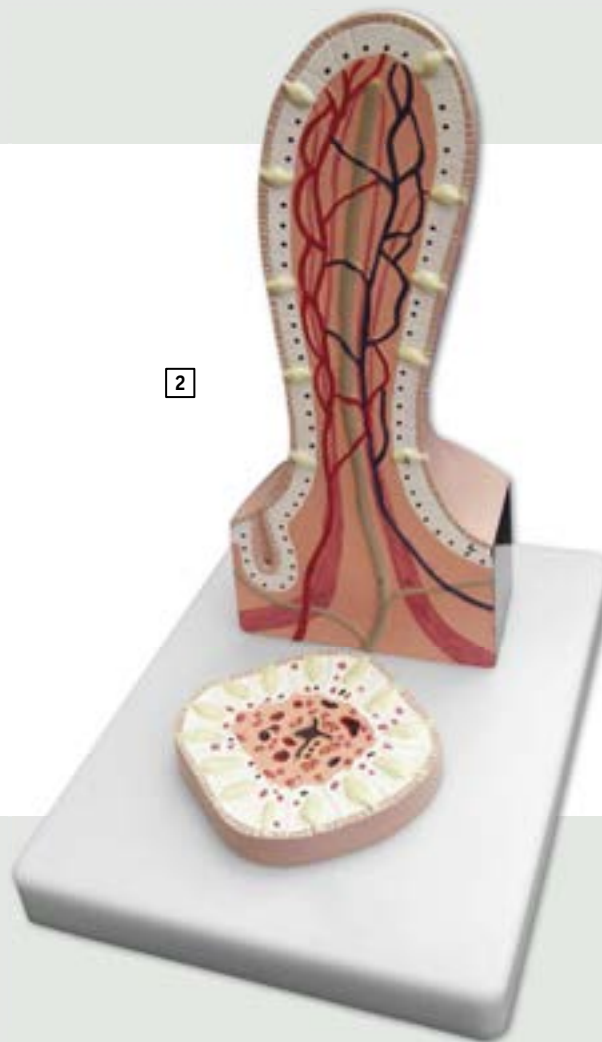


1

### 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



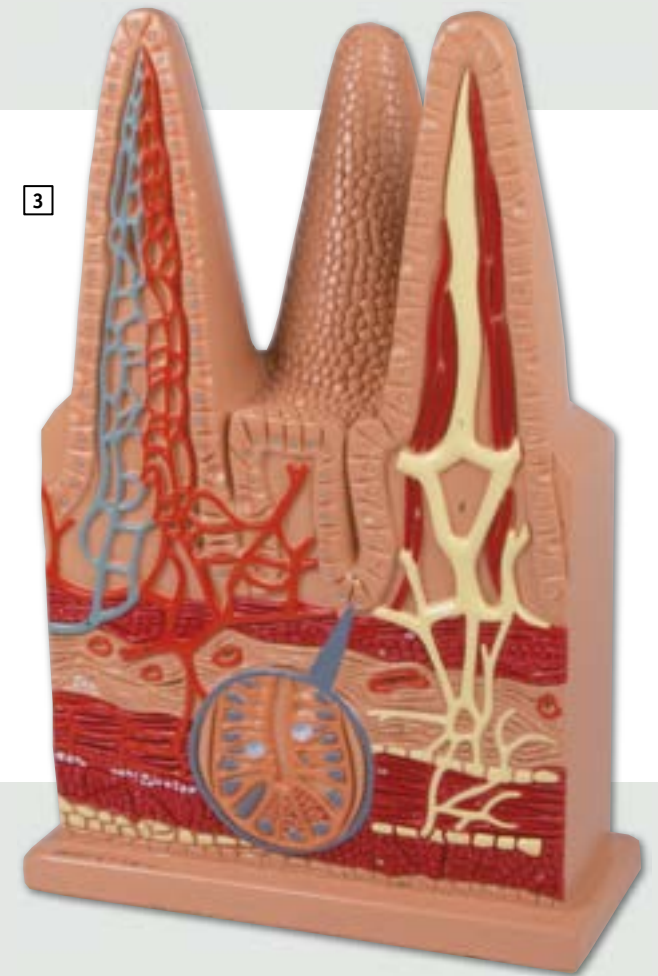
2

### 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 4-piece colon with diseases

Four piece cross-section of the human colon demonstrating both natural and various disease conditions. Structures include: serosa, muscle, mucosa, semilunar folds, taenia, epiploil appendices. diseases represented are: polyps, cancer, diveticulitis, colitis. The model does not disassemble, segments rotate on one axis.

*Diameter appr. 3.5 cm, Length: appr. 10 cm,  
Weight: appr. 0.1 kg*

■ Ref.no. K87

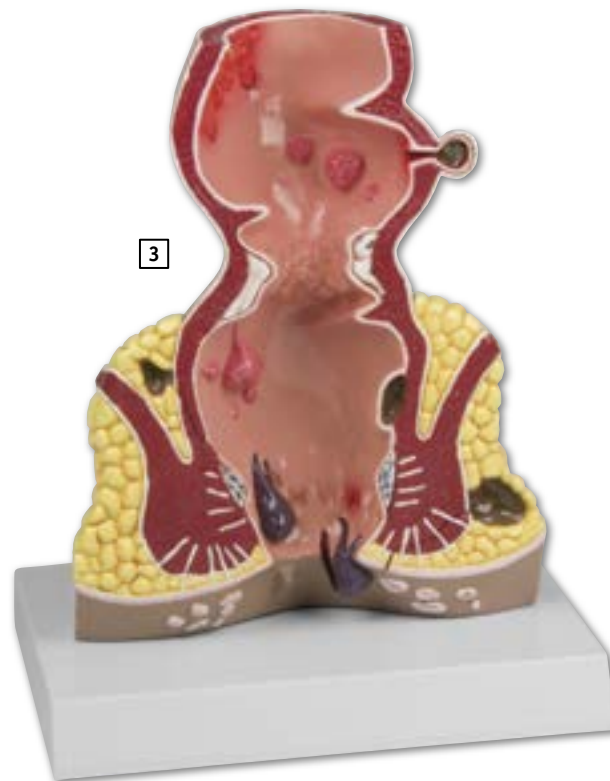
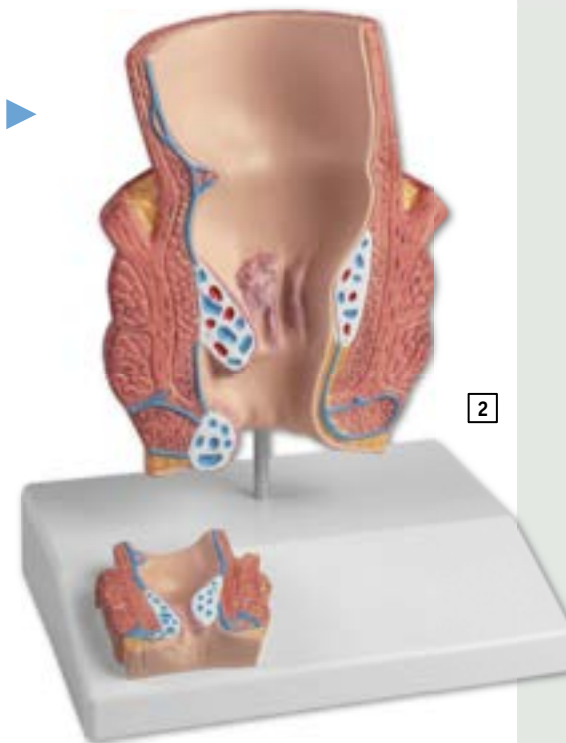


### 2 Haemorrhoids model

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



### 3 Rectum, 1,5-times life size

Model of a human rectum showing the inner structures and different diseases:

- Ulcerative Colitis
- Internal and External Fistula
- Internal and External Hemorrhoids
- Annular Cancer
- Sessile Polyp
- Submucosal Abscess
- Skin Tag
- Pedunculated Polyp
- Supralelevator Abscess
- Ischiorectal Abscess
- Cryptitis
- Diverticulum
- Condyloma Acuminatom
- Fissure
- Condyloma Latum

*Size: 15.5 x 6.5 x 18 cm*

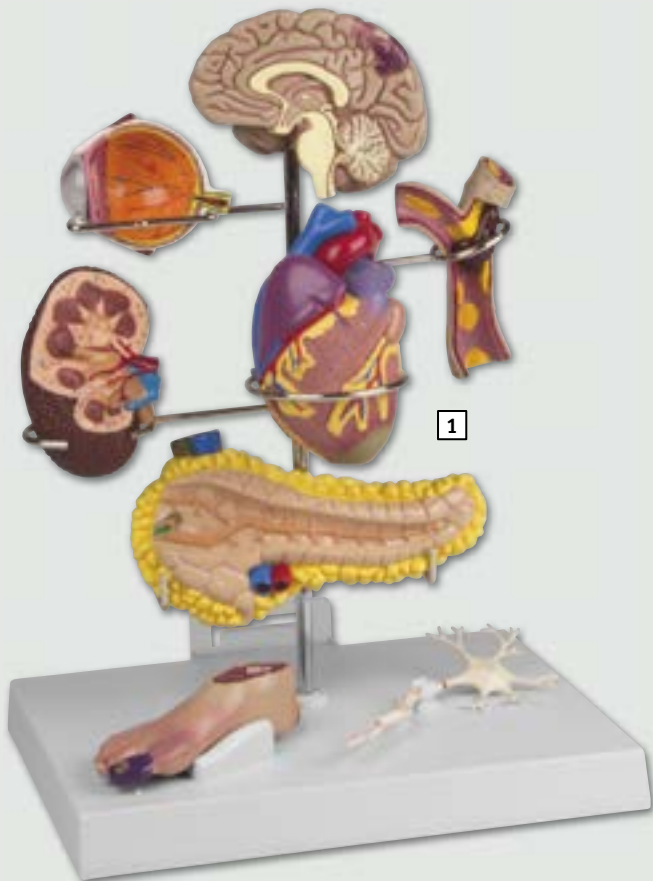
■ Ref.no. K90

## 1 Type II diabetes set

Miniature brain, eye, heart, kidney, artery, pancreas, neuron, and foot models. Education card illustrates effects associated with Type II diabetes: Stroke, non-inflammatory disease of the retina, hypertensive heart disease, hardening of the kidney, hardening of the arteries, insulin resistance, neuropathy, foot ulcerations. Comes with stand and education card.

Size: appr. 25 cm

■ Ref.no. G38

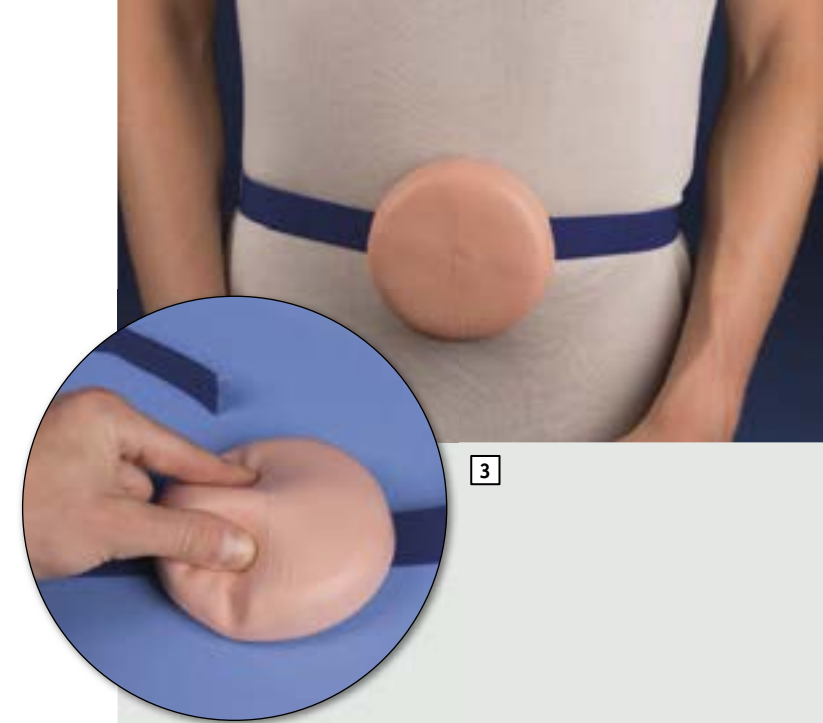
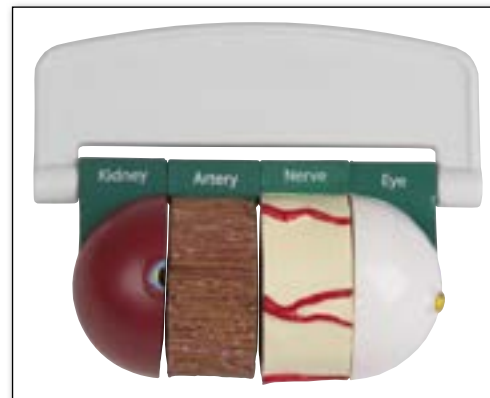


## 2 4-Piece Diabetes Model

Four piece model indicating structures and organs with vascular effects due to diabetes. Includes sectioned model of Bowman's capsule (kidney), artery, nerve, eye (posterior section).

Full model size without handle: 8.9 x 5.1 x 5.4 cm,  
Handle size: 12.55 x 4.6 cm

■ Ref.no. G39

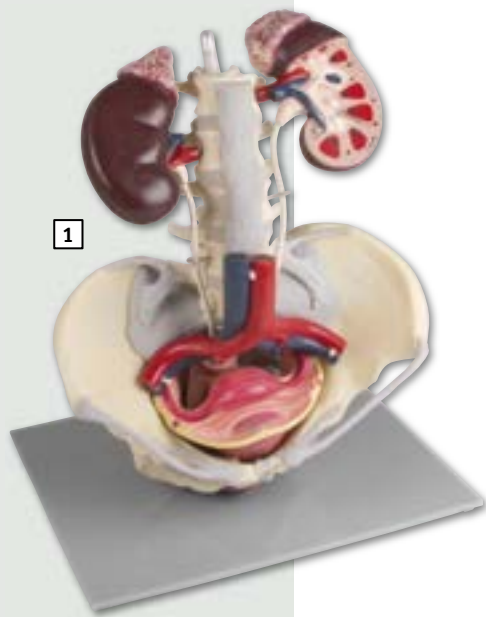


## 3 Diabetic injection pad, advanced version

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



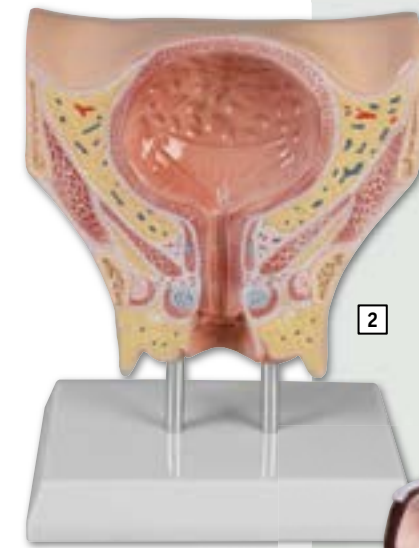


### 1 Urogenital Organs, Female

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

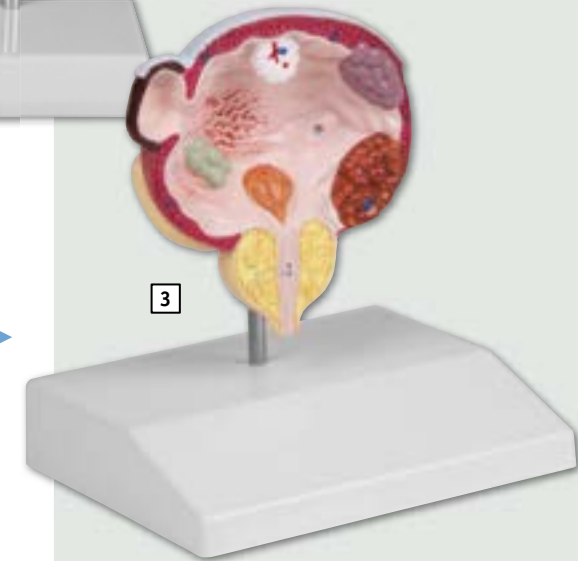


### 2 Female bladder

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

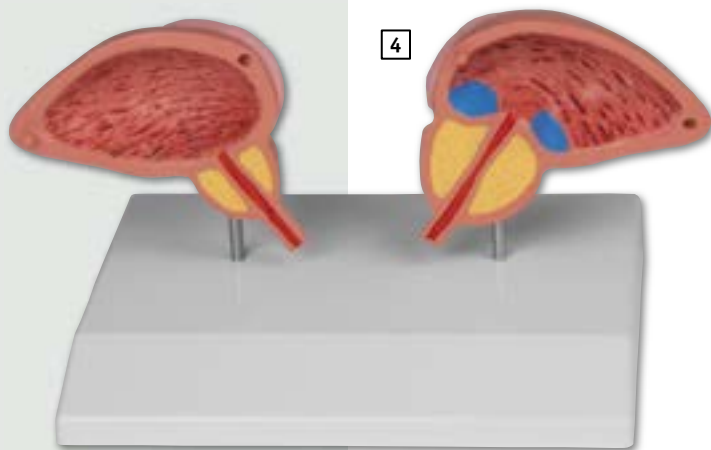


### 3 Diseases of bladder and prostate

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

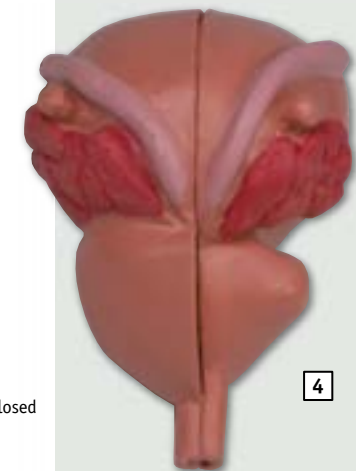


### 4 Prostate Model, 2-part

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.

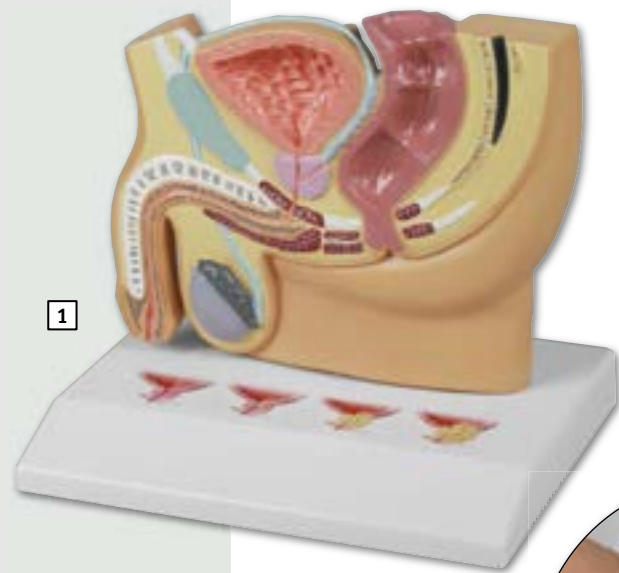
*Size: 20 x 9 x 13 cm*

■ Ref.no. 1261

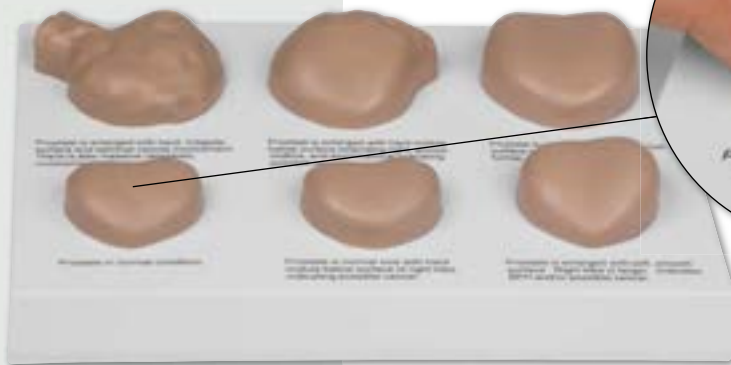


closed





1



2



### 1 Male Pelvis section with PBH

This model in about halflife size shows a sagittal section of a male pelvis. The base shows four cross sections of the prostate gland. One cross section shows a healthy 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

### 2 Prostate diseases

Complete unit includes six full size prostates.

**Conditions shown include:** normal prostate; normal size prostate with hard nodule below right lobe surface; prostate with enlarged right lobe; enlarged prostate, symmetrical surface, slight median furrow; enlarged prostate hard nodule below right base surface; enlarged prostate with hard irregular surface and seminal vesicle involvement.

■ **Ref.no.** H23

### 3 Testis Model, 3.5x Life-Size, Section with Nerves & Vessels

This model shows the medial and sagittal section of the human testis including epididymis, ductus deferens, seminiferous tubules and rete testis. In addition the model details the testicular arterial plexus, the pampiniform venous plexus and the major nerves, along with a section of the spermatic cord. This is a perfect model for learning the anatomy of the testis in great detail. Supplied on removable stand and with keycard.

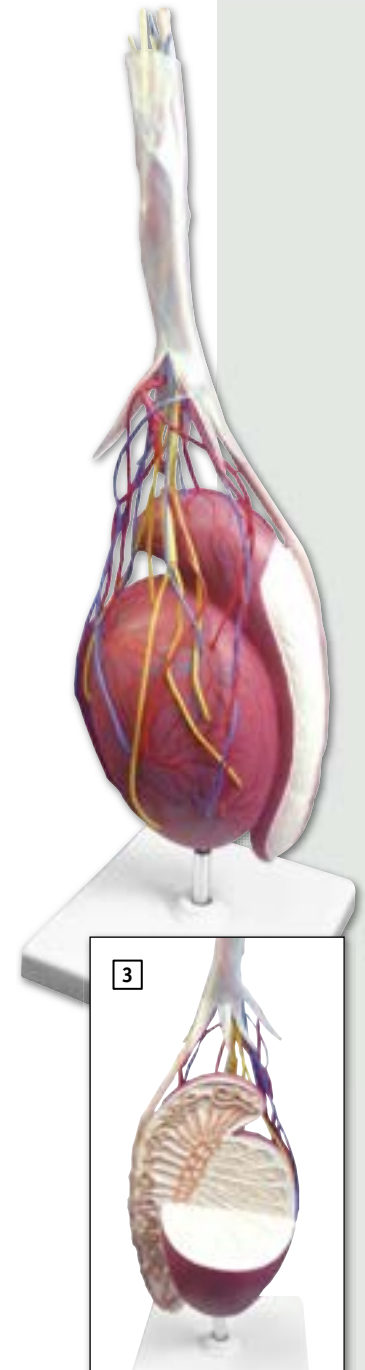
■ **Ref.no.** L410

### 4 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



3



4

**1 Male Pelvis, life size, 4-part**

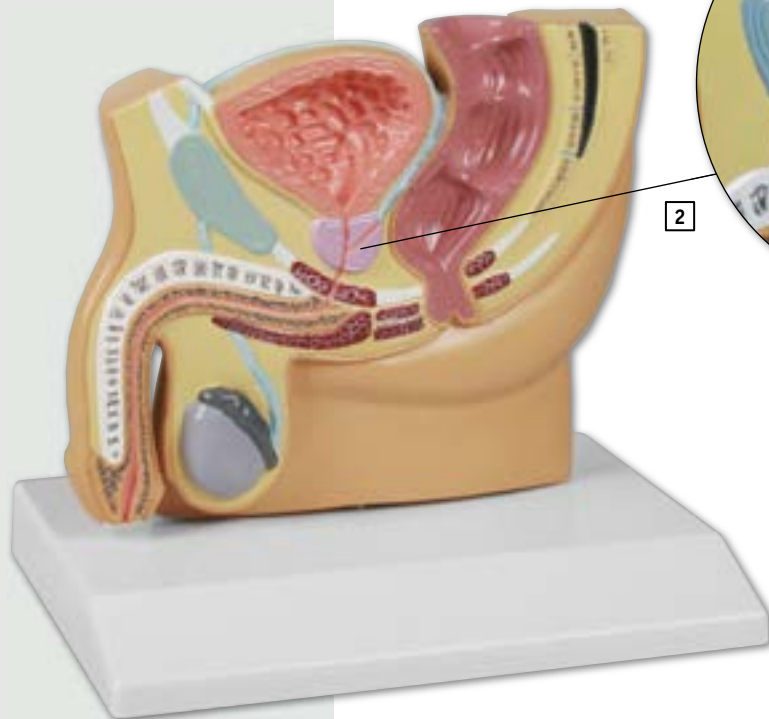
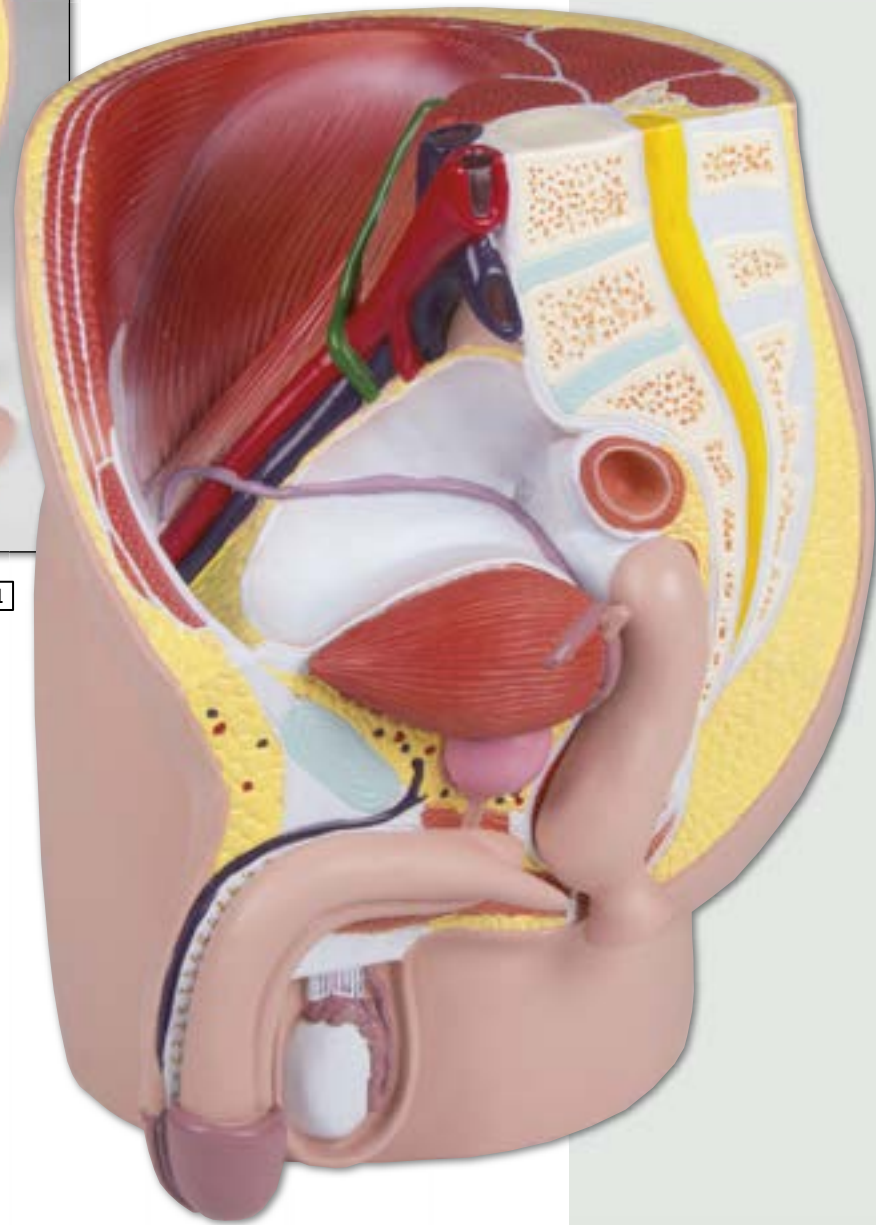
This life size model is median sagittal sectioned and shows the male pelvis in 4 parts. Additional to muscles and vessels of the abdomen it depicts particularly the urogenital organs. Removable are one half of the cavernous body, one half of the bladder with prostate and one half of bowel with rectum.

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

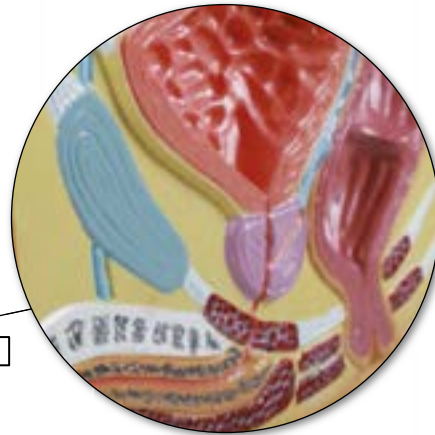
■ Ref.no. H211



1



2



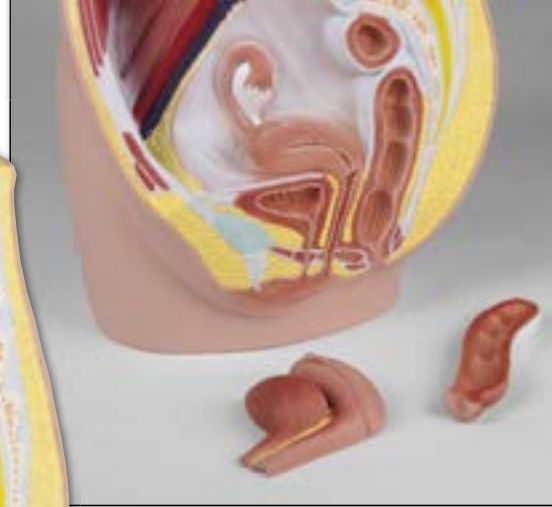
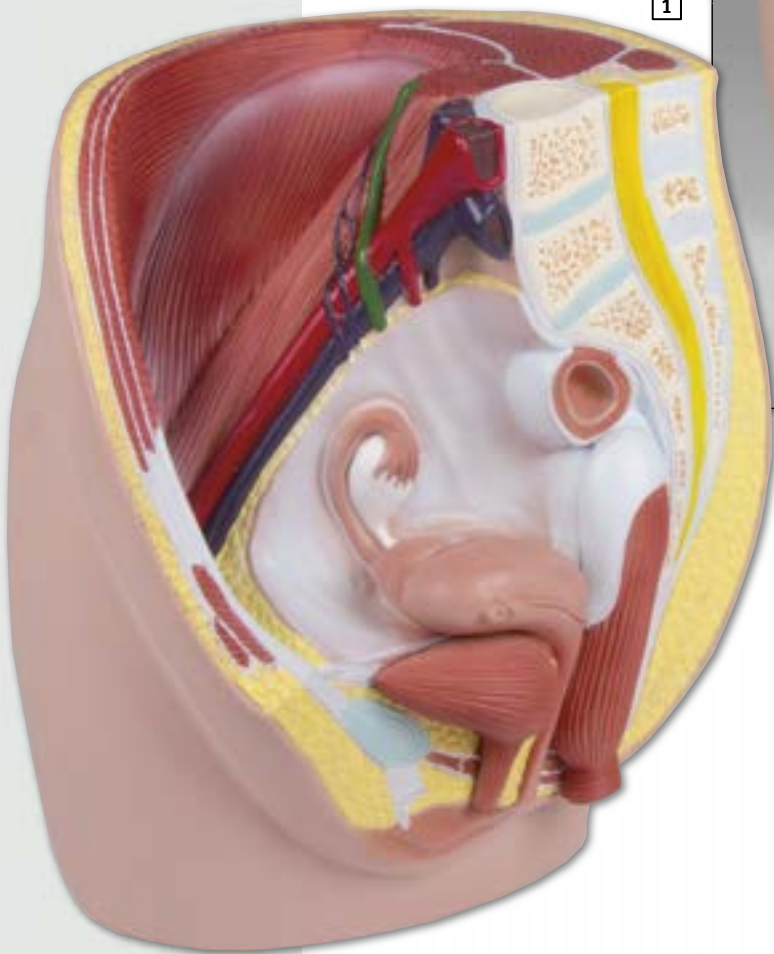
**2 Male pelvis section, reduced size**

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



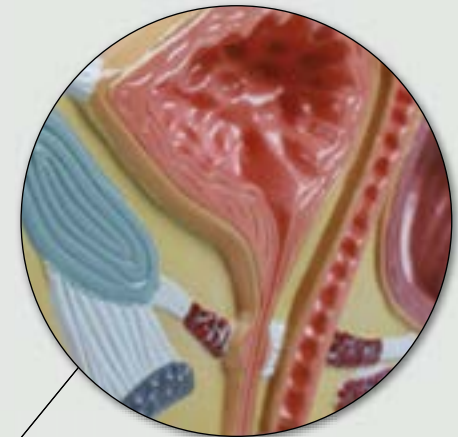


◀ **1 Female Pelvis, life size, 3-part**

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

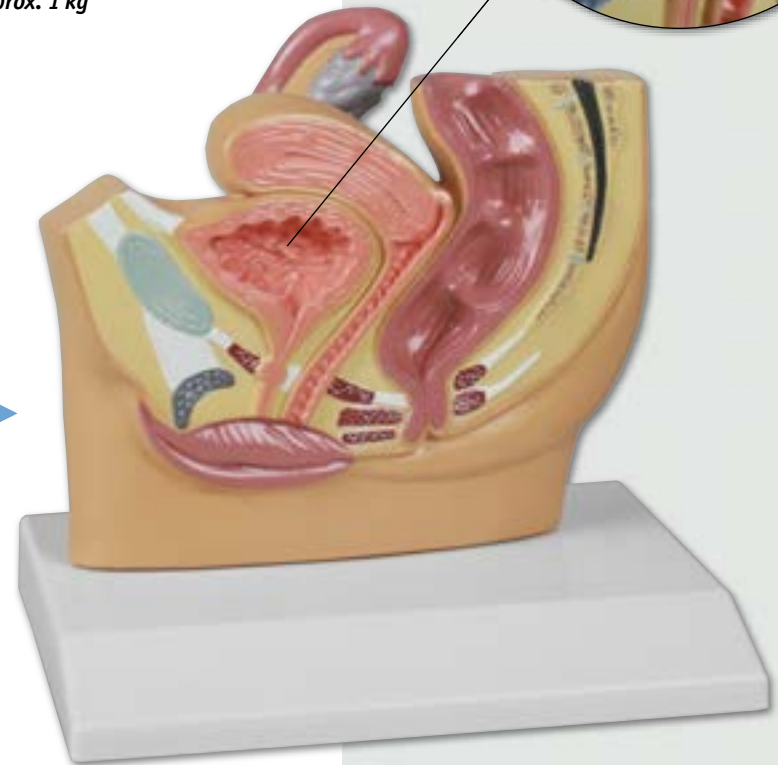


**2**

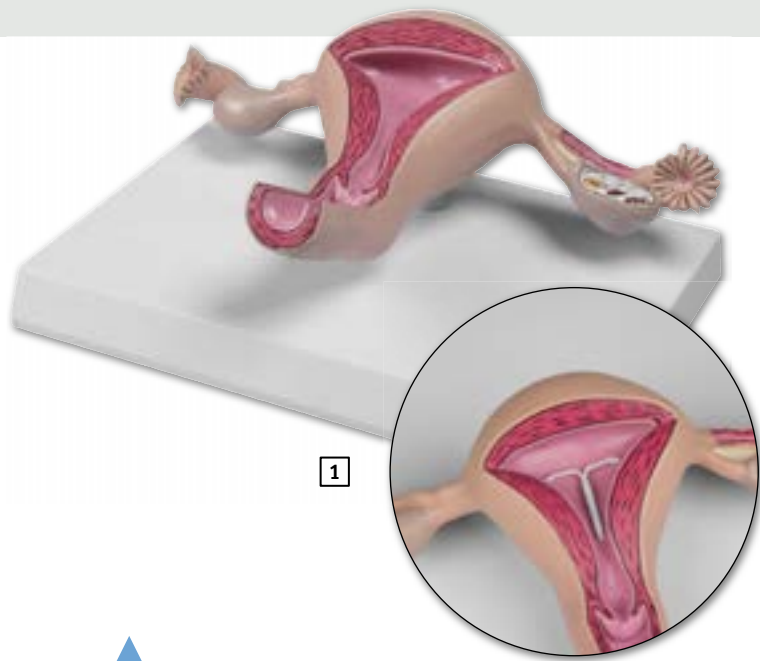
**2 Female pelvis section, reduced size** ▶

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 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



### 2 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.

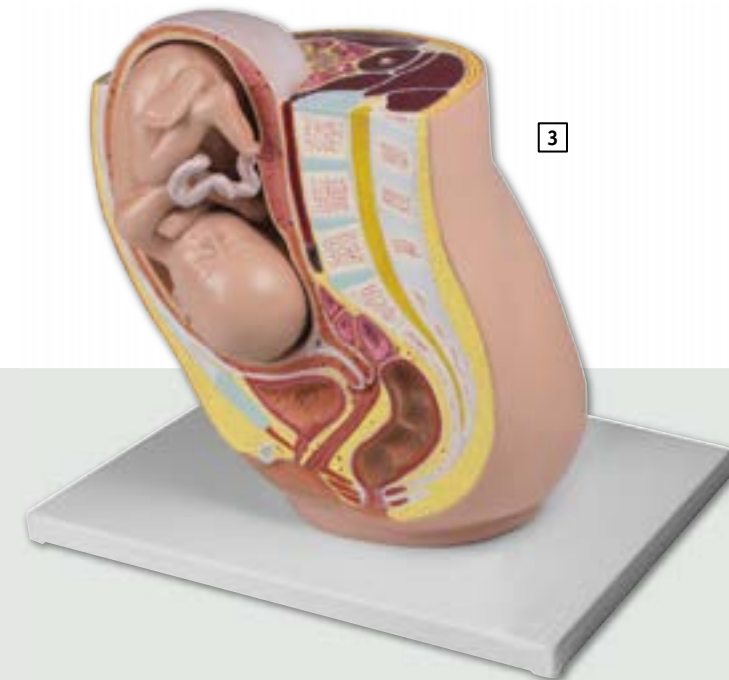
■ Ref.no. L204

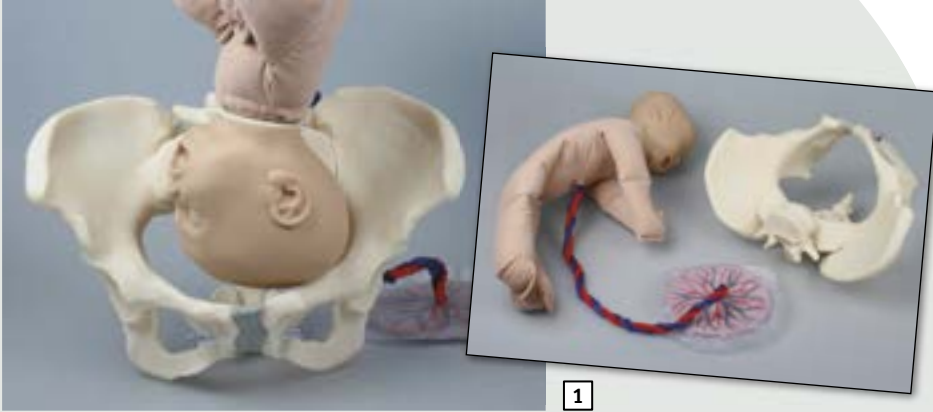


### 3 Pregnancy Pelvis with Fetus in the 32nd week of pregnancy, 2 Parts

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

**4 Fetus doll**

Simulating an average full-term fetus, made of soft and durable cloth. 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**.

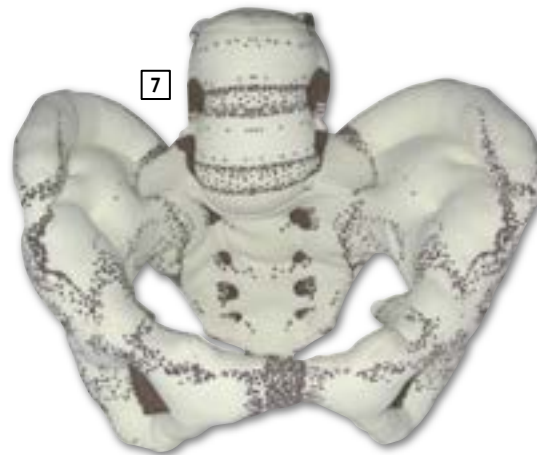
■ Ref.no. R10071



**6 Miniature birth demonstration set**

In carrying bag.

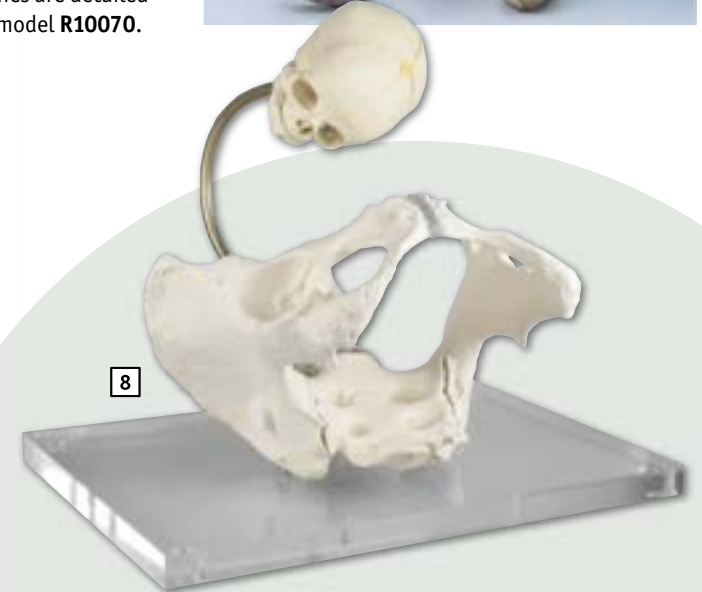
■ Ref.no. 4072



**7 Cloth Pelvis**

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

■ Ref.no. R10072



**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



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





### 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

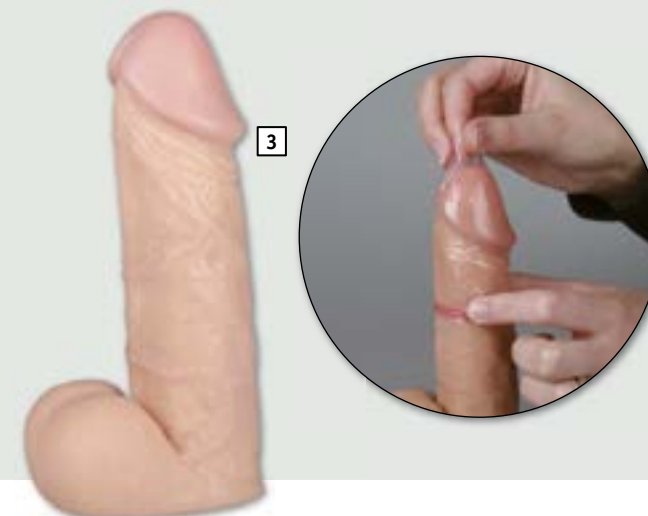


### 2 I.U.D Trainer

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.

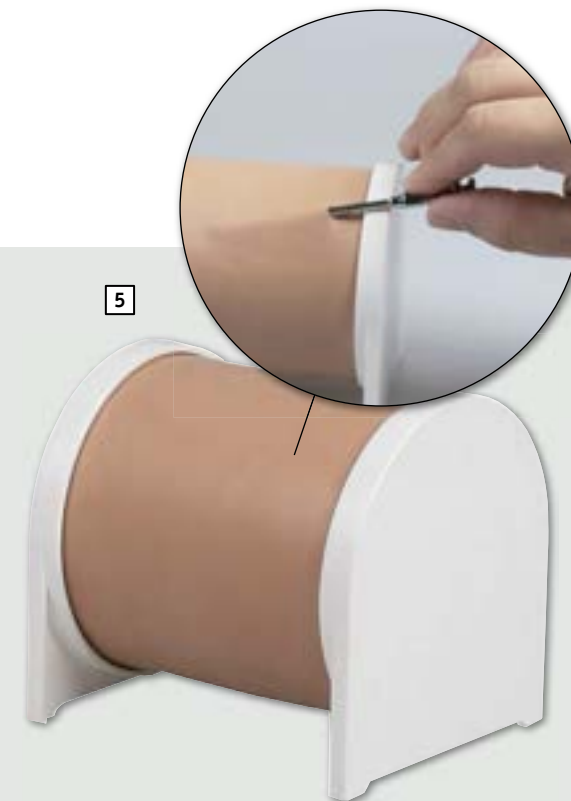
Diameter: 3.5 cm, Penis length: 12.5 cm, Weight: 0.1 kg

■ Ref.no. L75

### 5 Contraceptive Implant Trainer

This model was developed for training insertion and removal of a contraceptive stick implant according to the requests of an implant manufacturer. The skin can be used again and again by simply turning it around.

■ Ref.no. 7085

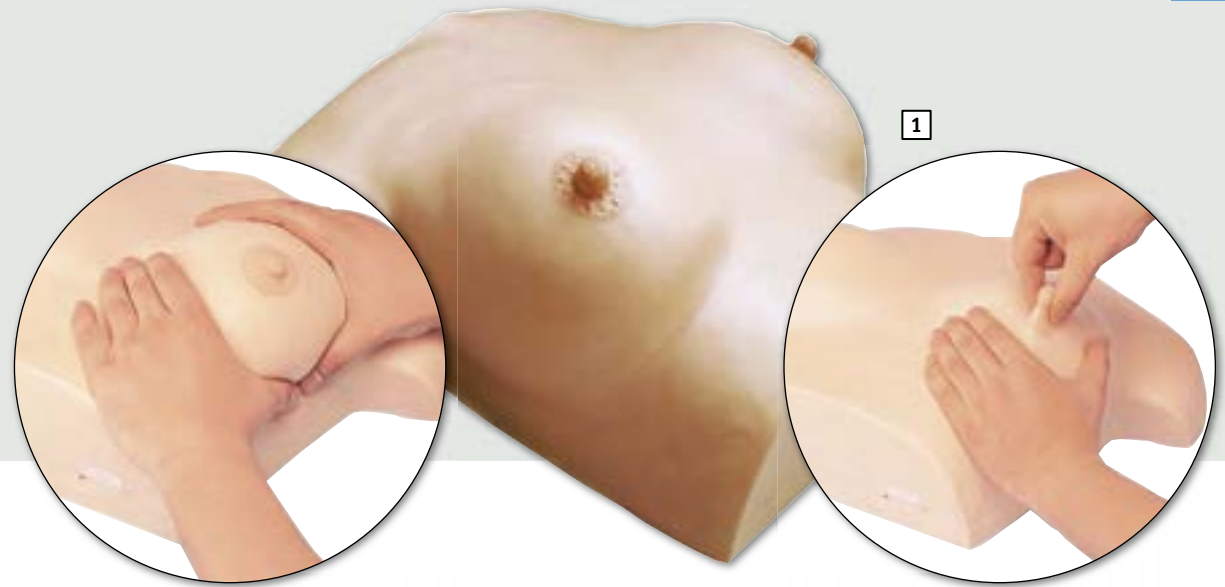


## 1 Breast care and massage model

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



## 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 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 practising of breast care, breast massage and explanation of breast-feeding (smoothing of the breast, manipulation of milk pumps, correct application on the breast, etc.). Owing to the possibility of shoulder strap suspension, it is highly suitable for group instruction. Via the use of various special synthetic materials, this model is extremely realistic in appearance and feel.

**Size:** 26 x 34 x 14 cm, **Weight:** 1.1 kg

■ Ref.no. LM45



1



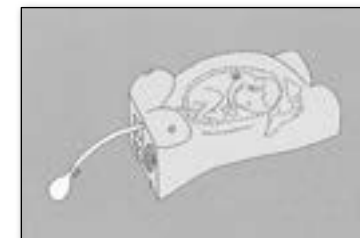
## 1 Pregnancy examination model with heartbeat simulation

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

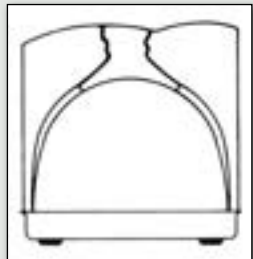
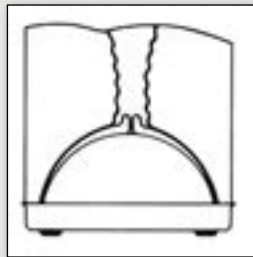


## 1 Cervical Dilatation and Effacement Simulators

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 Cervical Examination Simulator

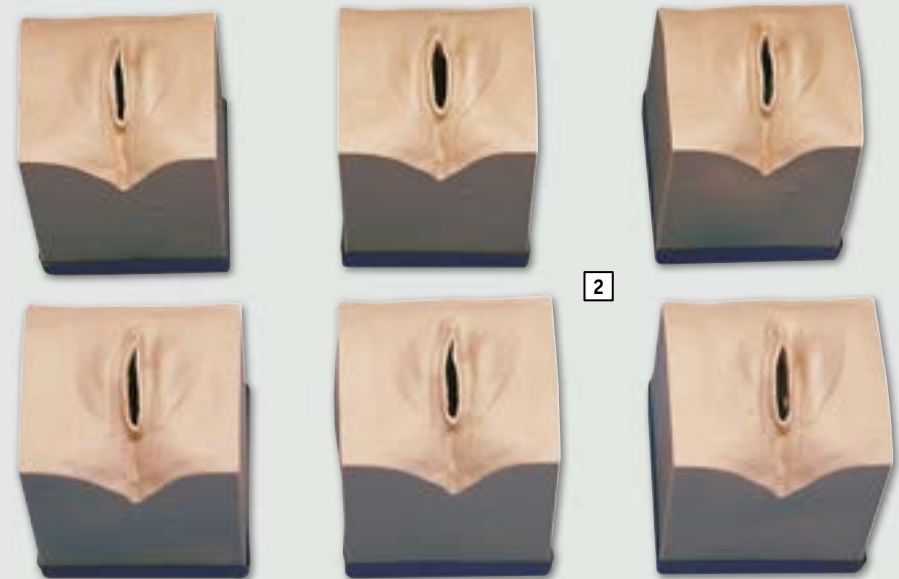
This simulator allows the training of prenatal cervical examination. It consists of 6 single blocks, each representing a different stage:

- Stage 1: no dilatation, no effacement
- Stage 2: 2 cm dilatation, 50% effacement
- Stage 3: 2 cm dilatation, full effacement
- Stage 4: 5 cm dilatation, full effacement
- Stage 5: 7 cm dilatation, full effacement
- Stage 6: 9 cm dilatation, full effacement

Each block measures 13 x 13 x 13 cm and shows the stage on the bottom. Supplied with hard carry case.

Size: 53 x 35 x 18 cm, Weight: 7.7 kg

■ Ref.no. R10920





### 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



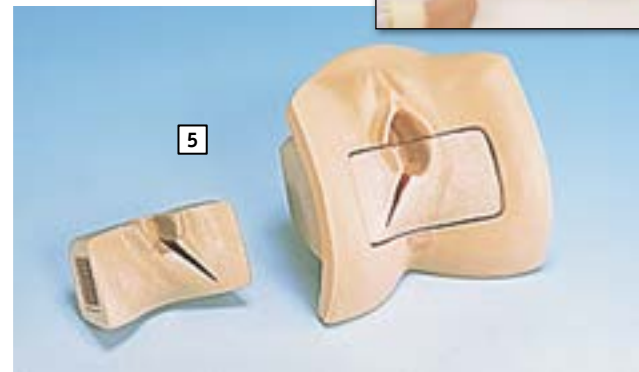
### 3 Stages-of-Birth Module

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

4 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 dilatatable 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



2



## 2 Extractor

Upgrade for LM101B and LM101J. This extractor presses the foetus head through the vulva. It was designed to support the teacher during long lessons.

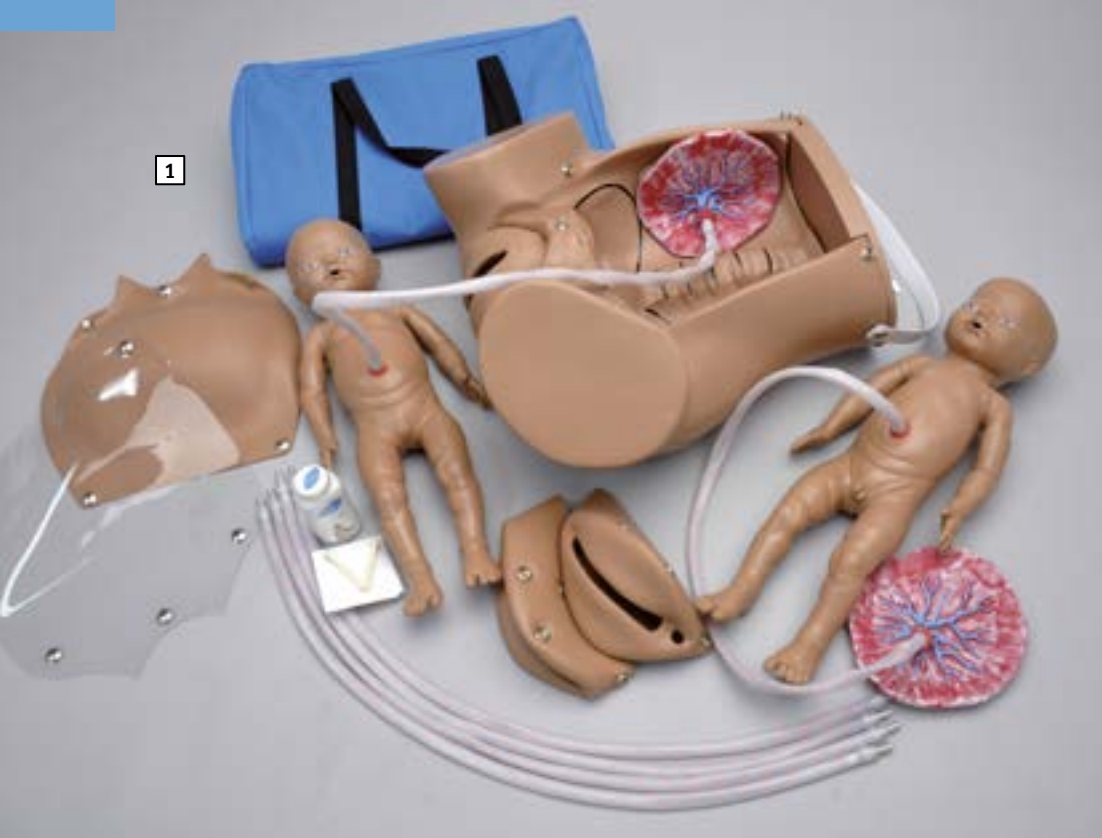
■ Ref.no. LM66

2



Inserted in LM101J.





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
- Simulated suction of nose and mouth

**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 • One clear 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

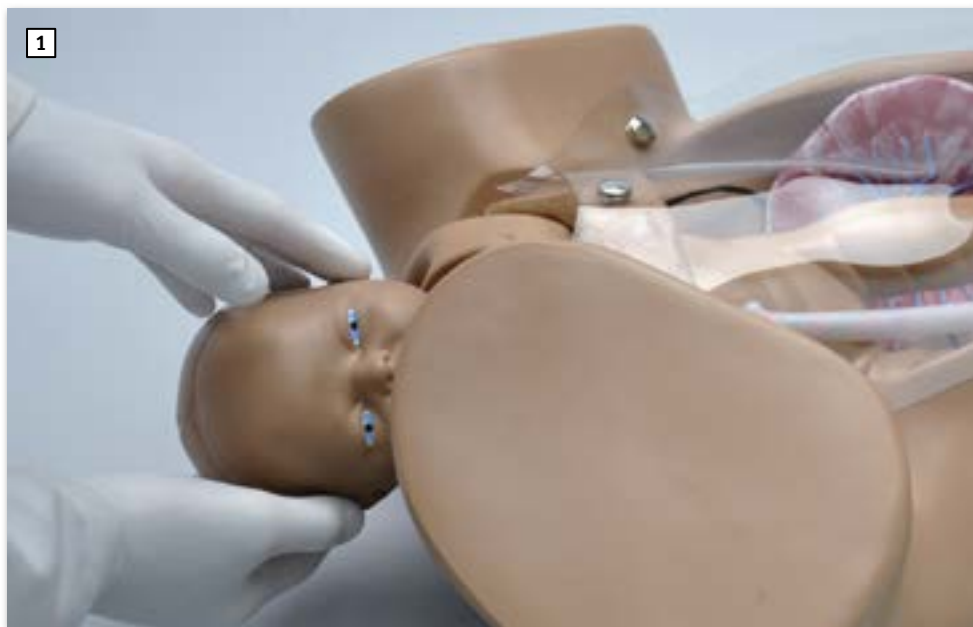
## 6 Fetal baby, Umbilical Cord, and Placenta for Vacuum Delivery

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 0–200 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
- Vulval inserts (4)

**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)

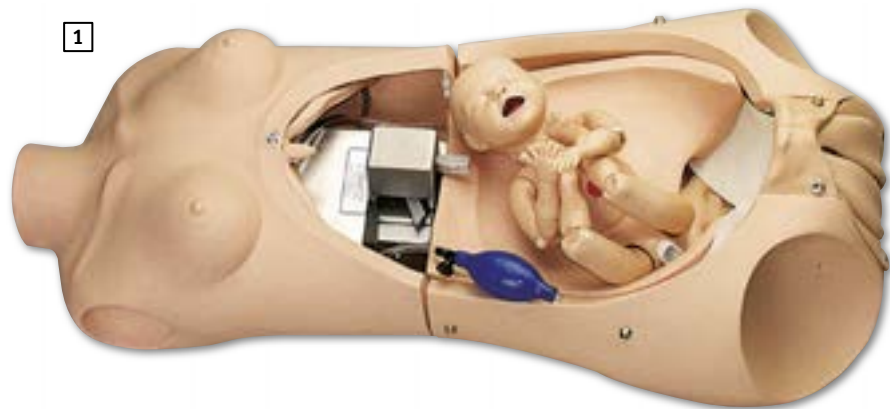
### Newborn baby features:

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



**NEW!**





### 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. The torso comes with four umbilical cords, four dilating cervixes, two umbilical clamps, three vulva for postpartum suturing, talcum powder and water soluble silicone lubricant, instruction manual, and soft nylon carrying bag.

**Weight: 23 kg**

■ Ref.no. R17820

Available options:

### 2 Perinatal Monitor CD-ROM

contains teaching basics and all nine NOELLE scenarios

■ Ref.no. R17800A (not pictured)

### 3 Perinatal Monitor CD ROM with scenario builder

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

■ Ref.no. R17800B (not pictured)



### 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



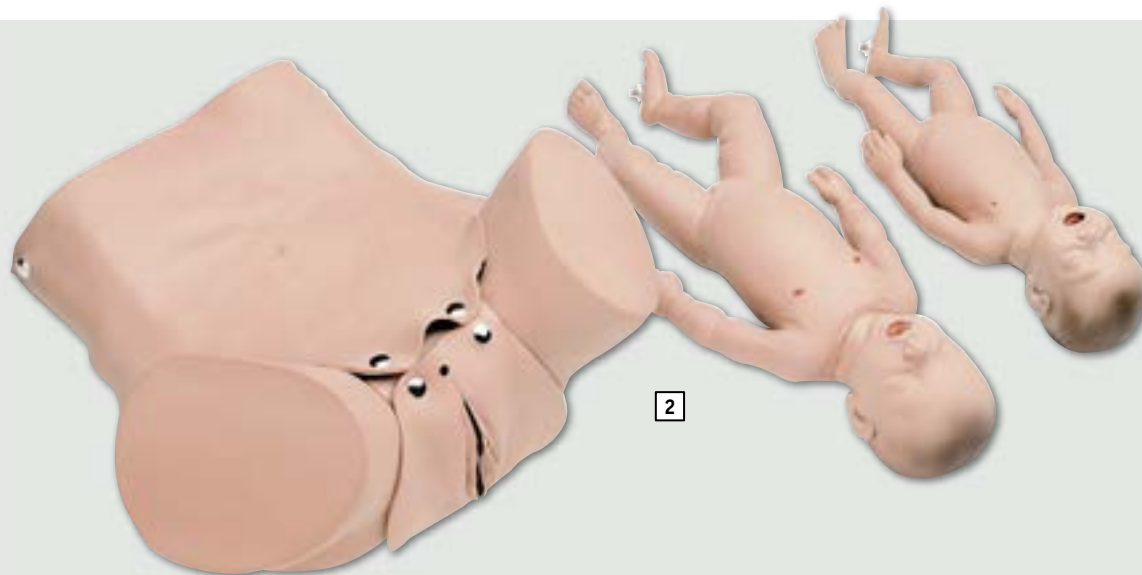


### 1 Obstetrical Manikin

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 with permanently installed foetus for training practice of Leopold's manoeuvre 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

## 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:

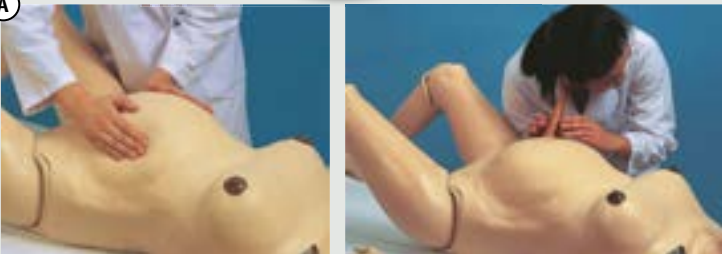
### A Pregnancy module

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 fontanel 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.

A



B





### ◀ 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

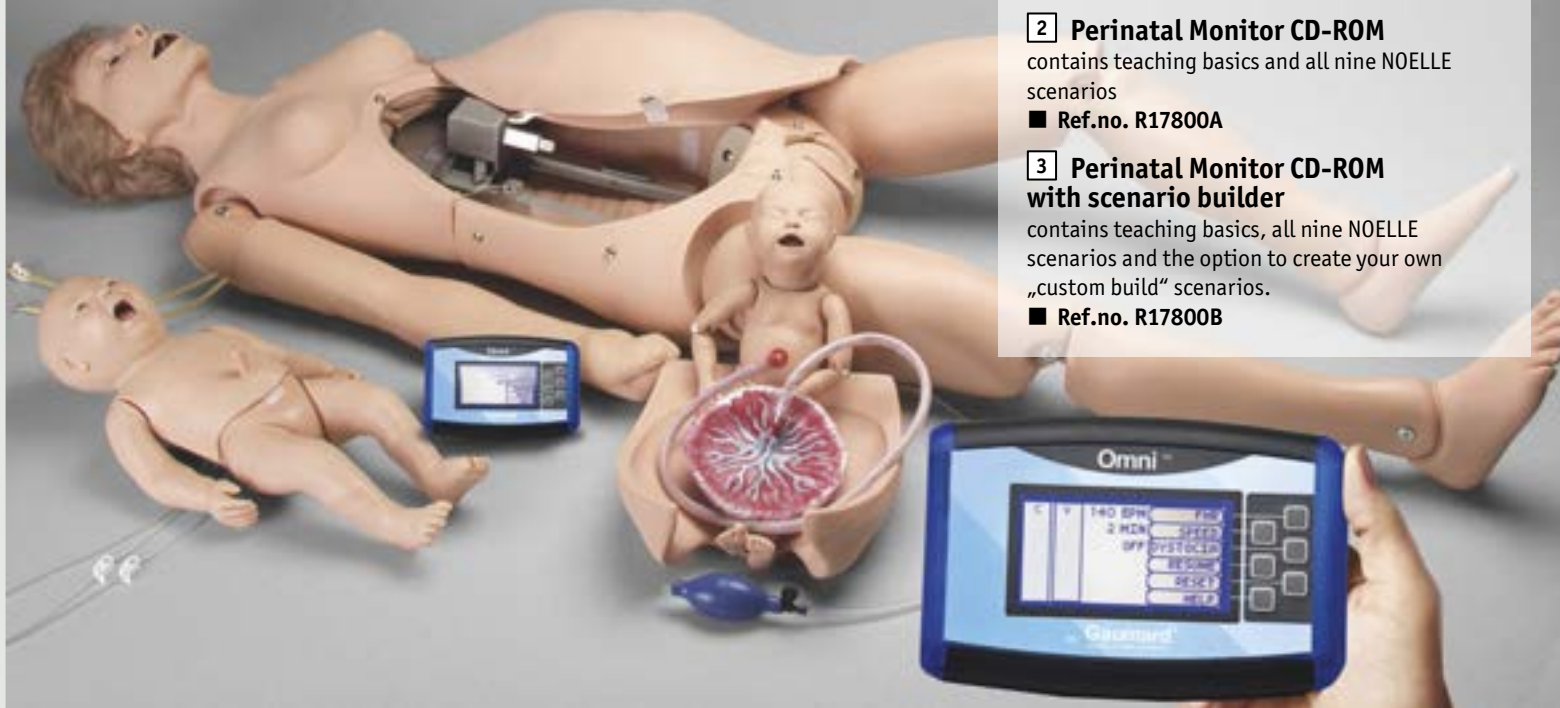
Replaceable episiotomy inserts make it possible to teach and practice episiotomy sutures. The individual inserts can be reused repeatedly, provided the sutures are removed with due care.



### ◀ 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 all nine NOELLE scenarios  
■ Ref.no. R17800A

**3 Perinatal Monitor CD-ROM with scenario builder**  
contains teaching basics, all nine NOELLE scenarios and the option to create your own „custom build“ scenarios.  
■ Ref.no. R17800B

1

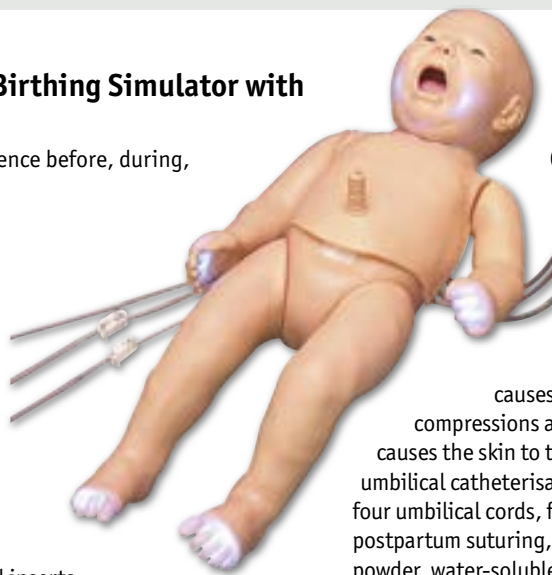


## 1 Noelle Maternal and Neonatal Birthing Simulator with PEDI Blue Neonate

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 C-section and forceps delivery
- 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 three vulval inserts
- one articulating birthing baby with placenta and PEDI Blue Neonatal Simulator

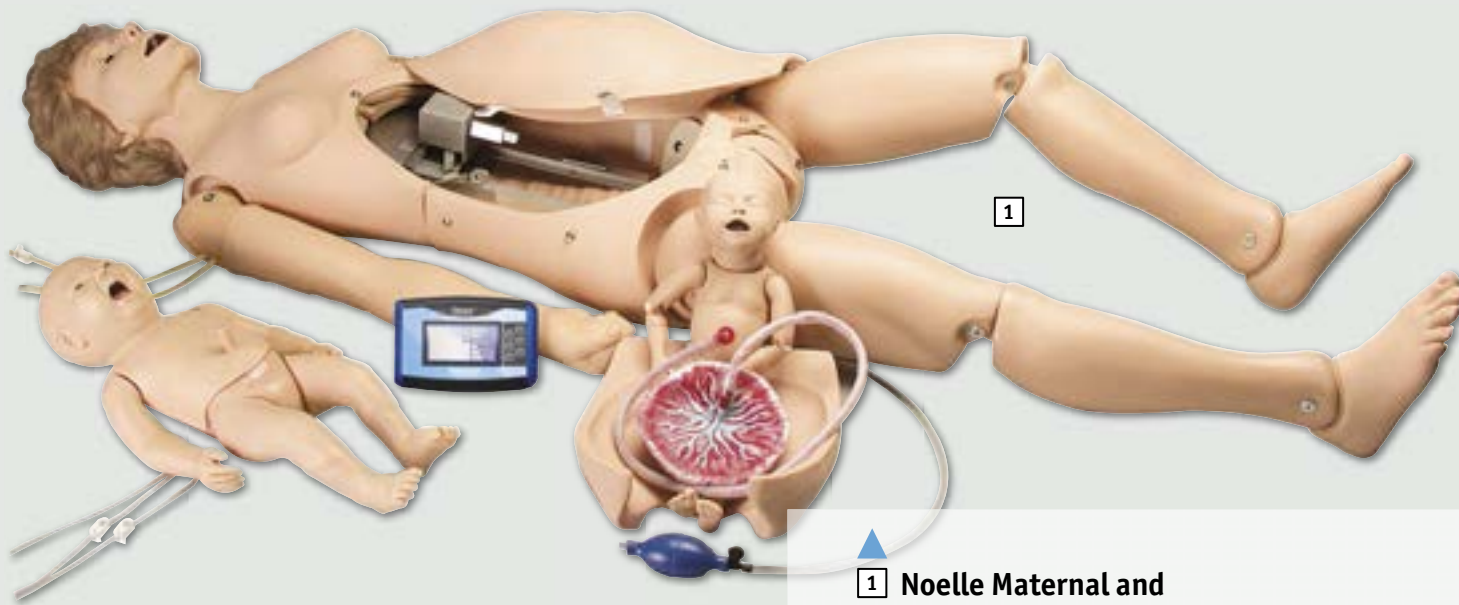


Comes with PEDI® Blue Neonatal Simulator with SmartSkin™ technology. The PEDI® Blue Neonatal Simulator has the unique ability to change colour based upon an initial pre-selected condition and the effectiveness of airway ventilation and chest compression provided. A Code Blue® monitor, containing a small 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. The newborn is intubatable, umbilical catheterisation and IO access can be performed. The simulator comes with four umbilical cords, four dilating cervixes, two umbilical clamps, three vulva for postpartum suturing, neonatal monitor, power supply, connecting cables, talcum powder, water-soluble silicone lubricant, instruction manual, and carrying bag.

**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 cervices
- one articulating birthing baby with placenta
- one resuscitation baby with intubatable airway and umbilical catheter site.

Comes with four umbilical cords, three dilating cervices, two umbilical clamps, talcum powder, water-soluble silicone lubricant, instruction manual, and carrying bag.

**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 Episiotomy and suturing simulator

A model made of special soft, tissue-like synthetic material for development and training of episiotomies and perineal suturing. All the main anatomical features are reproduced, including an open anus. The stand maintains the model in the correct position and has suction feet, which prevent slipping. The simulator includes a carrying case and 3 replaceable inserts. Each insert can be reused many times if the sutures are removed carefully after practice.

**Size:** 31 x 28 x 11 cm

■ Ref.no. L90



### 2 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 bulbocavernous 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

### 3 Replacement soft tissue insert

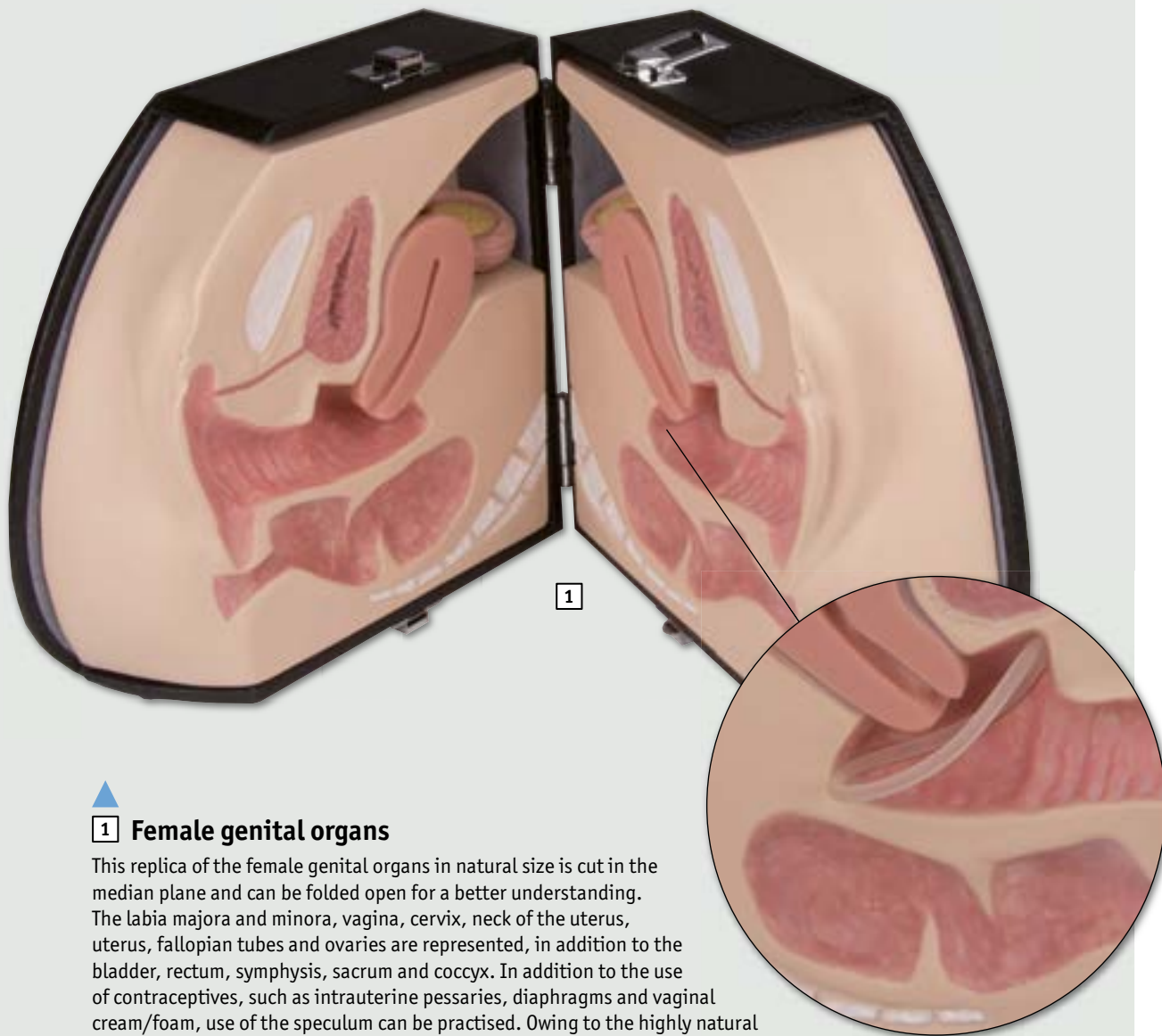
■ Ref.no. R10910A

### 4 Replacement soft tissue insert, set of 3

■ Ref.no. R10910B





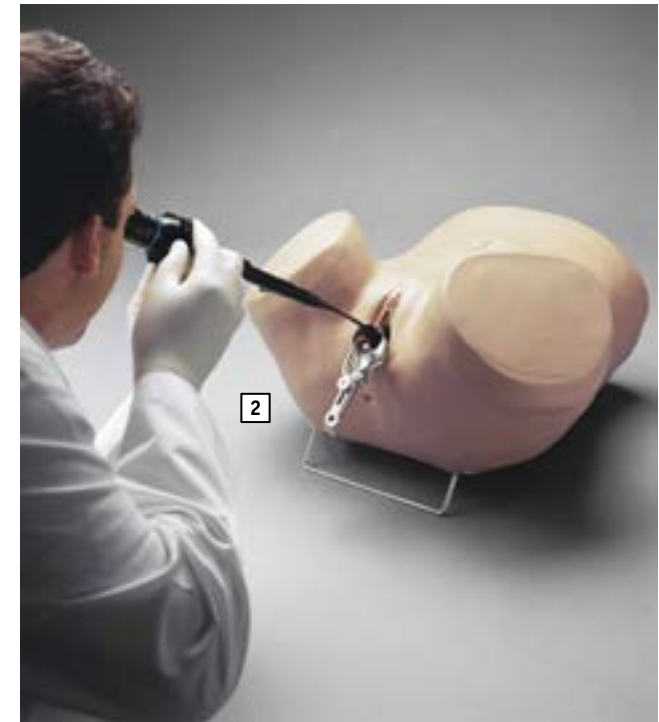


### 1 Female genital organs

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**



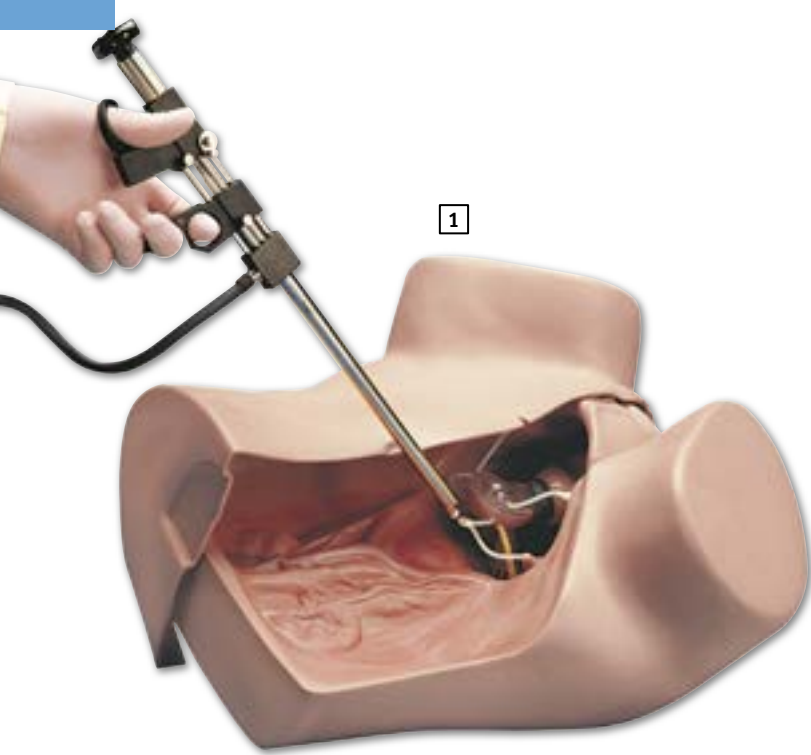
### 2 Hysteroscopy Simulator

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 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 10-week pregnant uterus, one postpartum 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, K-Y Jelly 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.

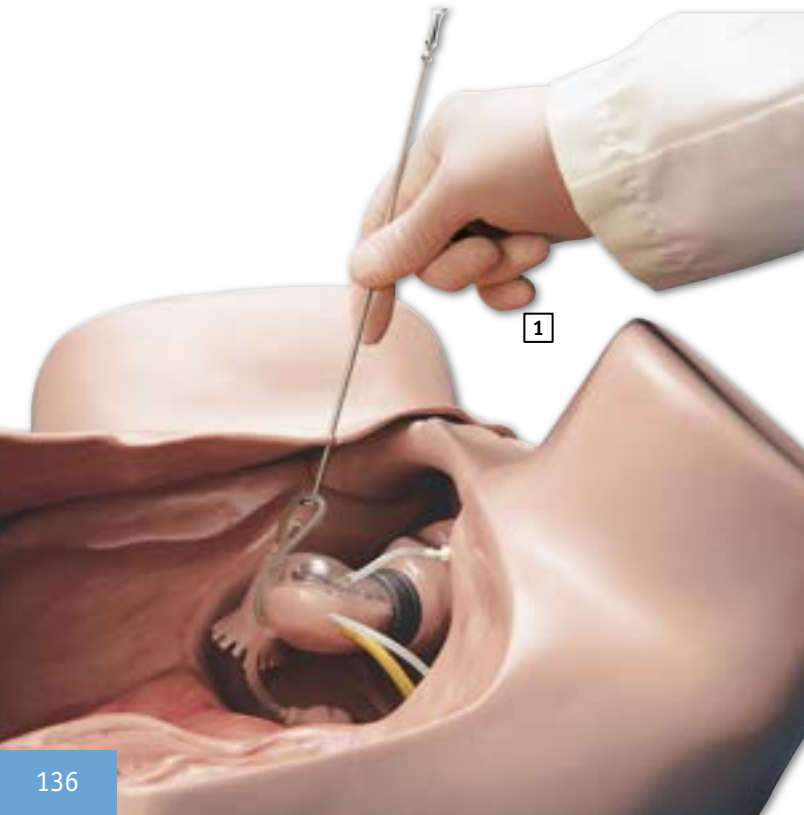
■ Ref.no. R10183/2 (not pictured)

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.

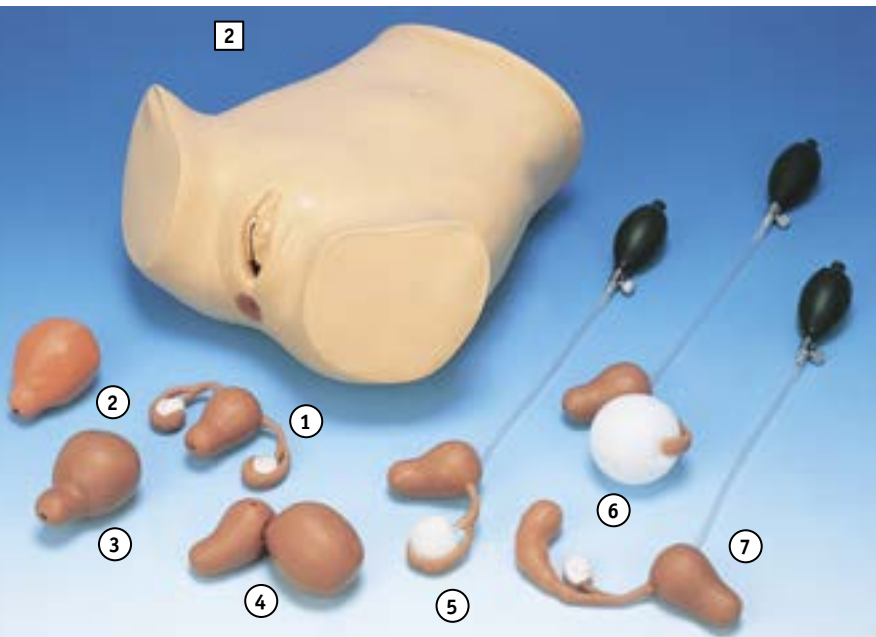
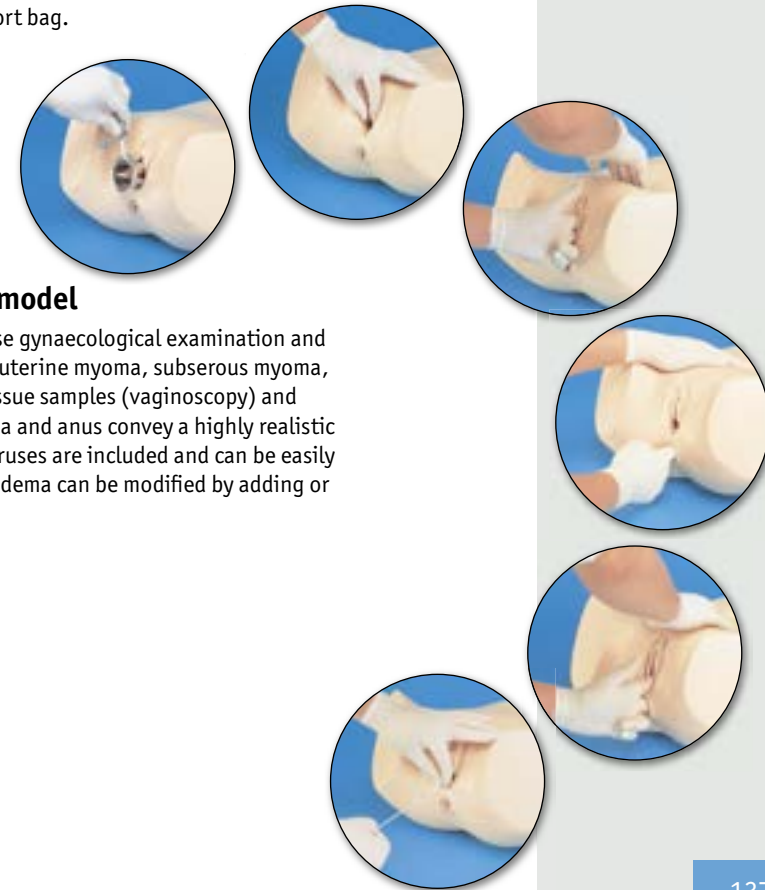
Included are the following interchangeable inserts:

- 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 Gynaecological examination model

This model is used to practise the most diverse gynaecological examination and diagnosis methods (including intramuscular uterine myoma, subserous myoma, ovarian cysts and hydrosalpinx), taking of tissue samples (vaginostomy) and smears. The characteristics of the skin, vagina and anus convey a highly realistic feel. Normal and pathologically modified uteruses are included and can be easily exchanged. The size of cysts and extent of oedema can be modified by adding or releasing air.

The model is supplied with a storage case.

■ Ref.no. LM50

1. Normal uterus
2. Pregnant uterus
3. Uterine myoma I (in muscle tissue)
4. Uterine myoma II (below uterine mucosa)
5. Ovarian cyst I (table tennis ball-sized)
6. Ovarian cyst II (tennis ball-sized)
7. Hydrosalpinx



## 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

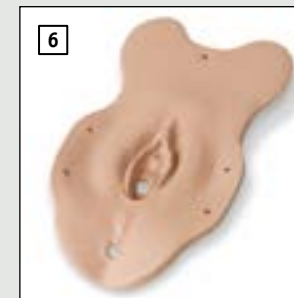
## 6 Pre-Puberty Module

Includes external genital pad only.

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

**Weight 0.3 kg**

■ Ref.no. R10941/4





### 1 Pelvic Examination Simulator Set

These Pelvic Examination Simulators are designed to facilitate the teaching, demonstrating, and practicing of pelvic examination for tumor detection. This product consists of a set of two simulators. Each simulator is identical in outward appearance, as each was made from the same mold. However, the palpable internal structure differs. One of the simulators is considered “normal” and contains normal ovaries, cervix, and uterus. The other “abnormal” simulator has an ovarian cyst; the ovary has a solid tumor, and the uterus is indicative of leiomyoma uteri. Bony landmarks and normal and atypical organs are anatomically correct in size, shape, texture, and location. The tumor and masses are also placed to ensure anatomical accuracy, and they are texturally realistic. Palpation and manipulation with hands and fingers in and on the internal and external genitalia, abdominal wall, ovaries, and uterus can be performed with very realistic tactile experience. These simulators are intended for digital examination only; use of a vaginal speculum is not recommended. The Pelvic Examination Simulator Set includes two simulators (“normal” and “abnormal”), instruction manual, lubricant, glove, and two hard carrying cases.

**Weight:** 21 kg

■ **Ref.no.** R10930



**ALSO AVAILABLE AS SINGLE SIMULATORS:**

### 2 Normal Pelvic Examination Simulator

**Weight:** 12.3 kg

■ **Ref.no.** R10930/1

### 3 Abnormal Pelvic Examination Simulator

**Weight:** 12.3 kg

■ **Ref.no.** R10930/2





## 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

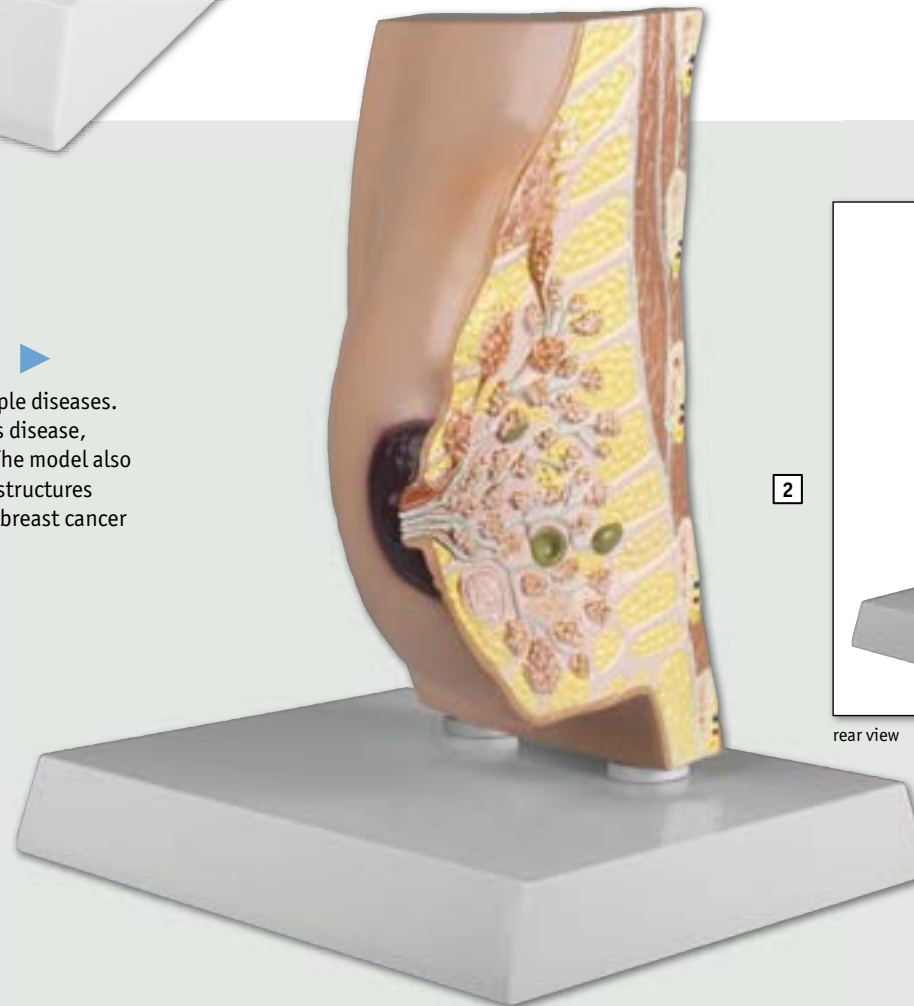
■ **Ref.no.** L281

## 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, Paget'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

**NEW!**

### 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

**NEW!**

### 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

**NEW!**

### 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**

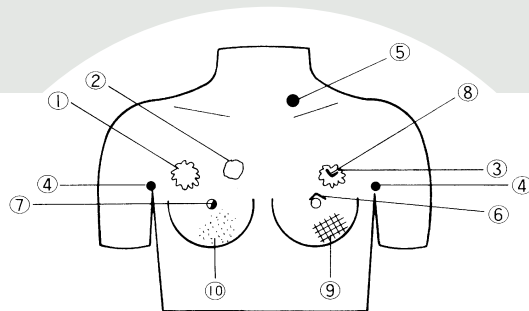
■ Ref.no. L62



### 1 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



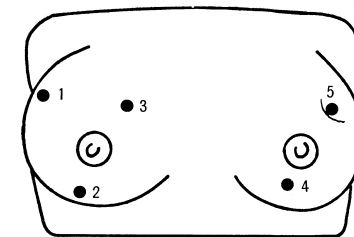
1. Irregular lump, cancer, 2. Soft, flat lump, benign tumour 3. Irregular lump, cancer, 4. Lymph node metastasis, axillary 5. Lymph node metastasis, cervical, 6. Inverted nipple (as symptom of underlying cancer), 7. Paget's disease, 8. Indentation (caused by underlying cancer), 9. Oedema of the skin,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

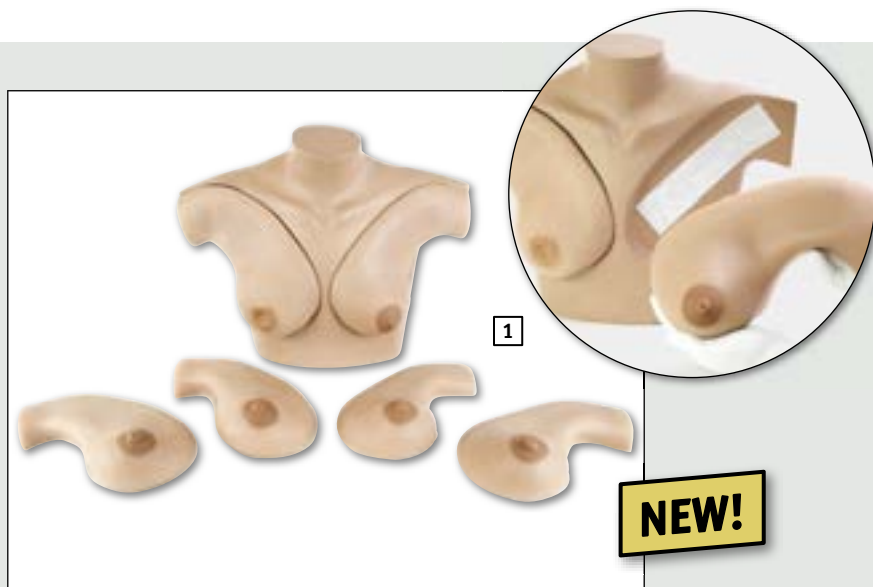
The BSE simulator has received top marks from healthcare professionals. They are thrilled with its durability, texture, and realism. Now with new softer & more realistic breasts. Teaching is made easy and realistic since the BSE simulator may be used in either the vertical or reclining position - Each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

Basic		Transparent Hand-Eye Coordination  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  Size of targets: 6 mm dia. and 10mm dia. Type of targets: Hyperechoic (blue), Hypoechoic (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

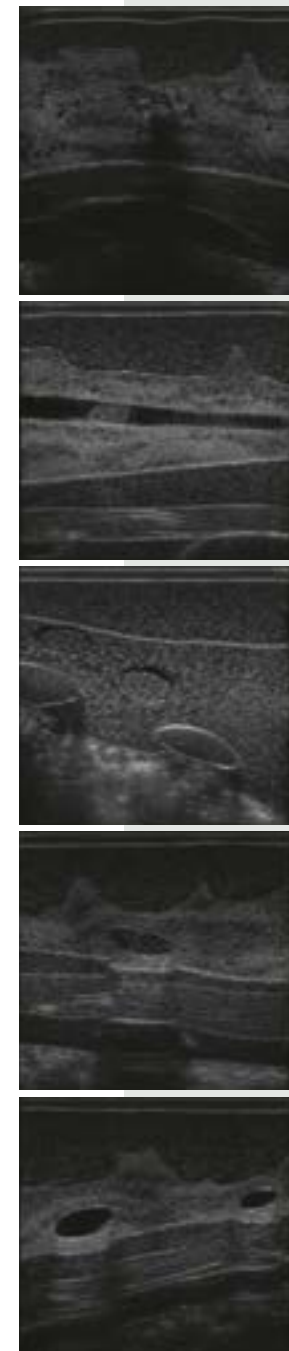


## 2 Breast Ultrasound Examination Phantom

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

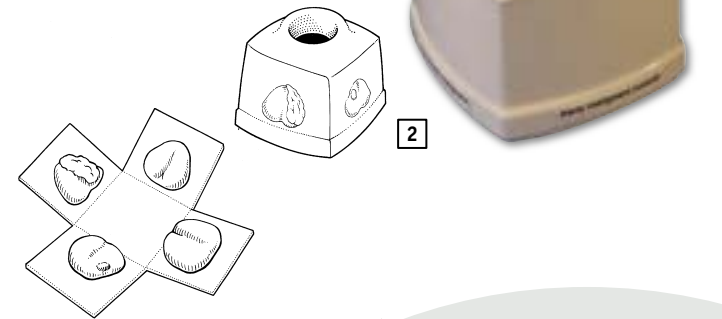
### 2 Prostate Examination Trainer

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 Prostate Examination Simulator

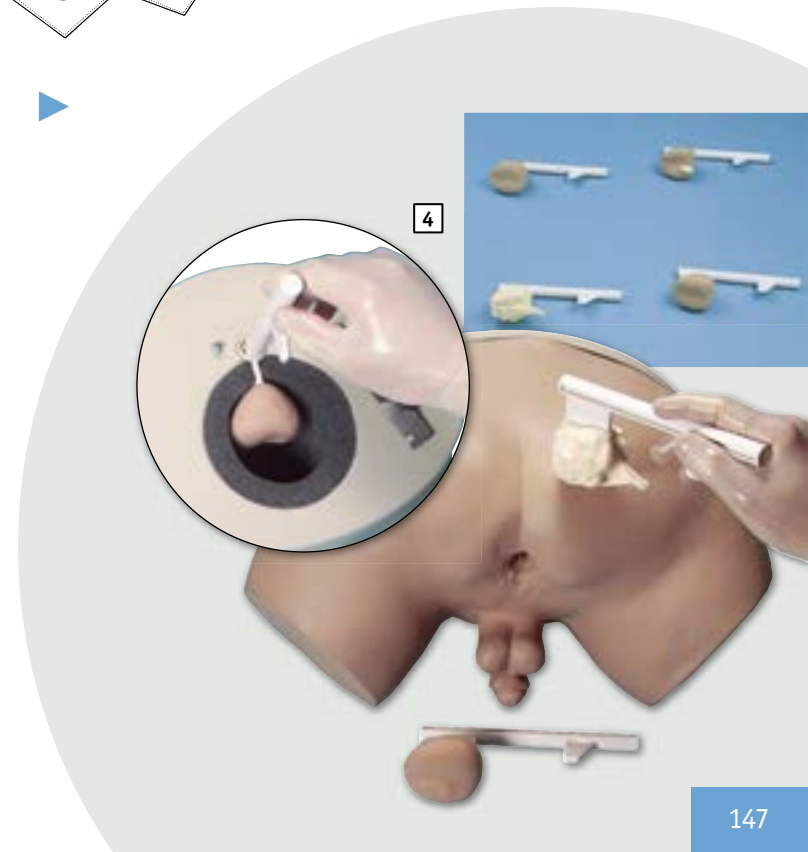
This simulator consists of a male abdomen body and 4 different interchangeable prostate glands which can be inserted to allow realistic practice in diagnosis by rectal examination. Supplied with lubricant, cleaner and transport case.

**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



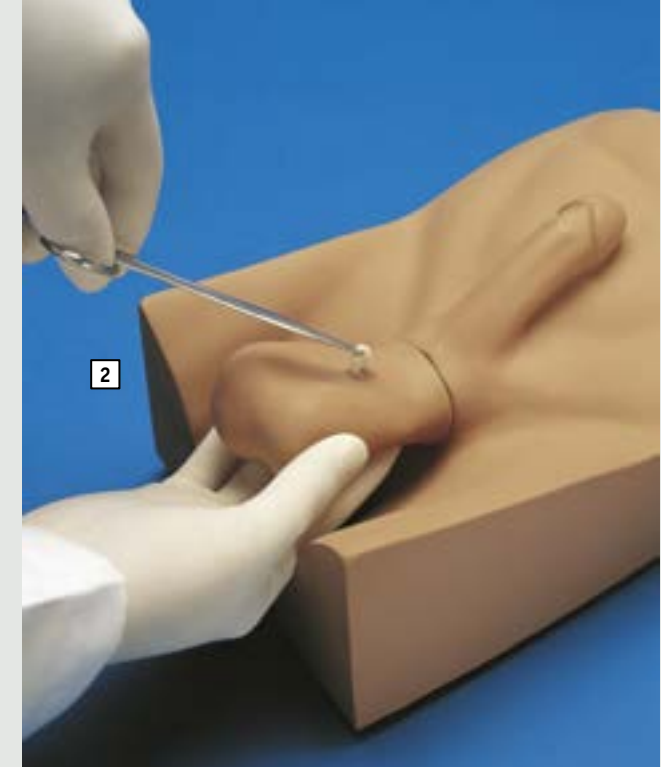
4

## 1 ZACK Multipurpose Male Care Simulator

A full-size male lower torso with an internal bladder for catheterization, four interchangeable prostates (depicting moderately enlarged benign prostate, prostate with two discreet nodules, prostate with easily palpable large mass, and prostate with malignant invasive cancer), realistic penis and two scrotal sacks (one scrotal sack is normal, the other contains tumors in each testicle), one scalpel vasectomy kit containing two removable scrotal skins, two testicles and two long vas assemblies that can be advanced as needed for NSV exercises, and a rectum and colon containing benign and malignant masses easily visualized using an appropriate endoscope. Comes with an instruction manual and soft carry bag.

Weight 11 kg

■ Ref.no. R10187



## 2 No Scalpel Vasectomy (NSV) Model

A compact simulator developed to assist in learning a new method of vas occlusion. To provide realism, the leg stumps are designed to "get in the way" of the student as the procedure is mastered.

### It features:

- Two removable scrotal skins
- Two testicles
- Two long vas assemblies can be advanced as needed for NSV exercises

Comes with Instruction manual.

■ Ref.no. R10185

## 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

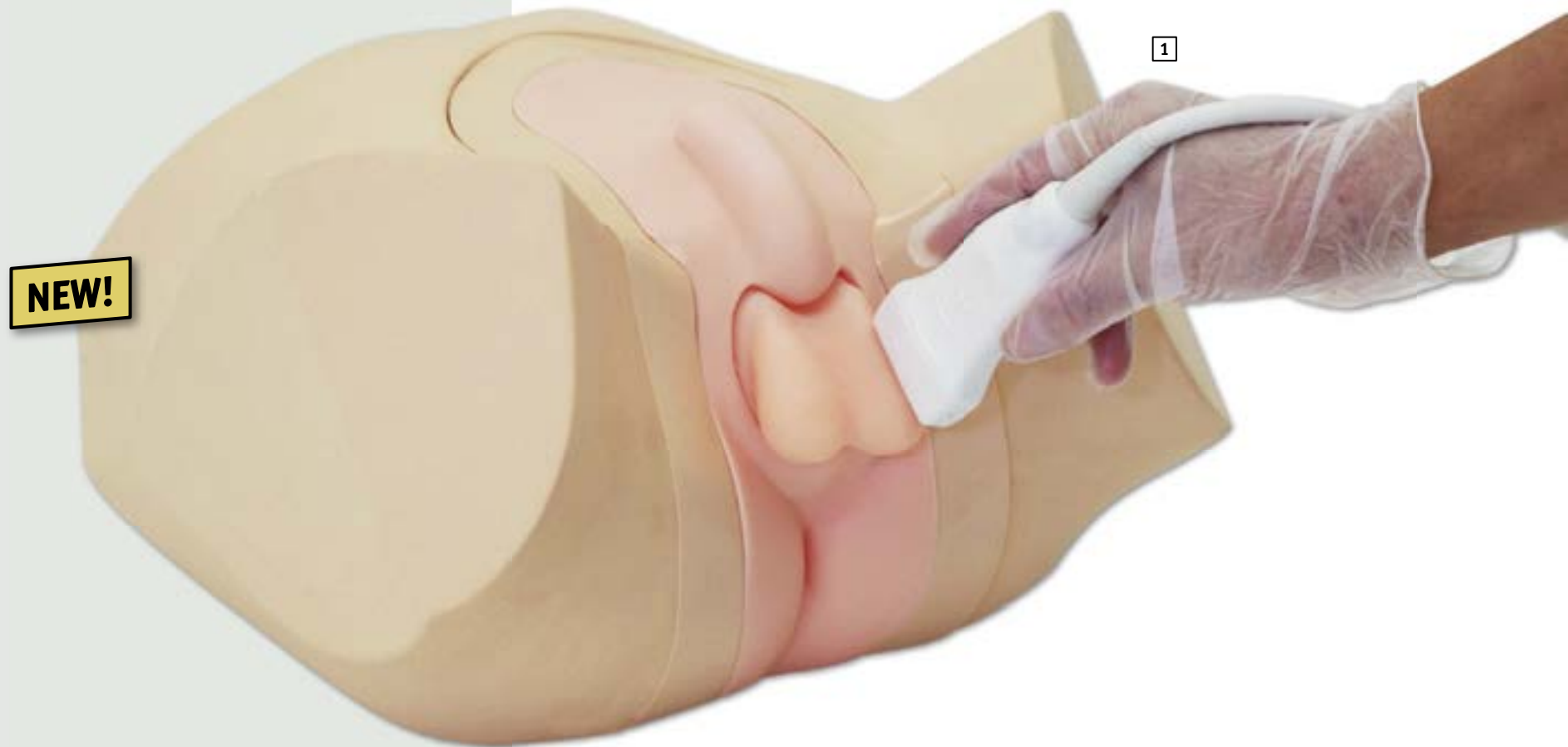
- Scrotal ultrasound screening
- Visualization of testicular cancer

### 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. R16017





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

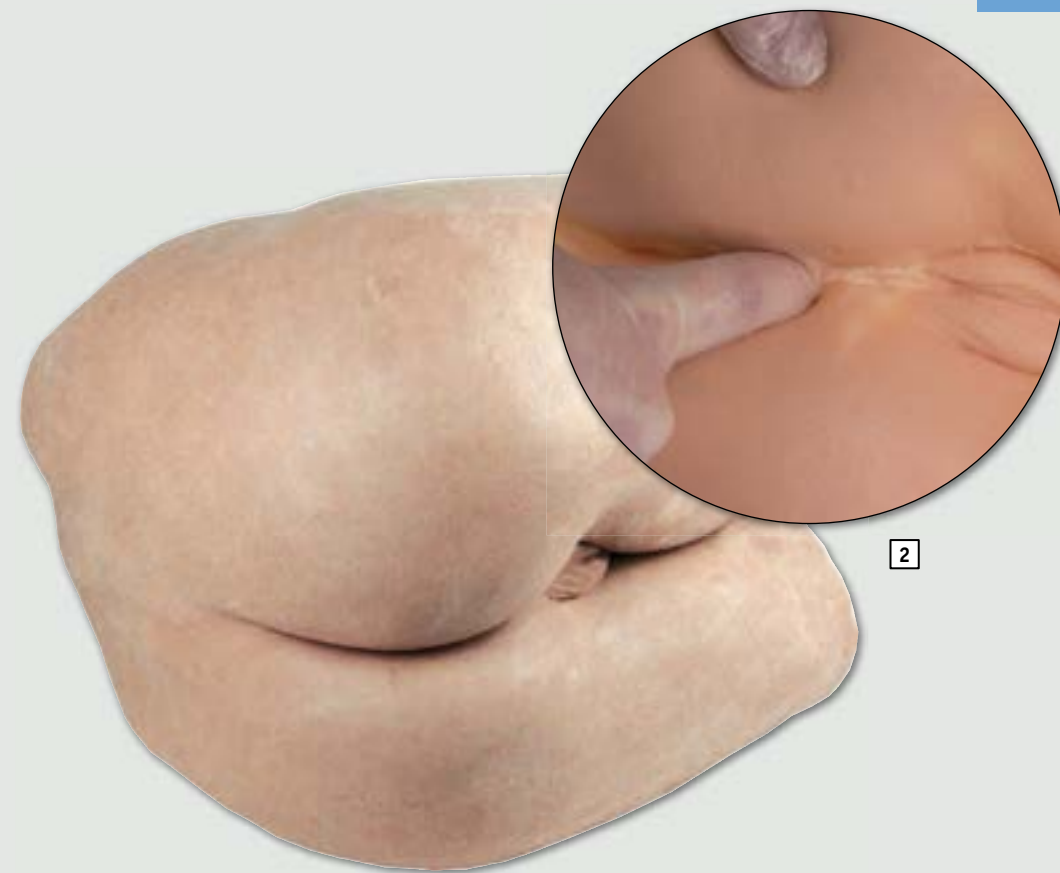
This trainer allows the realistic practice of the digital prostate examination. The model comes with 10 different prostate inserts. 5 of these insert can be placed inside the model simultaneously, the teacher can easily switch between them using a steering switch.

### 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 Training model digital rectal examination

Developing this new type of examination model the experiences from daily education work were transferred into a very realistic and durable model using latest material technologies. This model has been developed in co-operation with Dr. König, associate professor, surgical skills lab, dept. for general and visceral surgery, University Medicine Goettingen. It exactly fits the needs of education in medical skills labs. Life like haptics and durable materials make this model the first choice for practical education. The basic model represents normal anatomy and is available in male or female version. Additionally other versions with pathologies can be ordered.

### Female version, normal anatomy

■ Ref.no. 9100/1

### Male version, normal anatomy

■ Ref.no. 9200/1

### Female version, carcinoma

■ Ref.no. 9100/2

### Male version, carcinoma

■ Ref.no. 9200/2

More pathologies under development.



## 1 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**



## 2 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

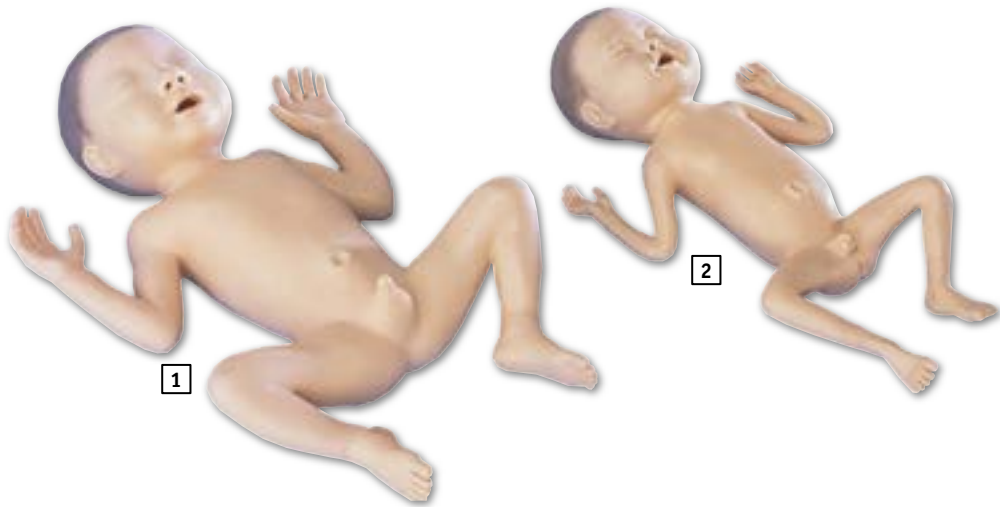
- **Ref.no. R16240C**

### Insert with polyps

- **Ref.no. R16240D**







## 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.

### 1 Model A

30 week old boy

**Size:** 39 cm, **circumference of head:** 29 cm

**Weight:** 1.6 kg

■ **Ref.no. LM62A**

### 2 Model B

24 week old boy

**Size:** 34 cm, **circumference of head:** 25 cm

**Weight:** 0.7 kg

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

■ **Ref.no. LM62B**



### 3 Micro-Premie premature baby

To help you give your tiniest patients the best care possible, we are proud to introduce the Micro-Premie. This 25-week ELBW (Extremely Low Birth Weight) neonate is the smallest and most realistic pre-term infant available. Invaluable for training nurses and parents in care and handling techniques for babies that have had multiple medical interventions; the perfect team training aid for multiples or other high-risk delivery and transport scenarios. The baby can be

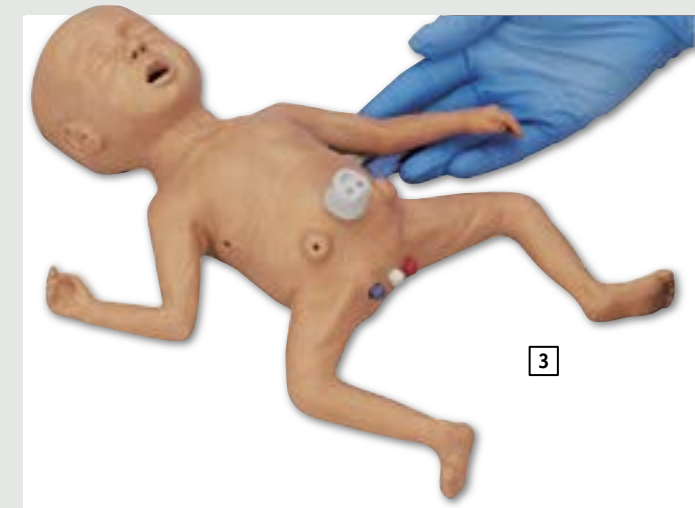
ventilated and will accept a functional ET tube, NG tube, umbilical catheter, and IV line, as well as a non-functional chest tube and stomas. Detachable neural tube defect and omphalocele.

#### Features and Functions:

- **Breathing** - pulse bulb to manually simulate breathing rate volume.
- **Ventilation** - molded-in lung produces a visible chest rise when ventilated by mouth; trachea and pharynx are not anatomically correct, but will accept a functioning endotracheal tube.
- **GI** - one nostril will accept a functioning NG tube (tube passes through the body and liquids will either drain away from the body or into the diaper).
- **Umbilicus** - soft, lifelike umbilicus has a patent vein and two arteries; umbilical stump functions like a cork, plugging into a small cavity molded into the abdomen (cavity can be used as a reservoir for blood drawn through a catheter or to receive fluids and the drain exits from the diaper area); a separate umbilicus represents an optional omphalocele.
- **IV Access** - several typical sites have embedded tubing that can accept an IV catheter; one is functional, allowing the administration of fluids, which will drain from the diaper area.
- **Chest Tube** - a permanent site in the baby's side accepts a nonfunctioning chest tube.
- **Neural Tube Defect** - An optional structure representing an open neural tube defect can be inserted into the back.
- **Various monitors, sensors, electrodes**, etc., can be attached to the manikin wherever needed.

**Size:** 30.5 x 10 x 47 cm

■ **Ref.no. BA90**





### 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 appr. 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**

- 5 Male version 1,2 kg  
■ Ref.no. BA77
- 6 Male version 2,4 kg  
■ Ref.no. BA77/1 (not pictured)
- 7 Female version 1,2 kg  
■ Ref.no. BA78
- 8 Female version 2,4 kg  
■ Ref.no. BA78/1 (not pictured)

**Dark Skin, Size: approx. 50 cm**

- 9 Male version 1,2 kg  
■ Ref.no. BA87
- 10 Male version 2,4 kg  
■ Ref.no. BA87/1 (not pictured)
- 11 Female version 1,2 kg  
■ Ref.no. BA88 (not pictured)
- 12 Female version 2,4 kg  
■ Ref.no. BA88/1 (not pictured)

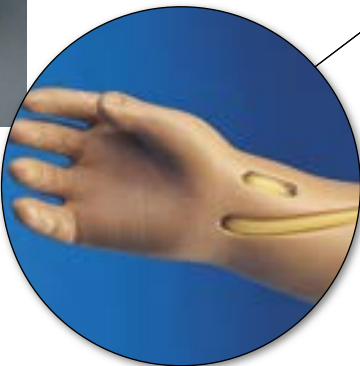
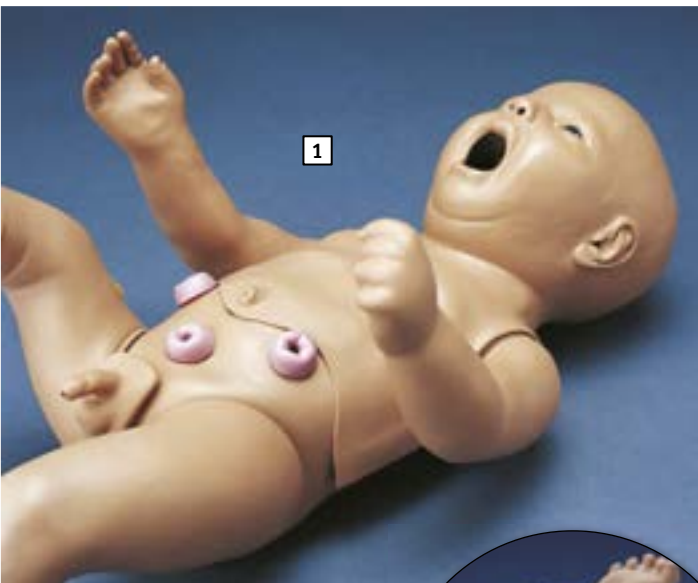


### 13 Neonate doll for Physiotherapy

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.

**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:**

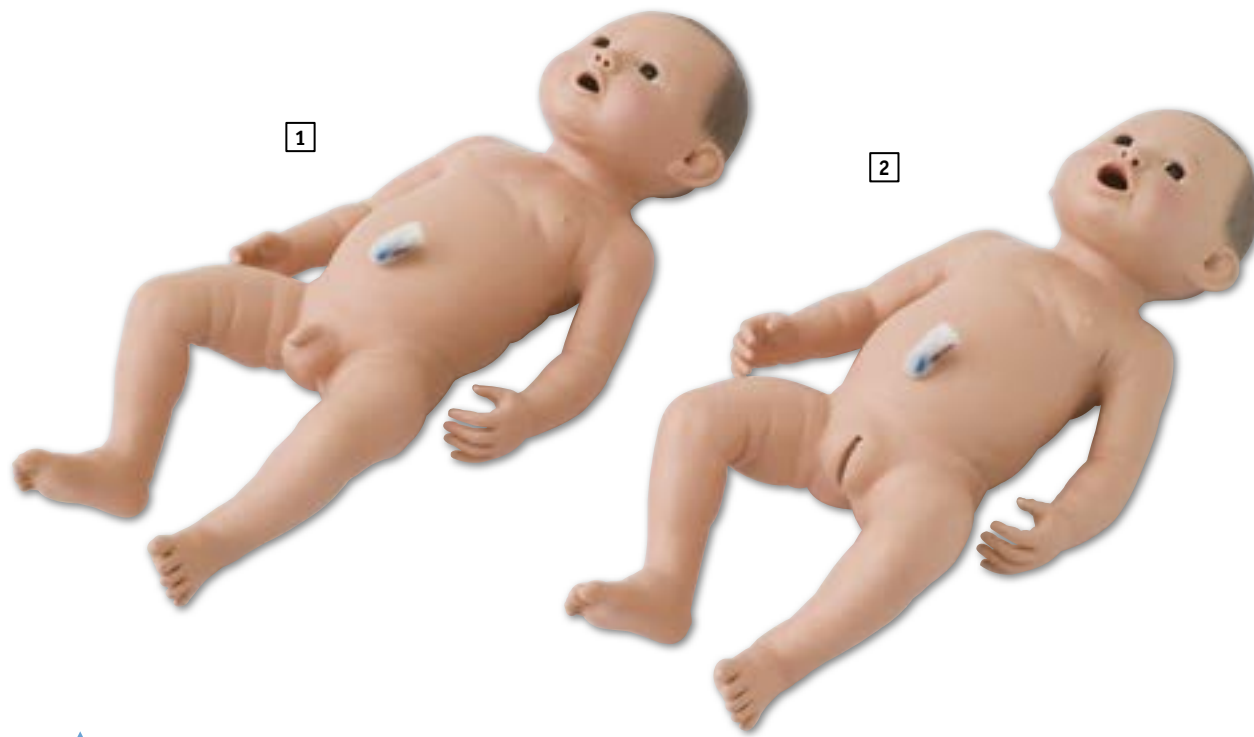
- Abdominal Distention, Gross
- Abdominal Distention, Moderate
- Gastroschisis
- Myelomeningocele
- Omphalocele
- Slack Face
- Subgaleal Hemorrhage

Comes in a hard carry case.

**Weight: 3.2 kg**

■ Ref.no. R11019





### 1 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 fontanels 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

### 2 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



### 3 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 fontanels 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

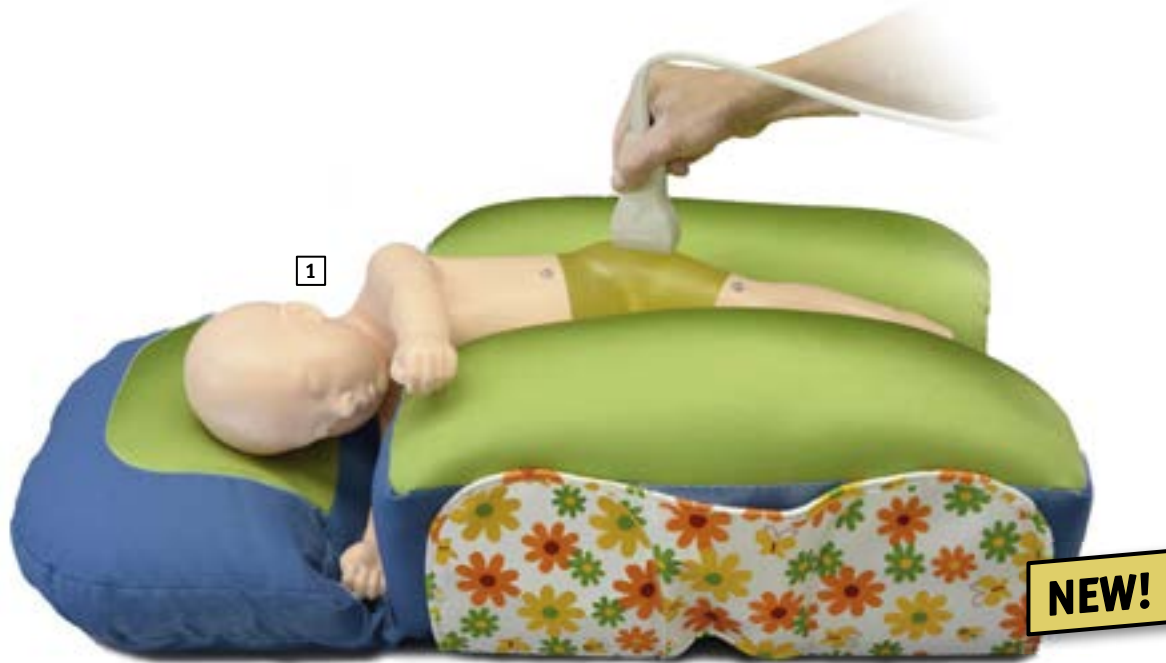
Also available separately:

**Male model**

■ Ref.no. R16210/1

**Female model**

■ Ref.no. R16210/2



## 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 SimPad System

- Ref.no. P200



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**



1



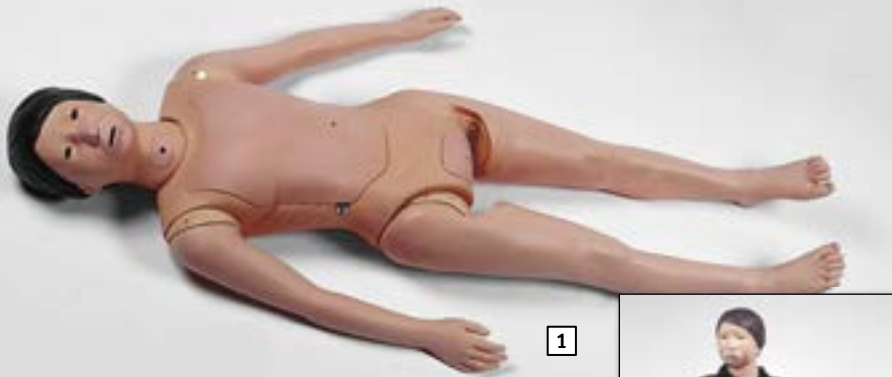
## 2 Infant-nursing doll

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

### 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**

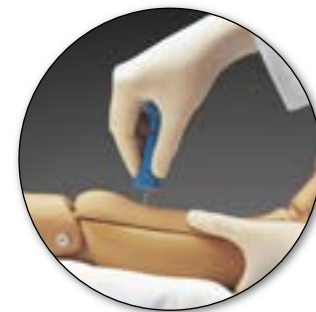
■ Ref.no. R17720/2

**Intraosseous infusion system**

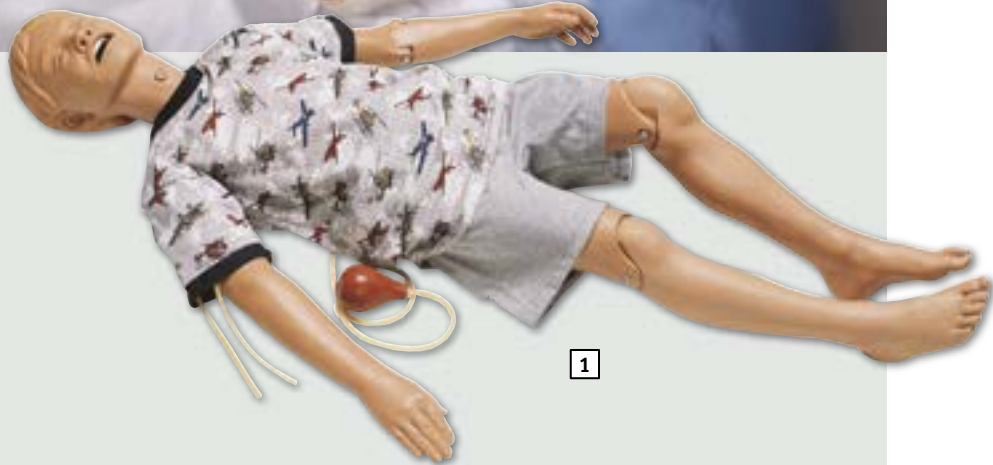
■ Ref.no. R17720/3

**External stoma sites with internal tanks**

■ Ref.no. R17720/4







2  
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 SimPad System

- Ref.no. P200

**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 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.

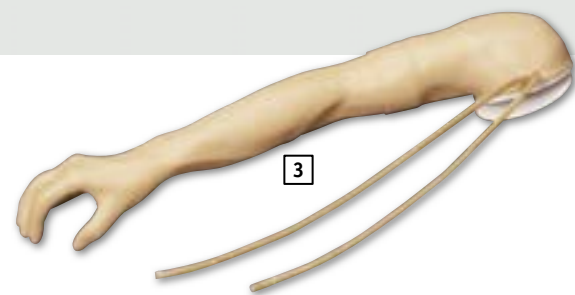
- Ref.no. LF4021 (not pictured)

▶ 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 206)



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





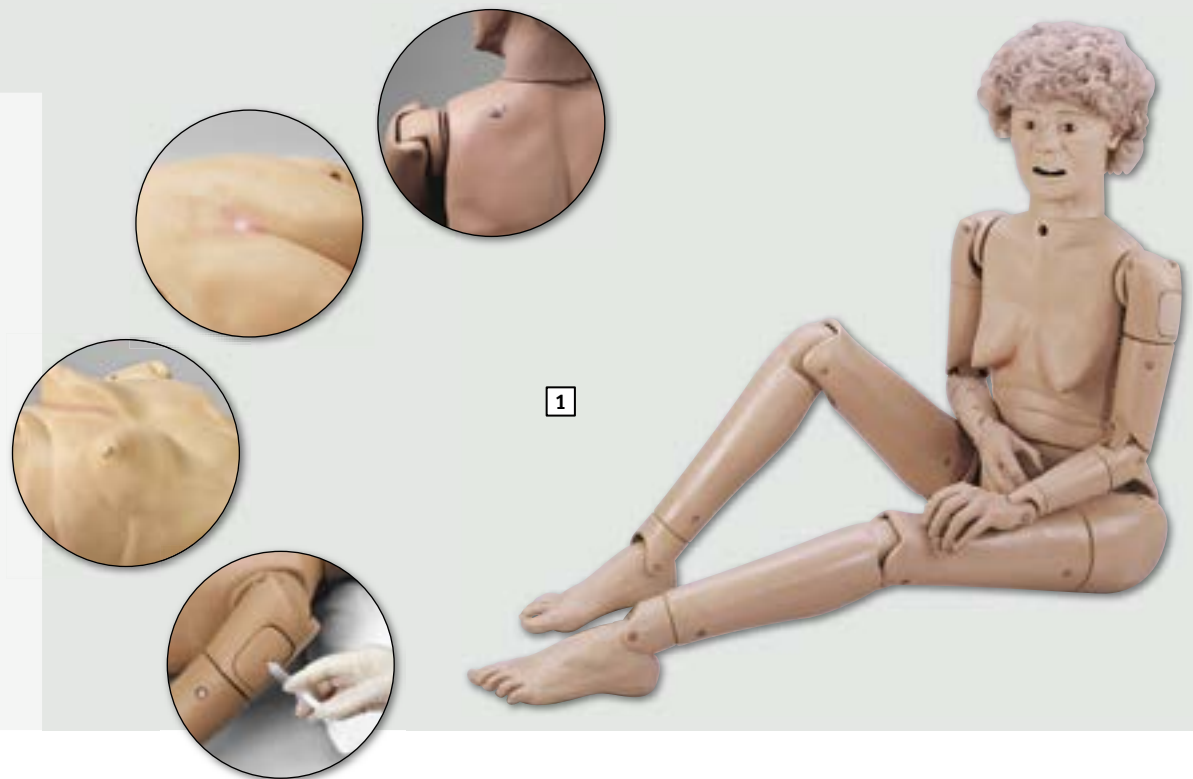
## 1 GERI geriatric care doll

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 164)

#### 4 Blood pressure measurement arm

■ Ref.no. LF4001/2 (see picture on page 164)

Auscultation Upgrade Kit (see page 206)

## 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

## 1 Clinical Chloe Patient Care Simulator

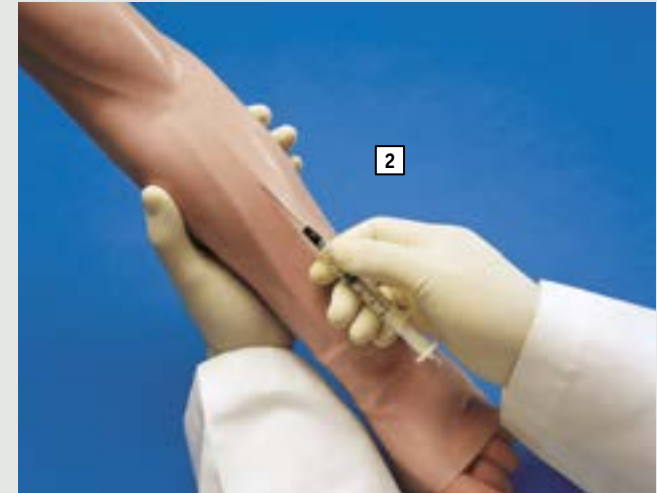
Sophisticated simulators for training in clinical nursing procedures. A variety of exercises may be performed, from simple bandaging and general patient care to breast palpation, catheterization, ostomy management, injection training, and cervical examination.

### 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
- Carry bag
- 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

**NEW!**



1

## 1 Nursing Kelly Manikin

Nursing Kelly is a manikin designed for scenario-based training of the care and management of a wide variety of in-hospital patients. This full body adult male manikin is perfect for beginning education for in-hospital healthcare professionals.

### Product benefits:

- Educationally effective for training core in-hospital skills, targeting specific skills of hospital care providers
- Economical and educationally efficient skills and scenario based trainer develops critical thinking by allowing students to perform assessments and interventions
- Durable, rugged and lifelike; made to withstand years of use
- Flexible manikin platform which allows multiple accessory modules to be added including trauma, nuclear, biological and chemical (NBC) module and bleeding control in multiple clinical settings

### Product features:

- Head with anatomical landmarks, trachea and esophagus, with simulated lungs and stomach allow the practice of many procedures, including NG, OG, tracheal care and suctioning
- IV cannulation, medication administration, site care and maintenance are allowed in the antecubital area and the dorsum of the hand, accessing the median, basilic, and cephalic veins
- Ability to practice medication dose calculations and administration through intramuscular injections at the deltoid, gluteal, ventrogluteal, and thigh sites
- Realistic male and female urinary catheterization and enema procedures may be performed with fluid return
- Manually operated carotid pulse
- Dental hygiene
- Subclavian IV, various ostomy and chest tube openings for site care and maintenance
- Wound modules can be added to create realistic scenarios for wound assessment and care

### Available with optional SimPad™ Controller:

- Students can auscultate normal and abnormal heart, breath and bowel sounds using a standard stethoscope.
- Instructor-controlled blood pressure arm allows for realistic palpation and auscultation. Systolic and diastolic pressures, auscultatory gap, and volume are variable
- SimPad allows for increased functionality including creating, editing, and running of scenarios. Pre-programmed scenarios help educators standardize teaching Pre-programmed scenarios provide standardized training while customizable scenarios and real time instructor control allows adaptation to meet individual student needs

### Version not SimPad capable

- Ref.no. P120 (cannot be upgraded to SimPad)

### Version SimPad capable

- Ref.no. P122

### SimPad System

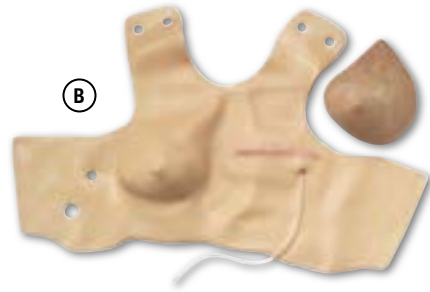
- Ref.no. P200



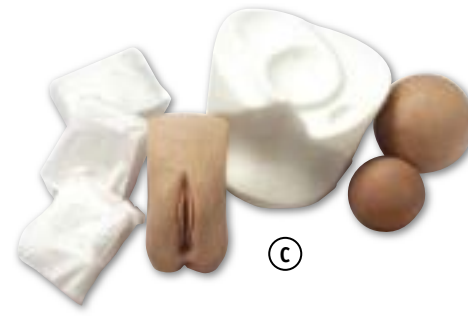
**Important:** If a SimPad product is purchased for the first time, product training by the manufacturer is mandatory. This has to be ordered with **Ref.no. P300**. Ordering this product without product training is not possible



(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 care, 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

### Version not SimPad capable

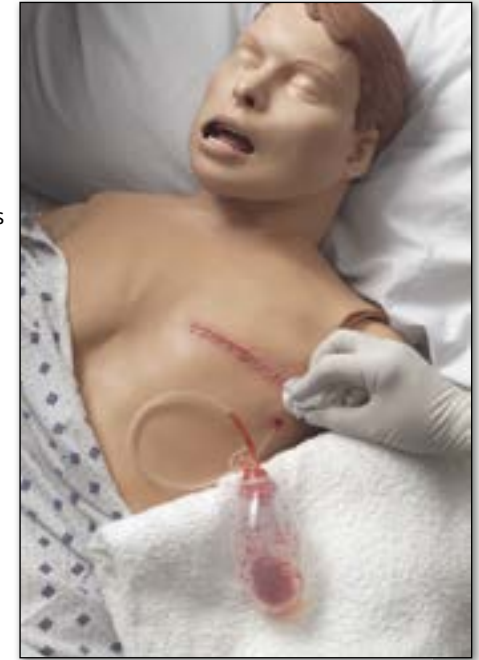
- Ref.no. P150 (cannot be upgraded to SimPad)

### SimPad System

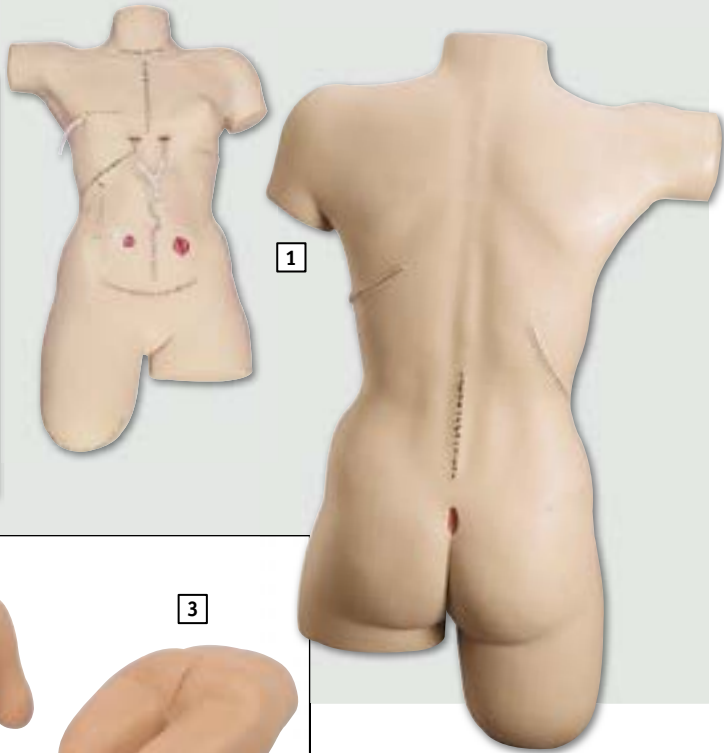
- Ref.no. P200

### Version SimPad capable

- Ref.no. P151



**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

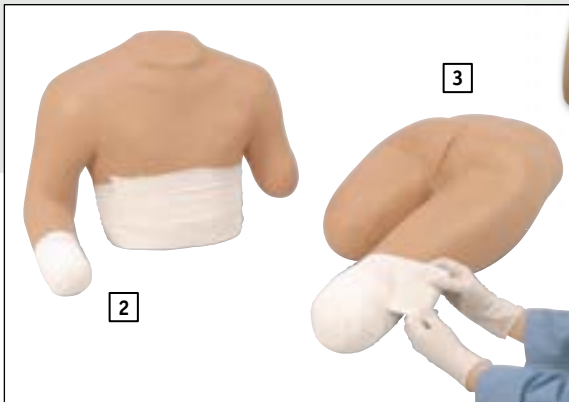
This simulator consists of a female torso with flexible, lifelike skin which realistically responds to adhesives and all types of bandaging procedures. 14 different wounds allow one to practice wound management techniques, cleaning and bandaging techniques just like on a real patient. Wound closures 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.**

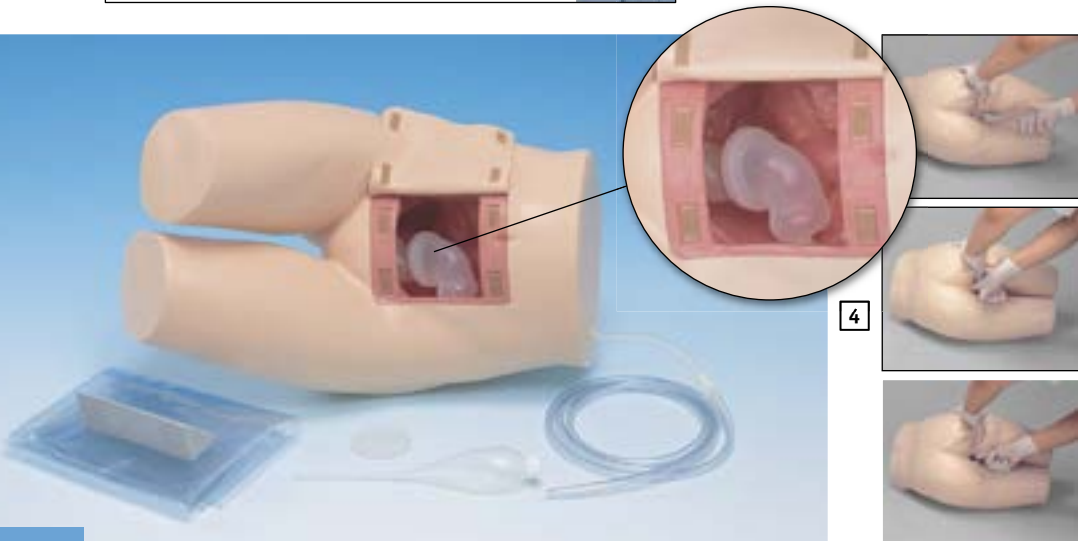
■ Ref.no. R10022

### 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, bandaged or fitted with ostomy bags. Supplied with lubricant.

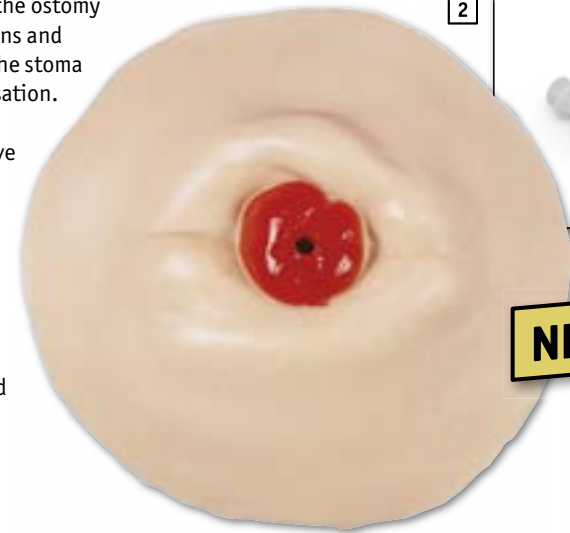
■ Ref.no. R10132

### 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



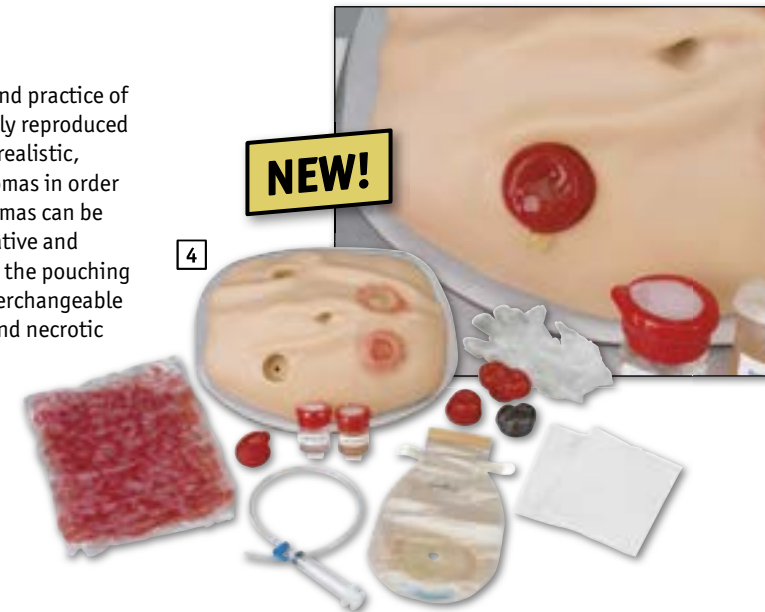
NEW!

### 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

NEW!



### 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

### 3 Otto Ostomy

Otto Ostomy includes anodized aluminum base, clear torso shell with four openings for stoma placement, stomach, small intestine, large intestine, rectum, kidneys, ureters and bladder, ileal conduit, two sections of small intestine, two adaptor connectors (to demonstrate loop stoma with either the small or large intestine), four stomas: 0.9 cm diameter, 5 cm diameter, 0,9 cm with two 8 cm stents (to be used with the ileal conduit), loop stoma with rod, and user manual.

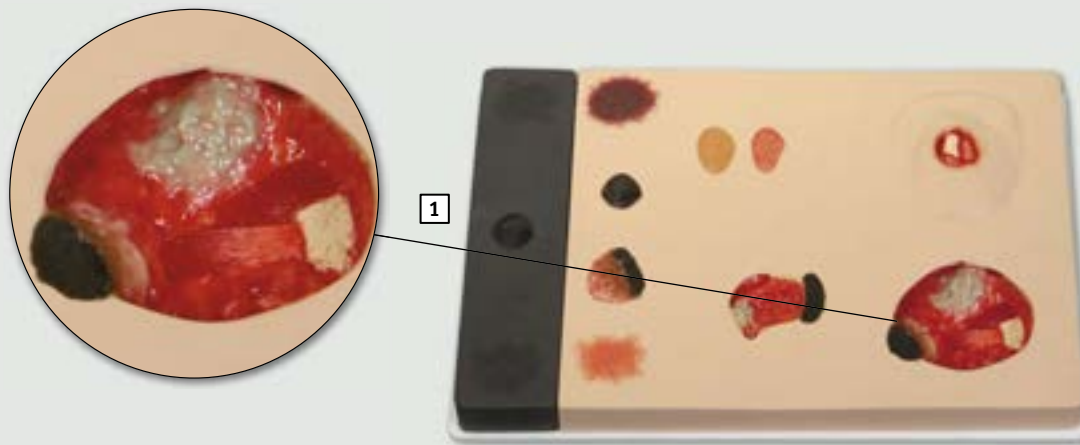
■ Ref.no. R11008

### 4 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)



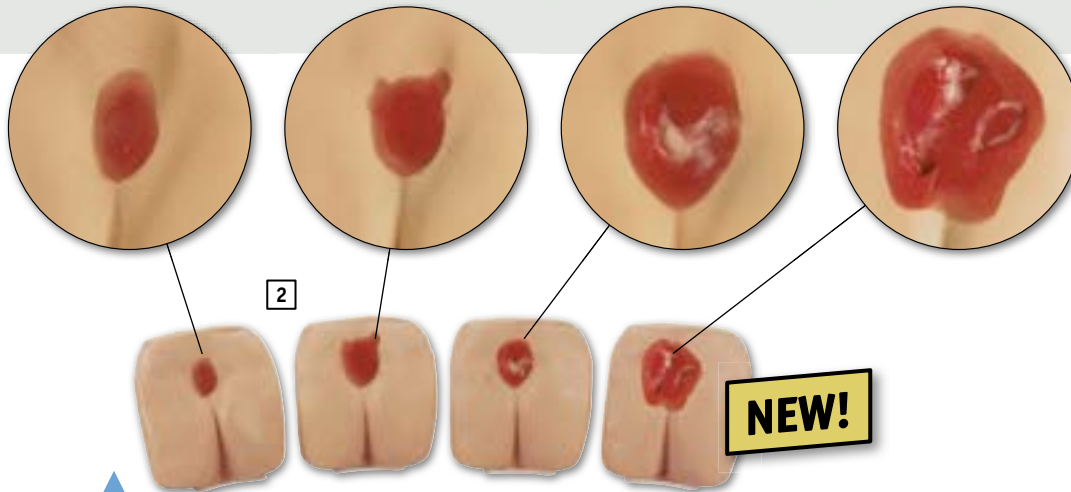


### 1 Pat Pressure Ulcer Staging Model

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 dehisced wound. Life size.

■ **Ref.no.** R10073



**NEW!**

## 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.

Available as set or as single wounds:

- |  |   |
|--|---|
| <b>1</b> Set with all wounds<br>■ Ref.no. 8010                               | <b>11</b> Wound with debris, yellow with cavity, small<br>■ Ref.no. 8020      |
| <b>2</b> Surgical wound, sutured, severe inflamed, large<br>■ Ref.no. 8011   | <b>12</b> Wound with debris, white with cavity, large<br>■ Ref.no. 8021       |
| <b>3</b> Surgical wound, sutured, severe inflamed, small<br>■ Ref.no. 8012   | <b>13</b> Wound with debris, white with cavity, small<br>■ Ref.no. 8022       |
| <b>4</b> Surgical wound, sutured, slightly inflamed, large<br>■ Ref.no. 8013 | <b>14</b> Wound with debris, black with cavity, large<br>■ Ref.no. 8023       |
| <b>5</b> Surgical wound, sutured, slightly inflamed, small<br>■ Ref.no. 8014 | <b>15</b> Wound with debris, black with cavity, small<br>■ Ref.no. 8024       |
| <b>6</b> Surgical wound, stapled, severe inflamed, large<br>■ Ref.no. 8015   | <b>16</b> Wound with mixed color debris, with cavity, large<br>■ Ref.no. 8025 |
| <b>7</b> Surgical wound, stapled, severe inflamed, small<br>■ Ref.no. 8016   | <b>17</b> Wound with mixed color debris, with cavity, small<br>■ Ref.no. 8026 |
| <b>8</b> Surgical wound, stapled, slightly inflamed, large<br>■ Ref.no. 8017 | <b>18</b> Anus Praeter<br>■ Ref.no. 8027                                      |
| <b>9</b> Surgical wound, stapled, slightly inflamed, small<br>■ Ref.no. 8018 | <b>19</b> Wound with cavity and with cornification<br>■ Ref.no. 8028          |
| <b>10</b> Wound with debris, yellow with cavity, large<br>■ Ref.no. 8019     |   |





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 wounds 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**

## 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

**2**





1



disassembled

### 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

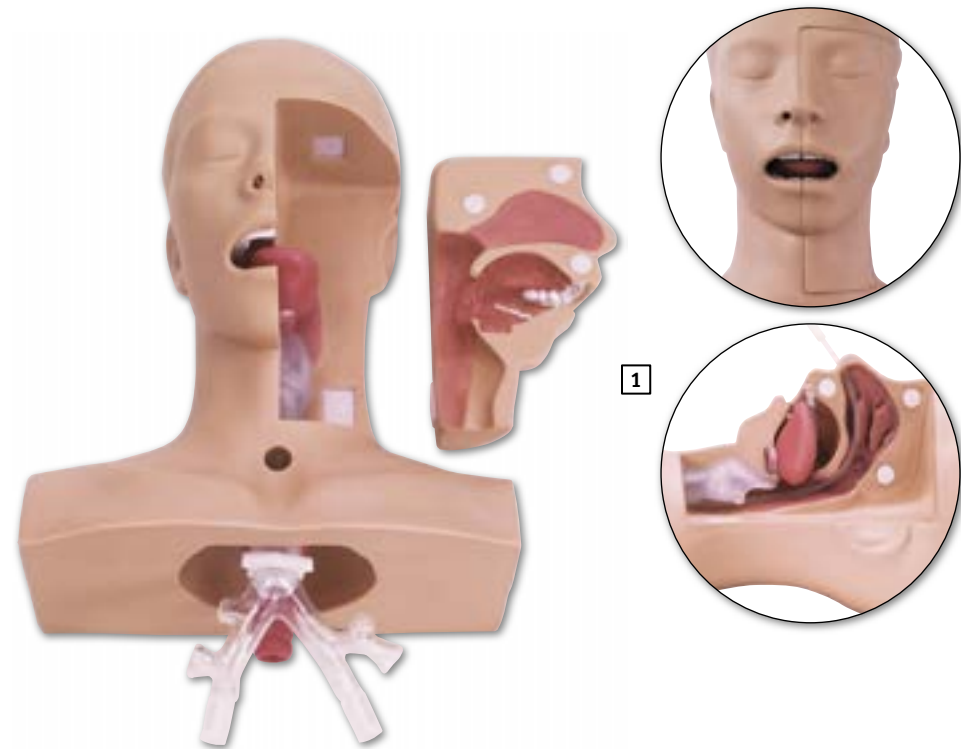
■ Ref.no. LM97C



## 1 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



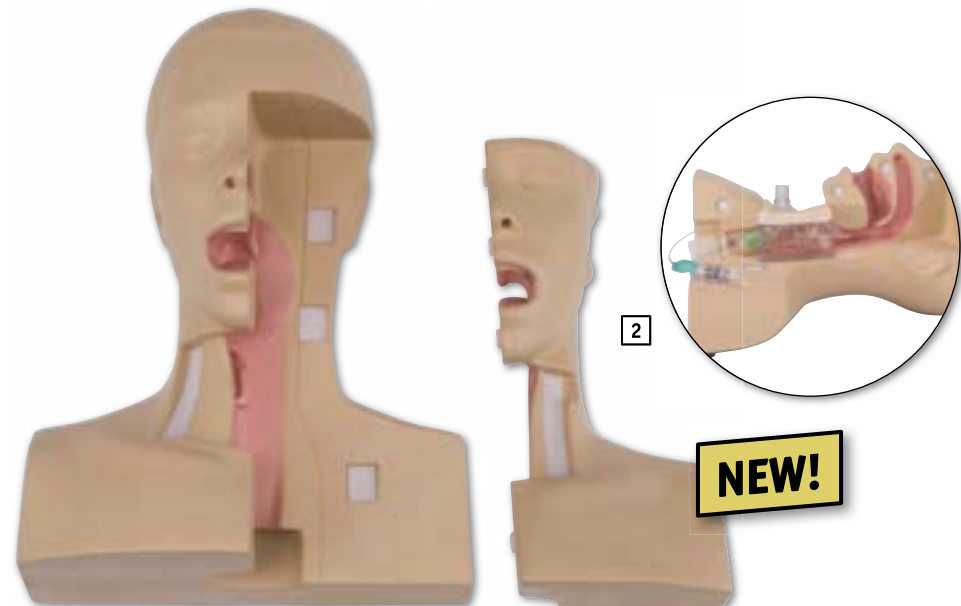
## 2 Tracheostomy management simulator

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 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 as well as direct observation. 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

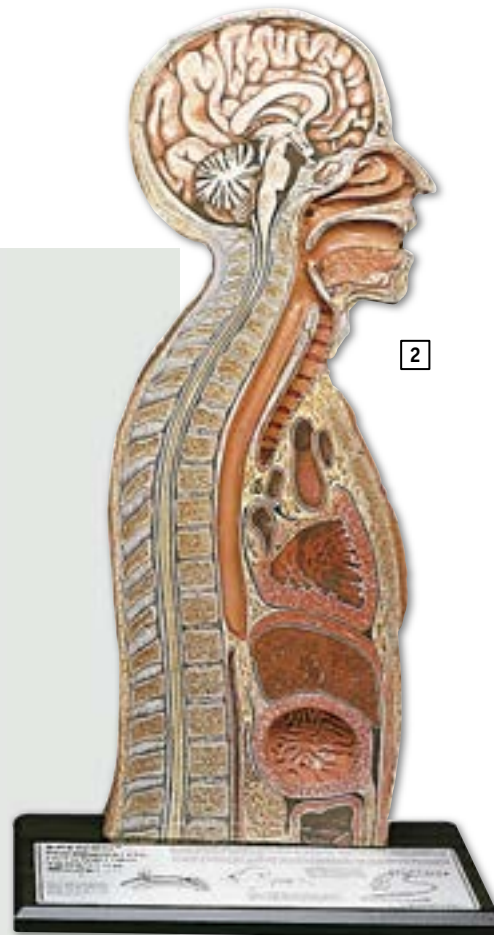


## 2 Nasogastric intubation model

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

### 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

### 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

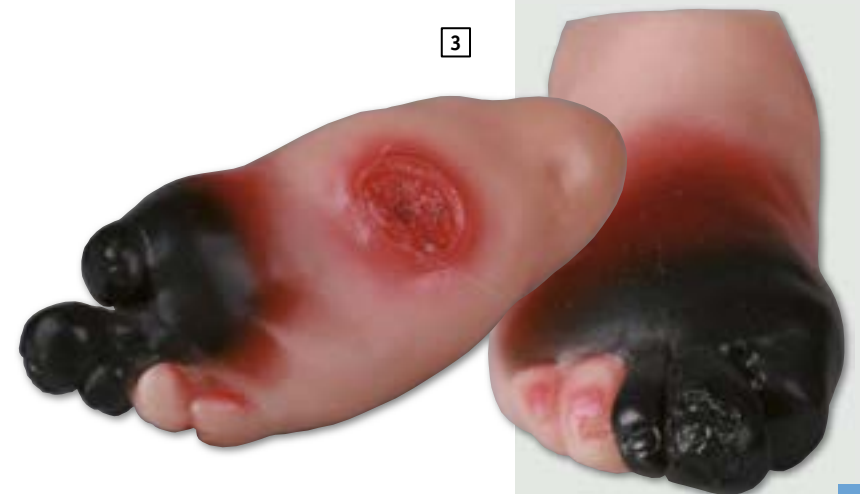
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### 3 Diabetic foot model, severe stage

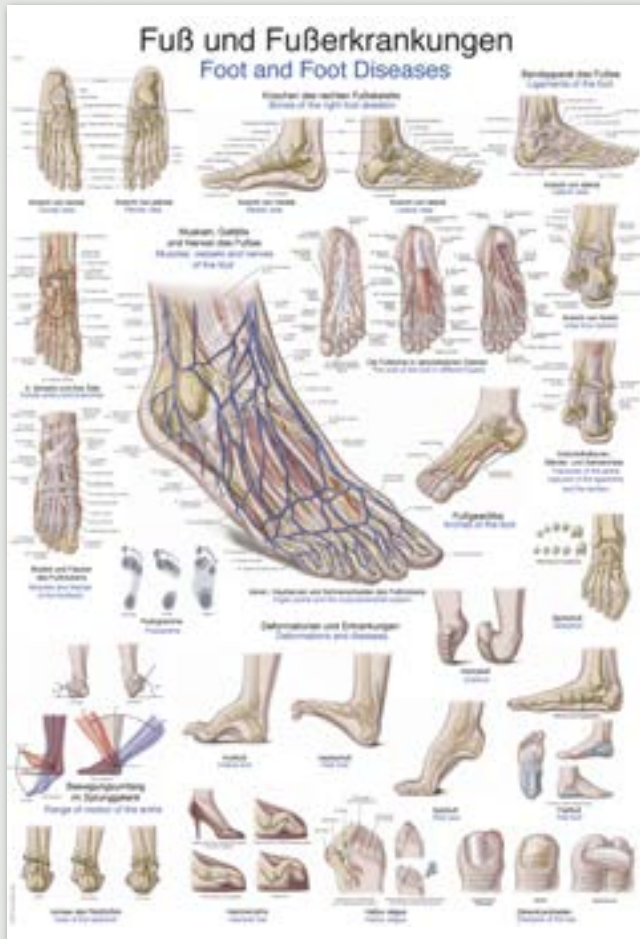
This model in life size shows the severe consequences of diabetes, including an amputated toe, Charcot foot deformity, and severe infection and gangrene.

*Size: 10 x 23 cm*

■ Ref.no. R10067/1







1

### 1 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

### 2 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



3

**NEW!**

### 3 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

## 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

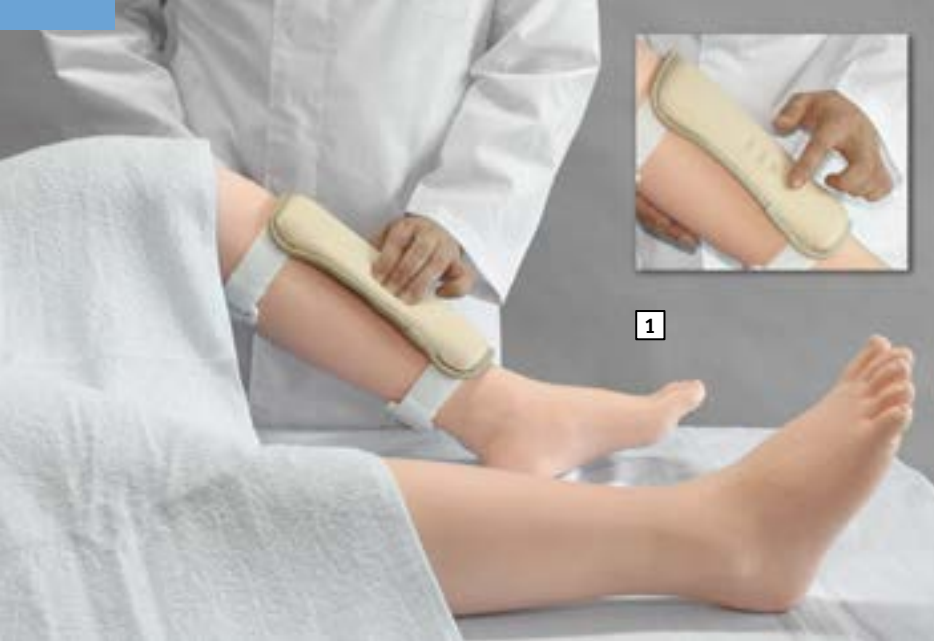


## 2 Elderly pressure ulcer foot

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 is red. A great amount of tissue has been damaged, including muscle, bone, joints, and tendons.
- **Ref.no.** R10228

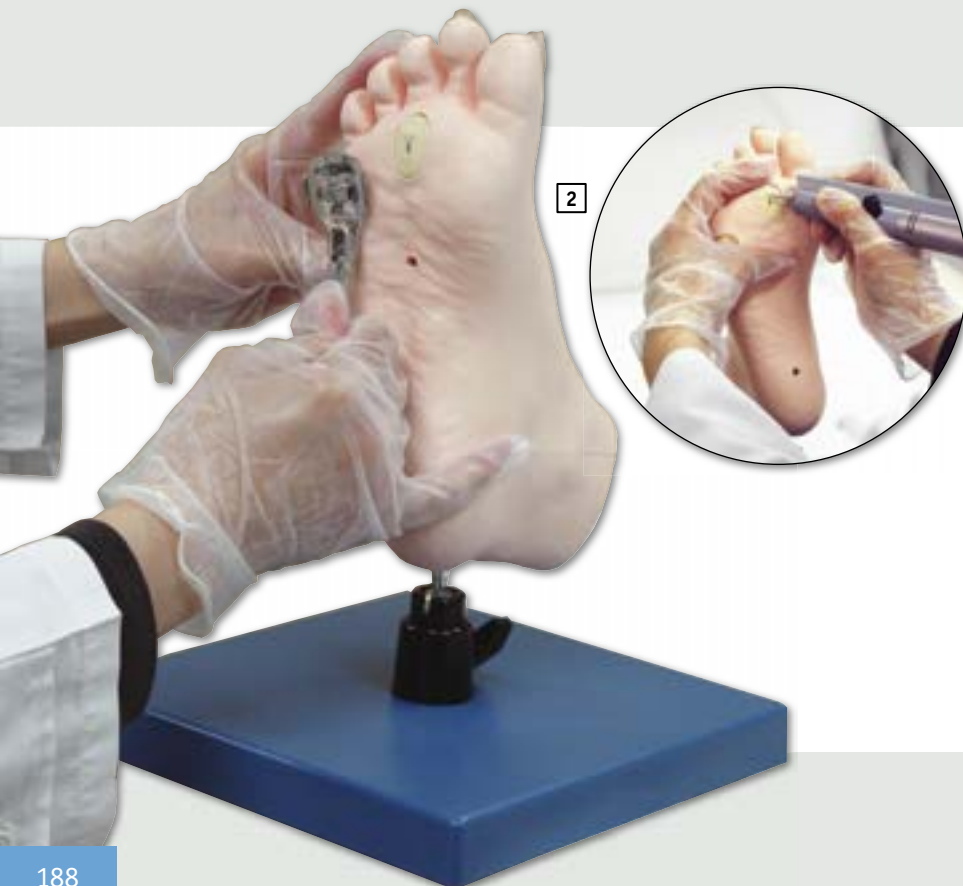




## 1 pitting edema model

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 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



SPARE PARTS:

**Toe nail, ingrown (20pcs set)**

- Ref.no. R16080A

**Toe nail, ringworm (20pcs set)**

- Ref.no. R16080B

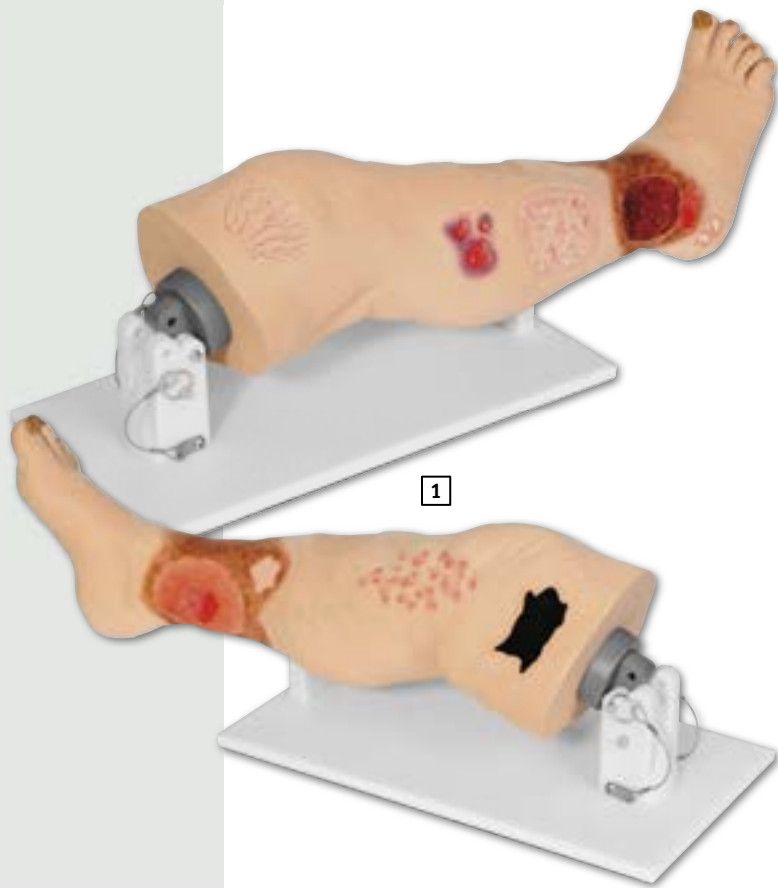
**Callosity (10pcs set)**

- Ref.no. R16080C

**Corn (10pcs set)**

- Ref.no. R16080D





### 1 “Vinnie” venous insufficiency leg

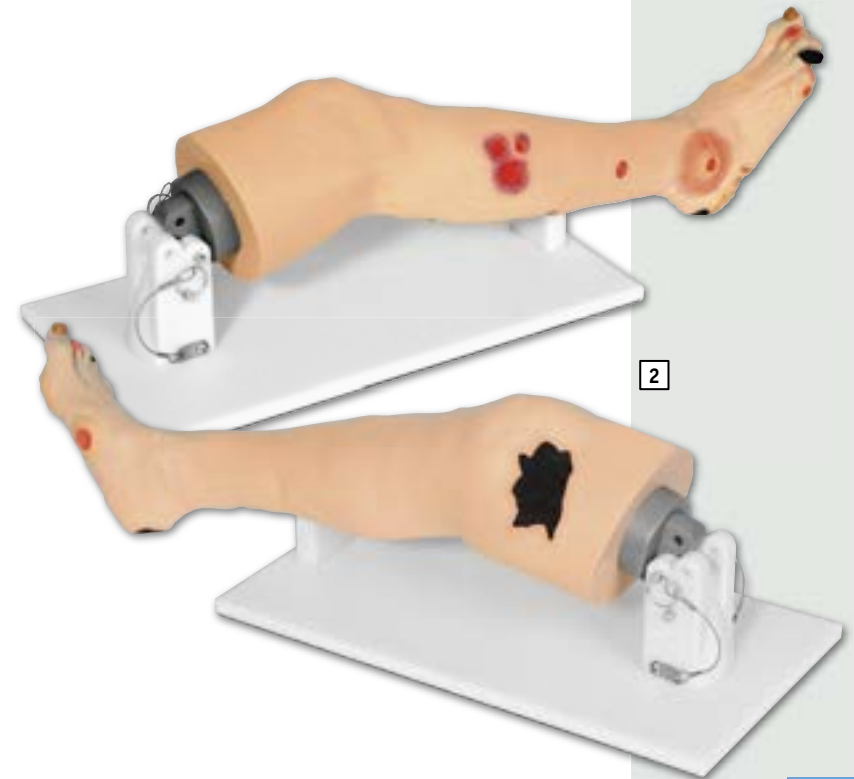
is a great tool for teaching, training, competency testing and skills assessment in the care of patients with this condition. Wounds associated with venous disease and other wounds on the lower leg & foot are often extremely painful for the patient, thus adding urgency to their effective and efficient 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

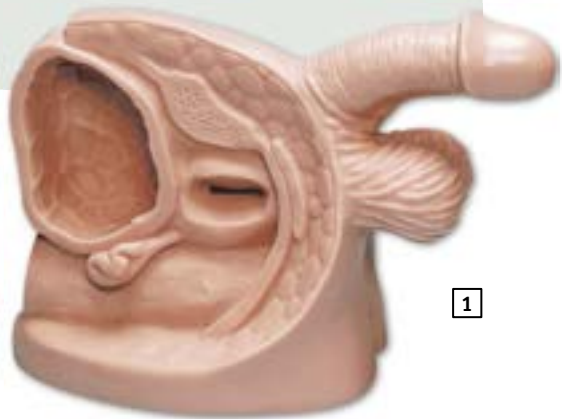
is a great tool for teaching, training, competency testing and skills assessment in the care of patients with this condition. The following conditions are represented on “Annie” Arterial Insufficiency Leg: Arterial Ulcers, Necrotic Toes, Eschar Heel, Charcot Foot, Diabetic Foot Ulcer, Cellulitis, Dystrophic 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

### 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

### 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



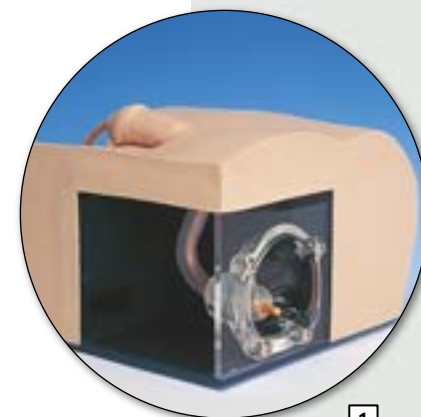
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### 1 Male catheterisation model

This unique replica of the male lower abdomen allows for the first time realistic practice of male catheterisation. Via the use of an innovative synthetic material, the skin and penis feel soft and deceptively real. During catheterisation with a balloon catheter, the practising person encounters the same resistances as in a real patient. The insertion and removal of a catheter, in addition to all accompanying gestures, can be practised. The penis is mobile as in a real patient and the correct position can therefore also be practised. Owing to the realistic shape of the urethra, simple catheterisation is possible only when the penis is in the correct position. The inner structures, such as the urethras, prostate and bladder are visible laterally and are transparent and the path of the catheter and the balloon position following successful catheterisation can be detected. Additionally successful learning, which cannot be achieved in a patient or in a doll model, can be obtained as a result. The practising person is given optimum preparation in catheterisation, since the feeling during handling and the resistances during catheterisation correspond to the natural conditions and the same catheter can be used as in a patient. Supplied with matching transport case.

■ Ref.no. LM29



### 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 anus is also equipped with a drain, making it possible to practice administering colonic irrigation with fluid. 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

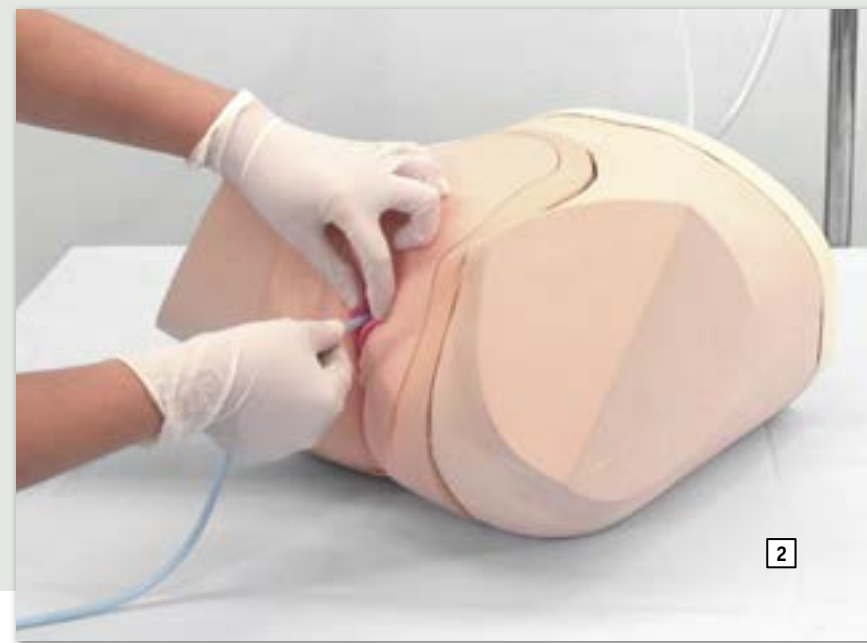


### 3 Female catheterisation model

Model as LM61, but without lower torso. This model can be used to be attached to a doll or person.

■ Ref.no. LM25





### ▲ 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) out ow.
- Manual bladder compression is possible.
- Enema training in lateral position.





### 1 Catheterization male

Model for training of transurethral and suprapubic catheterization. Because of special materials this simulator is extraordinary realistic. In addition to normal transurethral catheterization this model can be used for placement and care of suprapubic catheters. The model has a movable foreskin which makes training even more realistic and allows training of hygienic care. Penis, foreskin and suprapubic pad are consumables and can be replaced if necessary.

■ Ref.no. R10098

SPARE PARTS:

- Replacement penis Ref.no. R10098A
- Suprapubic pad Ref.no. R10098B
- Replacement foreskin (pack of 4) Ref.no. R10098C



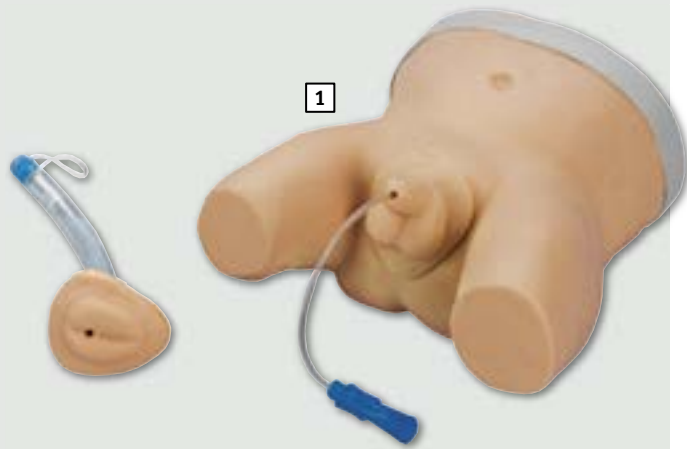
### 2 Catheterization female

Model for training of transurethral and suprapubic catheterization. Because of special materials this simulator is extraordinary realistic. In addition to normal transurethral catheterization this model can be used for placement and care of suprapubic catheters. Vulva and suprapubic pad are consumables and can be replaced if necessary.

■ Ref.no. R10099

SPARE PARTS:

- Replacement vulva Ref.no. R10099A
- Suprapubic pad Ref.no. R10098B



### 1 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**



### ■ 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.

### ■ 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.

### ■ 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



### 2 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**

### 3 XL version for people over 175 cm height or bigger body shape

■ **Ref.no. LM102** (not pictured)





## 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 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

**NEW!**







1



### 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.

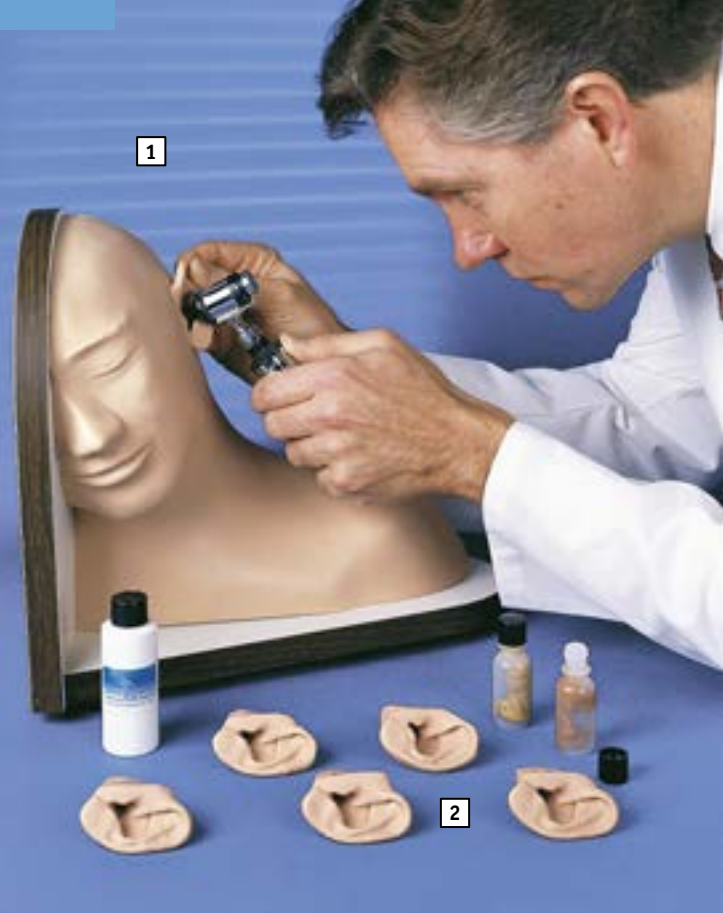
**Size:** 42 x 22 x 38 cm, **Weight:** approx. 2 kg

■ Ref.no. R16100



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2

### 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 (not pictured)

### 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
- Mucoid 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

### 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

### 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
- Mucoid 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



4



4



## 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

1



## 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







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## 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**



2



### 1 Rescue backpack COMPACTlight

Rugged rescue backpack for use in medical education. Extremely sturdy backpack with standard contents as used everywhere in real life.

#### Comes with:

1 Rescue backpack, 1 container module large, 2 container modules small, 1 suction device, portable, 1 disposable suction tube adult, 1 disposable suction tube child, 6 disposable suction catheter with open tip, three sizes, 1 resuscitation bag adult, 1 resuscitation mask, 2 Guedel airways, 1 Larynx tube set, 1 blood pressure monitor, 1 blood pressure cuff, 1 blood glucose monitor, 1 stethoscope, 1 diagnostic lamp, 1 skin disinfectant, 3 cannulas, different size, 3 fixation tapes, 1 infusion device, 1 tourniquet, 1 disposable gloves.

*Size without handles: appr. 28 x 45 x 15 cm, Weight, empty: 2.2 kg*

■ Ref.no. R11550

### 2 Rescue backpack COMPACT

Large rugged rescue backpack for use in medical education. Extremely sturdy backpack with standard contents as used everywhere in real life. Large version with enough space for additional intubation set.

#### Comes with:

1 Rescue backpack, 1 container module large, 2 container modules small, 1 suction device, portable, 1 disposable suction tube adult, 1 disposable suction tube child, 6 disposable suction catheter with open tip, three sizes, 1 resuscitation bag adult, 1 resuscitation mask, 2 Guedel airways, 1 Larynx tube set, 1 blood pressure monitor, 1 blood pressure cuff, 1 blood glucose monitor, 1 stethoscope, 1 diagnostic lamp, 1 skin disinfectant, 3 cannulas, different size, 3 fixation tapes, 1 infusion device, 1 tourniquet, 1 disposable gloves.

*Size without handles: appr. 35 x 45 x 23 cm, Weight, empty: 3,1 kg*

■ Ref.no. R11500

#### Additional options:

AED trainer HS1 (German only)

■ Ref.no. R11501

AED trainer 2

■ Ref.no. R11502

#### Intubation set

Consists of: Laryngoscope handle, 4 different laryngoscope blades, Magill forceps adult and child, 7 different endotracheal tubes, intubation mandrin adult and child.

■ Ref.no. R11551

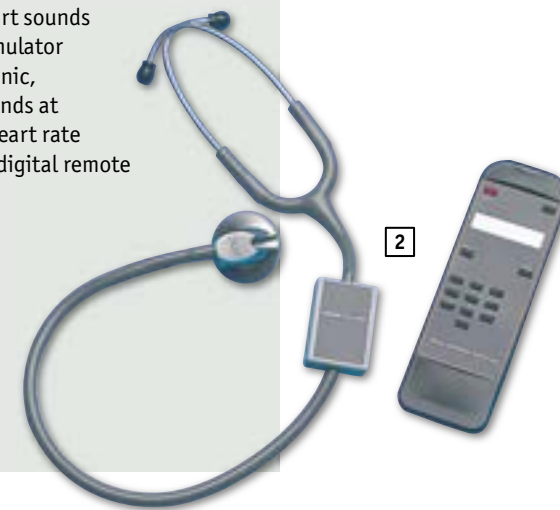


### 1 Auscultation simulator

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



### 4 Auscultation upgrade kit for GERI/KERI manikin

Geri/Keri manikins can be found on [page 164/165](#). 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.

■ For GERI Ref.no. R10032

■ For KERI Ref.no. R10033



### 3 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







## 1 SAM II

SAM II, the Student Auscultation Manikin is a new innovation in teaching and learning heart, lung, and bowel sounds. Containing one of the largest sound libraries available, SAM II is a portable and easy to use manikin. While SAM II is used in many simulation centers, it is also easily moved into a classroom or auditorium for group instruction.

SAM II's computer software interface is easily projected into any smart classroom. The software includes phonocardiograms, correct anatomical locations, and written lessons for each sound.

With programmable and password-protected lectures, many institutions find value in having numerous instructors utilize SAM II.

- 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
- Ref.No. R60000



## 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



**NEW!**

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

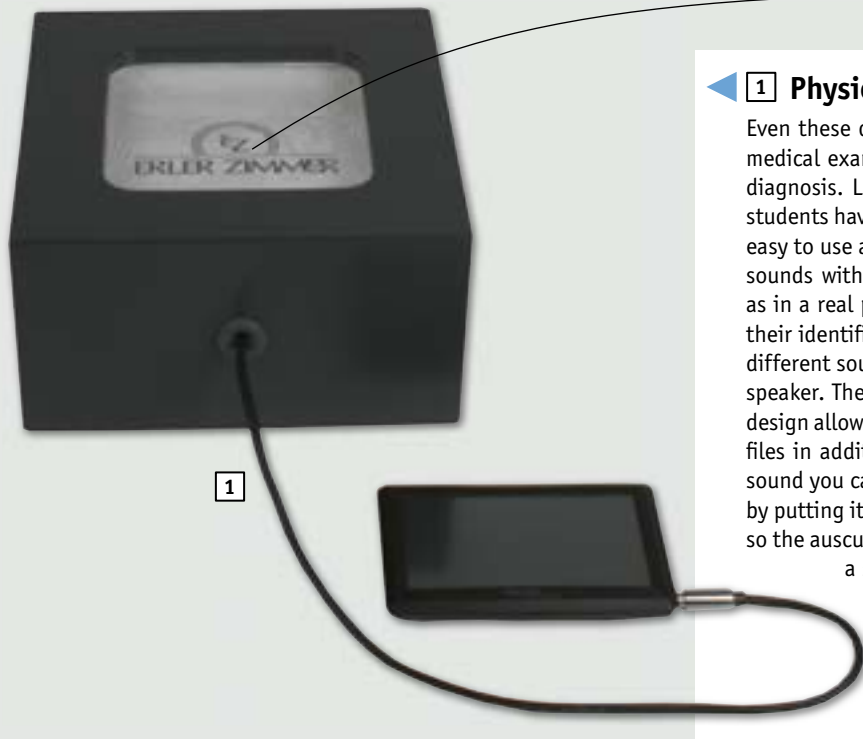


### 4 Child heart and lung sounds auscultation trainer

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

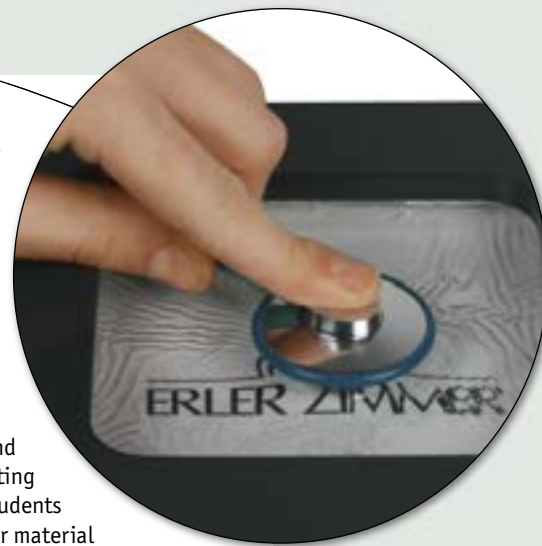




## 1 Physiological auscultation trainer

Even these days auscultation of heart and lung sounds are an essential part of every medical examination. Auscultation results are often the initial indication for further diagnosis. Learning auscultation is still one of the most challenging tasks medical students have to master. With the physiological auscultation trainer we developed an easy to use and realistic product that allows auscultation of heart-, lung- and bowel sounds with a real stethoscope like in a real patient with the same sound quality as in a real patient. The trainer generates heart, lung and bowel sounds and allows their identification by the student. It uses a MP3 player with real human sounds. The different sounds can be chosen on the MP3 player and are generated by a high quality speaker. The system is supplied with 30 pre-installed sound files, but the open system design allows the use of your own sound files. This allows the teacher to use his own sound files in addition to the pre-installed sounds. If there is a patient with a very interesting sound you can use an electronic stethoscope to record it and make it available to all students by putting it on the auscultation trainer. The gel pad is made of special elastical polymer material so the auscultation surface has tissue – equivalent characteristics. For auscultation of low frequencies a small contact pressure will be enough, higher contact pressure will allow auscultation of higher frequencies.

**Supplied with:**  
*auscultation trainer with connection cable,  
 MP3-Player, Sound files (pre-installed)*



### Supplied sound files:

- Lung Sounds
- bronchial breathing
- bronchovesicular
- coarse crackles 1
- fine crackles 1
- fine crackles 2
- crackles - late Inspiratory
- diminished vesicular
- ronki 1
- ronki 2
- stridor
- inspiratory stridor 1
- inspiratory stridor 2
- vesicular
- wheezing expiratory 1
- wheezing expiratory 2
- wheezing expiratory 3
- wheezing monophon
- wheezing polyphon
- deep respiration
- coughing 1
- coughing 2
- Heart Sounds
- aortic stenosis
- mitral insufficiency
- pulmonary valve stenosis

- + Bonus CD „Cardiac Auscultation“ by Littman for use with a PC
- Bowel Sounds
- loud, gurgling rushed sounds
- peristaltic snarling
- peristaltic gurgling
- low growl
- gurgling
- loud howl

**Size: 19 x 19 x 11 cm, Weight: 1.9 kg**

■ Ref.No. PAC



### 1 Littmann Classic II S.E. Stethoscope

Up-to-date technology in classic design. The top-selling stethoscope in the world. Features a patented tunable diaphragm on one side, augmenting the traditional bell function of the opposite side. The patented tunable diaphragm alternates between bell and diaphragm modes with a simple pressure change on the chestpiece. Also features: single-lumen tubing, patented Snap Tight soft-sealing eartips; comfortably angled anatomically correct headset and patient-friendly nonchill rim and diaphragm.

Traditional bell combined with a tunable diaphragm that allows the user to conveniently alternate between low and high-frequency sounds without turning over the chestpiece.

- Single-lumen tubing
- Patient-friendly, nonchill rim and diaphragm.
- Excellent acoustic seal and comfortable fit with patented Snap Tight Soft-Sealing Eartips.
- Comfortably angled, anatomically correct headset.
- Three-year warranty.
- Latex free

#### Scope of application

Is used as tool for physical examination of the patient. Also perfect for use with the physiological auscultation trainer.

- Ref.no. L2201



### 2 Littmann Electronic Stethoscope

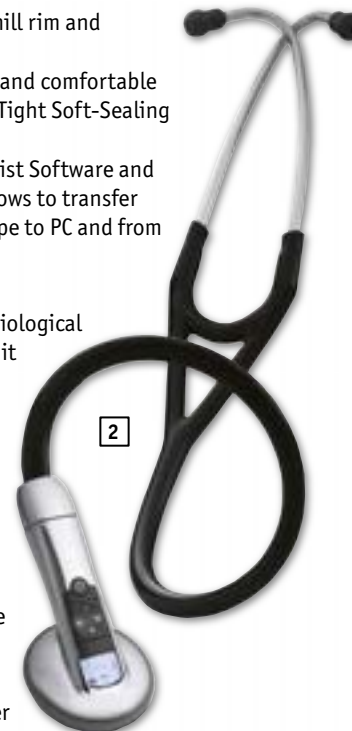
This Stethoscope defines new standards. We think this stethoscope is the best one available in the market. **The following features make this model the right choice:**

- Advanced noise reduction technology reduces 85% of disturbing ambient noise.
- Amplification of sound up to 24 times, this allows auscultation of obese patients as well as auscultation through clothes in case of emergency.
- The stethoscope can record up to 12 sounds with a length of 30 seconds each. These recordings can be used for documentation, for consultation of colleagues, for education or for patient communication.
- Recorded sounds can be modified in speed and sound characteristics for diagnostic purposes.
- Comfortable and surprising light weighted like normal stethoscopes.
- First class sound quality
- 2 years warranty
- Patient-friendly, nonchill rim and diaphragm.
- Excellent acoustic seal and comfortable fit with patented Snap Tight Soft-Sealing Eartips.
- Supplied with StethAssist Software and Bluetooth-receiver, allows to transfer sounds from stethoscope to PC and from PC to stethoscope.

We recommend to use this stethoscope with the Physiological Auscultation Trainer since it allows to record sounds of real patients and to store them for education purposes. Additionally recorded sounds can be sent wireless to the stethoscope, so the tutor can for example play back a pathological sound while a student is examining a simulated patient.

Standard color black, other colors available on request.

- Ref.no. L3200



### 3 Littmann Classic III Stethoscope

The Littmann Classic III Stethoscope updates the proven Classic design that's known and trusted by millions of medical professionals. It comes with a new design, new materials and new technology.

#### Product features:

- It offers high acoustic sensitivity for excellent performance when doing general physical assessment.
- Two-sided chestpiece allows option to cover the small-side open bell with second tunable diaphragm.
- Single-piece tunable diaphragm is easy to apply and easier to clean because its surface is smooth without crevices.
- Next-generation tubing provides longer life due to improved resistance to skin oils and alcohol; less likely to pick up stains.
- Small side (when open bell is covered) is useful for paediatric, small, or thin patients; around bandages; and for carotid assessment.

Das Classic III Stethoskop features what is important for medical professionals: quality, performance and best possible care. For every patient. Every day.

- Ref.no. L5620



## 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



1



### 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



2

### 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

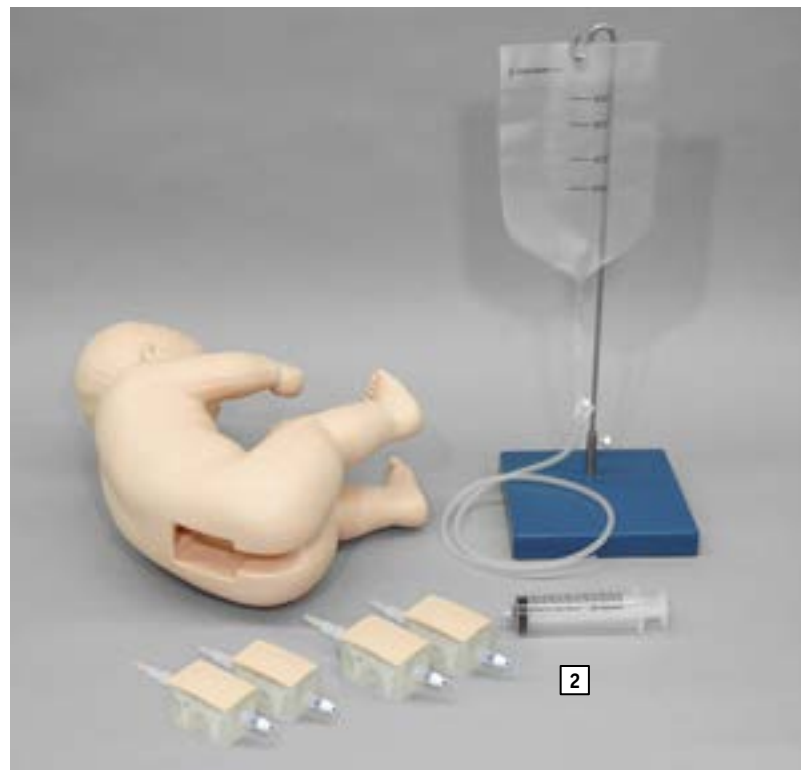




### 1 Baby stap

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



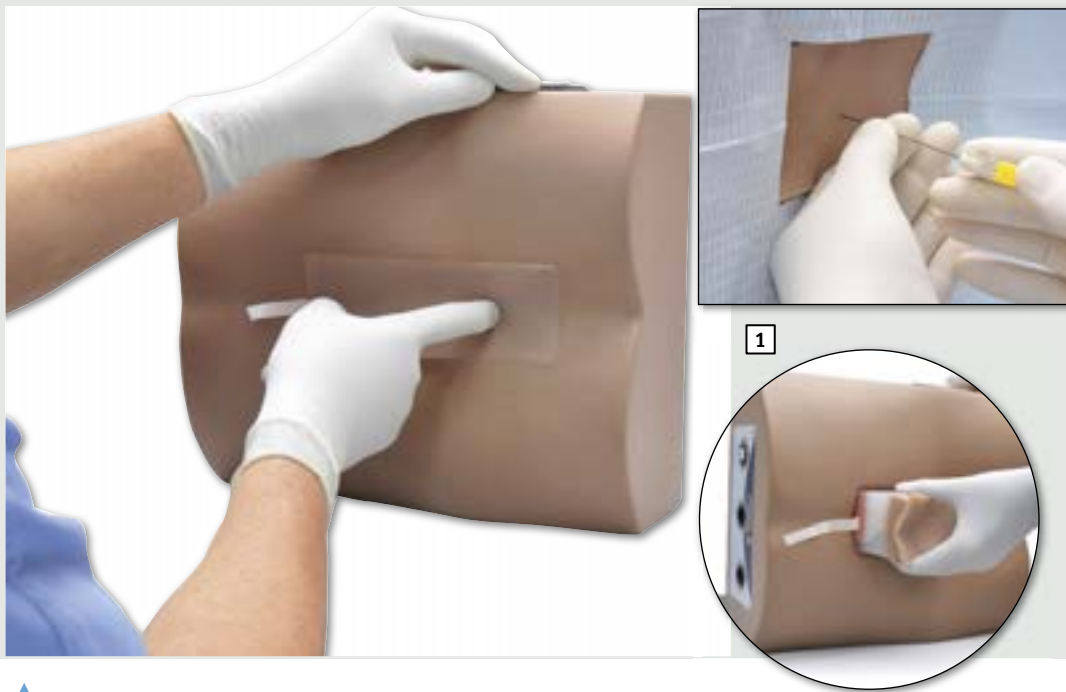
### 2 Paediatric lumbar puncture simulator

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





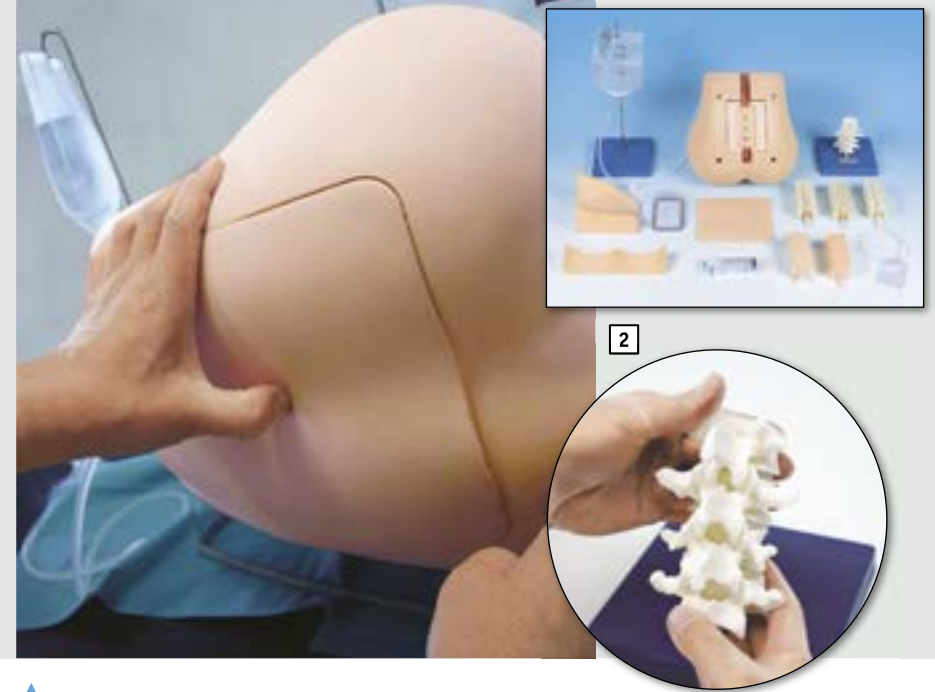
### 1 Lumbar puncture trainer

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

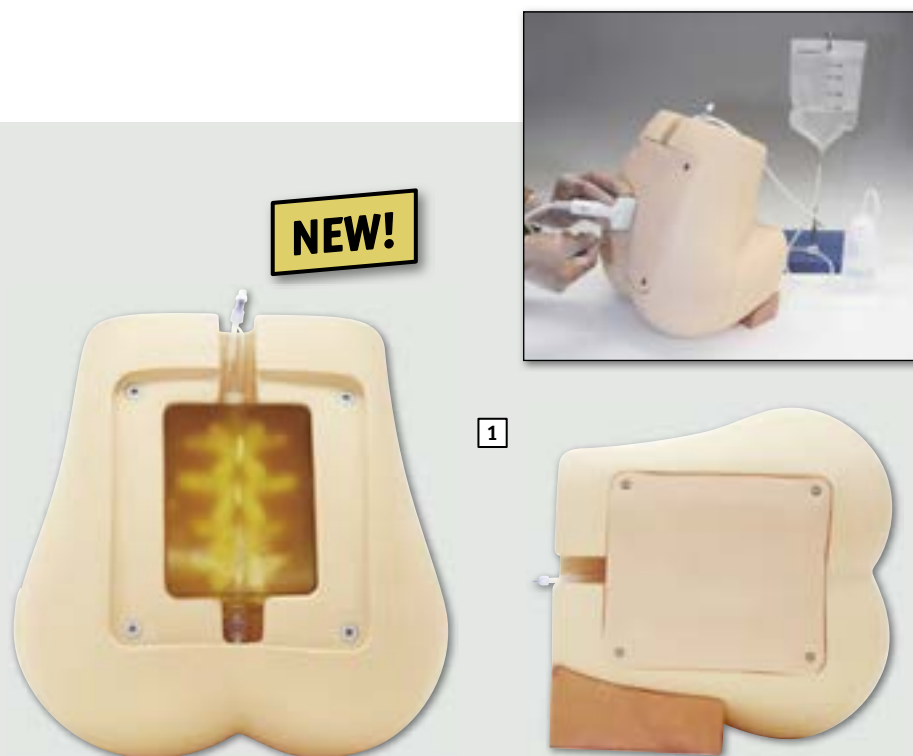
Ultrasound compatible puncture block is anatomically correct and offers realistic image of ultrasound. It includes lumbar vertebrae, spinous process, superior articular process, transverse process, epidural space and spinal dura mater.

### 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



## 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

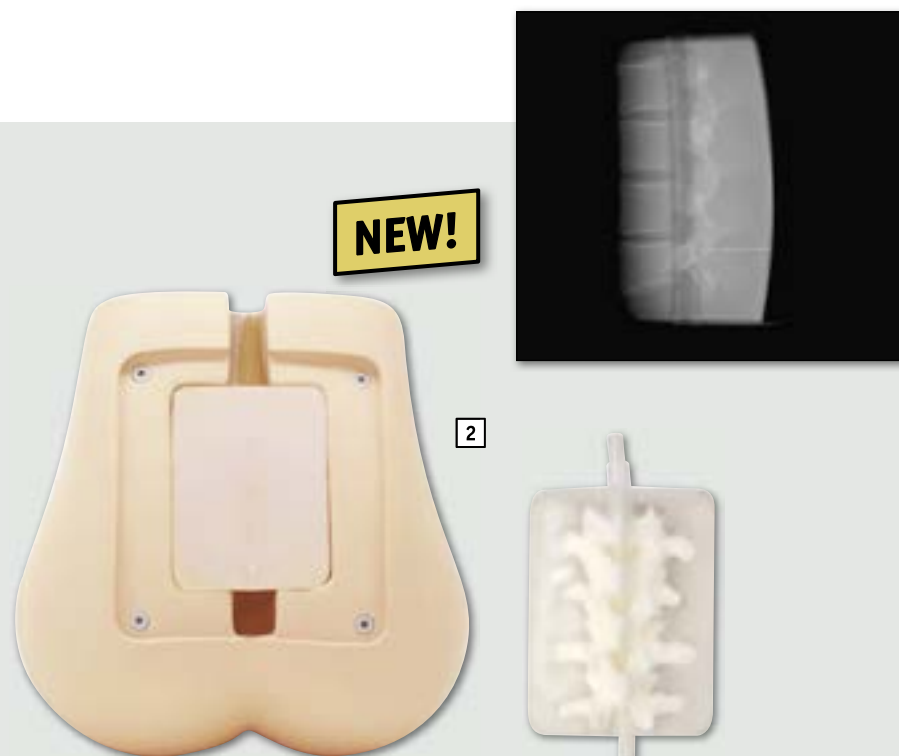
### Training Skills

- 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







▲  
**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 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

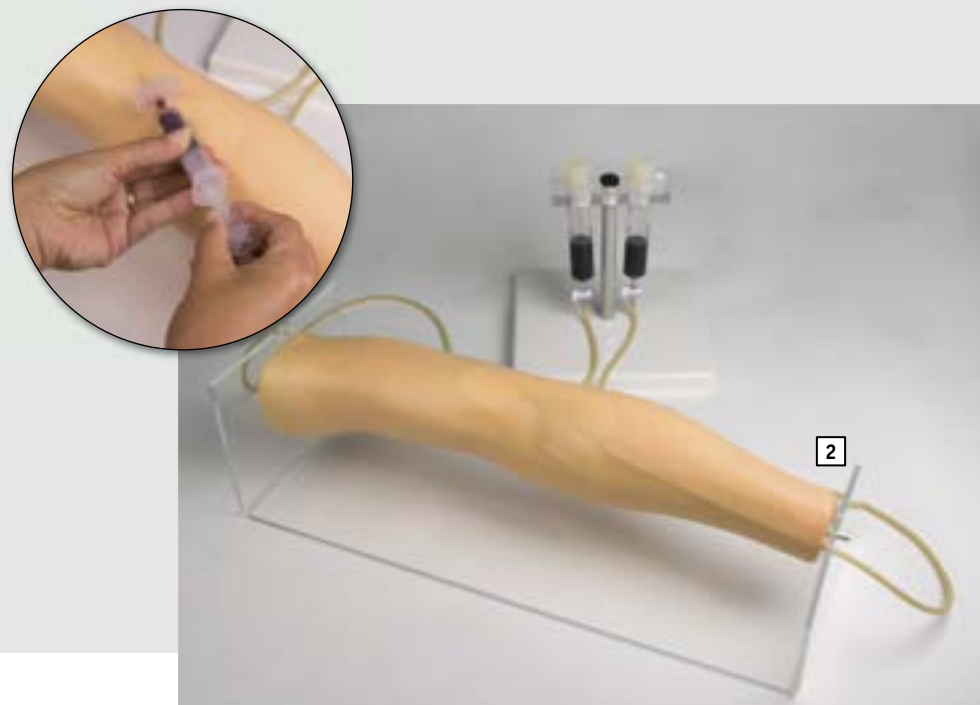
■ Ref.no. 7012

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

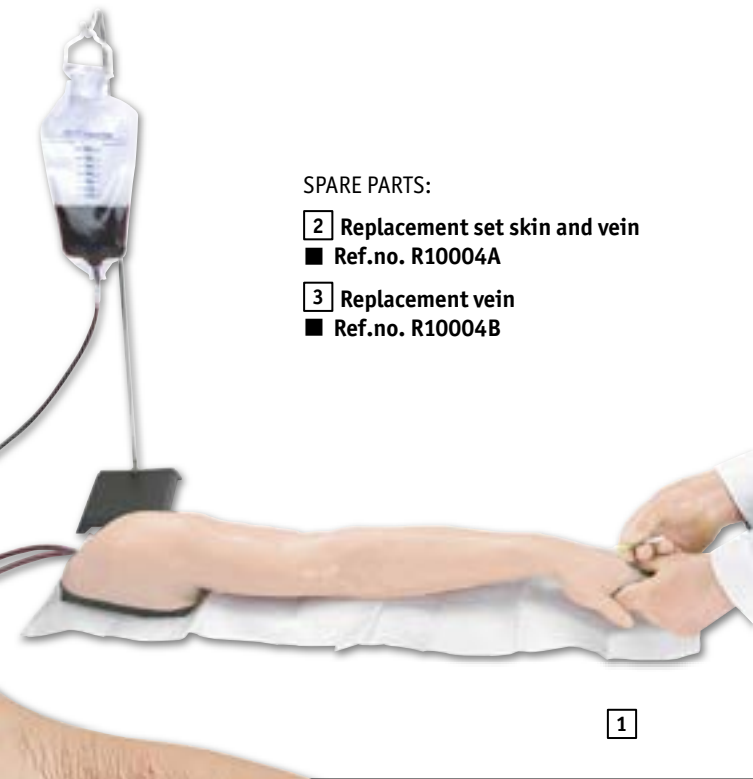
■ Ref.no. 7022

10 Injection pad

■ Ref.no. 7023

6 Blood-colored fluid, 250ml

■ Ref.no. 7024



SPARE PARTS:

**2** Replacement set skin and vein

■ Ref.no. R10004A

**3** Replacement vein

■ Ref.no. R10004B

### **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



### **4** 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:

**5** Replacement set skin and vein

■ Ref.no. R10017A

**6** Replacement vein

■ Ref.no. R10017B







1



### 1 Fleximodel i.v. and arterial puncture arm

This newly-developed model of the human arm offers a significantly higher degree of realism in terms of appearance, feel and particularly puncture resistance in comparison to conventional models. The vein system is modelled in three-dimensional form and can be punctured at any chosen place. Both the veins and the skin possess self-closing characteristics. In the event of faulty or very frequent puncturing at a single site, a haematoma will occur that generally disappears once the blood has dried. In contrast to most other training arms, soft tissue and bony structures are realistically modelled and can be felt by touch.

The arm is suitable for several hundred punctures, depending on the size of needle, puncture technique, deployment of various puncture sites and care in handling. The especially developed synthetic blood closes the veins after they have been punctured, meaning they are considerably more durable than in conventional training models. The arm is maintenance-free and is replaced after intensive use, doing away with the need for upkeep. The costs of this arm are comparable to the replacement costs of skin and veins of a classic arm plus labour cost.

Further highlights comprise the possibilities for simulation of the radial pulse and extremely realistic insertion of arterial accesses, also in the Seldinger technique.

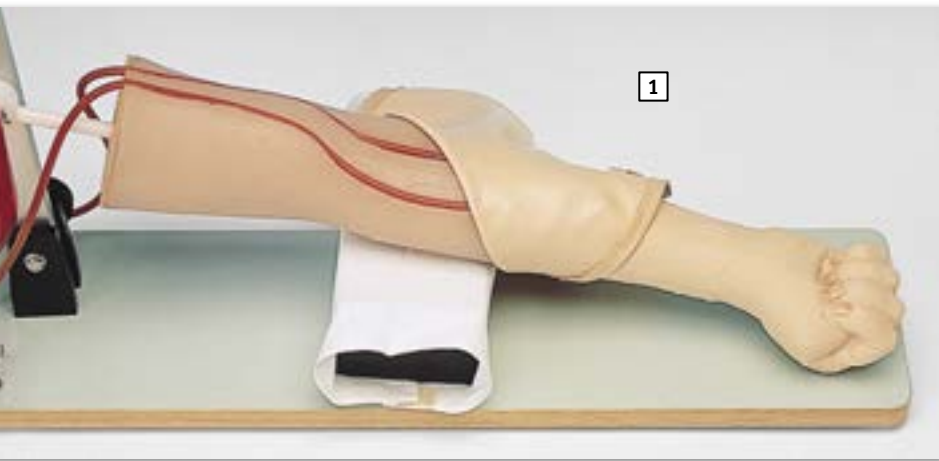
#### Fleximodel arm

■ Ref.no. 7000

Fleximodel synthetic blood with leak-closing and disinfectant properties, 500ml

■ Ref. no. 7000A





1

### 1 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. LM 28

Spare parts:

3 Spare part set complete

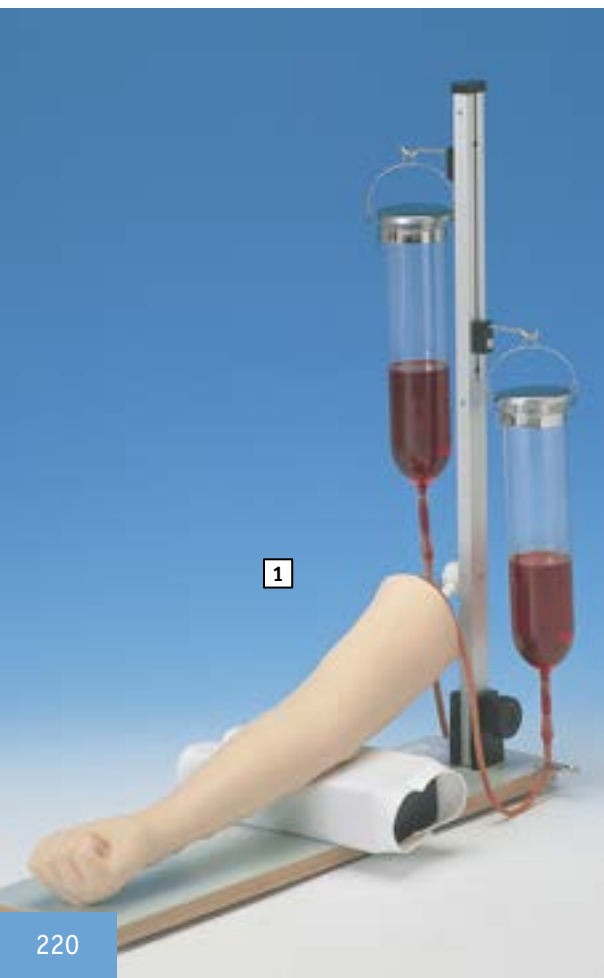
■ Ref.no. LM28A

4 Replacement vein (10 pcs)

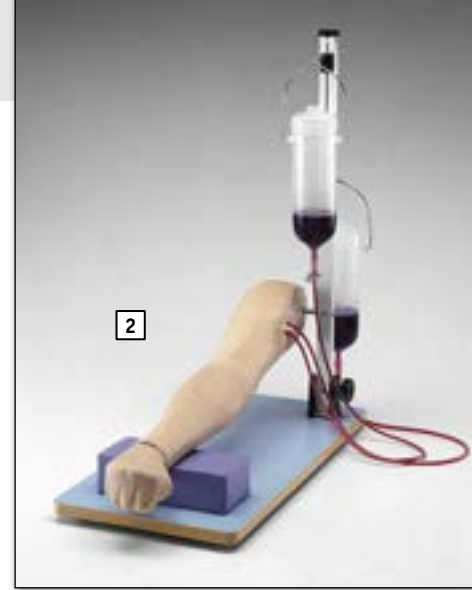
■ Ref.no. LM28C

5 Replacement skin

■ Ref.no. LM28S



1



2

### 2 Universal-injection training arm

This model offers training of 4 injection techniques in one model. Intra venous injection in the antecubital fossa, opisthenar injection and intramuscular injection can be practised as well as subcutaneous injection. The injection in the antecubital fossa is extremely realistic since the veins are embedded in a special silicone gel for a true to life feeling. For intramuscular and subcutaneous injections the model has internal structures like bones to help finding the correct injection site. The subcutaneous injection is lifelike and injection can be practiced with fluid like all other techniques. The model can be moved in the elbow to bring it in a different injection position. With storage case.

■ Ref.no. LM74

Spare parts:

6 Replacement skin upper arm

■ Ref.no. LM741

7 Replacement skin lower arm

■ Ref.no. LM742

8 Replacement skin hand

■ Ref.no. LM743

9 Injection site i.v.

■ Ref.no. LM744



2

10 i.m.-injection site gel pad

■ Ref.no. LM745

11 i.m.-injection site sponge

■ Ref.no. LM746

12 Subcutaneous injection site surface

■ Ref.no. LM747

13 Subcutaneous injection site sponge

■ Ref.no. LM748



## 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



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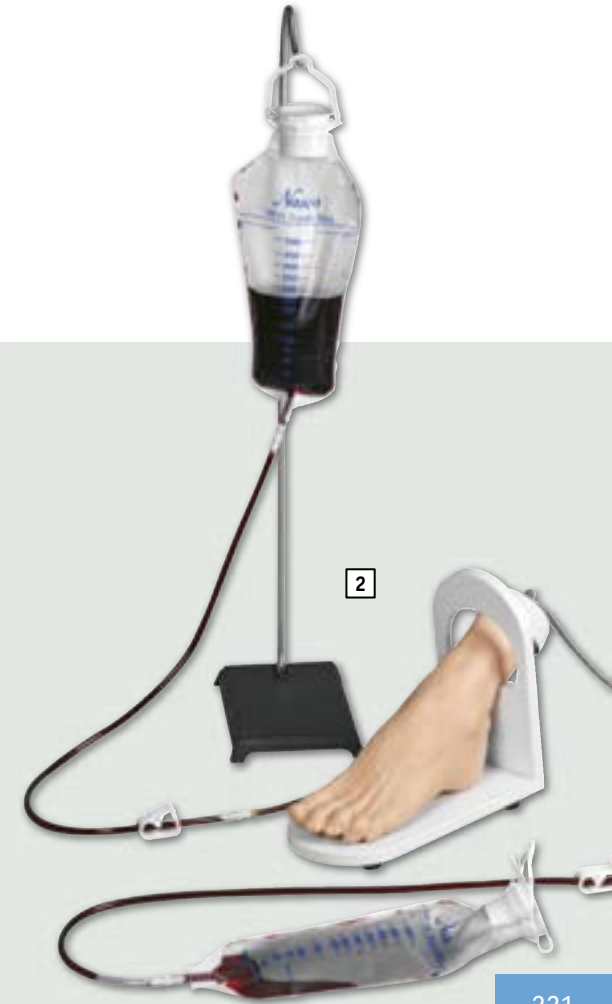


2

## 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



2



## 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

## 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



2

## 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

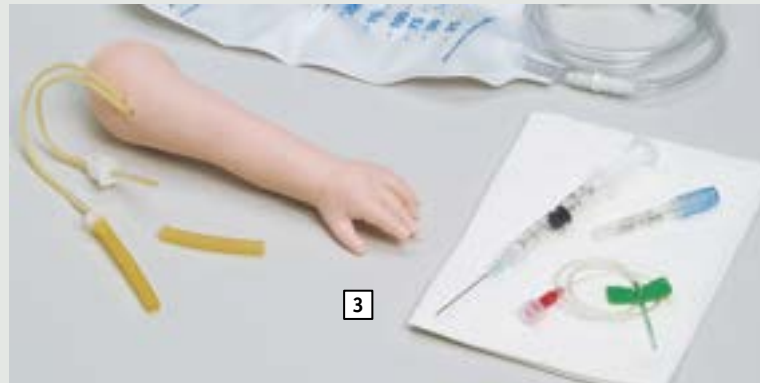
SPARE PARTS:

**Replacement skin and vein**

- Ref.no. R10007A

**Replacement vein**

- Ref.no. R10007B



3

## 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

## 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.

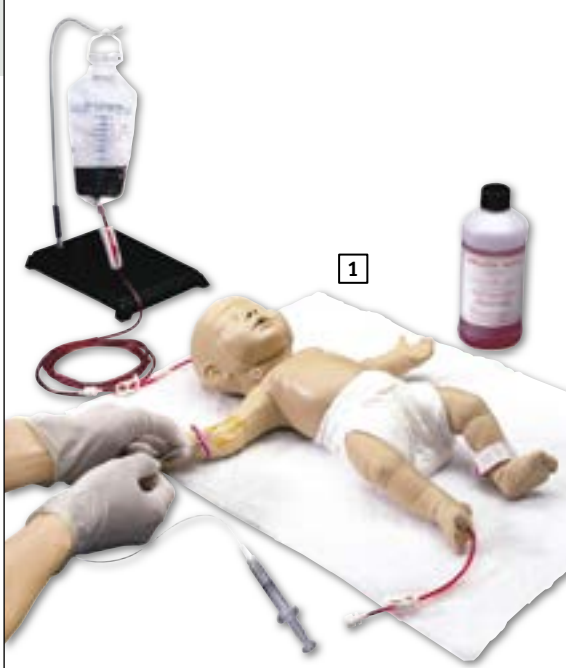
**Size** 20.5 x 12.7 x 12.7 cm

- Ref.no. R10171

CONSUMABLES:

**Replacement skin and vein**

- Ref.no. R10171A



**NEW!**

## 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

## 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

## 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







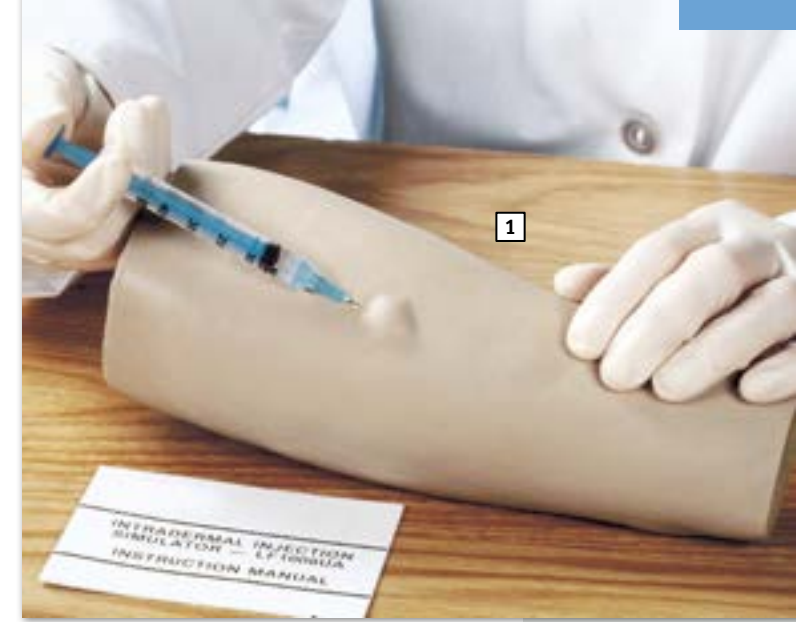
1

### 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



1



2

### 2 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

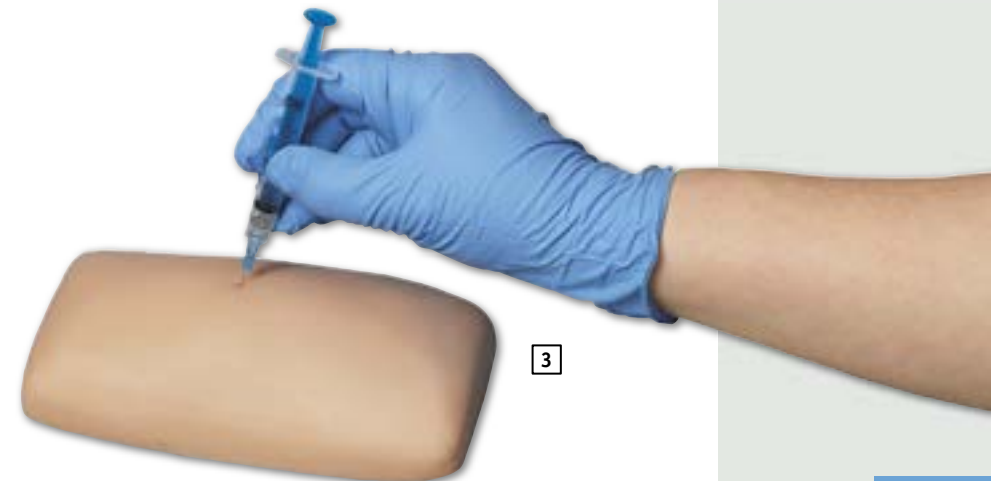


### 3 Training model for intradermal, subcutaneous and intramuscular injection

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



1



### 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.

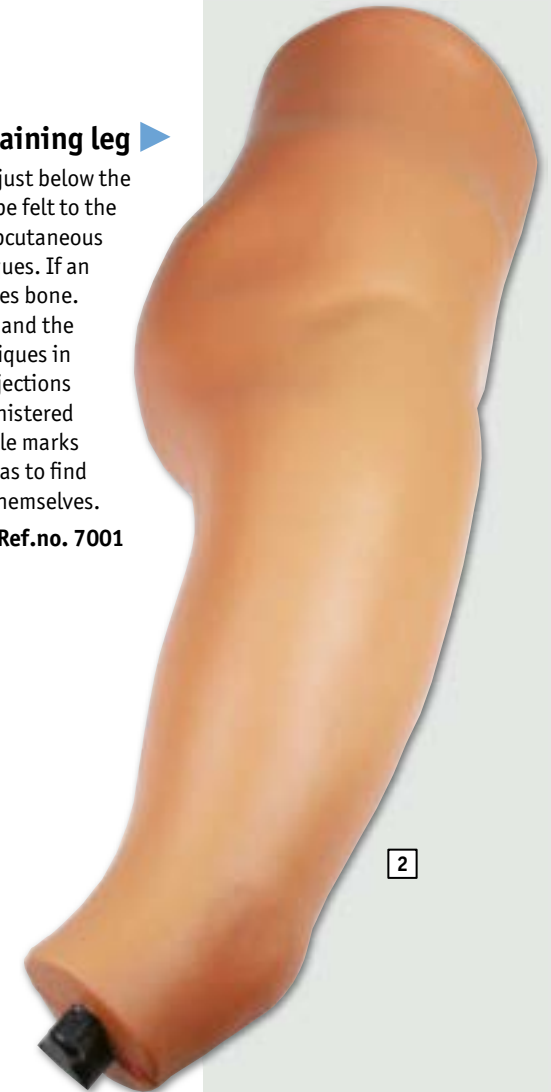
■ Ref.no. R10076

### 2 Fleximodel IM training leg

This female leg is a representation from the hip to just below the knee and enables muscular and bony structures to be felt to the touch in a realistic way. The model is suitable for subcutaneous and intramuscular injections in all usual techniques. If an injection is made too deeply, the needle touches bone.

Other bony structures, such as the iliac crest and the trochanter, can be used to practise injection techniques in an anatomically correct manner. Several hundred injections using real fluid and even real drugs can be administered without affecting the appearance of the model. Needle marks do not remain visible, meaning that each student has to find the correct injection site for themselves.

■ Ref.no. 7001



2

### 3 Simulator for i.m. injection and punch biopsy of the iliac crest

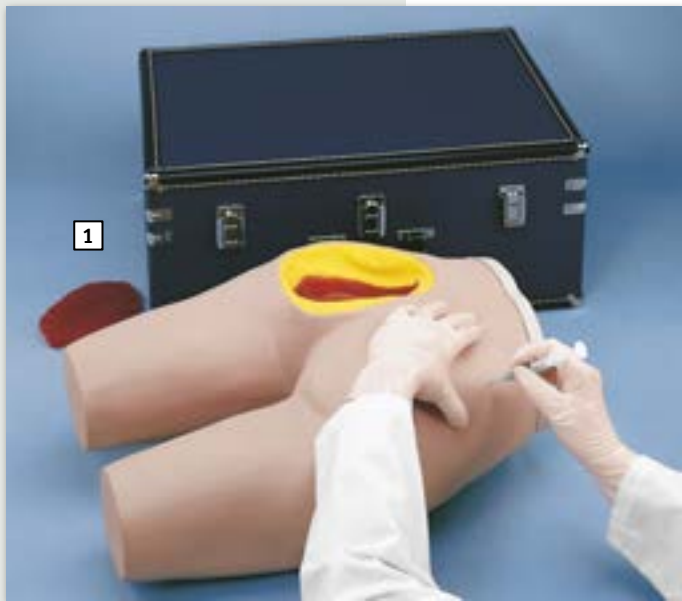
Training model for training of the i.m. puncture procedure as well as for the procedure of iliac crest puncture. The model includes an artificial pelvis made of material similar to human bone which can be punctured repeatedly. Fluid aspiration is not possible. Used as i.m. model, the pelvis can be palpated to identify the correct injection position. The model is designed to be an economic disposable training aid and need to be replaced after intensive use. Life size.

■ Ref.no. 7090



3





### 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



1



### 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 hip anatomy / i.m. injection technique

This model offers two functions in one model: on the right side it shows the anatomy of the pelvis 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 buzzer sound.

**Size:** 38 x 35 x 22 cm, **Weight:** 5 kg

■ Ref.no. R16606



### 2 Injection trainer, fit-on version, Hochstätter method

This training model can be used to fit on a simulated patient or a nursing doll. It has all bony landmarks to find the correct injection point. If the correct injection point is found, a green light will indicate this. Wrong puncture is indicated by a red light. Fluid can be injected into the model. Supplied with storage case.

**Size:** 46 x 16 x 26 cm, **Weight:** 1.2 kg

■ Ref.no. R16612



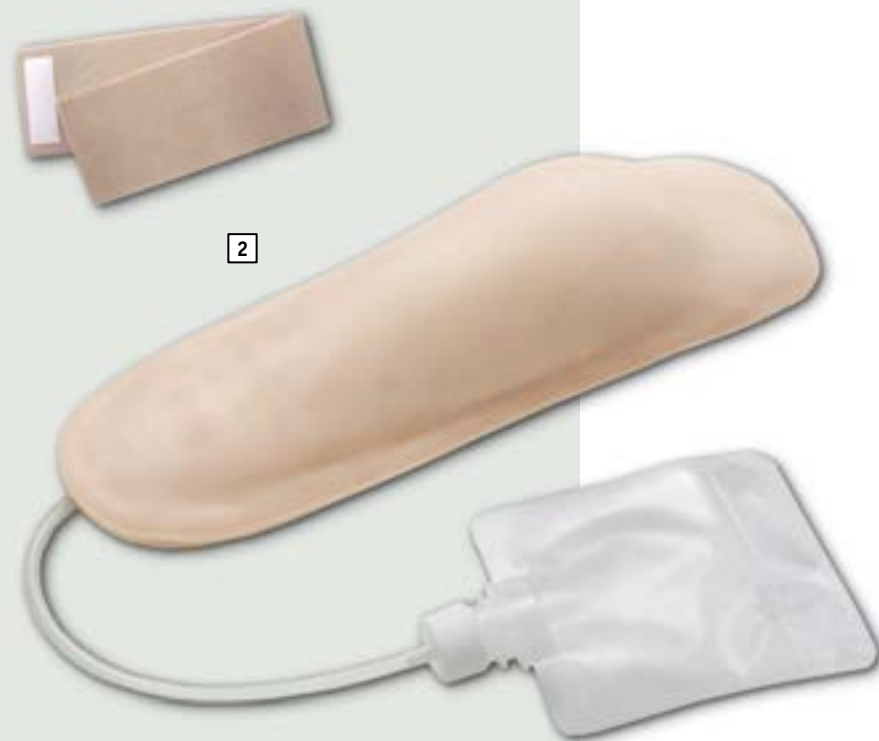


### 1 Model of shoulder and arm anatomy / i.m. injection technique

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



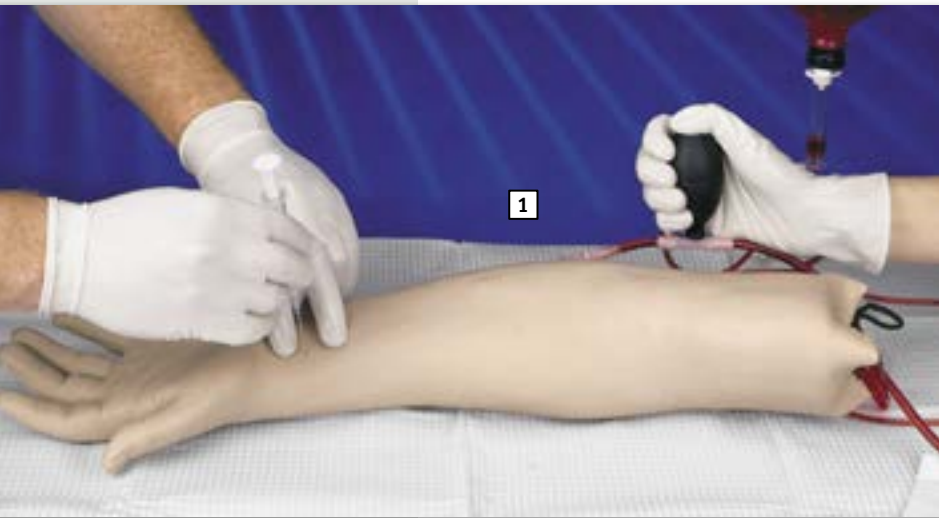
### 2 I.m. injection trainer upper arm, fit-on type

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**

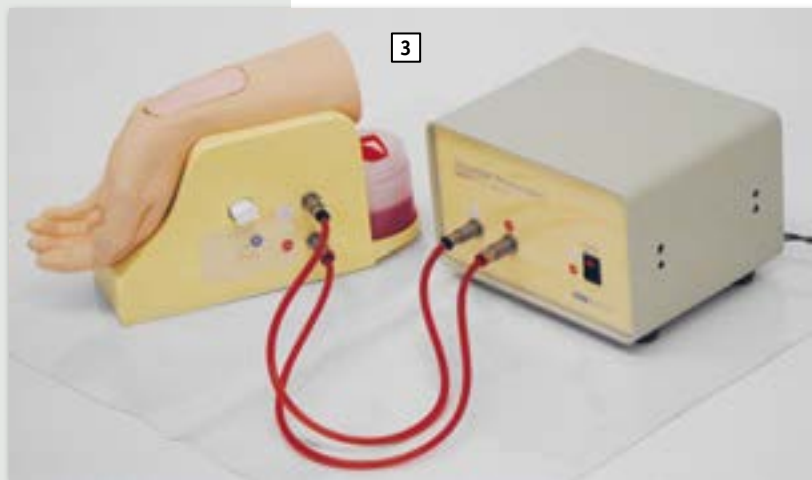
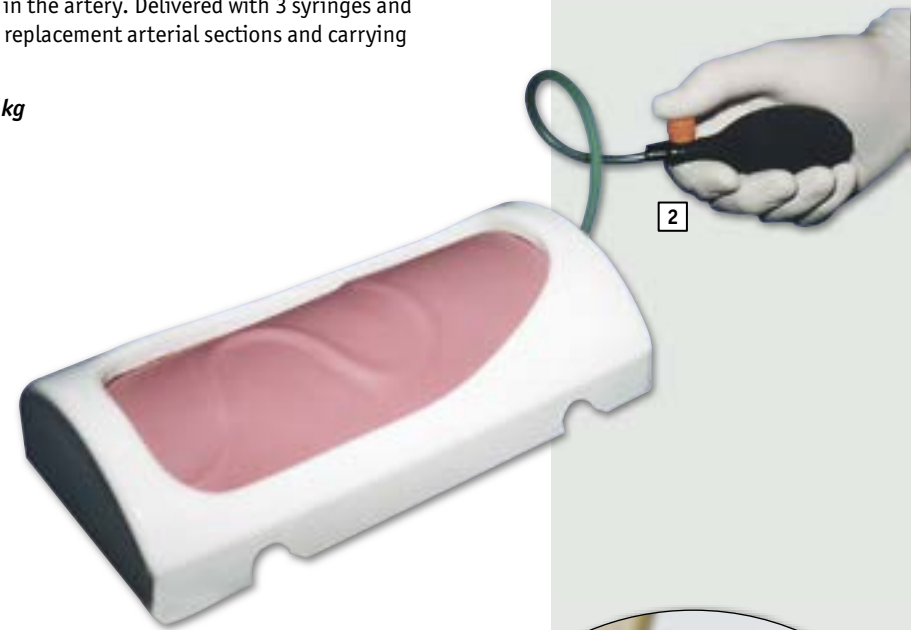
**Replacement artery**

■ **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**



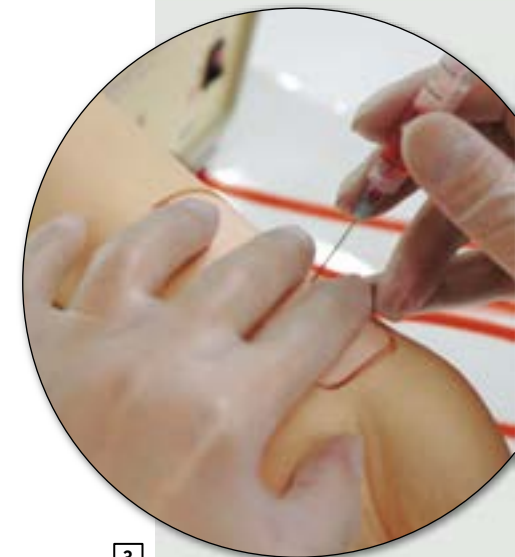
### 3 Arterial puncture wrist

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.

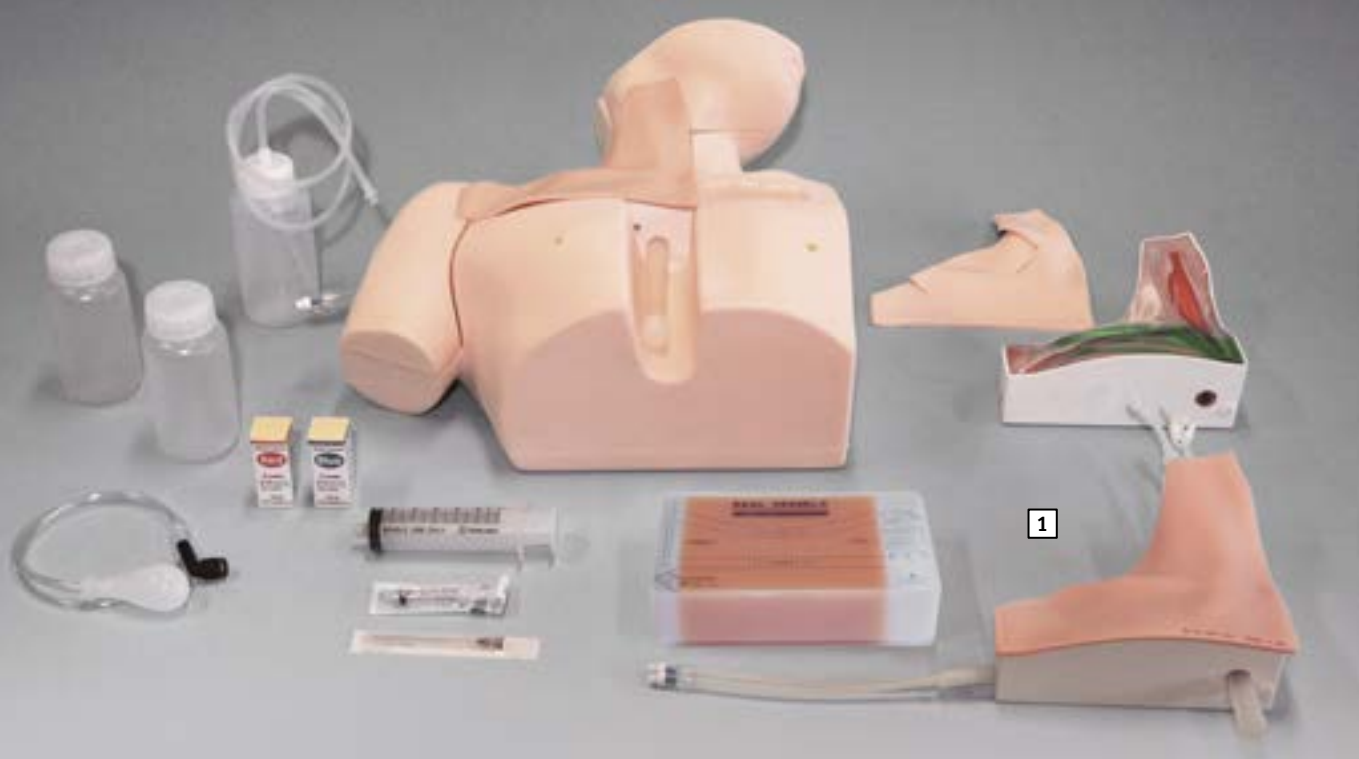
- Arterial pulsation is palpable.
- Realistic resistance of tissue and artery wall felt with the injection needle.
- Natural flashback of artificial blood into the needle can be observed.
- Puncture skin, pad and artery tube are replaceable.
- No puncture trace of the injection needle remains on the injection site.
- One-touch, leak free connections.
- Easy clean up.

Supplied with pulsatile pump and 4 arteries.

■ **Ref.no. R16650**







## 1 Central venous 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

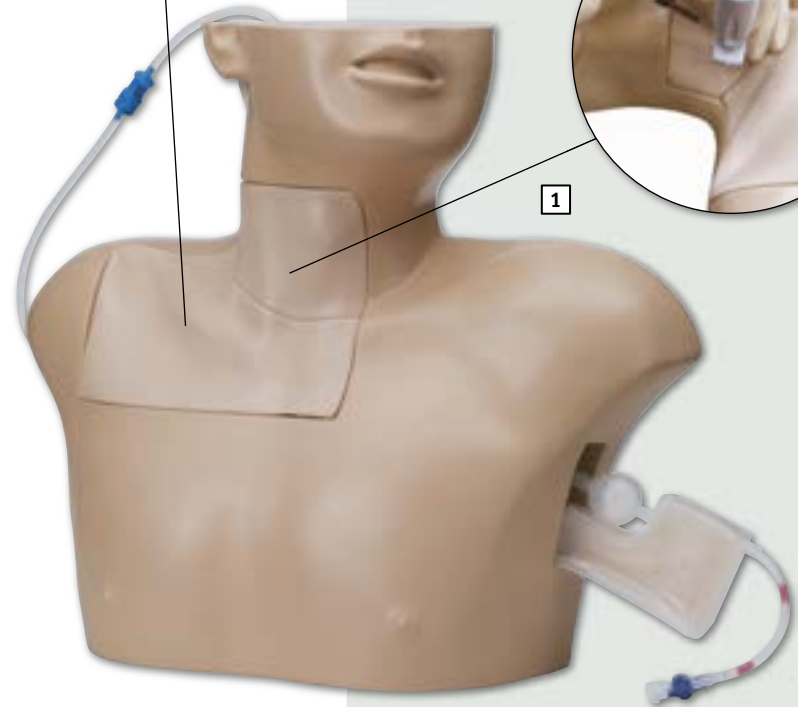
### Complications indications:

- Artery puncture
- Pneumothorax
- Mislodging/malposition
- Ref.No. R16051





1



1

**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.

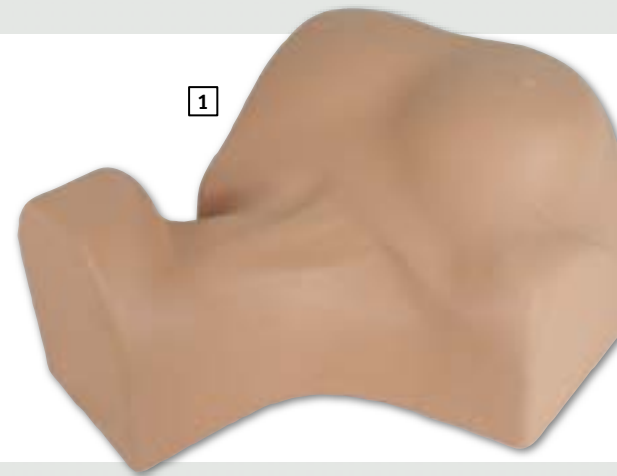
■ Ref.no. LM90

## 1 Fleximodel central venous puncture and catheterization trainer

This female thorax is an extremely realistic anatomical representation developed for training the placement of central venous lines on the right hand side of the body. The complete range of possible injection sites are provided for in the subclavian, jugular and brachiocephalic veins. The model can also be used to train how to set up a sterile field, make a placement with aspiration of synthetic blood and completely apply the Seldinger technique.

Even following dilation and insertion of a multilumen catheter, which is naturally aspirable in all luminae, the model will not show any significant effects, meaning students cannot fall back on a previous injection mark but have to orient themselves to the anatomy to find the correct injection site. A manual pulse can be generated for ease of orientation in jugular vein insertion. The model also offers manually operated respiration, whereby incorrect placement can perforate the lung, resulting in audible pneumothorax. This should be avoided, however, as the lung puncture points do not close again. Ultrasound-guided placement is not possible.

■ Ref.no. 7003



1



## 2 Central venous catheterisation simulator

This unique CVC training simulator works with ultrasound in response to the N.I.C.E. Guidelines (Report No.49).

### Key features are

- Anatomical landmarks can be identified: e.g. clavicle, sternocleidomastoid muscle and internal carotid artery which are palpable. Includes a manual pulse.
- Skin is made of soft realistic tissue that can absorb 150 full CVC insertions without showing the last user
- Arteries and veins are clearly visible with ultrasound
- Veins collapse when pressure from the ultrasound transducer/probe is applied, arteries do not.
- Needle tip is clearly visualised with ultrasound in correct position
- Pressurised blood flow presents with a realistic flashback on entry to vessel
- The CVC trainer has a self-contained reservoir and vessel system therefore no need for gravity bags or pumps
- Internal jugular (IJV) and sub-clavian (SV) approaches can be made
- Palpable carotid pulse can be manually simulated

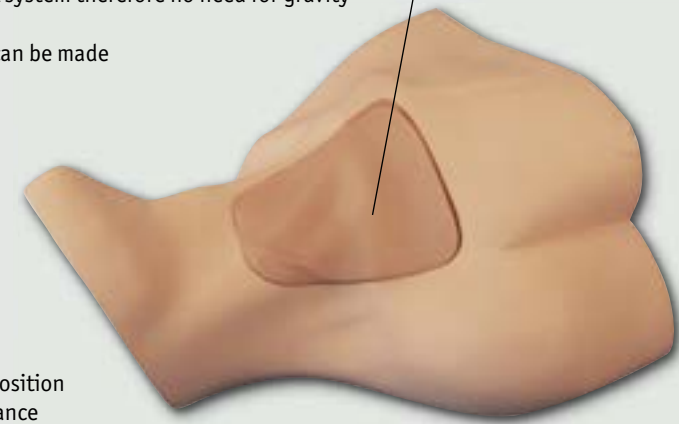
### Key Skills

- Can practise safely needle insertion of introducer, guidewire (Seldinger technique), dilator and central line into internal jugular vein or subclavian vein and supra clavicular approach
- Trainees can identify IJV and SV blood vessels with ultrasound probe and practise correct needle insertion
- Full central line insertion can be undertaken
- Use of ultrasound probe: depth, gains and approach
- Practice hand-eye coordination with probe and needle position
- CVC trainer can be used with or without ultrasound guidance

■ Ref.no. R10600



2







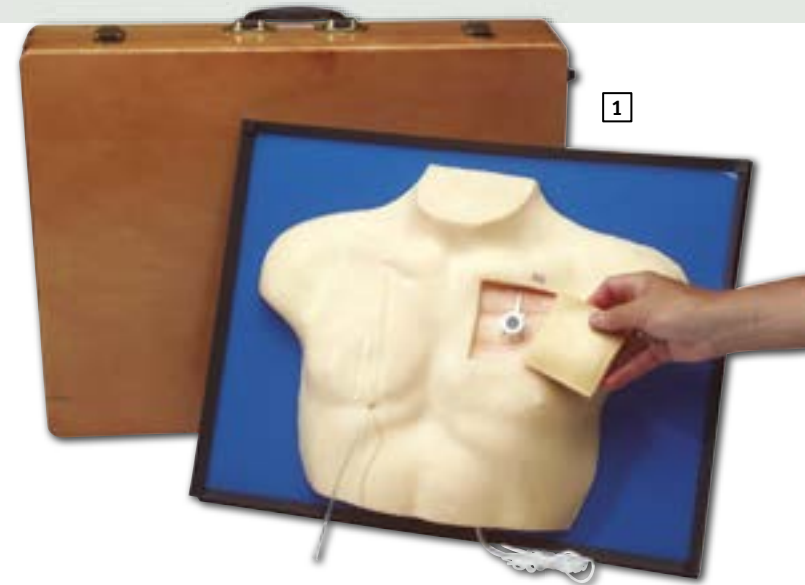
### 1 Venous-access device model

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**



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**



### 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 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.

■ Ref.no. R18803

AVAILABLE SPARE PARTS:

### 2 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)

### 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 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)

### 4 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)

### 5 Outer tissue flap replacement

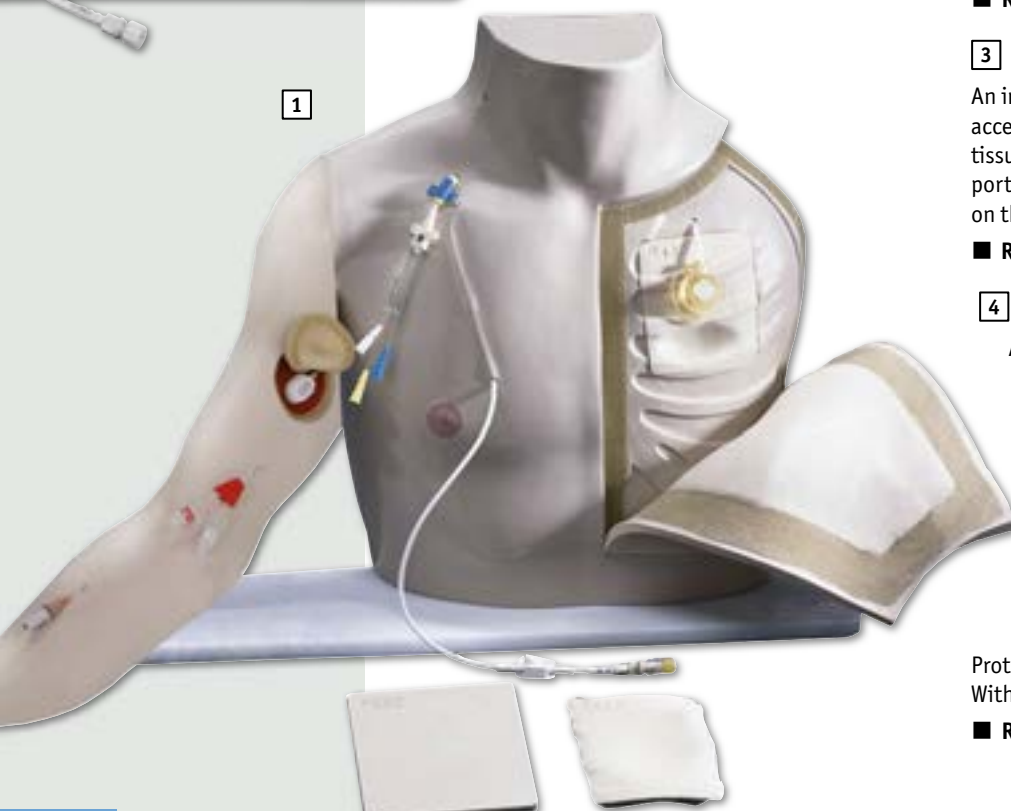
■ Ref.no. R18803D (not pictured)

AVAILABLE OPTIONS:

### 6 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 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



## 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 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 Truman Trauma

The Truman Trauma was designed for teaching medical professionals the necessary skills for dealing with a range of life threatening trauma situations.

The Truman Trauma System offers an anatomically correct simulated human torso designed for trainees to practice several surgical procedures together with the renowned AirSim™ head for training the full range of airway management and resuscitation skills. The Truman Trauma System also allows the use of replaceable tissue sets that allow each learner a life-like and unique surgical experience.

### The following skills can be developed:

- Chest tube insertion; recognition of correct position, surgical incision, blunt dissection through chest wall, perforation of pleura, and finger sweep
- Needle decompression of tension pneumothorax
- Cardio Pulmonary Resuscitation (CPR)
- Needle and surgical cricothyroidotomy
- Airway Management skills including OP and NP airway tube insertion, tracheal intubation, bag valve mask techniques, supraglottic airway insertion and ventilation
- Percutaneous tracheostomy
- Identification of tracheal deviation and jugular vein distension which are warning signs attributed to tension pneumothorax

Supplied with carry bag.

■ Ref.no. R18900



### 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

### 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



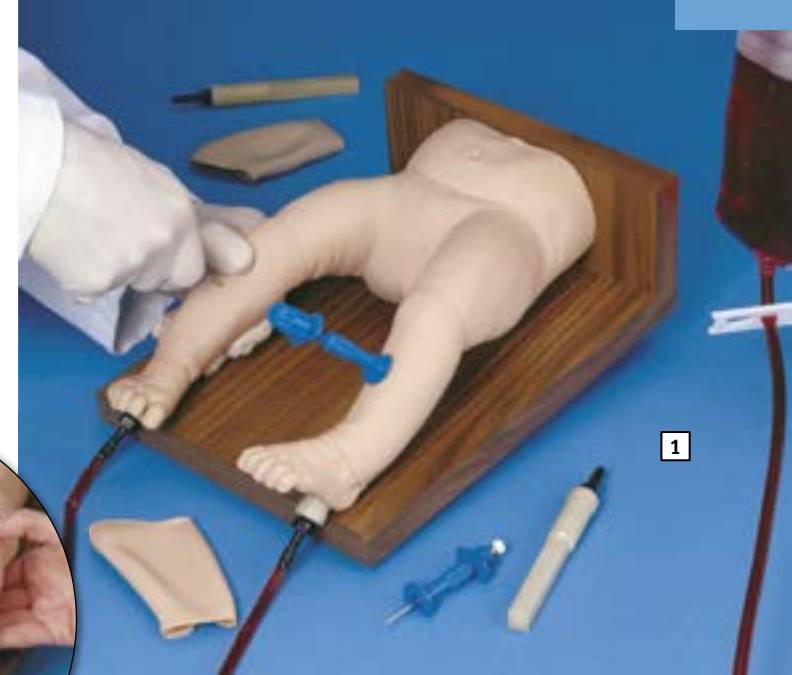




### 1 Intraosseous infusion trainer

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



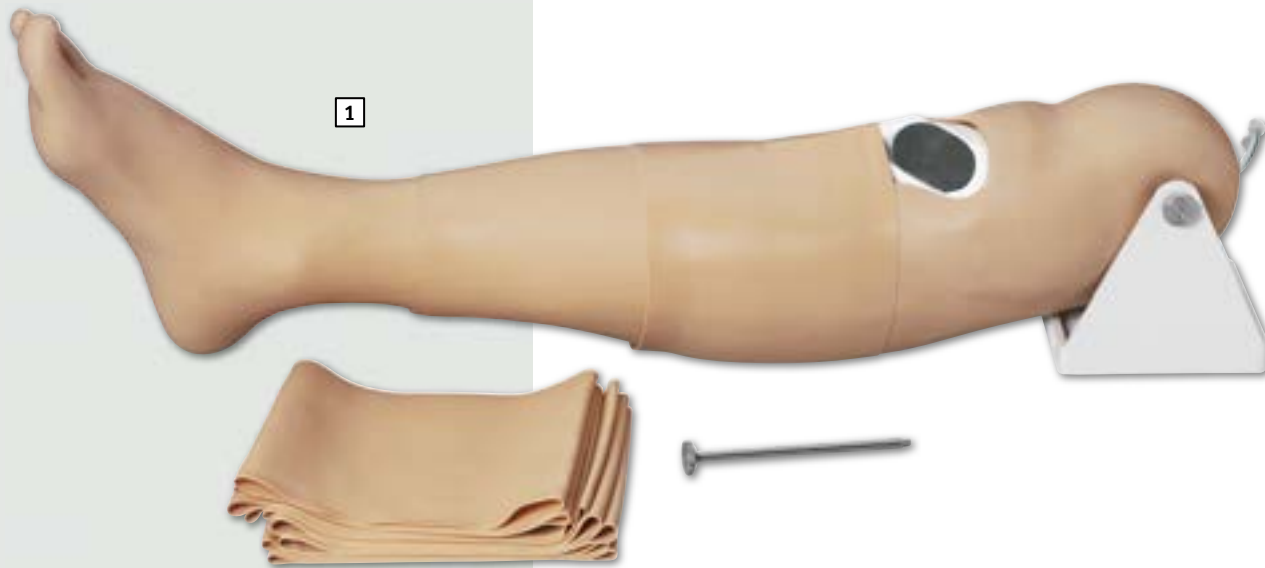
### 2 Child intraosseous infusion/femoral access leg

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

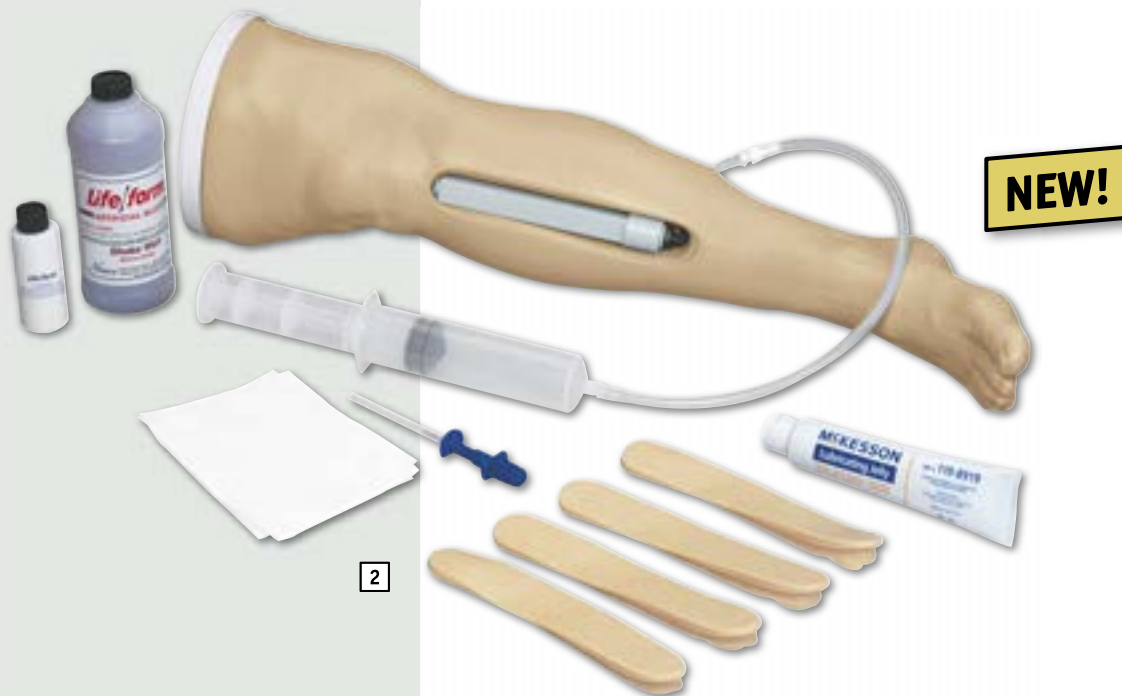


### 1 Introsseous training leg adult

Lower leg of an adult with the opportunity of training introsseous access. Improve your training and explain the whole procedure of introsseous access. Bone and skin are replaceable. Aspiration of fluid is not possible.

**Weight:** *appr. 2 kg*

■ **Ref.no. R10721**

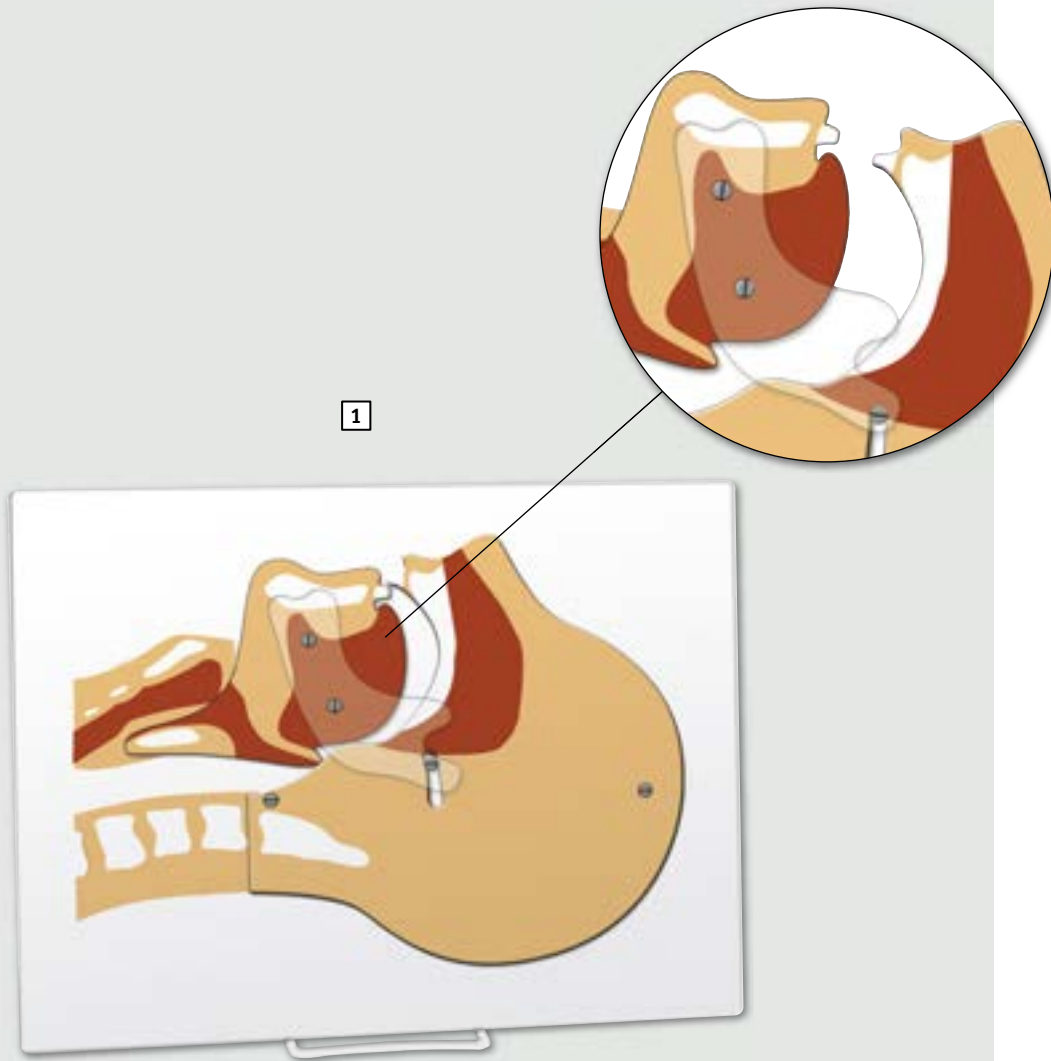


### 2 Adult introsseous infusion simulator

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 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 Transparent head for larynx tubes**

Adult head model for demonstration and positioning of Larynx tubes sizes 3 and 4. Supplied with carry bag.

■ Ref.no. R67100



## 1 Cricothyrotomy simulator

This model allows to practice Cricothyrotomy realistically. Palpable landmarks include cricoid and thyroid cartilage. The prominentia laryngea is prominent on the hyperextended neck. Supplied with 5 replacement skins and 5 replacement cartilage inserts. Skins and cartilage inserts are available as spare parts.

■ Ref.no. R10036



1



## 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



NEW!

2

**NEW!**



**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 Child**

This trainer facilitates the training of Cricothyrotomy on a child. It features a replaceable 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.

Includes: Trainer, 10 skin covers

■ Ref.no. R67120

**NEW!**



**3 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

**4 Cricotracheotomy trainer**

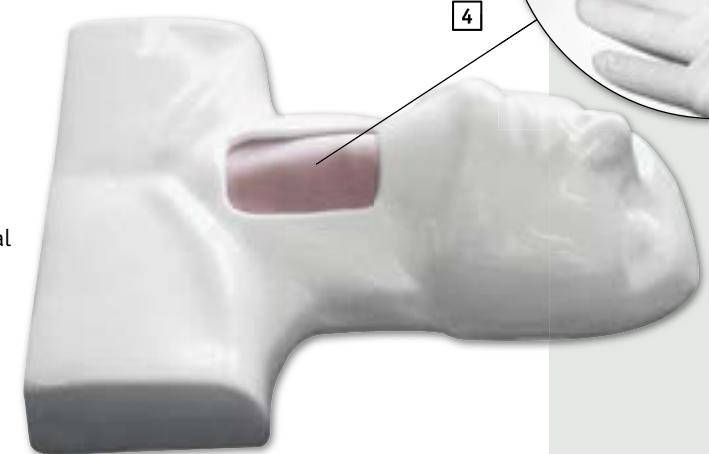
An innovative non biological trainer is the Cricotracheotomy Trainer that simulates the laryngeal body tissue. Use of a simple disposable trachea transforms the trainer into a very effective low cost system.

■ Ref.no. R10095

4



**NEW!**



### 1 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



### 2 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**

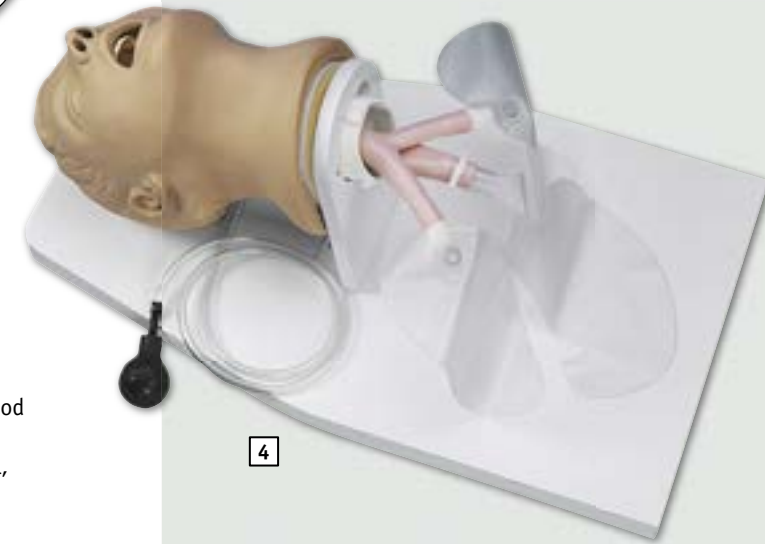
■ Ref.no. R10751

### 3 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



### 4 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 Adult deluxe airway management trainer with board

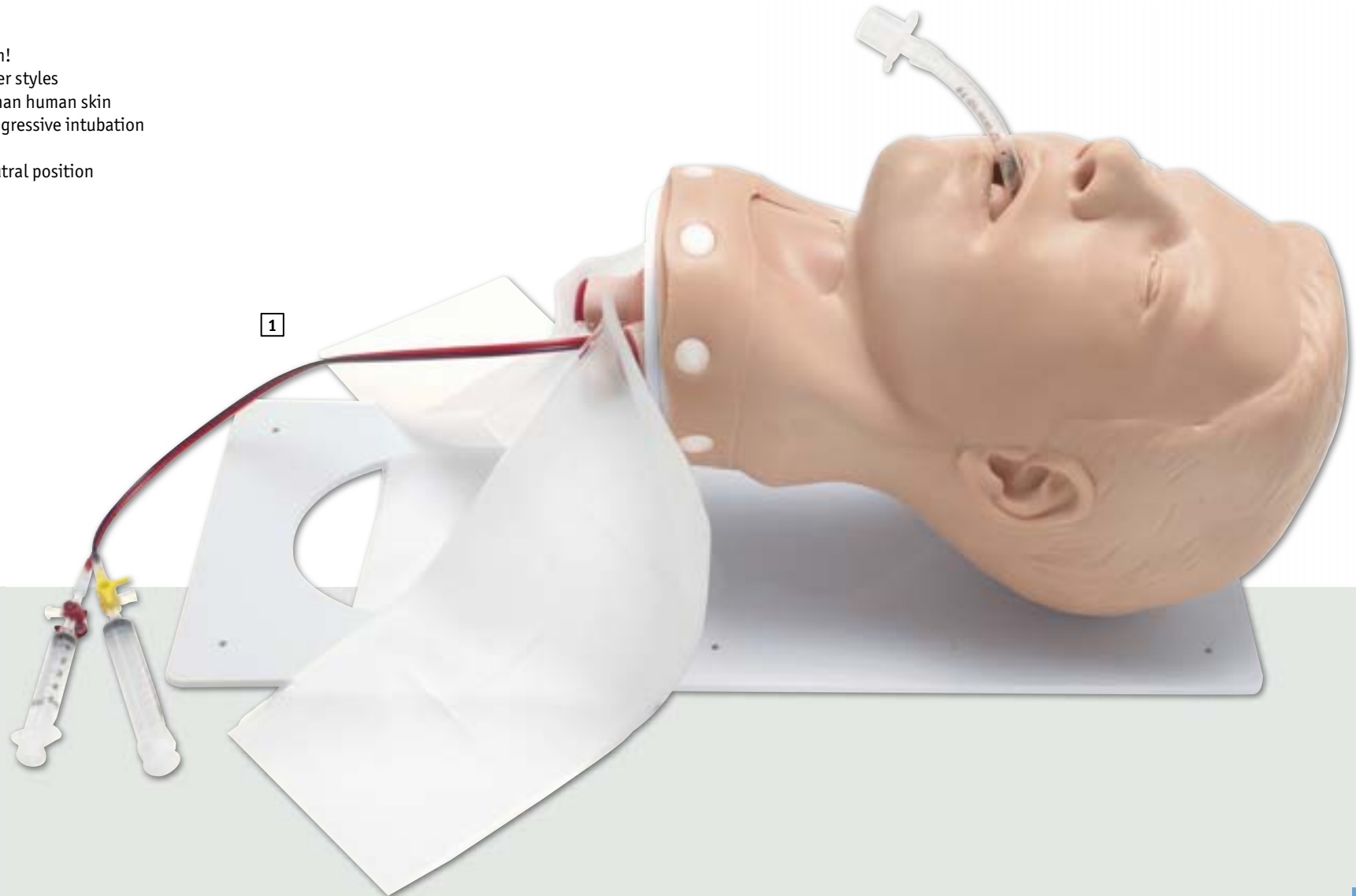
This adult airway maintenance head utilizes lifelike skin. The feel and an anatomy emphasizing accurate visualization features makes this trainer the choice for advanced airway management with the convenience of board mounting. Features include laryngospasm and tongue edema. Both lungs and stomach are 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**

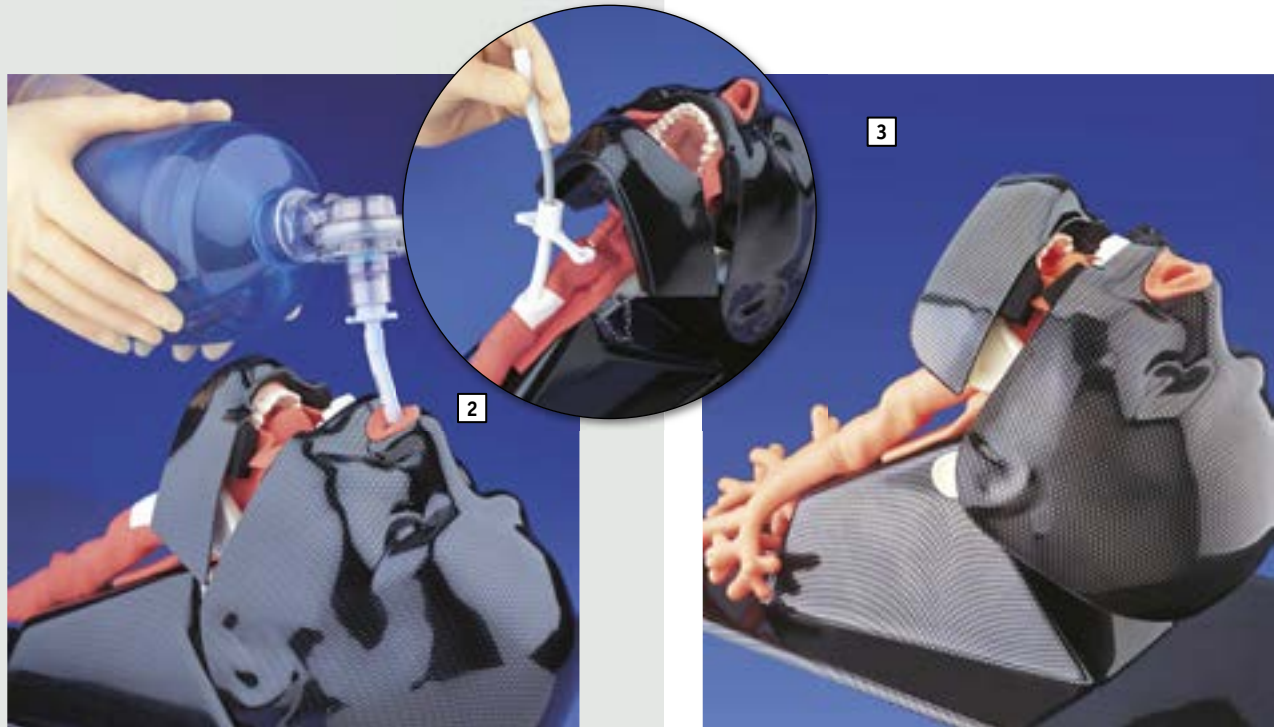




### 1 Intubation trainer AirSim Standard

This new intubation trainer is the first one that gives an absolutely realistic intubation experience and tactile response because of his unique seamless airway that was developed based on real human CT data. The model has a size-adjustable tongue with realistic shape, texture and response. It may be used with all supraglottic devices. It allows training with larynx masks, larynx tubes, Cobra PLA and Xpress as well as endotracheal tubes and double lumen tubes. It may be used with fibre optic laryngoscopes. The neck allows rotation, extension, flexion and lateral movements.

■ Ref.no. R18100



### 2 Intubation trainer AirSim Multi

Intubation Trainer as **AirSim Standard**, but with the additional option of naso-tracheal intubation as well as completely articulated lower jaw.

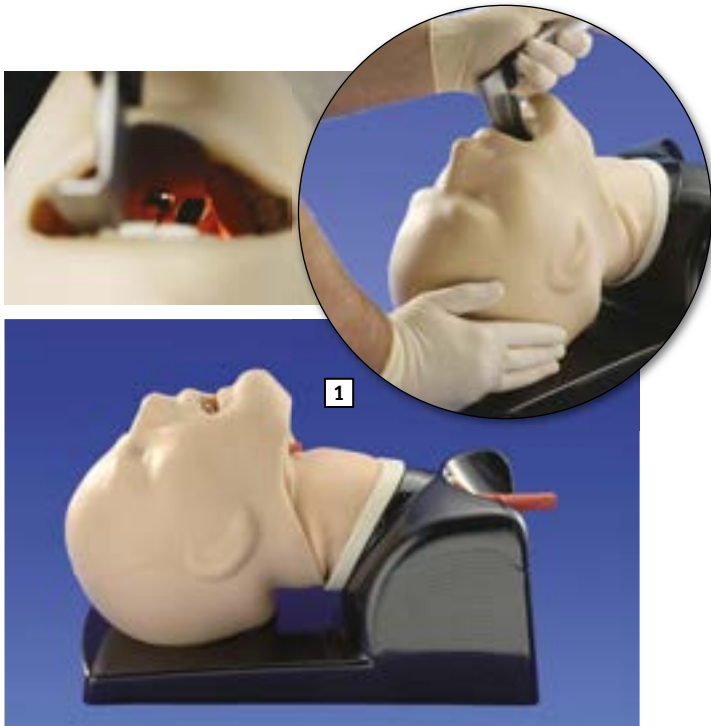
■ Ref.no. R18200

### 3 Intubation trainer AirSim Bronchi

As **AirSim Multi**, but with the additional option to practice bronchoscopy to the bronchioles on the tertiary bronchi.

■ Ref.no. R18300





## 1 Air Sim Advance

The AirSim Advance features the uniquely constructed AirSim airway, designed to provide true, anatomically correct and visually accurate internal features. The addition of a „real-feel“ skin covering provides a more realistic bag mask ventilation training experience. AirSim Advance features an improved neck design allowing for accurate articulation. AirSim Advance also features an anatomically accurate nasal passage, inflatable tongue to increase difficulty of airway and an option to include „breakout teeth“ to stimulate the effects of bad practice in laryngoscopy.

### This model is perfect for training of

- Effective bag mask ventilation
- Use of full range of supraglottic devices
- Video and standard laryngoscopy
- Tracheal & naso-tracheal intubation
- Awake fiberoptic examination.

■ Ref.no. R18510



## 2 Air Sim Advance Bronchi

Intubation trainer as **Air Sim Advance**, but with the additional option to practice bronchoscopy to the bronchioles on the tertiary bronchi.

■ Ref.no. R18530



## 1 Air Sim Advance Combo Bronchi

The AirSim Advance Combo Bronchi is the complete trainer for your airway management needs. It provides anatomically correct detail down to the fourth generation bronchi together with the addition of 'real feel' skin covering and also providing both cricothyroidotomy and percutaneous tracheostomy features. This model combines together the skin covering of the AirSim Advance Bronchi with all the combined features of the Crico and Traci model.

### AirSim Advance Combo Bronchi

■ Ref.no. R18760

### AirSim Advance Advance Combo

■ Ref. no. R18755



## 2 Air Sim Child

AirSim Child is the latest addition to the range of advanced airway models. This anatomically correct six-year-old child manikin has both realistic size and anatomical features perfect for practicing paediatric airway management skills, including bag/mask ventilation, supraglottic airway insertion, naso and orotracheal intubation. Developed in conjunction with the Children's Hospital Los Angeles, it is based on true CT data and this latest model offers quality and affordability for paediatric airway management skills.

### AirSim Child

■ Ref.no. R18560

### AirSim Child Bronchi

■ Ref.no. R18561





### 1 Air Sim Child

AirSim Child is the latest addition to the range of advanced airway models. This anatomically correct six-year-old child manikin has both realistic size and anatomical features perfect for practicing paediatric airway management skills, including bag/mask ventilation, supraglottic airway insertion, naso and orotracheal intubation. Developed in conjunction with the Children's Hospital Los Angeles, it is based on true CT data and this latest model offers quality and affordability for paediatric airway management skills.

■ Ref.no. R18560



### 2 Intubation head, neonate

Practical model for learning endotracheal intubation in a neonate. This carefully developed model allows practice in correct introduction of the laryngoscope.

■ Ref.no. LE30

1



## 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

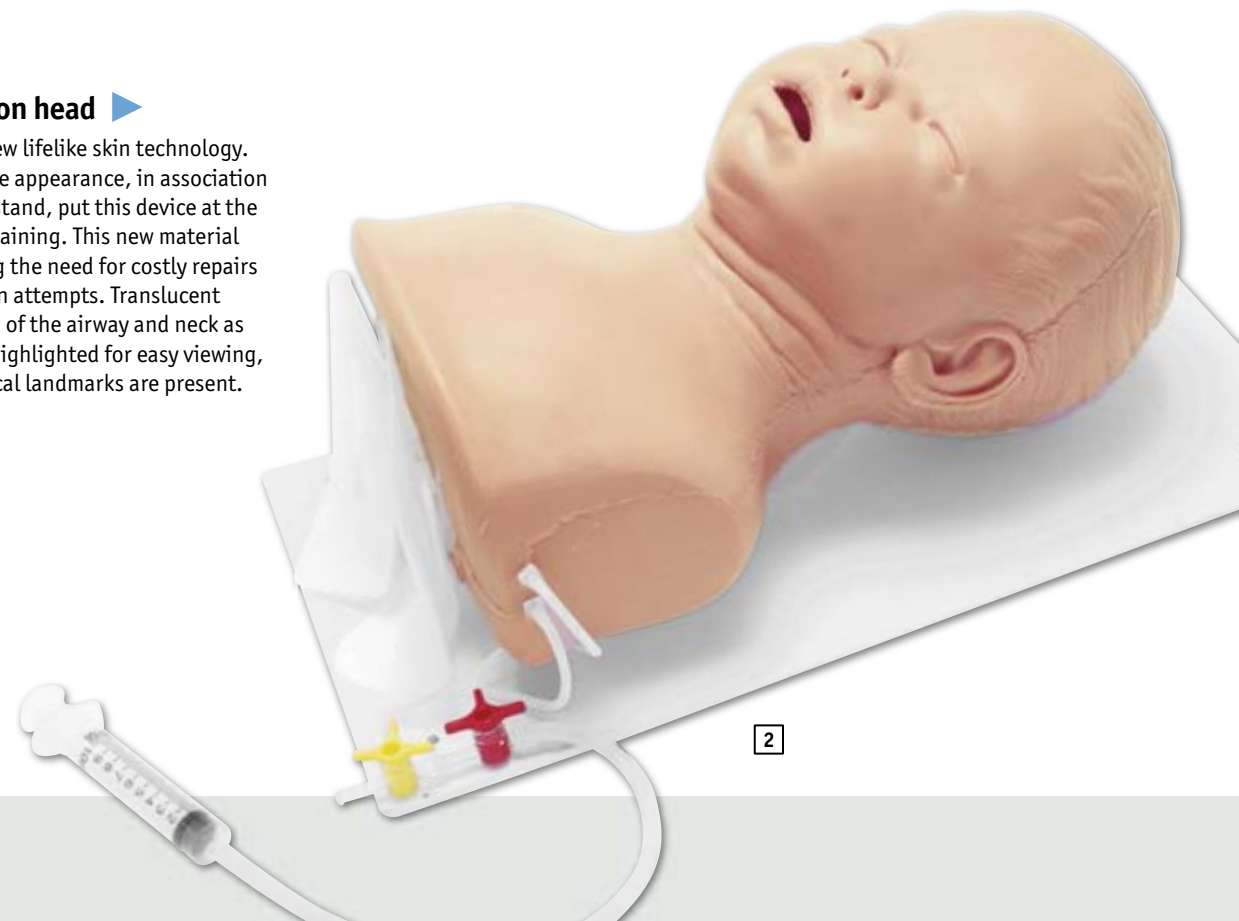
This station trainer incorporates the new lifelike skin technology. The advantages of durability and lifelike appearance, in association with the convenience of a lightweight stand, put this device at the head of the class for pediatric airway training. This new material eliminates tearing of the airway, 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



1



2





1

## 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



2

4

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5



AVAILABLE SUPPLIES:

**3 Replacement airways**

Pack of 100 pcs

■ **Ref.no. R10090A**

**4 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**

**2 Mini Anne Plus**

Mini Anne Plus is a cost-effective solution for teaching **quality CPR** using durable and reusable manikins. Available as set of ten individual manikins, increasing student hands-on time during training. The innovative new pump bag provides a simple, hygienic inflation method. Mini Anne Plus includes everything to get your CPR program up and running in one convenient bag

**Features:**

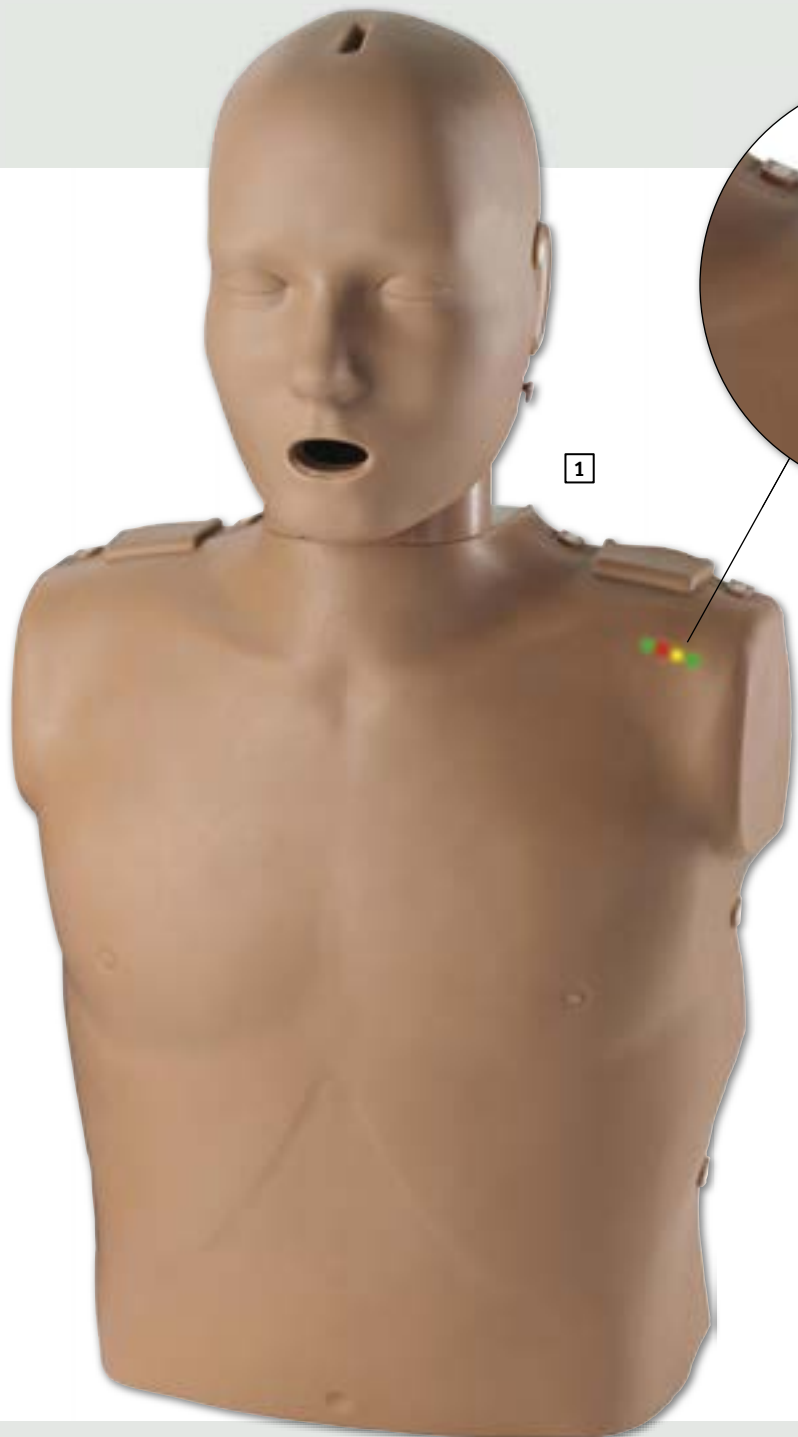
- Adjustable clicker settings gives feedback on compressions to Guidelines 2010 recommendations and provides encouragement to new learners
- Unique inflation method doubles as storage bag for safe keeping of each manikin between classes
- Convenient carry bag includes manikin and consumables designed to reduce set up time between classes
- Reusable class set makes layperson CPR training more cost effective

**Mini Anne Plus**

■ **Ref.no. R20044**

**Mini Anne Plus, 10 Pack**

■ **Ref.no. R20045**



▶ **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

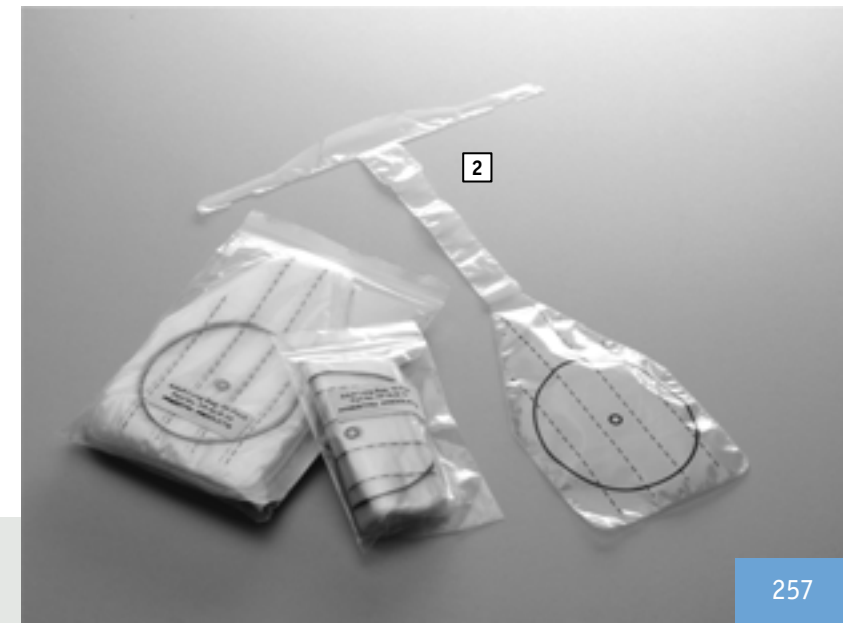
■ **Ref.no. R19100B**

**4 Prestan CPR manikin**

Set of 4pcs

■ **Ref.no. R19100/1**

The suitable AED trainer for this model can be found on page 264





### 1 Little Anne ▶

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
- **Ref.No. R20050**

AVAILABLE SUPPLIES:

**Replacement face skins, 6pcs**

- **Ref.no. R20050A**

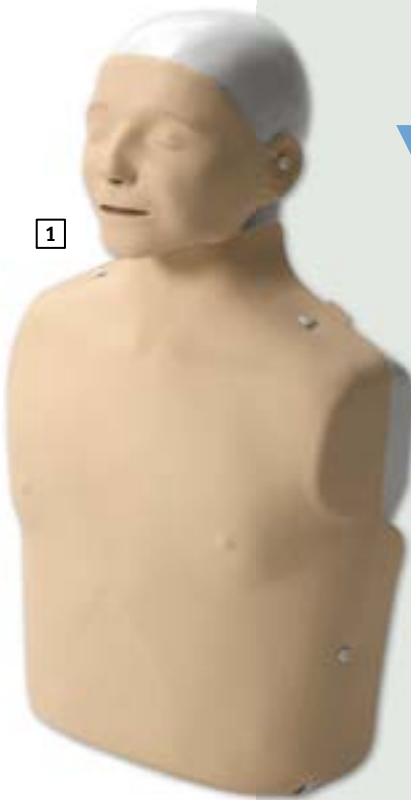
**Replacement Airways, 24pcs**

- **Ref.no. R20050B**

**Replacement Airways, 96pcs**

- **Ref.no. R20050C**

1



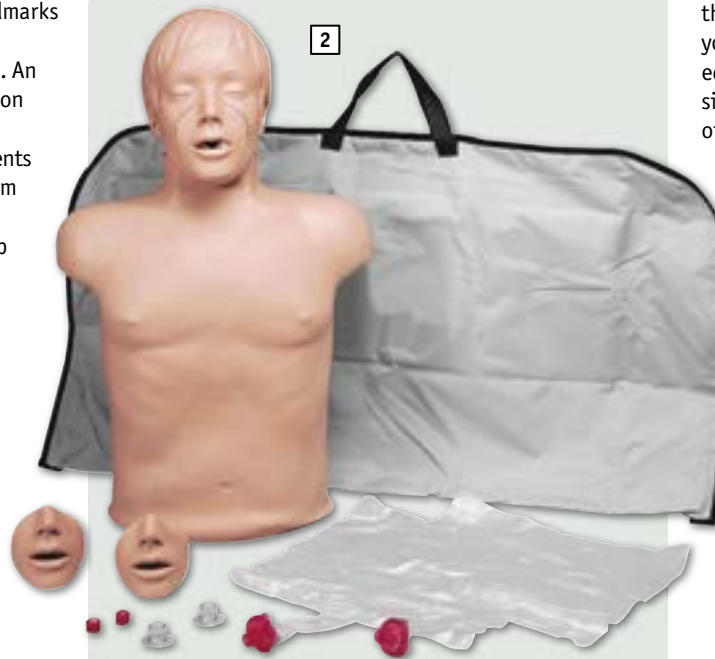
### 2 Brad compact CPR training manikin

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



### 3 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 2)

AVAILABLE SUPPLIES:

**Mouth/nosepieces**

Pkg. of 10

- **Ref.no. R10054A**

**Lung/airway systems**

Pkg. of 24

- **Ref.no. R10054B**

### 4 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



### 5 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 4)

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



Light Controller

### 3 CPR iPad recording manikin

New and Improved version of the CPR Recording Manikin. The CPR iPad Recording Manikin complies with the 2010 AHA standards for CPR. The manikin measures and reports compression depths greater than 2" and compression rates faster than 100 a minute to meet the new standards. If you participate in other standards, the program settings can be changed to match your standards. The program will let you choose to evaluate full CPR, just ventilations, or just compressions. You can set the time line for the length of the test and adjust the display window so that all the detail of the measured feature is easy to interpret. The instructor can assign a passing grade percentage based upon the 2010 AHA standards. Includes a kit for calibration in the field, squeeze bulb used to demonstrate carotid pulses, and student records. Also included is an iPad, a soft carry case, and replacement parts.

**Size: 79 x 43 x 25 cm, Weight 12.3 kg**

■ Ref.no. R10015



### 4 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

## 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



2





## 1 CPRmeter

The trained rescuer knows that when faced with a sudden cardiac arrest patient, time and optimal therapy is critical for survival. Quality CPR combined with early defibrillation is essential to improve survival. Guidelines provide direction on a number of parameters that define Quality CPR. However, the challenge for all emergency healthcare providers remains:

How can guidelines compliant CPR be delivered consistently throughout the whole chain of survival? The 2010 Guidelines recommend compressing the patients' chest at least 5 cm. Knowing when you have reached 5 cm is however difficult. As chest stiffness varies, some patients need much more compression force to meet the same guideline. This complicates matters even further.

### How does CPRmeter work?

CPRmeter has two embedded sensors: one measuring acceleration and another measuring force. A sophisticated microprocessor continuously measures both of these parameters during each compression, and special algorithms convert the collected data into meaningful information.

The accelerometer measures the depth and rate of chest wall movement during each compression and converts it into distance travelled. The force sensor measures the force applied during CPR and is also used to detect whether the patient's chest is allowed to fully release between compressions. Feedback is provided if the responder is leaning during CPR. This helps the trained rescuer to deliver guidelines compliant chest compressions regardless of the chest stiffness of an individual patient.

Its rugged construction and excellent viewing angles, even in difficult environmental conditions, makes CPRmeter ideally suited to the chaos of the emergency situation.

### Assuring quality

While survival rates from sudden cardiac arrest have remained virtually unchanged for 25 years, recent studies have shown that significant improvements in patient outcomes are possible when healthcare organisations implement systematic QA and QI initiatives.

The CPRmeter records and documents CPR performance. This opportunity to debrief events objectively is essential to facilitate team improvement and establish best practice to help improve patient outcomes.

### Q-CPR Quick Review

The opportunity for trained responders to immediately self-evaluate their CPR performance is both an empowering and motivating feature of the CPRmeter. This can help reassure that optimal CPR has been delivered or highlight areas for improvement for discussion during the de-brief.

### Q-CPR Review

An optional Micro SD card can capture comprehensive CPR event statistics for in-depth evaluation and debriefing. A quick download into the CPR Review software enables the user to:

- Create a graphical view of a CPR case for debriefing
- Create and print an individual CPR Report Card
- Compile CPR event statistics for multiple cases

CPR Review software provides the foundation for a successful CPR quality improvement program.

### CPRmeter Improves CPR Skills Retention

CPR training for both ALS and BLS courses require demonstration of guidelines compliant CPR. Studies indicate that CPR skills decrease quickly following traditional CPR training. More frequent refresher training, more hands-on skills practice and reduced intervals of re-certification have been highlighted as methods to address this problem. A valuable solution for recommended low dose, high frequency refresher training, the CPRmeter used with a manikin can help the trainee to improve and maintain CPR skills, while helping the instructor to easily assess competence for re-certification.

■ Ref.no. R20330



## Resusci Anne® QCPR®

Resusci 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

Resusci 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 Resusci Anne Wireless SkillReporter software
- Wired connectivity with SkillGuide or SimPad SkillReporter
- Guidelines compliant

### Optional Configurations

Resusci 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 Resusci Anne® QCPR® manikin or managing 1 – 6 Resusci Anne® QCPR® manikins

- SkillGuide

Providing real time feedback and single session debriefing

- Resusci 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. R20080

**2 Resusci Anne QCPR torso with airway head**

With carry bag.

■ Ref.no. R20081

**3 Resusci Anne QCPR full body**

With transport trolley.

■ Ref.no. R20085

**4 Resusci Anne QCPR full body with airway head**

With transport trolley.

■ Ref.no. R20086

**5 Resusci Anne QCPR torso AED**

Can be used with Laerdal AED trainers. With carry bag.

■ Ref.no. R20090

**6 Resusci Anne QCPR torso AED with airway head**

Can be used with Laerdal AED trainers. With carry bag.

■ Ref.no. R20091

**7 Resusci Anne QCPR full body AED**

Can be used with Laerdal AED trainers. With transport trolley.

■ Ref.no. R20095

**8 Resusci Anne QCPR full body AED with airway head**

Can be used with Laerdal AED trainers. With transport trolley.

■ Ref.no. R20096

**9 Resusci Anne QCPR torso D**

Can be defibrillated with real defibrillator. With carry bag.

■ Ref.no. R20150

**10 Resusci Anne QCPR torso D with airway head**

Can be defibrillated with real defibrillator. With carry bag.

■ Ref.no. R20151

**11 Resusci Anne QCPR full body D**

Can be defibrillated with real defibrillator. With transport trolley.

■ Ref.no. R20155

**12 Resusci Anne QCPR full body D with airway head**

Can be defibrillated with real defibrillator. With transport trolley.

■ Ref.no. R20156



AVAILABLE CONTROL UNITS:

**13 Skill Guide**

■ Ref.no. R20180

**14 SimPad SkillReporter**

■ Ref.no. R20190

**15 Multi Manikin Router**

(Operate several Resusci Anne QCPR with one control unit)

■ Ref.no. R20190A

**16 Wireless Skillreporter Software (PC)**

■ Ref.no. R20195





closed



1

### 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



2

### 4 AED Little Anne training system

AED Little Anne training system is a complete product, including the economic AED Little Anne training manikin, the AED Trainer 2 as well as the remote control unit. This complete training system offers full training opportunities at a reasonable price. Because of its unique design the AED trainer 2 stops the scenario as long as the electrodes are not placed correctly on the patient's chest. AED Little Anne training system consists of: AED Trainer 2 (engl.) with carry bag, remote control, AED Little Anne manikin with carry bag, training mat, accessories, LINK training electrodes and instruction manual.

■ Ref.no. R20250



NEW!

## 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:

Replacement face-shield-lungs, pack of 50pcs

■ Ref.no. R19150A

Hygienic face shields, pack of 50pcs

■ Ref.no. R19150B



## 2 Little Junior

The Little Junior manikin meets your need for a low-cost, lifelike child CPR trainer and is the perfect supplement to the Resusci Junior manikin. Our package of four Little Junior manikins makes hands-on practice affordable for every student. 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
- Audible feedback for chest compressions reinforces correct compression depth with an optional “clicker” feature.

Little Junior

■ Ref.no. R20280

Little Junior 4pcs Pack

■ Ref.no. R20280/1

Replacement face skins, 6pcs

■ 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

### 3 Resusci Junior

The Resusci Junior manikin offers realistic, high-quality child CPR education. It has full-body construction and use of an optional SkillGuide performance indicator and optional water rescue set.

- 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 SkillGuide CPR performance indicator provides immediate objective feedback on ventilation duration and volume, compression depth and hand position
- 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, 4 airways, 1 bottle disinfection fluid and instruction manual.

#### Version basic with hard case

- Ref.no. R20260

#### Version SkillGuide with hard case

- Ref.no. R20265

#### Version water rescue with hard case

- Ref.no. R20270

#### Replacement face skins, 6pcs

- Ref.no. R20260A

#### Replacement airways, 25pcs

- Ref.no. R20260B

#### Replacement airways, 100pcs

- Ref.no. R20260C





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



1

### 1 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

Hygiene airways, 50 pcs

■ Ref.no. R19200A

Hygiene face shields, 50 pcs

■ Ref.no. R19200B



2

### 2 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. R20300

Replacement face skins, 6pcs

■ Ref.no. R20300A

Baby Anne pack of 4 with carry bag

■ Ref.no. R20300/1

Replacement airways, 24pcs

■ Ref.no. R20300B

### 3 Resusci Baby QCPR

Resusci Baby QCPR 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 QCPR 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 QCPR

■ Ref.no. R20295

Skill Guide (description see page 262)

■ Ref.no. R20180

SimPad SkillReporter (description see page 262)

■ Ref.no. R20190



3

### 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 257, 265 and 268. For accessories see single products pages.

■ Ref.no. R19600



### 2 Prestan Family Pack ▶

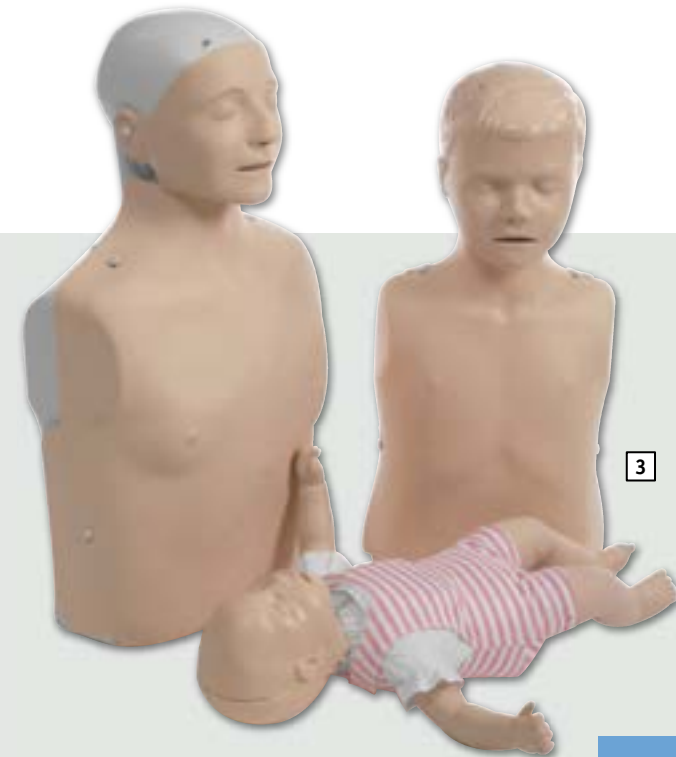
This set contains a whole family of CPR dolls. Two adults, one child and two babies in an attractive set, all with CPR monitor. The description of the single products **R19100**, **R19200** and **R19150** can be found on pages 257, 265 and 268. For accessories see single products pages.

■ Ref.no. R19650

### 3 Little Family ▶

Now we bring you realistic, affordable quality CPR training in one „Little“ happy family package - the new Little Family Pack. Designed to reflect the realistic anatomical differences between an adult, a child and an infant. The new Family Pack comes complete with one Little Anne (Ref.no. **R20050**, page 258), one Little Junior (Ref.no. **R20280**, page 265), and one Baby Anne (Ref.no. **R20300**, page 268) and a large bag on wheels to carry them. It's functional realism with all the essential features! Your students will benefit from the most realistic, age-specific manikins on the market today. And you'll benefit from the convenience. For accessories see single products pages.

■ Ref.no. R20310



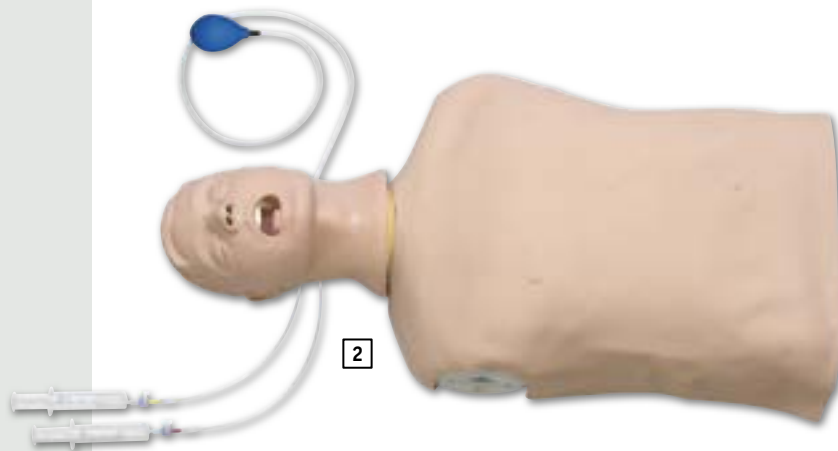




### 1 Airway Larry adult airway management trainer torso

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 226) 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 monitors on page 272.

■ Ref.no. R10193

#### **2 Airway Larry adult airway management trainer full body without electronics**

No monitoring function.

■ Ref.no. R10193/1



### 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 (not pictured)



### 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



### 4 Light controller for R10052

Control lights for hand position, ventilation and compression.

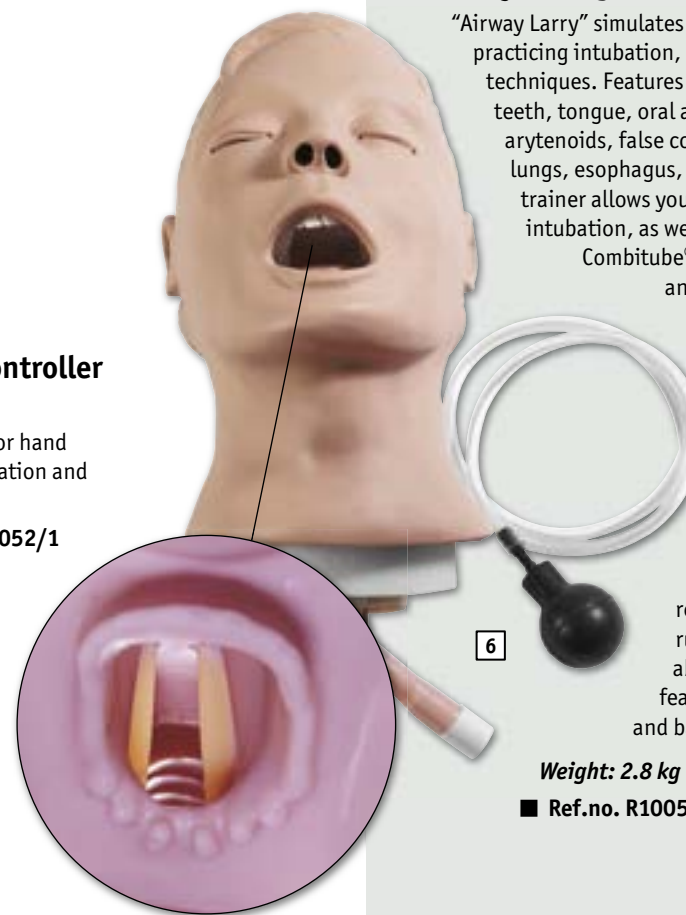
■ Ref.no. R10052/1



### 5 Monitor and printer for R10052

Additional to the functions of R10052/2 This unit has a printer that shows the training results in detail (see picture).

■ Ref.no. R10052/3



### 6 “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

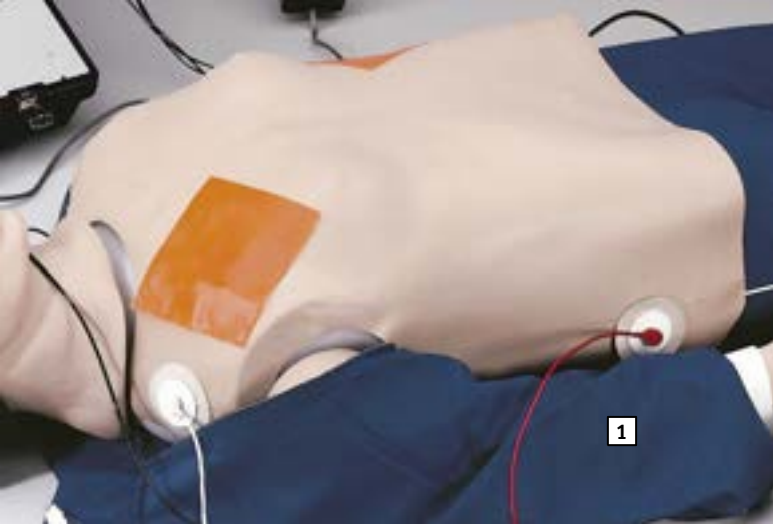
Lower Airway, 10 pcs

■ Ref.no. R10052E

Printer Paper, 6 Rolls

■ Ref.no. R10052/3A





### 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
- 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

#### 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
- 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 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

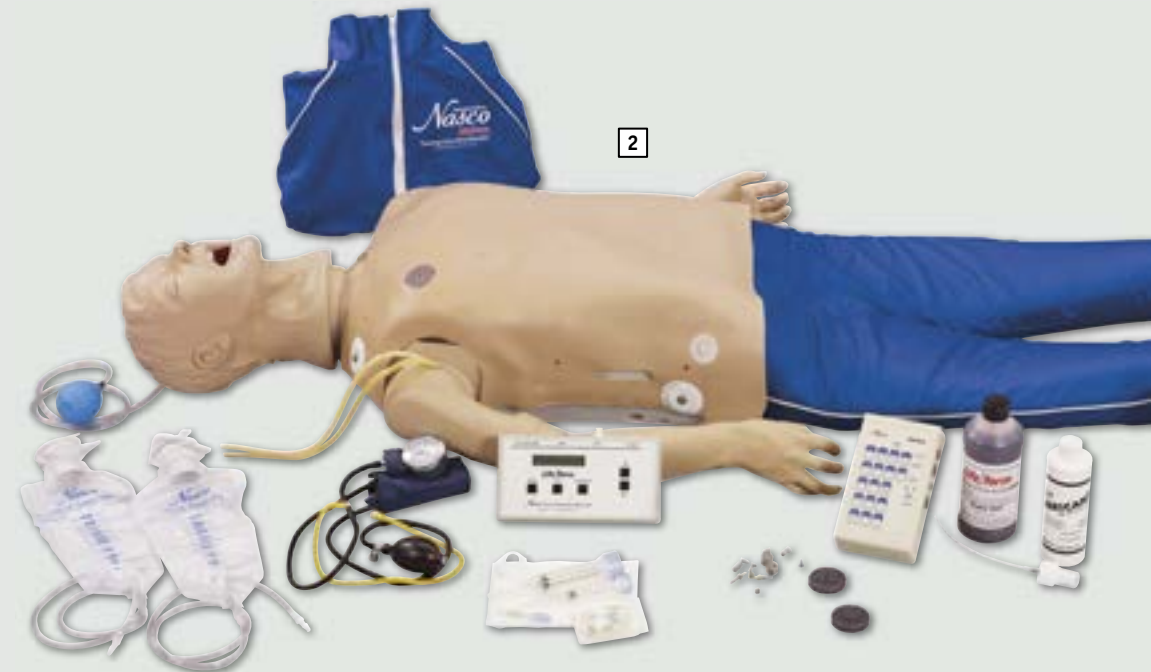
- Articulated at the biceps for antecubital and dorsal access
- Bony landmark at shoulder to identify muscle tissue for intramuscular injections
- Replaceable skin and veins
- Realistic flashback from a pressurized system

#### 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.)

### 3 Deluxe "PLUS" CRiSis manikin

The "pluses" are a printer for CPR evaluation, and a hard carrying case. 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. The CPR simulation includes an electronic monitoring, memory, and printer unit light controller which displays running averages, provides hard copy printout, and has adult and child settings.

**Weight: 36 kg**

■ **Ref.no. R10153/3**

AVAILABLE SUPPLIES:

### 4 Manikin case

**Weight: 12.7 kg**

■ **Ref.no. R10153A**







### **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

## 2 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

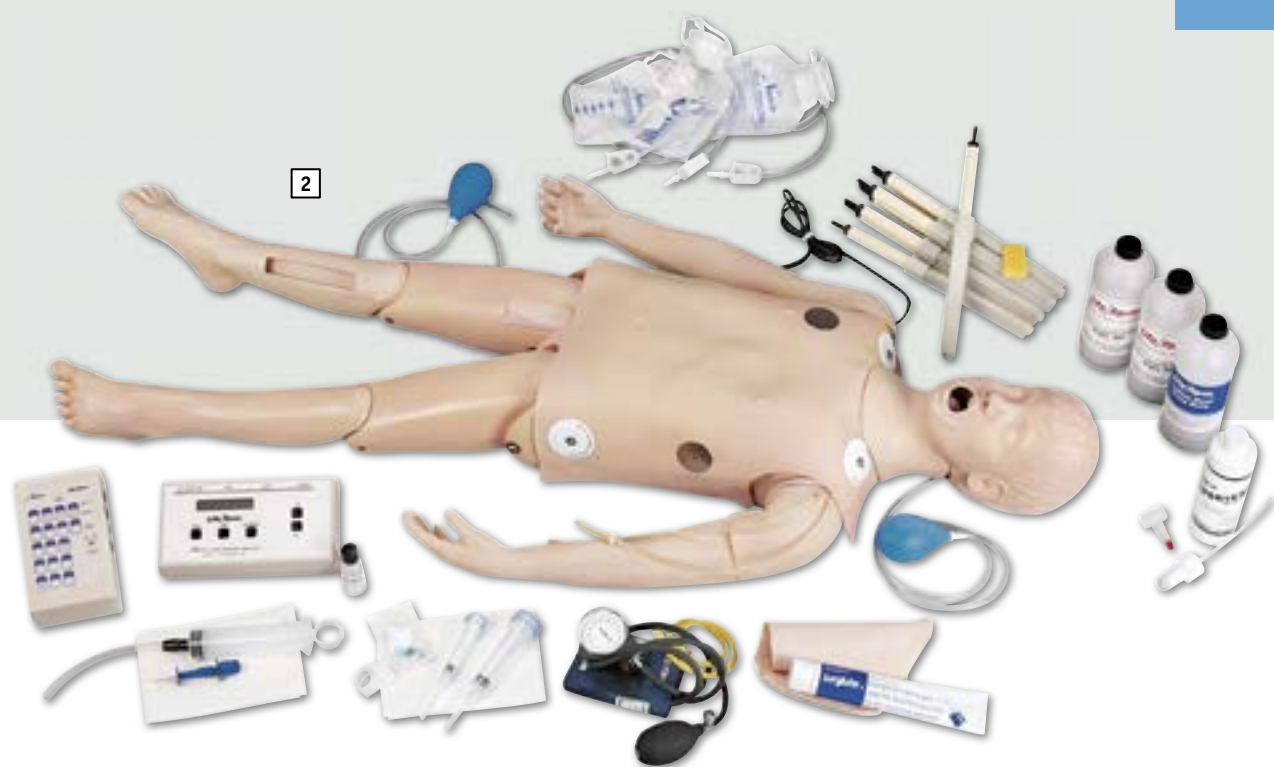
### 17 Adult/Pediatric Rhythms

- 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 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 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

### ■ Ref.no. R20199

If you order this product, you have to order also the technical installation (**Ref.no. R20199/1**) and the product training course (**Ref.no. R20199/2**). It is not possible to order this item without these services.



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





## 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, 106 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, 84 kg

Shipping weight: 88 kg

■ Ref.no. R10161

**5** Version large body, 183 cm, 79 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, 56 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





### 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 Bariatric rescue suit

The idea for this suit was born after a physician was involved with a difficult house extrication of a rather large patient. It became evident that standard patient handling techniques were not suitable for the extrication of morbidly obese patients. The physical limitations of the buildings in which some of these patients reside also required special consideration. The Bariatric Rescue Manikin Suit replicates the weight and the movement in body tissue associated with morbidly obese patients. This simulation is made possible by an “exo-suit” which allows the user to add up to 200 kg of water. When the exercise is complete, the water can be simply drained away thus making the manikin more “portable.” In its dehydrated version, the manikin can be easily transported between locations. The Bariatric Suit fits only the Regular Rescue Randy original 165 cm, bald manikins (page 282). Manikin not included.

**Weight (without water): 5 kg**

■ Ref.no. R10169

### 2 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

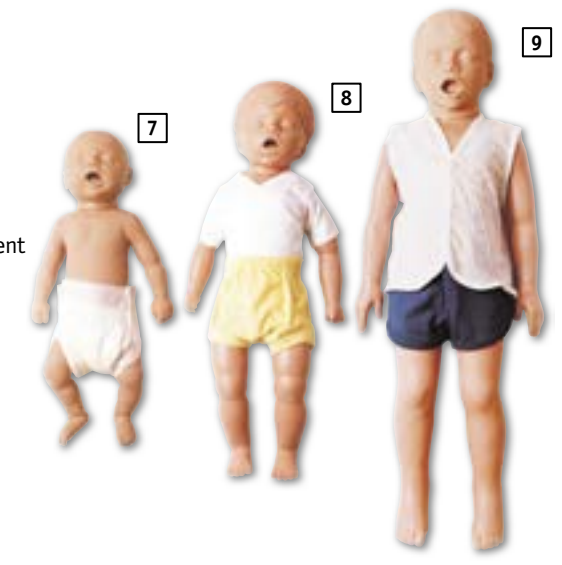
- Spare parts
- 5 Mouth/nose pieces, 10 pcs**  
 ■ Ref.no. R10054A
  - 6 Replacement lungs, 24 pcs**  
 ■ Ref.no. R10092/1B

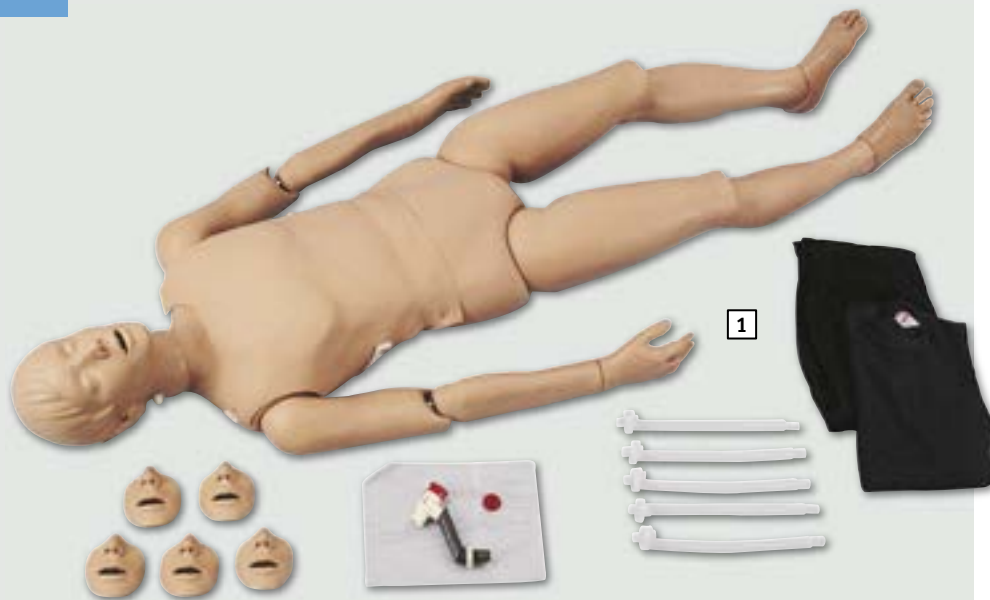
### Rescue children Cathy, Billy, & Timmy

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 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

### 2 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

#### 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 284 for description.

■ Ref.no. R10046

### 3 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



### 4 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

### 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



2



3

### 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

## 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

## 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.

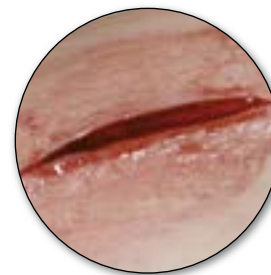
■ Ref.no. WS03



2



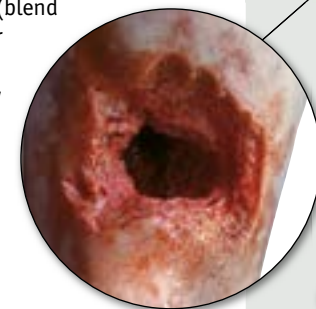
1+2



### 4 Emergency leg

Complete, life size leg 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

## 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



2



2

## 1 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

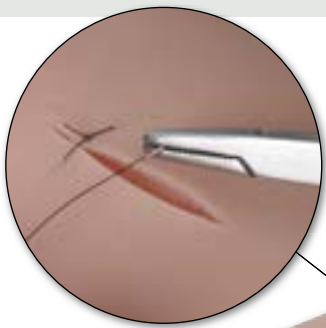


## 2 Advanced suture kit

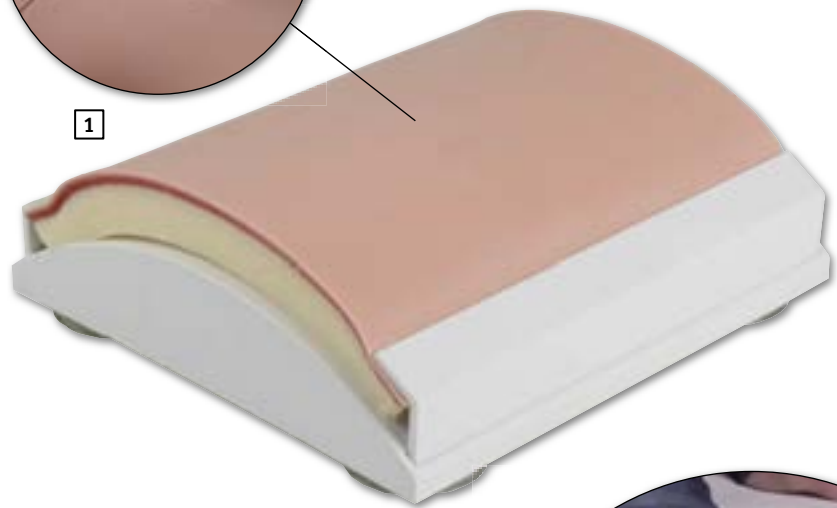
Take your suture skills practice to a new level! The soft, flexible three-layer skin opens realistically when incised, yet is highly resistant to tearing — sutures won't cut through even when pulled tight. Skin pad can be sutured hundreds of times. Includes easy-to-change specialty inserts for deep dermal 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



#### 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



2

3



4



4

#### 4 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.

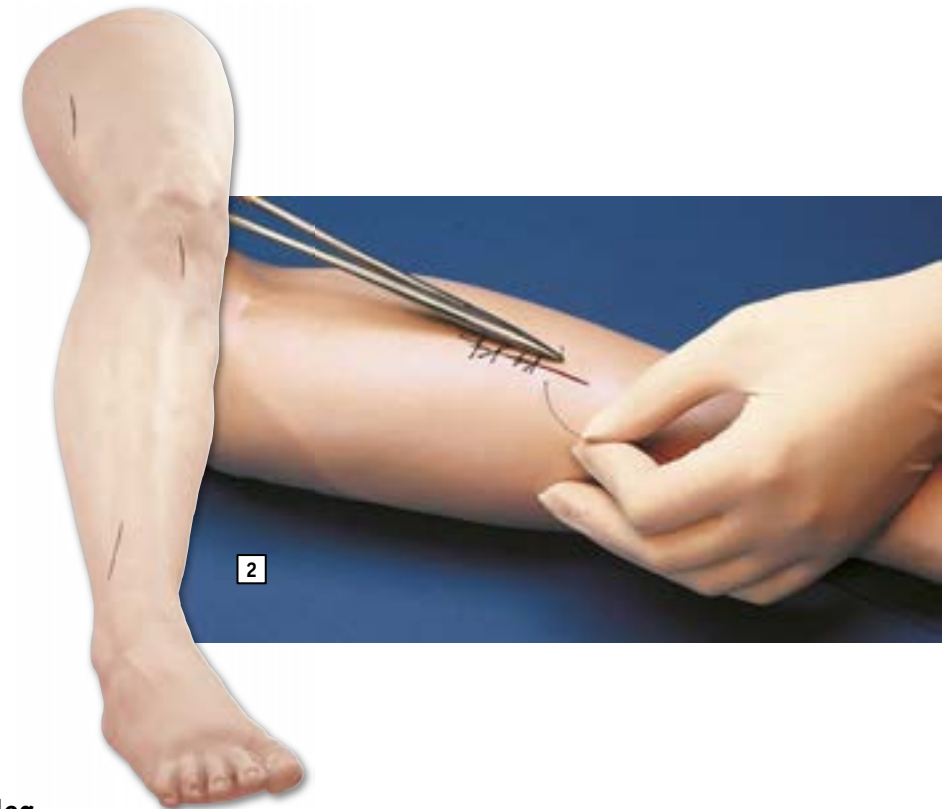
**Weight:** 1.2 kg

■ Ref.no. R10024

#### Suture Leg without cuts

Version without pre-cut wounds.

■ Ref.no. R10024/1



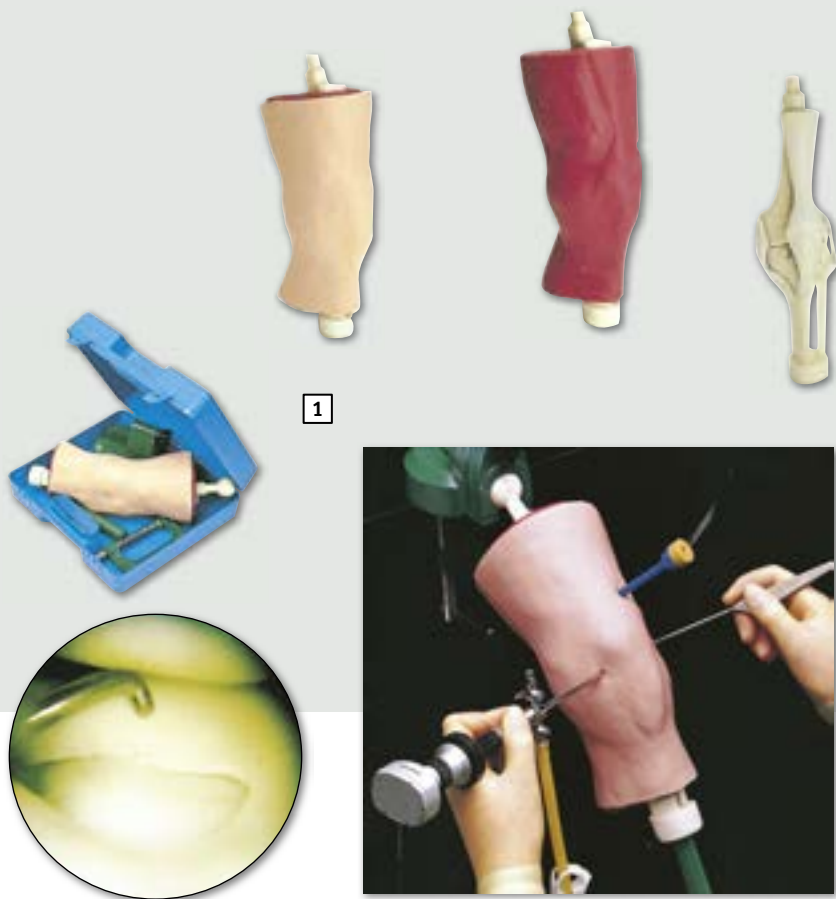
### 3 Fleximodel suture leg

The female suture leg is modelled on a real leg and features all muscular and bony structures. The skin is made of a thick and yet flexible material and can be sewn in a realistic way. As in the case of real skin, an appropriate amount of effort is required to pierce it with a needle. Red tissue lies beneath the skin, depicting the wound. Incisions can be made on any part of the leg, including at difficult places such as the knee. Further training possibilities concern drain insertion, wound care and the application of dressings. Naturally various sewing techniques and stitch removal can also be practised. The sewing of deeper layers of tissue is not possible.

■ Ref.no. 7002



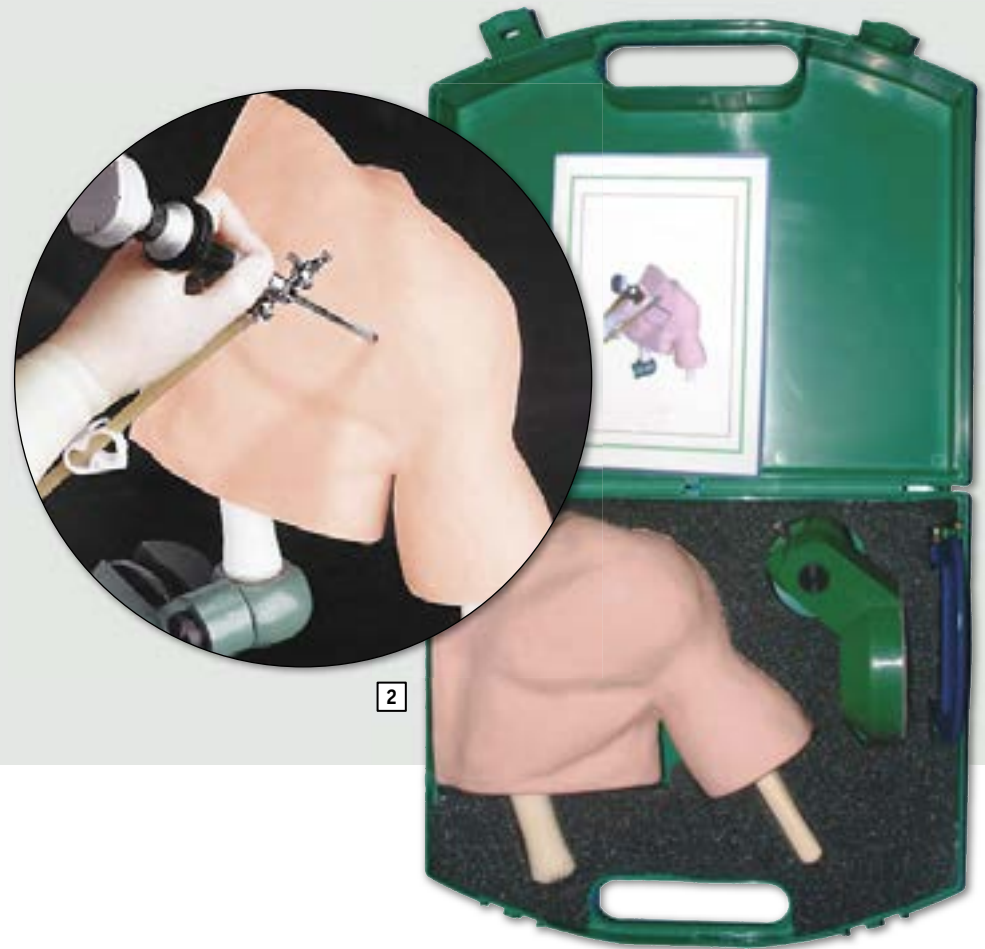




### 1 Arthroscopy knee

This very natural knee model includes the skin, the muscles, the bones and the ligaments. Because it is made of special plastic material, it gives a very lifelike feeling to the student. It is unique in its anatomic accuracy and feel. All major ligaments are present. Flexion and extension are possible, muscles and skin are removable. Training of all arthroscopy techniques and operations is possible. All parts can be replaced. Comes with table clamp and case.

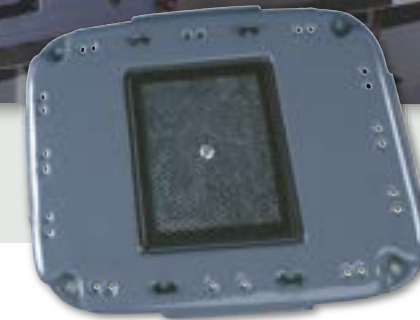
■ Ref.no. HSKN01



### 2 Arthroscopy shoulder

This arthroscopy-shoulder is made of special plastic material and due to this gives a very realistic feeling to the students and reacts lifelike to operation techniques. Bones, cartilage, muscles and skin are represented and can be removed separately. With this model the following procedures can be performed: removal of loose bodies, repair of Bankart lesion and repair of tears in labrum or l.h.o. biceps tendon. All parts of this model are available separately and can be replaced.

■ Ref.no. HSSH01



## 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

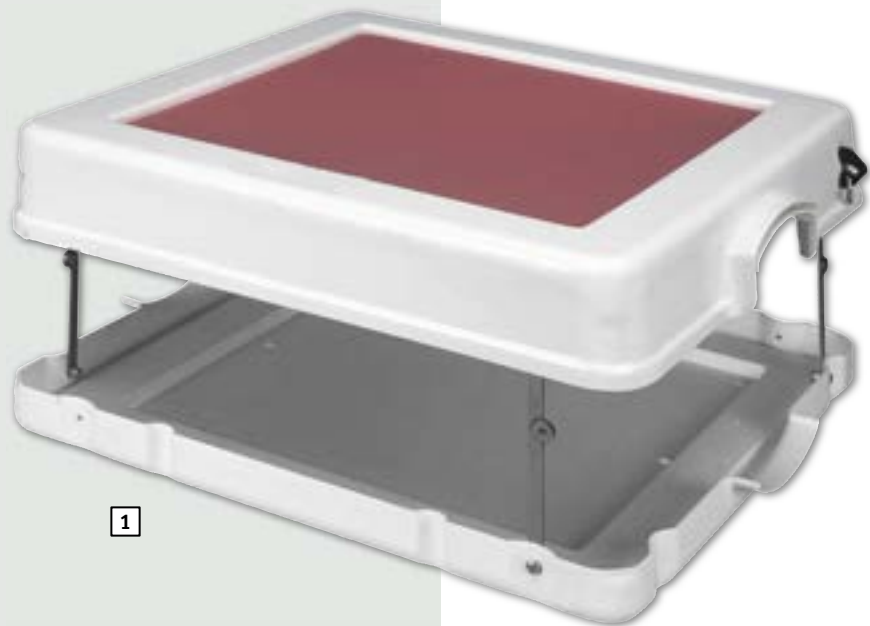
A smooth soft-tissue multi-functional Skin Pad with a pink surface and a yellow fatty tissue layer, 12 mm thick. Ideal to take trocar incisions or larger incisions and can be sutured. Realistic tactile feeling when surgical zips or gloves are used.

- 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

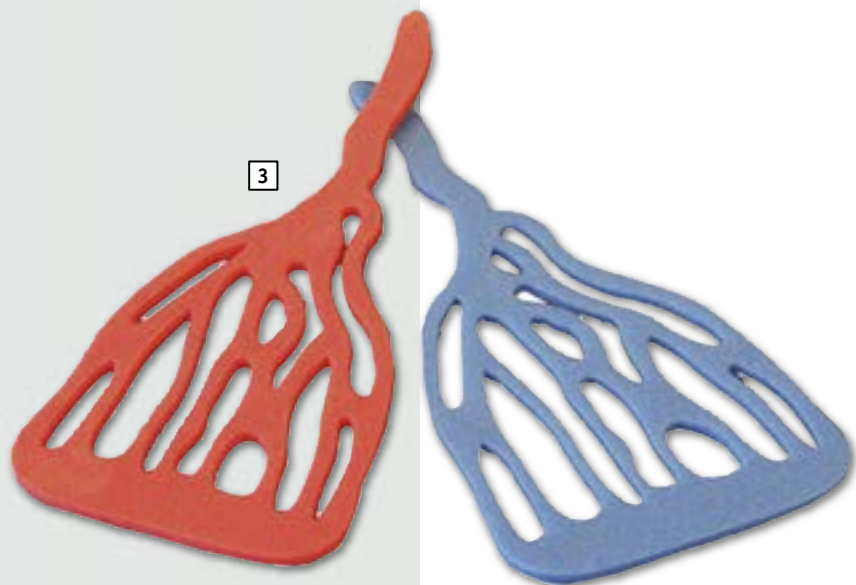
This suturing trainer is perfect for training of basic operation skills. A suturing skin pad as well as an anastomosis bowel can be replaced. The perfect aid for the laparoscopic trainer **R10083** or **R10086**.

**Size:** 25 x 23 x 9 cm

■ **Ref.no. R 10083/4**



3



### 3 Vascular trees

Vascular trees are a mock blood vessel layout made of foam. One vascular tree at a time is placed between two layers of one-time-use gloves, of which the inner one is to be filled with water. The Vascular Tree can now be operated on. The primary objective is to practice cutting, suturing, clamping and removing segments without causing damage. Considerable skill is required to perform the basic procedures without bursting the fluidfilled glove. Comes in packs of 25. Perfect for the trainers **R10083** or **R10086**.

■ **Red Version, 25 pcs Ref.no. R10083/5**

■ **Blue Version, 25 pcs Ref.no. R10083/6**





1

### 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**



2



3

### 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**

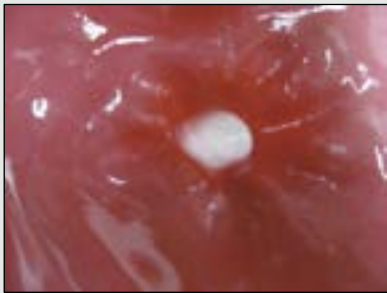




Duodenal ulcer



Stomach, early cancer



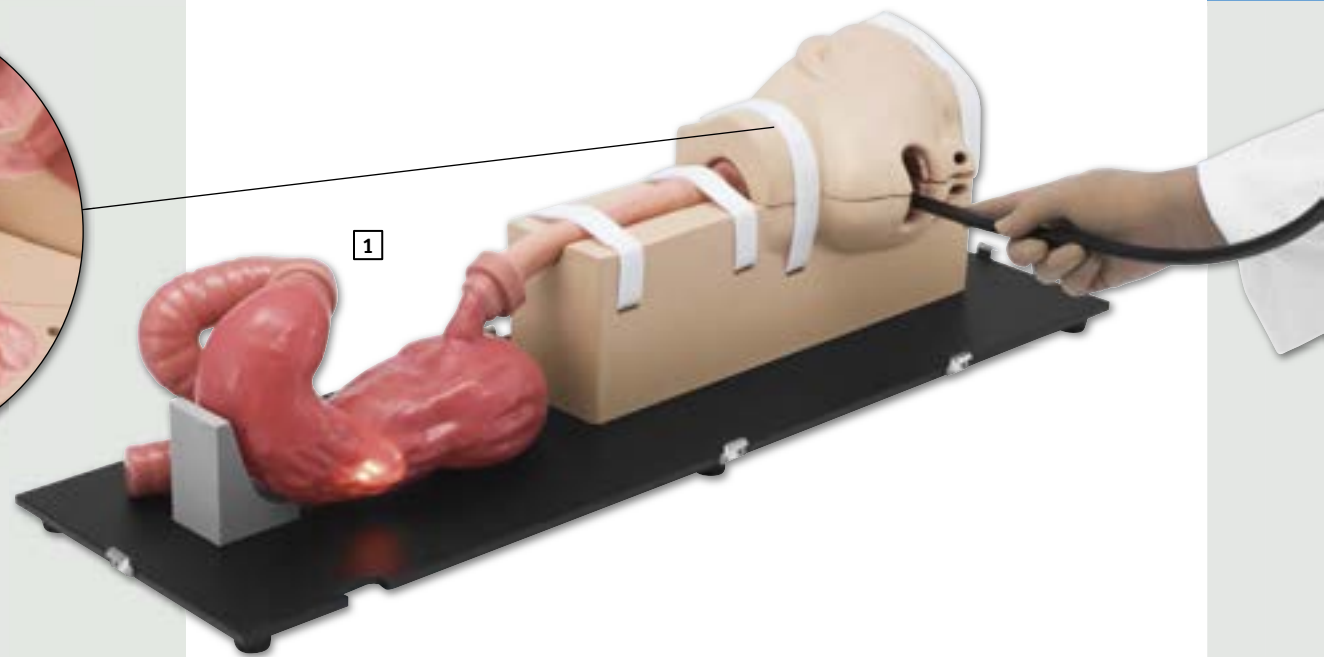
Stomach, ulcer



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



Case

## 1 Colonoscopy training model ▶

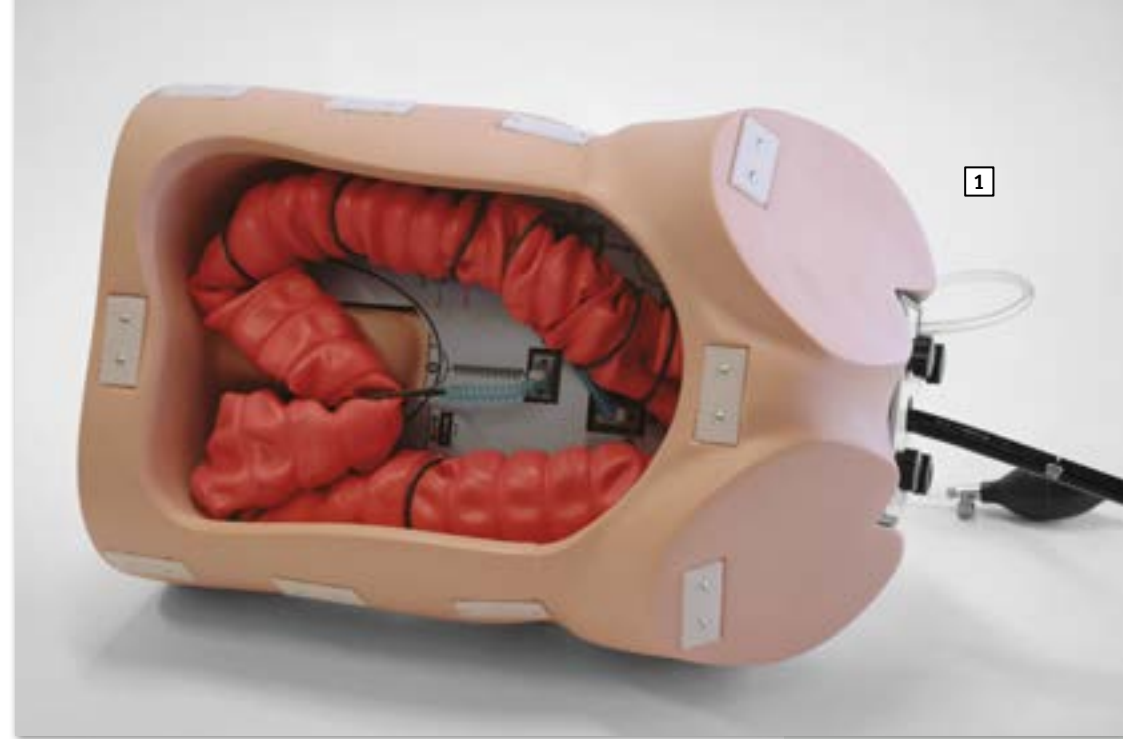
Soft and floppy colon with airtight structure allows realistic colonoscopy insertion and withdrawal training with air insufflation/suction functions and maneuver techniques which reduce patients' pain and discomfort in the examination procedures. Human colons are organs which move in our abdomen and 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 colonoscopy 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**





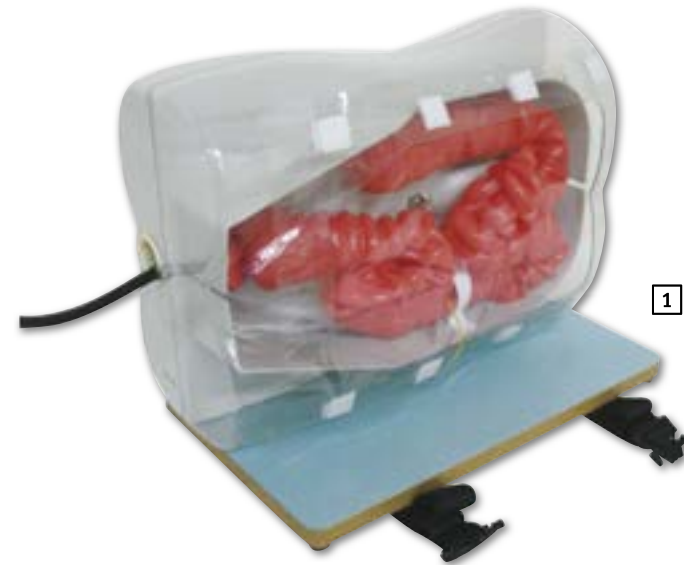
## 1 Colonoscopy Simulator ▶

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:

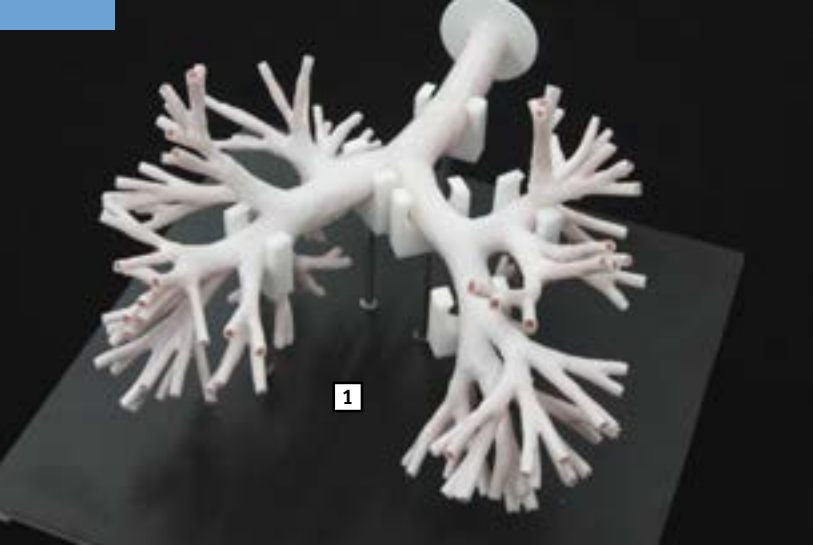
- Practical training for the double balloon method can be performed
- Practical training for the single balloon method can be performed
- Using each type of balloon enteroscopy, insertion into the large and small intestine and shortening technique can be performed
- The small intestine has a total length 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)
- Ref.no. LM107B



## 3 Optional simulated polyps for polypectomy ▶

- Procedures such as snare resection and clipping hemostasis, can be carried out
- Polyps can be resected with an electrical scalpel, and it will bleed
- The type of the polyp is Yamada classification type IV
- Ref.no. LM107A

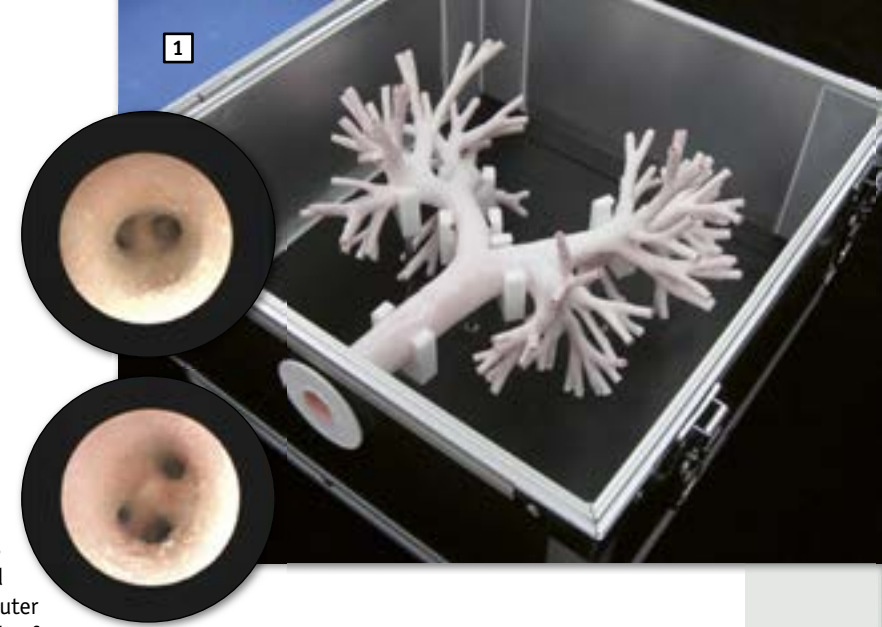




### 1 Bronchoscopy trainer ▶

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.

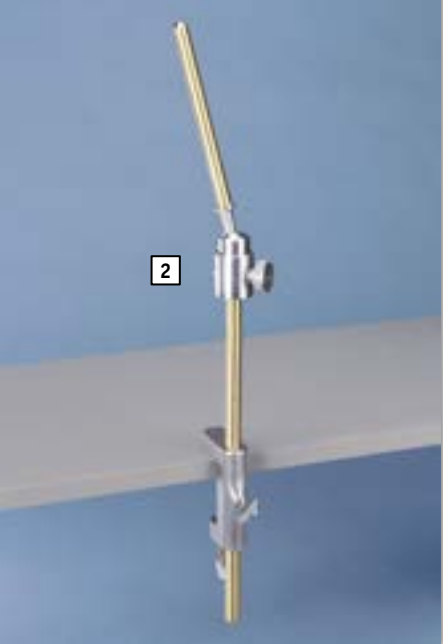
#### Features:

- 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



2

### 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**, **R17001** or **R17002**.

*Weight: 1 kg*

■ Ref.no. R17000A

### 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



1

### 3 Pediatric X-ray dental manikin

This manikin provides simulation of a deciduous dentition (mixed dentition) attached to a chair mounted simulator. The special model design and attachments permit students to learn proper pedodontic radiographic techniques.

*Weight: 1.9 kg*

■ Ref.no. R17002



3

### 4 X-ray dental manikin

This X-ray dental manikin includes a special DENTOFORM® model with radio-opaque metal teeth, flexible finger for holding film, bite-opening instruments, and latex tongue. Includes chair mount.

*Weight: 2.6 kg*

■ Ref.no. R17001



4





### 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, 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. 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. Including a transport and storage case.

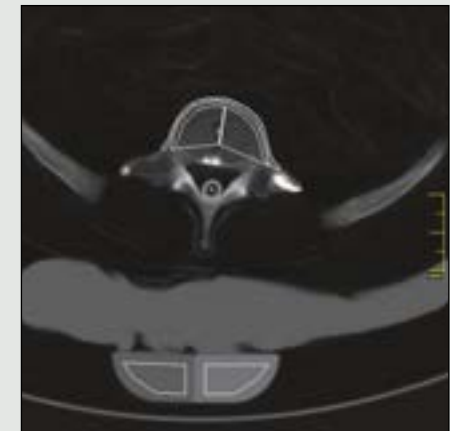
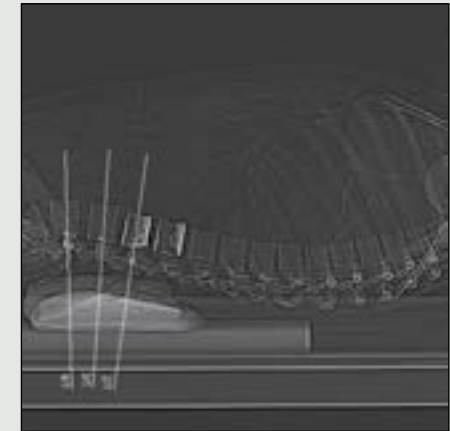
■ Ref.no. 7200

### 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 economic!

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**



**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**





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

NEW!



## 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

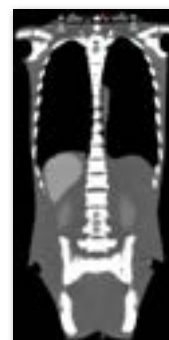
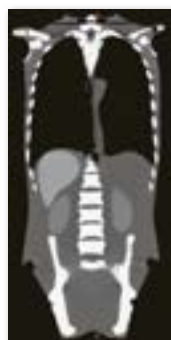
### Phantom materials:

- 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

2





## 1 Pediatric whole body phantom

The new pediatric whole body phantom is modeled after a 4-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)

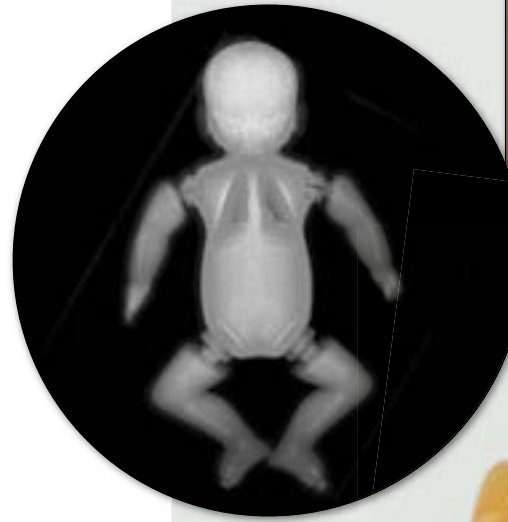
**weight:** 2.8 kg

- 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.

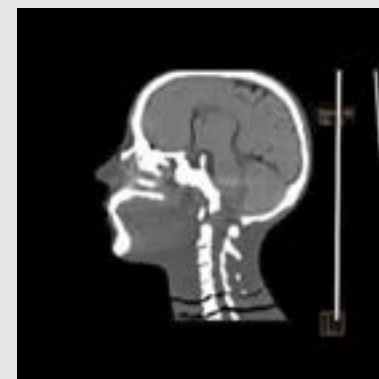
### Internal Organs:

- |                      |                                       |                   |
|----------------------|---------------------------------------|-------------------|
| ■ 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            |                                       |                   |

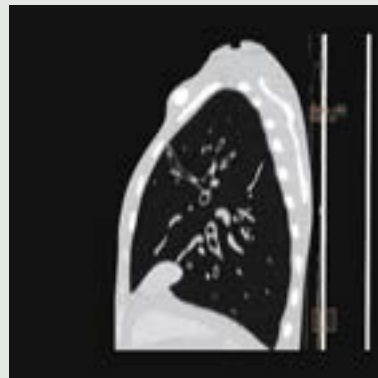
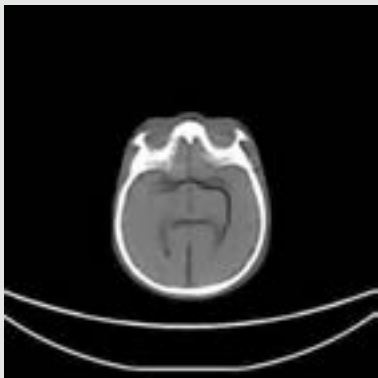
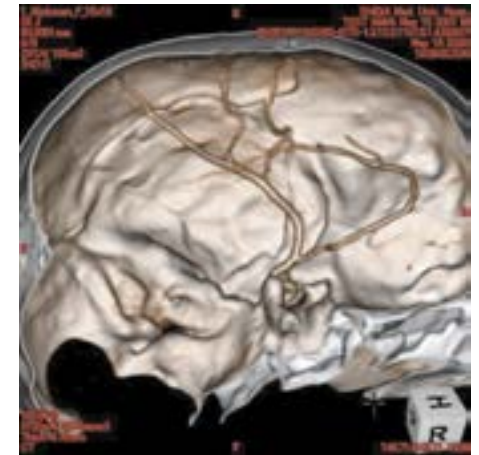
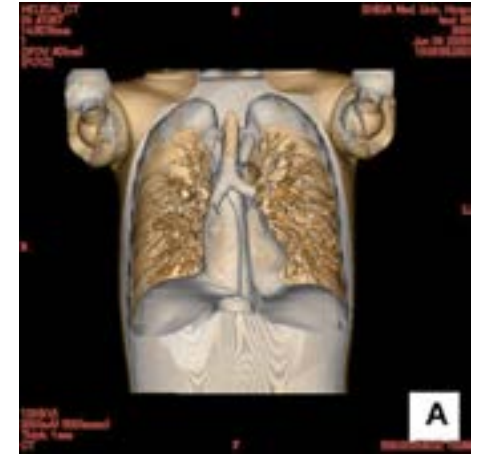
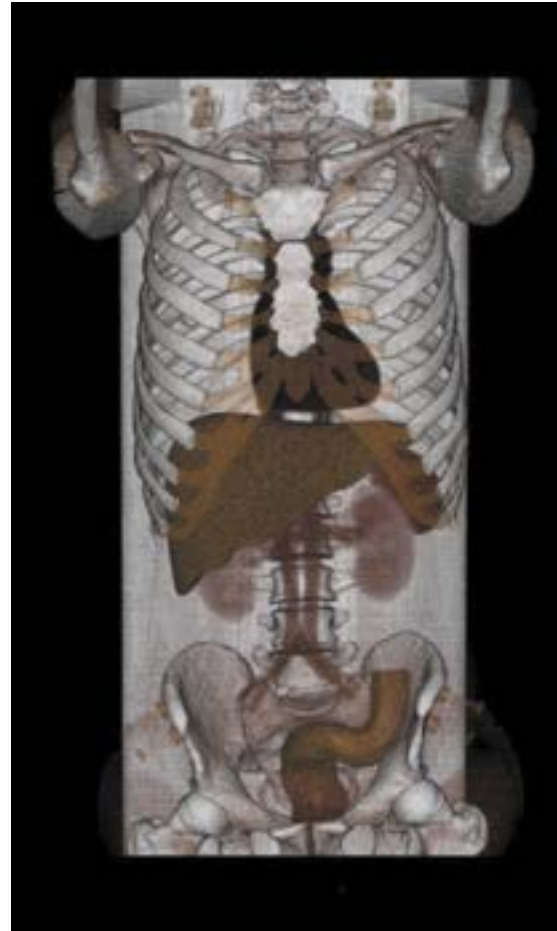
### Phantom materials:

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

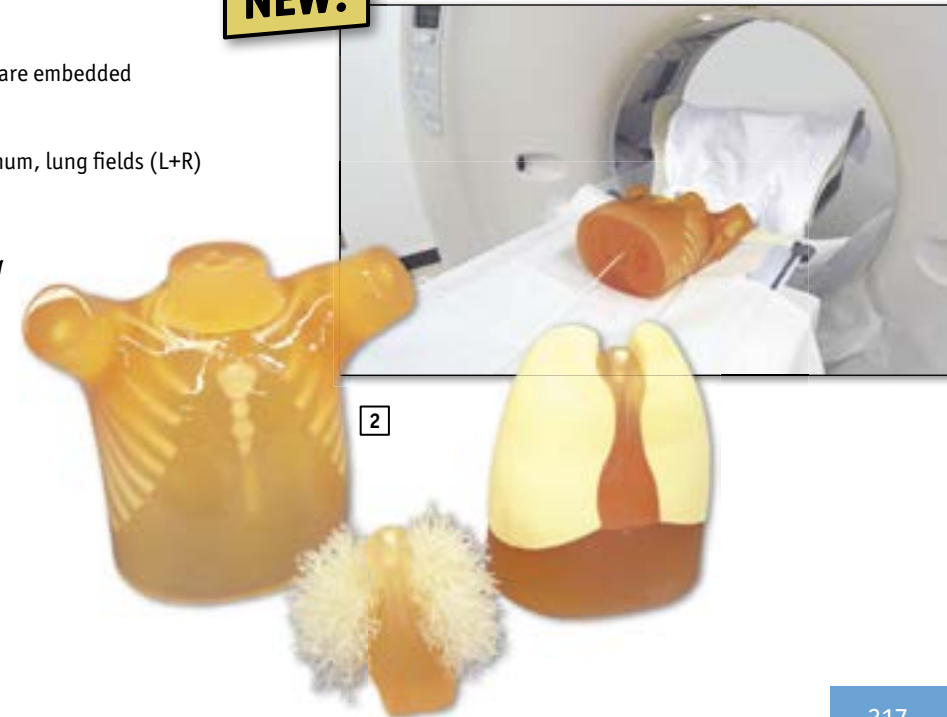
### Set Includes:

- 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

**NEW!**



2



## 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



## 2 Dental radiography head phantom

Removable jaws and tongue allow a variety of application 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

### Specifications

Set Includes: 1 main head unit, 1 upper jaw (alveolar bone), 1 lower jaw (alveolar bone), 1 tongue, 1 fixation base (including screws), 1 tripod, 1 storage case

■ Ref.no. R16525



2



2

NEW!

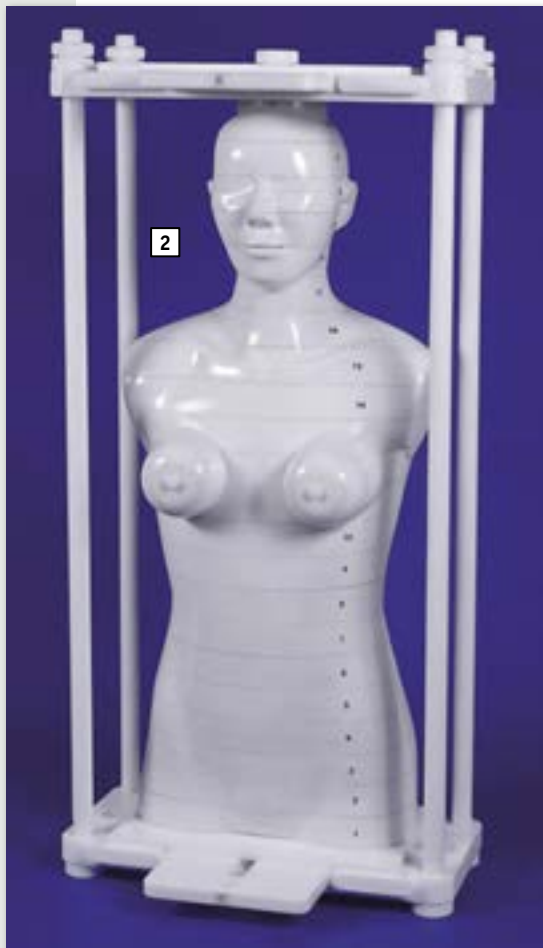


## 1 Lung cancer screening model

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.

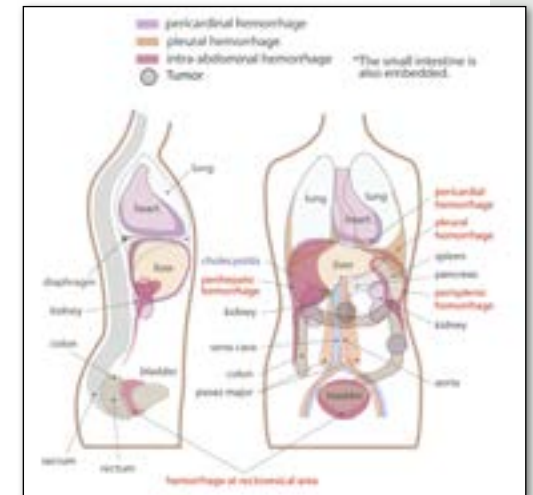
### The images show the following ultrasound images:

- |                                   |                              |
|-----------------------------------|------------------------------|
| 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

NEW!

## 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

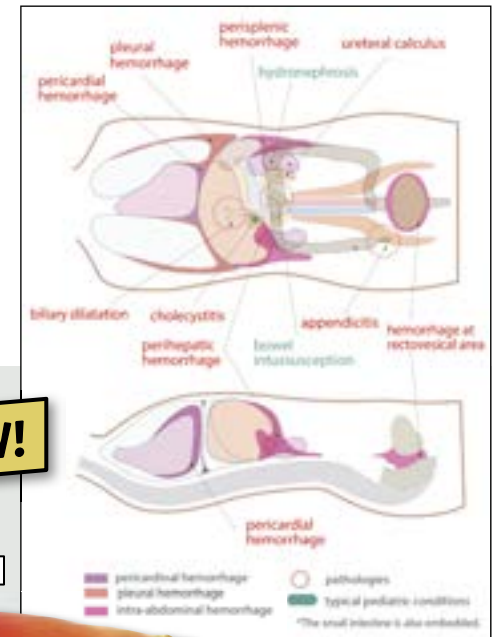
- Internal hemorrhage at perihepatic, perisplenic, pelvis, and pericardium area
- Bowel intussusception, appendicitis and biliary dilatation

### Specifications

Set Includes: 1 ultrasound phantom, 1 storage case, 1 tutorial manual (DVD)

Size: 41 x 15 x 5 cm

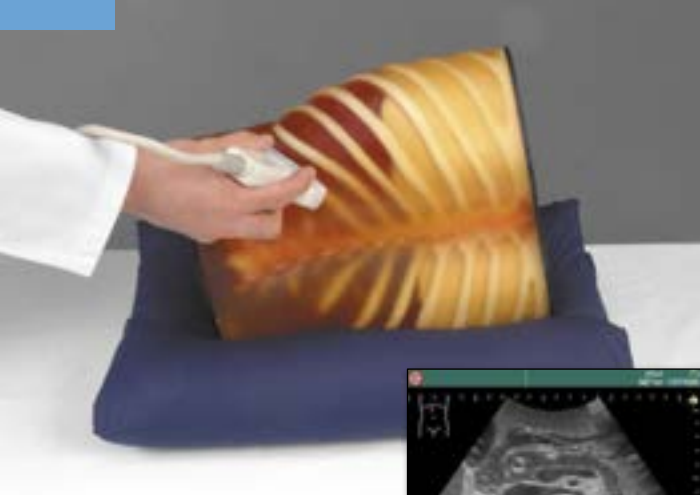
■ Ref.no. R16591



NEW!

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 (Couinnaud’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.

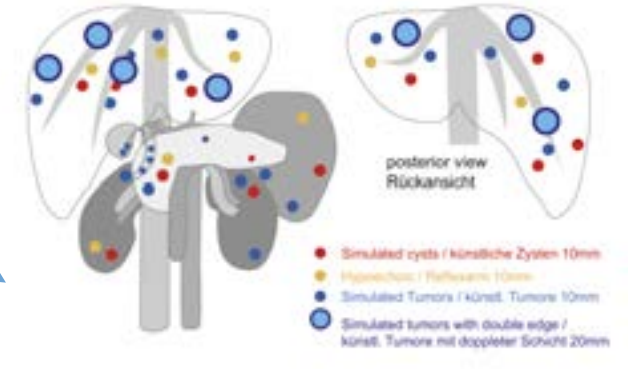
**Size: 28 x 25 x 18 cm, weight 12 kg**

**Ultrasound model**

■ Ref.no. R16570

**Set ultrasound model and anatomical model**

■ Ref.no. R16570/1



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



2

## 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

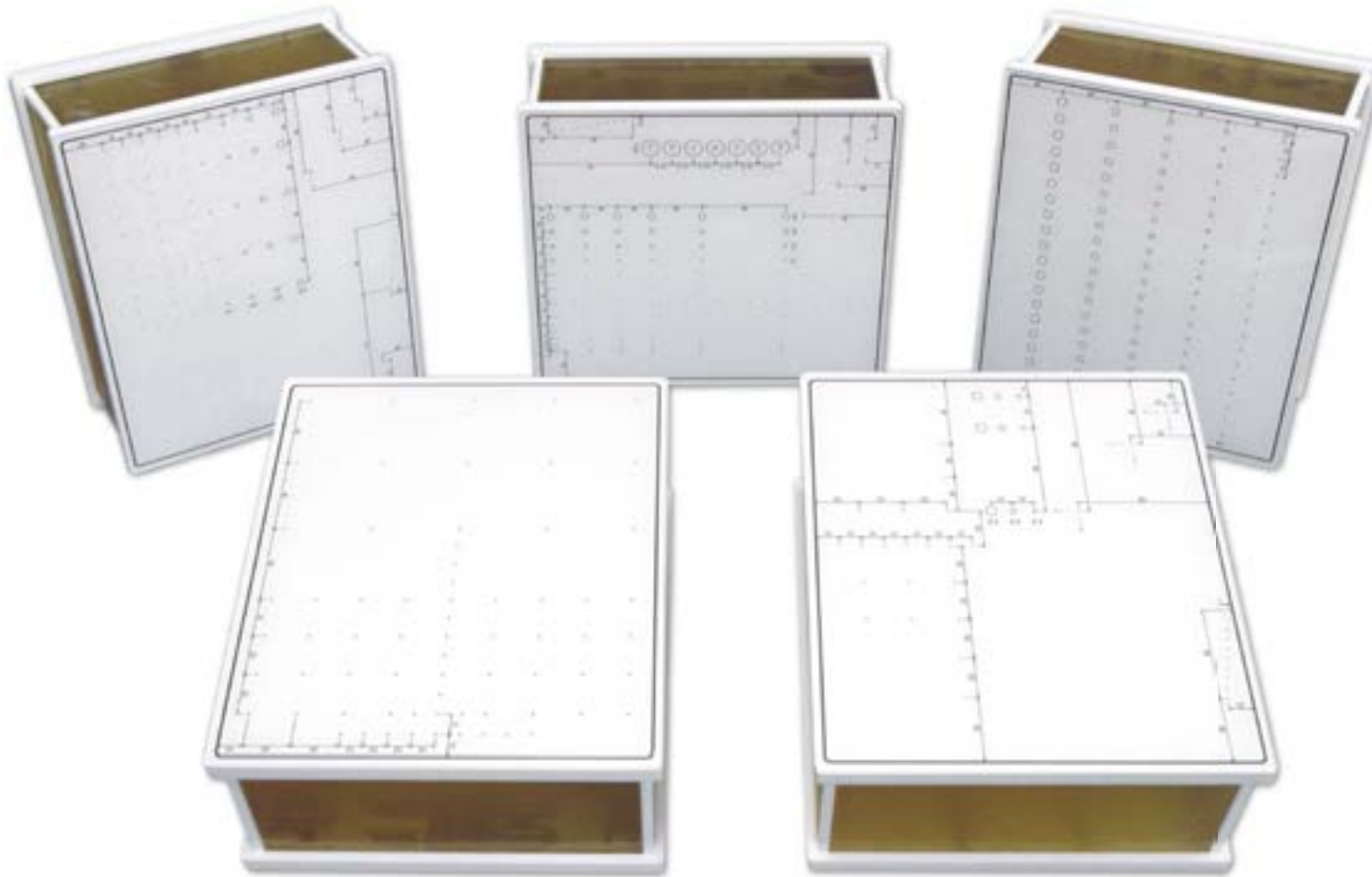
**Includes 2 phantoms:**

- 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 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.

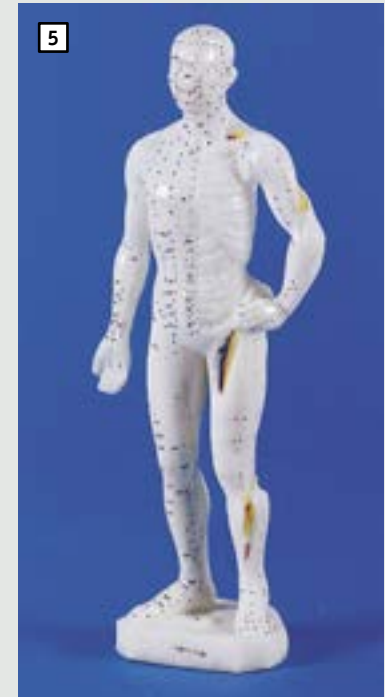
**Size:** 19 x 22 x 7 cm

■ 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

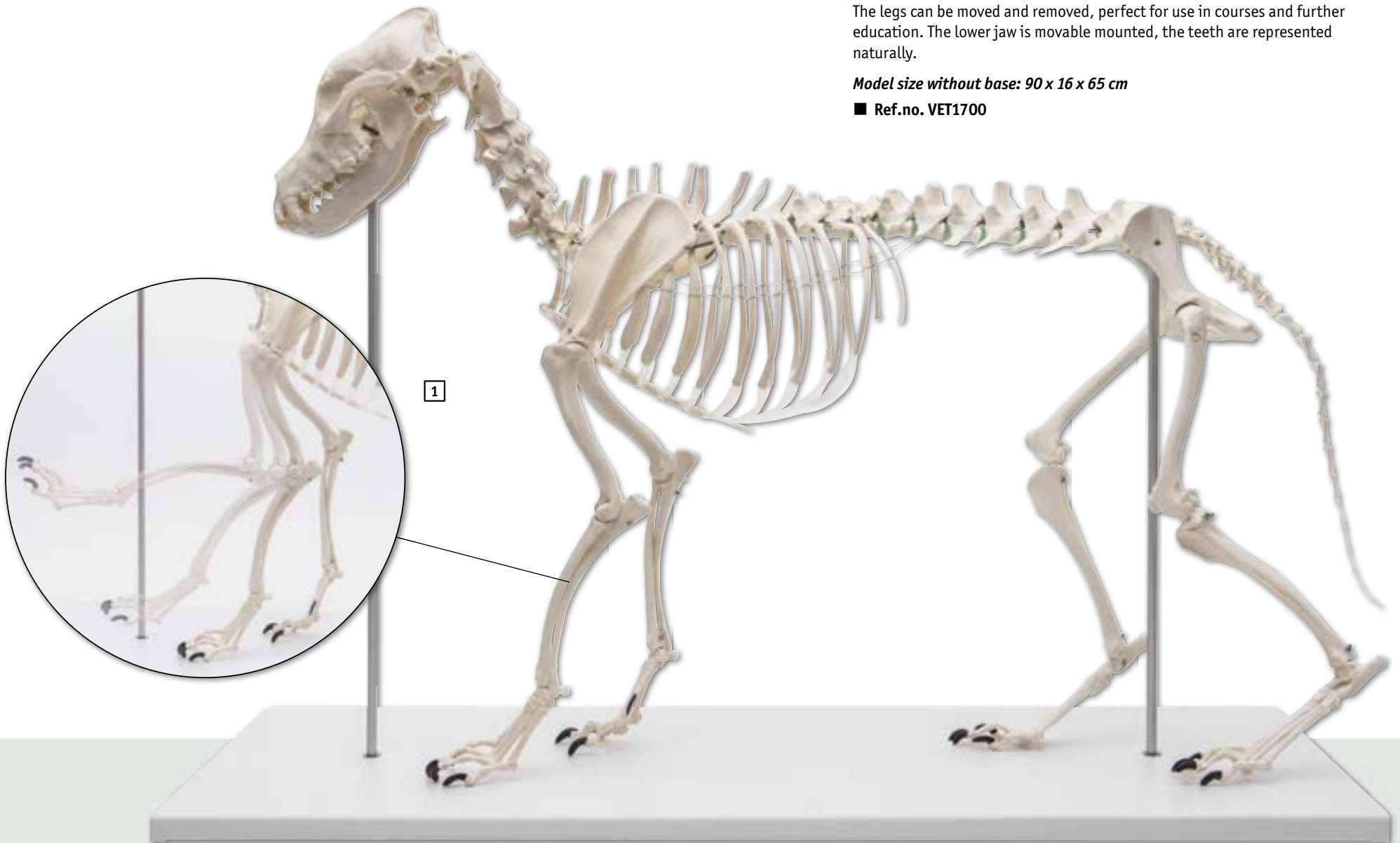
■ Ref.no. 2060

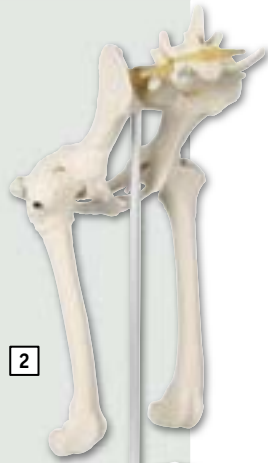
▼ **1 Dog skeleton, life size**

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





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



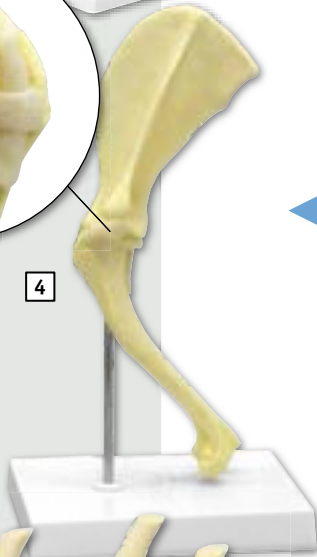
4

## 4 Canine shoulder

Average size dog shoulder with scapula, humerus, biceps brachii tendon, coracobrachialis tendon, lateral glenohumeral ligament, medial glenohumeral ligament and transverse humeral ligament.

*Size: 28 x 8 x 5 cm*

■ Ref.no. VET1075



## 1 Canine knee

Average size dog knee with femur, fibula, patella and tibia bones; lateral and medial meniscus; anterior and posterior cruciate ligaments; plus six more ligaments and tendons.

*Size: 5 x 9 x 18 cm*

■ Ref.no. VET1050



1

## 3 Canine elbow

Healthy left elbow of average size dog includes: humerus, radius and ulna bones; plus 6 ligaments.

*Size: 24 x 4.5 x 19 cm*

■ Ref.no. VET1070



3

## 5 Canine vertebral column

Vertebral column of average size dog features 5 lumbar vertebrae and discs, caudal (tail) vertebrae and sacrum.

*Size: 20 x 5 x 5 cm*

■ Ref.no. VET1080

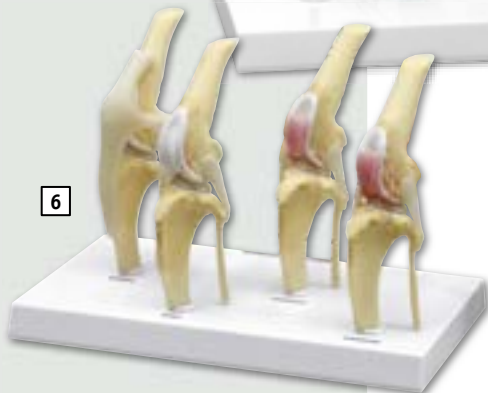


5

## 6 Canine knee with disease stages

Set of four life size models illustrate degenerative joint disease (osteoarthritis). Disease free (normal) knee also includes additional important structures including ligaments, tendons and patella. The progressive degeneration of the articular surfaces and the development of osteophytes (bone spurs) is demonstrated in the other three models.

■ Ref.no. VET9051

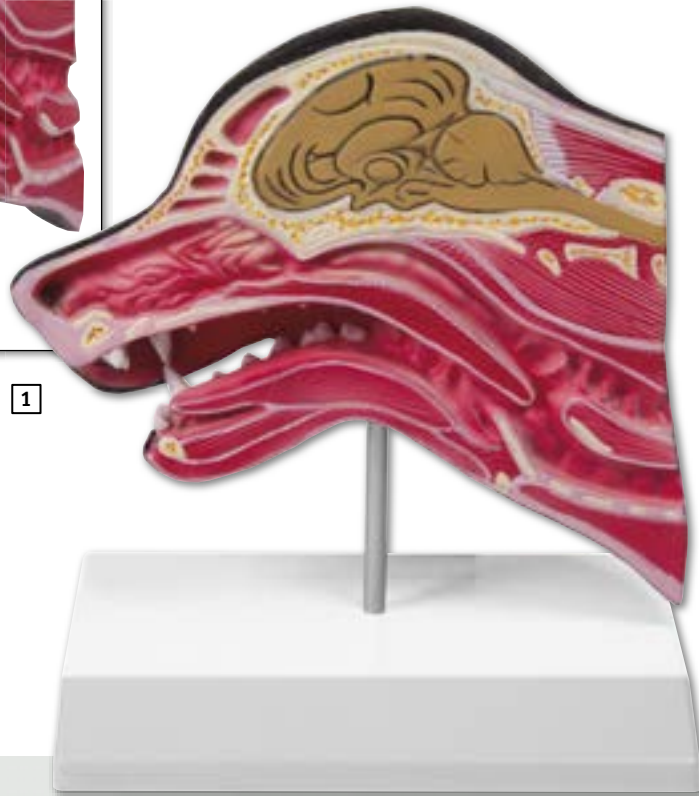


6





1

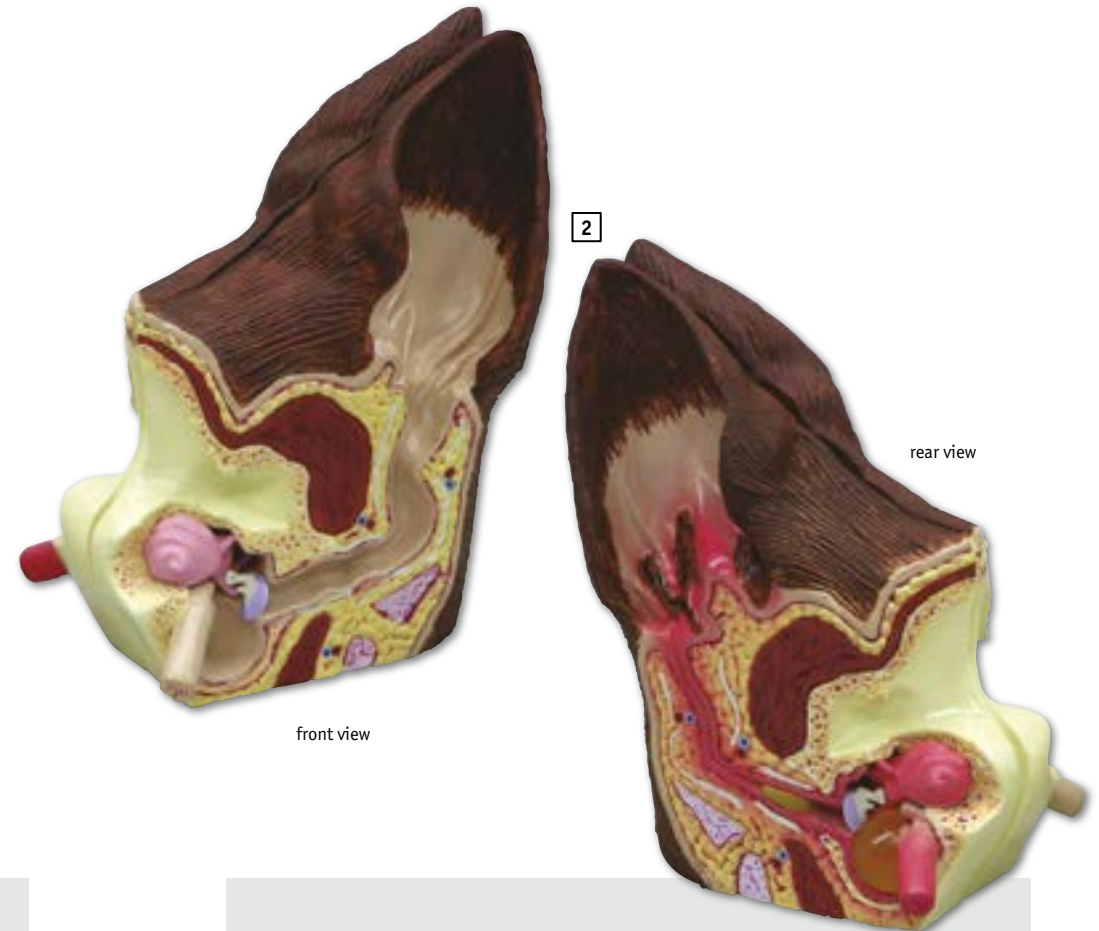


### 1 Median section of a dog head

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



front view

rear view

### 2 Canine ear – normal/infected

This 2-sided, average size, canine ear depicts: 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; abnormal side illustrates inflamed inner ear structures, inflammatory exudate in tympanic bulla, ear canal with partial occlusion from cellular hyperplasia, inflammatory exudate and an inflamed (reddened) outer ear.

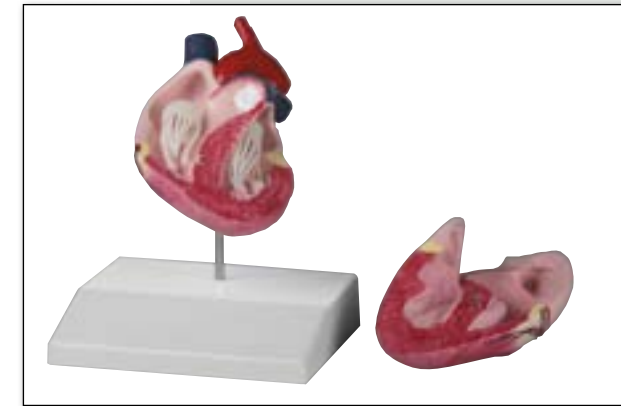
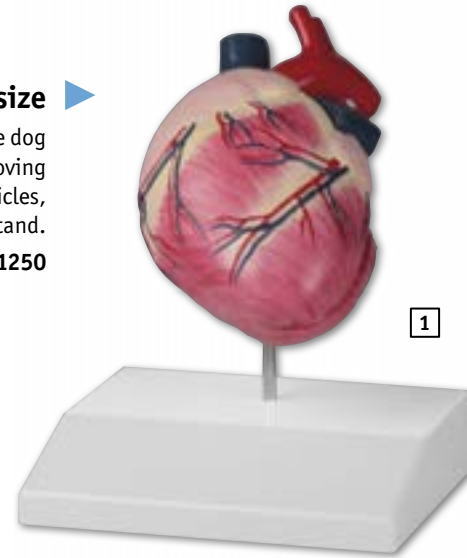
**Size: 12 x 7 x 5 cm**

■ Ref.no. VET1200

### 1 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



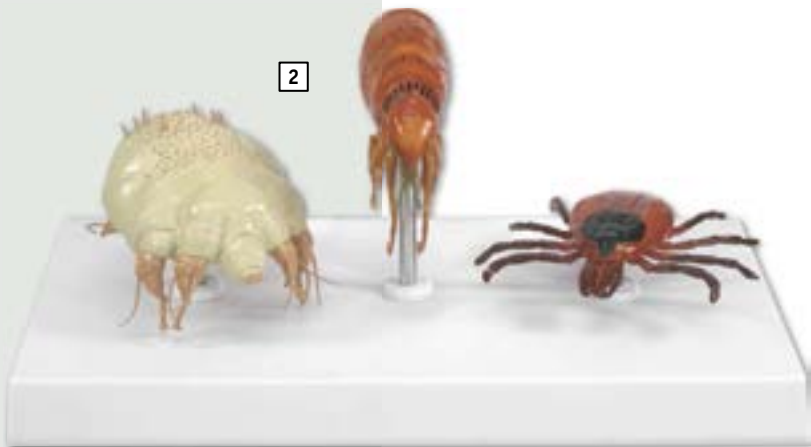
open

### 2 Canine parasites

It is fairly common for a dog to become infected with an external parasite at some point in its lifetime. Parasites can affect your dog in a variety of ways, ranging from simple irritation to causing life-threatening conditions if left untreated. Some parasites can even infect and transmit diseases to people. This model here shows in great detail the three most common external parasites a mite, flea, and tick.

*Size: appr. 27 x 16 x 15 cm*

■ Ref.no. VET9095

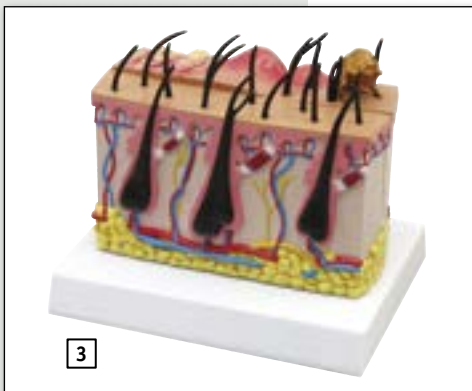
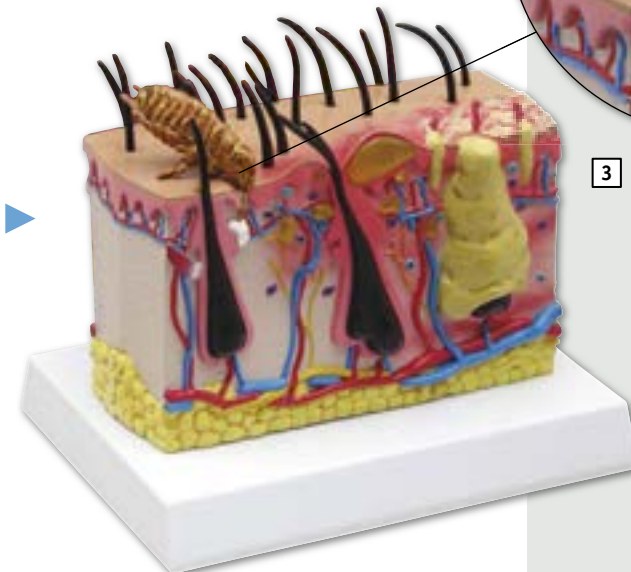


### 3 Canine skin with flea

Enlarged cross section of a canine (dog) skin. One side features normal skin anatomy extending from the epidermis down to the layer of subcutaneous fat. Side two demonstrates the progressing changes of a flea bite from wheal to infected pustule. With educational card.

*Size: appr. 14.5 x 11.5 x 8 cm*

■ Ref.no. VET9090



rear view



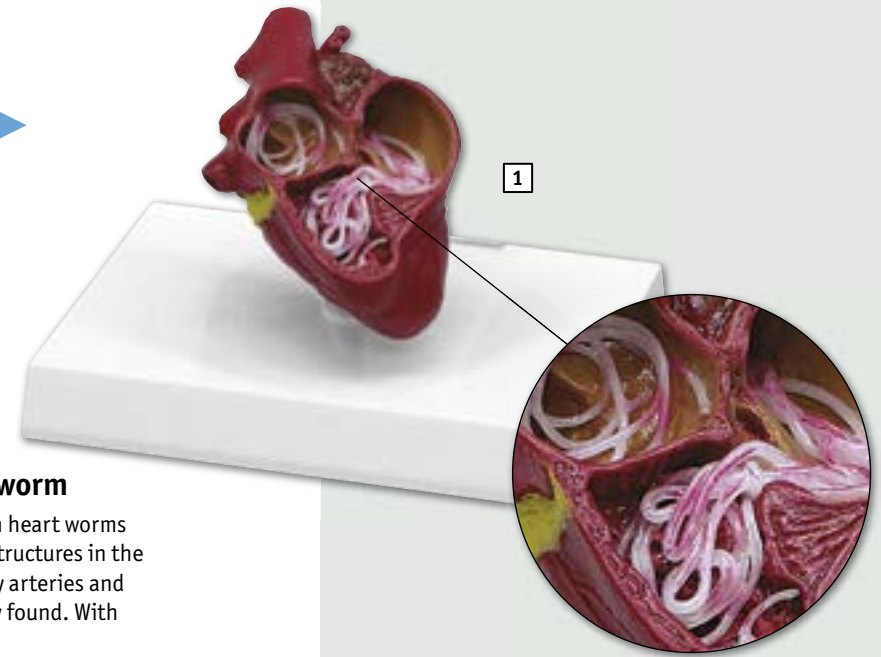
2

### 1 Canine heart with heartworm

Cut-away view of an average size dog heart with improved decoration of arteries, fat and 3 sections of heartworm parasites.

*Size: 7.5 x 9 x 11 cm*

■ Ref.no. VET1150



1

### 2 Canine heart and lung with heartworm

Average canine (dog) heart and lungs infested with heart worms (*dirofilaria immitis*). Cut away view demonstrates structures in the heart (right ventricle, pulmonary trunk, pulmonary arteries and lungs) where adult-stage heart worms are normally found. With educational card.

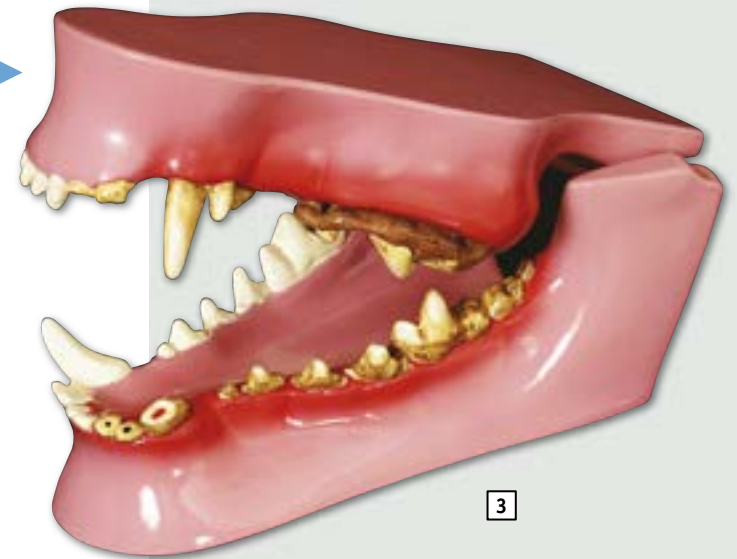
■ Ref.no. VET9151

### 3 Canine jaw

Average size canine jaw depicts healthy teeth on the right side and diseased/damaged teeth on the left. The nine pathologies featured are: fractured canine, periodontal disease, tartar accumulation, plaque, gingivitis, worn incisors, retained deciduous tooth, gingival recession and missing premolar. The jaw may be opened, closed and separated for closer study.

*Size: 12 x 7 x 5 cm*

■ Ref.no. VET1195



3

### 4 Clear canine jaw

Healthy canine hinged jaw showing the roots of all teeth (incisors, canine, premolars, molars). Can be separated for better observation.

*Size: 12 x 7 x 5 cm*

■ Ref.no. VET1196



4





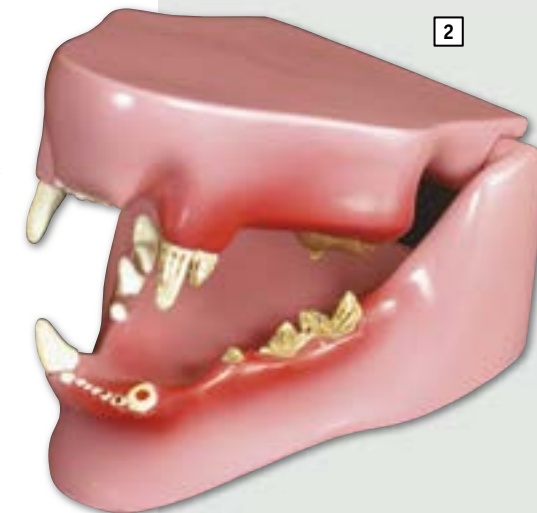
1

### 1 Clear feline jaw

Healthy feline hinged jaw showing all teeth with roots (incisors, canine, premolars, molars). Jaws open, close and separate for closer study.

*Size: appr. 6 x 2.5 x 3 cm*

■ Ref.no. VET9191



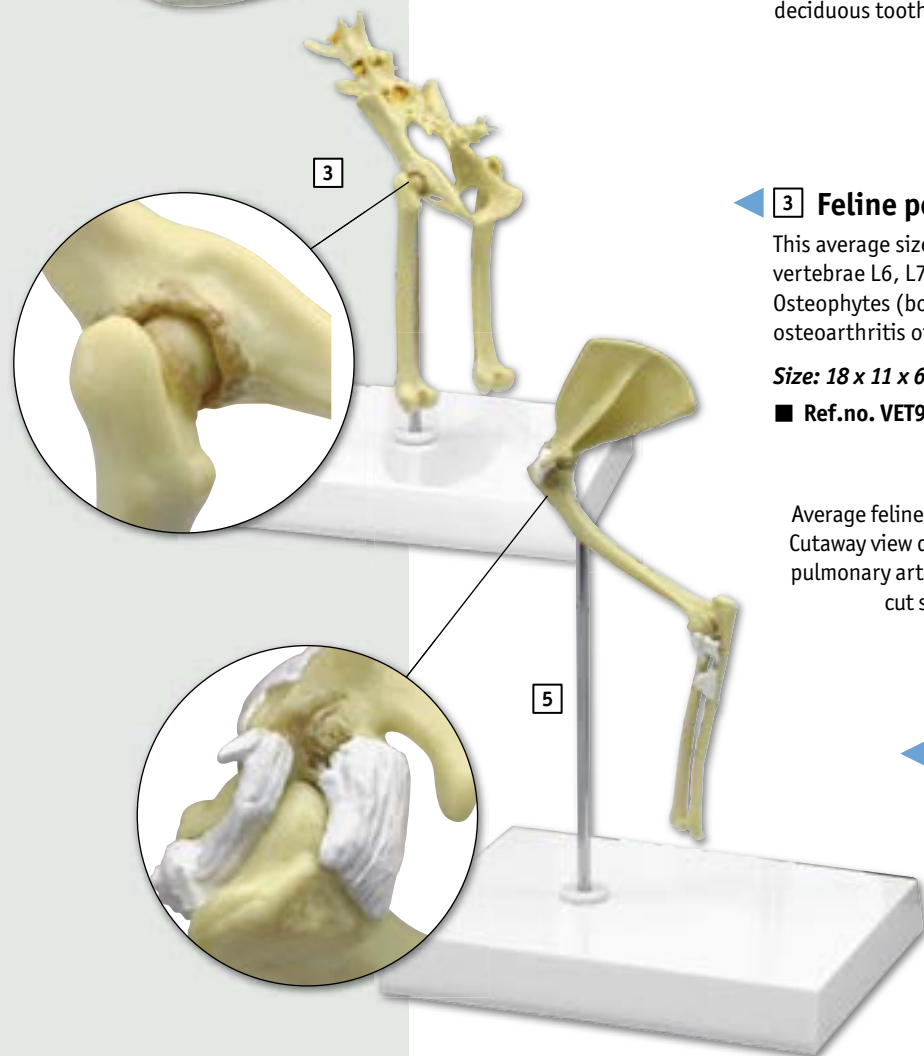
2

### 2 Feline jaw

Average size feline jaw depicts healthy teeth on the right side and diseased/damaged teeth on the left. The eight pathologies featured are: fractured canine, periodontal disease, tarter accumulation, plaque, gingivitis, worn incisors, retained deciduous tooth and missing premolar. The jaw may be opened, closed and separated for closer study.

*Size: 7 x 5 x 3 cm*

■ Ref.no. VET1190



3

### 3 Feline pelvis

This average size feline pelvis features: femur, vertebrae L6, L7, caudal (tail), and spinal cord. Osteophytes (bone spurs) indicate degenerative osteoarthritis of the hip joint.

*Size: 18 x 11 x 6.5 cm*

■ Ref.no. VET9160

5

### 5 Feline elbow/shoulder

Average size elbow and shoulder features: normal bone and osteoarthritic changes to joints. Model includes the following bones: scapula, humerus, radius, ulna and 9 important ligaments and tendons.

*Size: 20 x 10 x 2.5 cm*

■ Ref.no. VET9170



4

### 4 Feline heart/lung

Average feline heart and lungs infested with a single heartworm (*dirofilaria immitis*). Cutaway view demonstrates structures in the heart (right ventricle, pulmonary trunk, pulmonary arteries and lungs) where adultstage heartworms are normally found. The cut section of the lung indicates patches of heartworm-induced irritation.

*Size: 9.5 x 7 x 6 cm*

■ Ref.no. VET9141



### 1 Horse model

This decorative model shows the outer body shape on one side, and has a transparent surface on the other side to show inner structures like skeleton and inner organs. Supplied with base.

**Size:** 19 x 15 x 5 cm, **Weight:** 0.2 kg

■ **Ref.no. VET2100**

**2 CPR dog CasPeR**

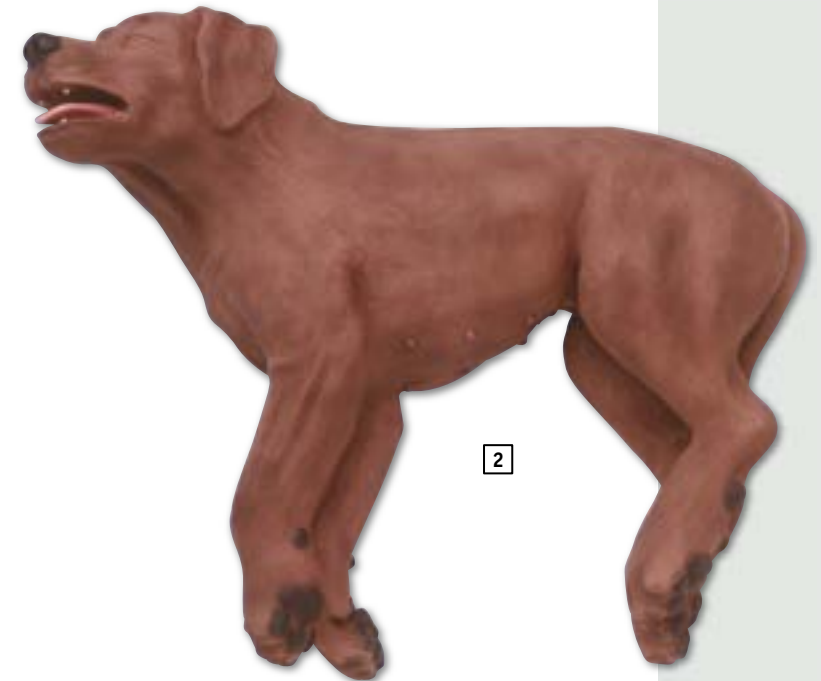
CasPeR the CPR Dog provides training in mouth-to-snout resuscitation with individual-use, disposable airway bags. These economical disposable shield/lung bags eliminate cross contamination between students and the need to disinfect the manikin after every use. This dog manikin can be used to teach proper 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**



### 3 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, six muzzles, 10 nosepieces, and three lower disposable airway.

■ **Ref.no. VET2550**

**Replacement nosepieces, 10pcs**

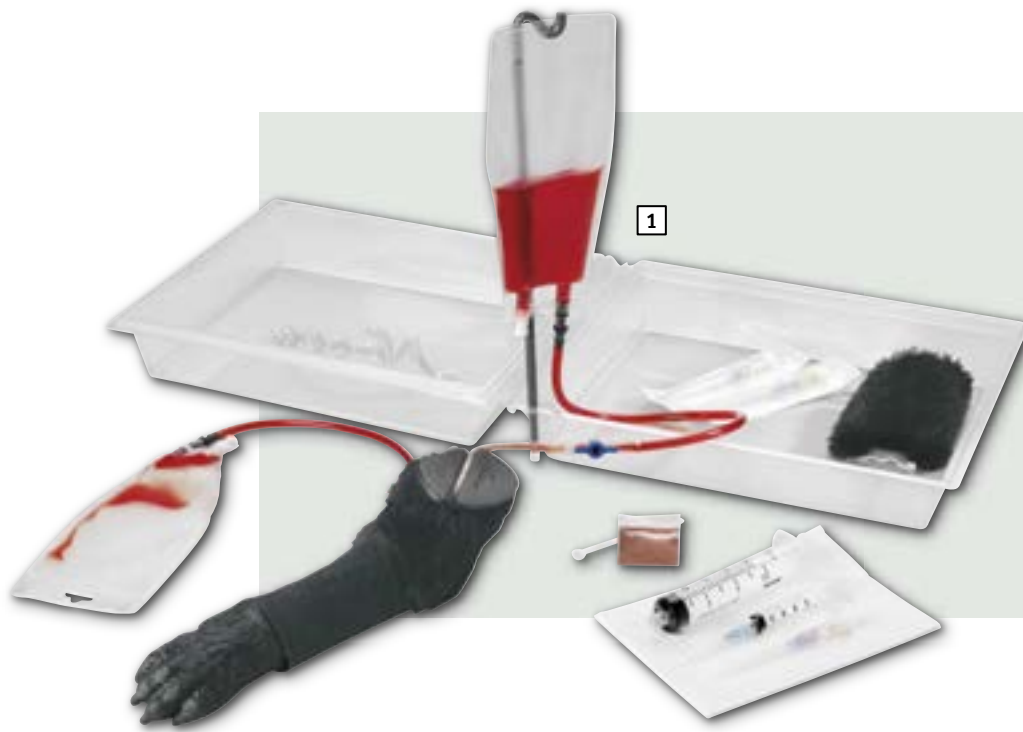
■ **Ref.no. VET2550A**

**Replacement muzzles, 6pcs**

■ **Ref.no. VET2550B**

**Replacement lungs, 10pcs**

■ **Ref.no. VET2550C**



### 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 Laboratory rat simulator

Life-size representation of a rat with anatomically correct skull, larynx, windpipe, stomach, and tail with veins. Training model for handling, medication, orotracheal intubation. Part of the oesophagus and the stomach are visible through a window in the abdominal wall.

■ Ref.no. LM46







## 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 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



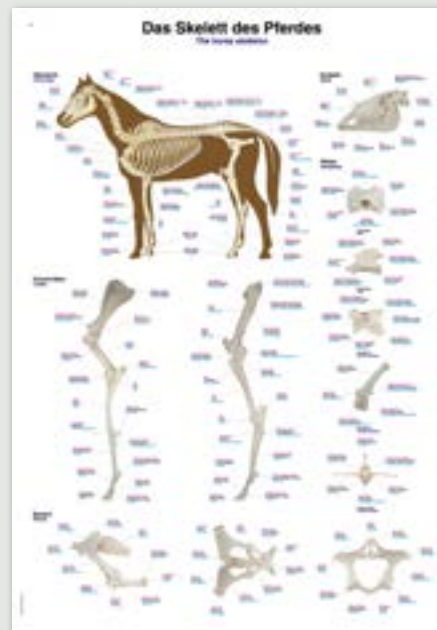
### 6 Chart "The horse skeleton"

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



# Anatomical charts



## 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



## 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

1

## 3 Chart „The human skull“

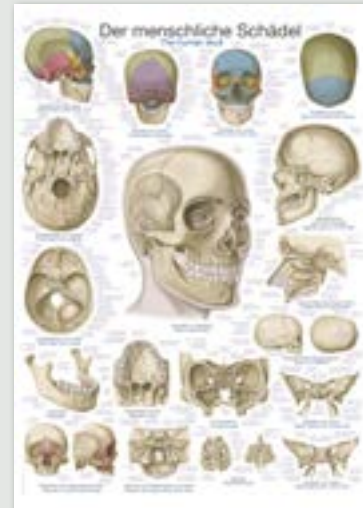
70 x 100 cm, plastic, with metal edging and hanger. German, Latin, English

■ 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

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

4







7 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

7

9 Chart „The lymphatic system“

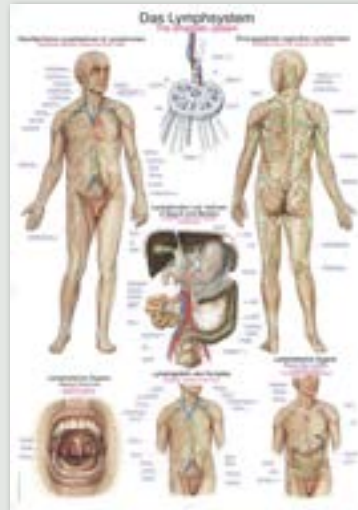
70 x 100 cm, plastic, with metal edging and hanger. German, Latin, English

■ Ref.no. AL109

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

■ Ref.no. AL509

9



8 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

8

10 Chart „Body acupuncture“

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

■ Ref.no. AL110

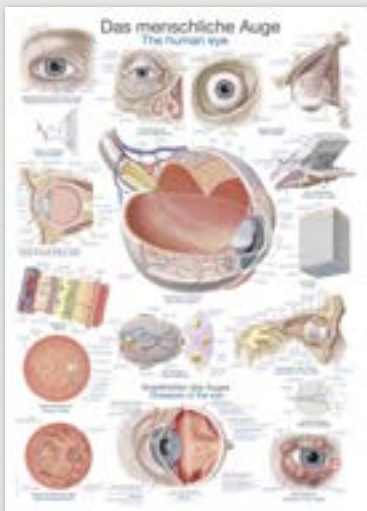
50 x 70 cm, art paper, with rods and hanger. German, English

■ Ref.no. AL510

10



11



11 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

12



12 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

# Anatomical charts



## 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“

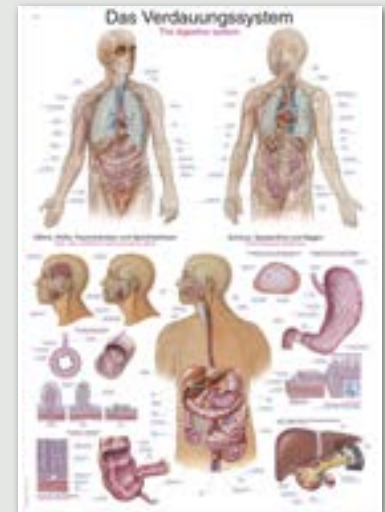
70 x 100 cm, plastic, with metal edging and hanger.  
German, Latin, English

■ Ref.no. AL117

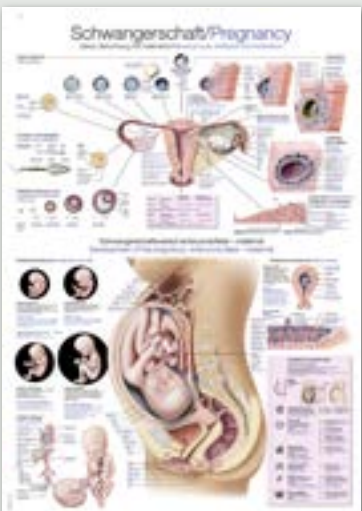
50 x 70 cm, art paper, with rods and hanger.  
German, Latin, English

■ 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“

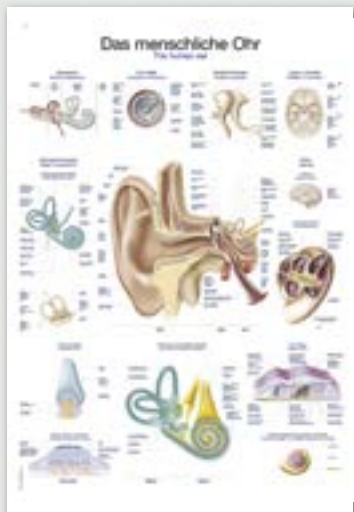
70 x 100 cm, plastic, with metal edging and hanger.  
German, English.

■ Ref.no. AL119

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

■ Ref.no. AL519





7 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



8 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

7

9 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

9



8

10 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.

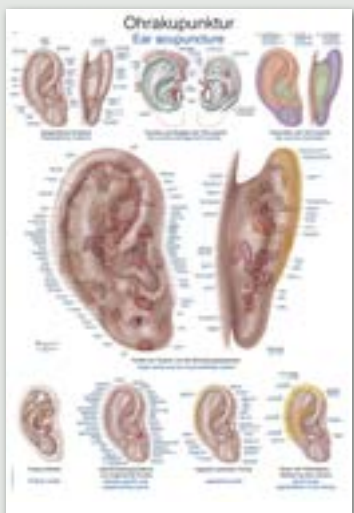
■ Ref.no. AL524

10



**NEW!**

11



10 Chart „Ear acupuncture“

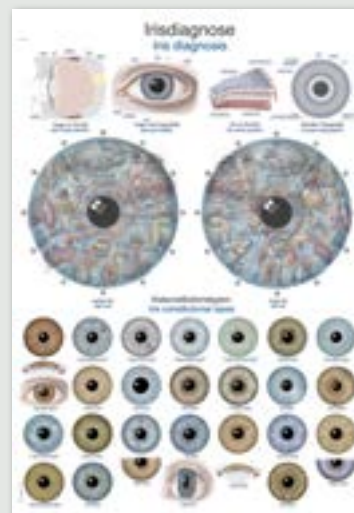
70 x 100 cm, plastic, with metal edging and hanger.  
German, English

■ Ref.no. AL125

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

■ Ref.no. AL525

12



12 Chart „Iris diagnosis“

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

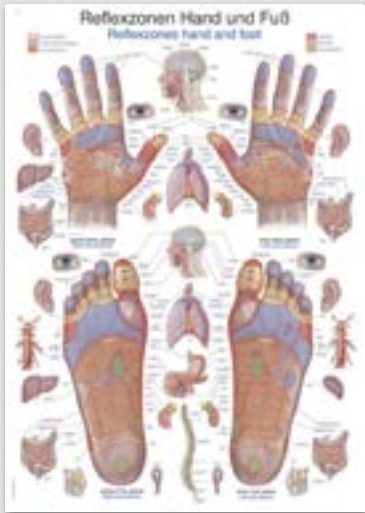
■ Ref.no. AL126

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

■ Ref.no. AL526



# Anatomical charts



- 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



7 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



8 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

7

9 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

9



8

10 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

10



11



11 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

12



12 Chart „Dental anatomy“

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

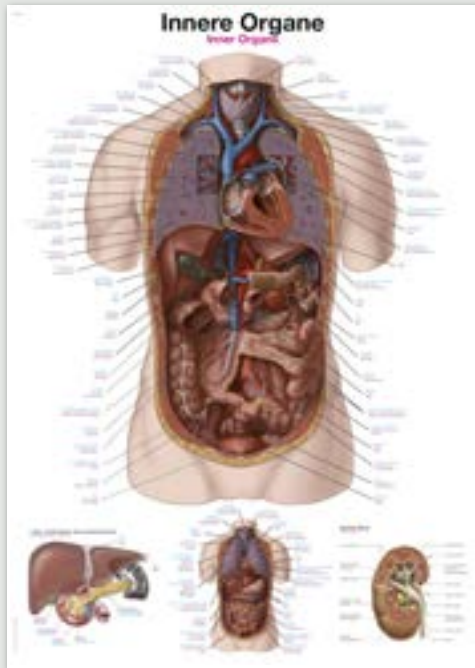
■ Ref.no. AL162

50 x 70 cm, Art Paper, with rods and hanger.  
German, Latin, English

■ Ref.no. AL562

# Anatomical charts

1



## 1 Chart „Internal organs“

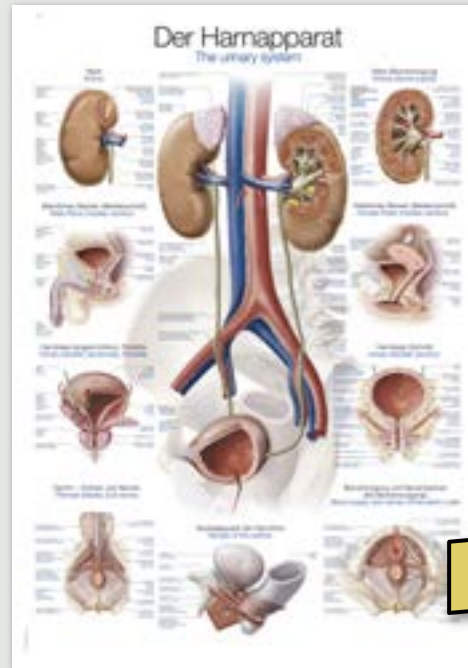
70 x 100 cm, plastic, with metal edging and hanger. German, Latin, English

■ Ref.no. AL163

50 x 70 cm, Art Paper, with rods and hanger. German, Latin, English

■ Ref.no. AL563

2



**NEW!**

## 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



**NEW!**

## 3 Chart „The Blood“

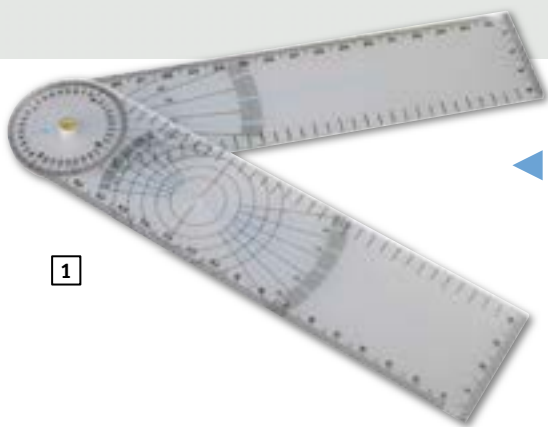
70 x 100 cm, plastic, with metal edging and hanger. German, English.

■ Ref.no. AL165

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

■ Ref.no. AL565





1

1 **Goniometer**

Plastic

■ Ref.no. WM15

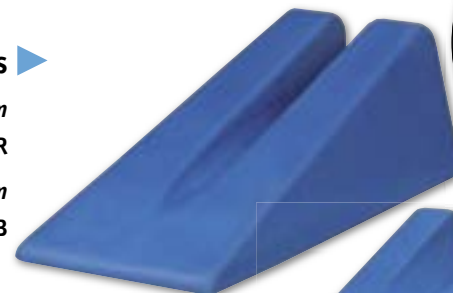
2 **Mobilisation wedges**

Size: 155x95x50 mm

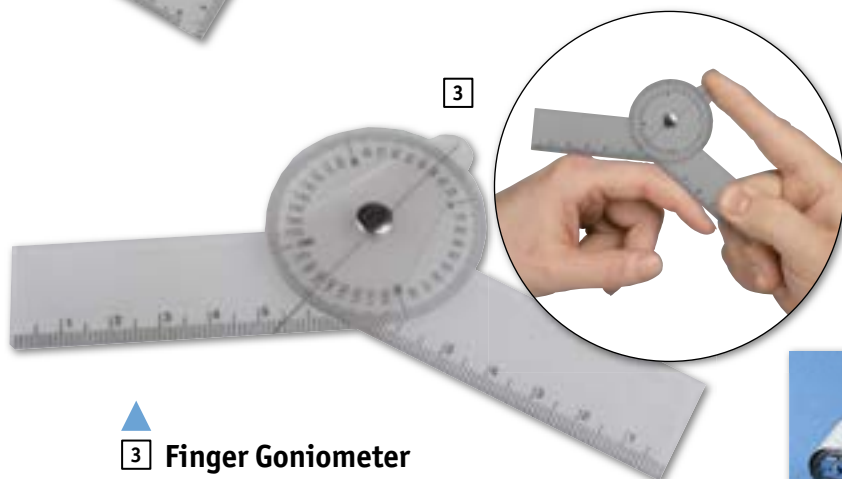
■ Ref.no. MOBI1R

Size: 220 x 105 x 80 mm

■ Ref.no. MOBI2B



2



3

3 **Finger Goniometer**

Plastic

■ Ref.no. WM25



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

6 **Retaining strap**

(banana belt) in leather

■ Ref.no. 5410



6

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

Testis models can be found on page 114



Head section folds down vertically



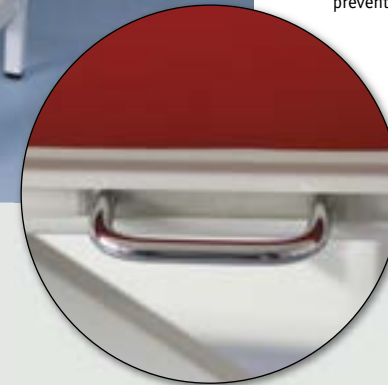
Now with security switch to prevent unauthorized use



Hand switch



Foot switch



Choose your upholstery color from the color table on page 348.

## The Praxis treatment table

An extremely robust treatment table for professional daily use.

**The following features make this table the first choice for your practice:**

- Noiseless and oscillation-free hinges and a ball-bearing sliding system guarantee easy, reliable height adjustment.
- Can be supplied with an optional electric motor or a foot-operated hydraulic system
- Vertical height adjustment, i.e. no lateral adjustment
- The especially strong electric, raised spindle motor allows height adjustment from 51 to 91 cm in just 17 seconds
- You yourself choose if you prefer a hand- or foot-operated switch for electrical adjustment.
- The table has a surface area of 197 x 66 cm, comfortably upholstered with original Skai artificial leather.
- All corners and edges have soft padding
- The head section with nose slit can be adjusted continuously up to 35° positive and almost 90° negative.
- The frame is equipped with a scratch-proof artificial leather coating
- The legs have leveling adjustment making the table suitable for uneven flooring
- Choose the color at no extra charge for special color from our color chart on page 348.

### 1 With electrical height adjustment

Choose between a hand or foot switch with no extra charge!  
Please state preferred switch type and colour for the upholstery!

■ Ref.no. 1820.15

### 2 With electrical height adjustment

Choose between a hand or foot switch with no extra charge!  
Please state preferred switch type and colour for the upholstery!

■ Ref.no. 1820.25

## ADDITIONAL OPTIONS FOR BENCH "PRAXIS"



### 3 Wheels

to move the couch easily. Adjustable by foot pedal. Make your couch mobile!

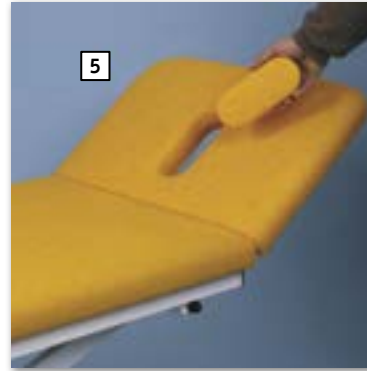
■ Ref.no. 1820.70



### 4 All-round bow

Allows the height of the couch to be adjusted with the foot from all sides. Your hands are free for treatment and you never need to search around for the switch.

■ Ref.no. 1820.40



### 5 Insert for nose slit

Adjusts the nose slit in the head section quickly and simply.

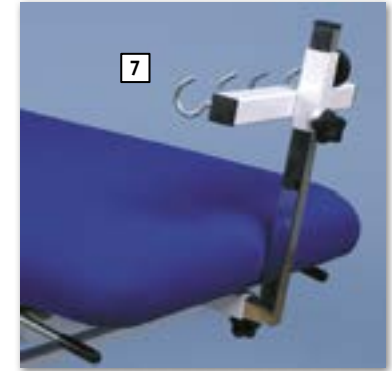
■ Ref.no. 1820.80



### 6 Three-section top

with upward-folding foot section. To raise the legs or to use the couch as a treatment table.

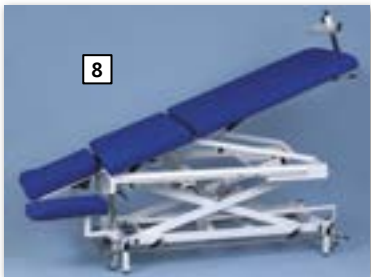
■ Ref.no. 1820.30



### 7 Extension gallows

for extension treatment. Only order if you also have ordered the tilt position!

■ Ref.no. 1820.92



### 8 Top and tilt position

The examining table can be raised continuously to the top position. In addition, the foot section can be adjusted to almost vertical. This allows it to be tilted so that the couch can be used as an extension bench.

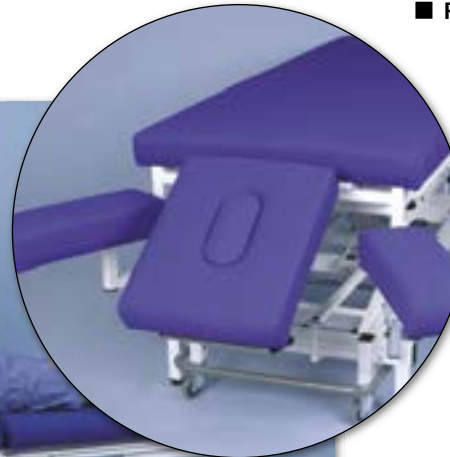
■ Ref.no. 1820.90



### 9 Three-part head section

Head section in three sections with lowerable and swing-out arm rests. Even more comfort for your patients.

■ Ref.no 1820.50



### 10 Holder for paper roll

■ Ref.no. 1820.68

### 11 Paper roll

■ Ref.no. R15134

### 12 Fixing rails

with belt holder

■ Ref.no. 1820.95

### 13 Treatment set

2 shoulder sockets, 1 hip socket and 1 fixing horn.

■ Ref.no. 1820.98



### 14 Extra-wide surface area 80 cm

■ Ref.no. 1820.60 (not pictured)

### 15 Luxury upholstery

Especially thick and soft upholstery

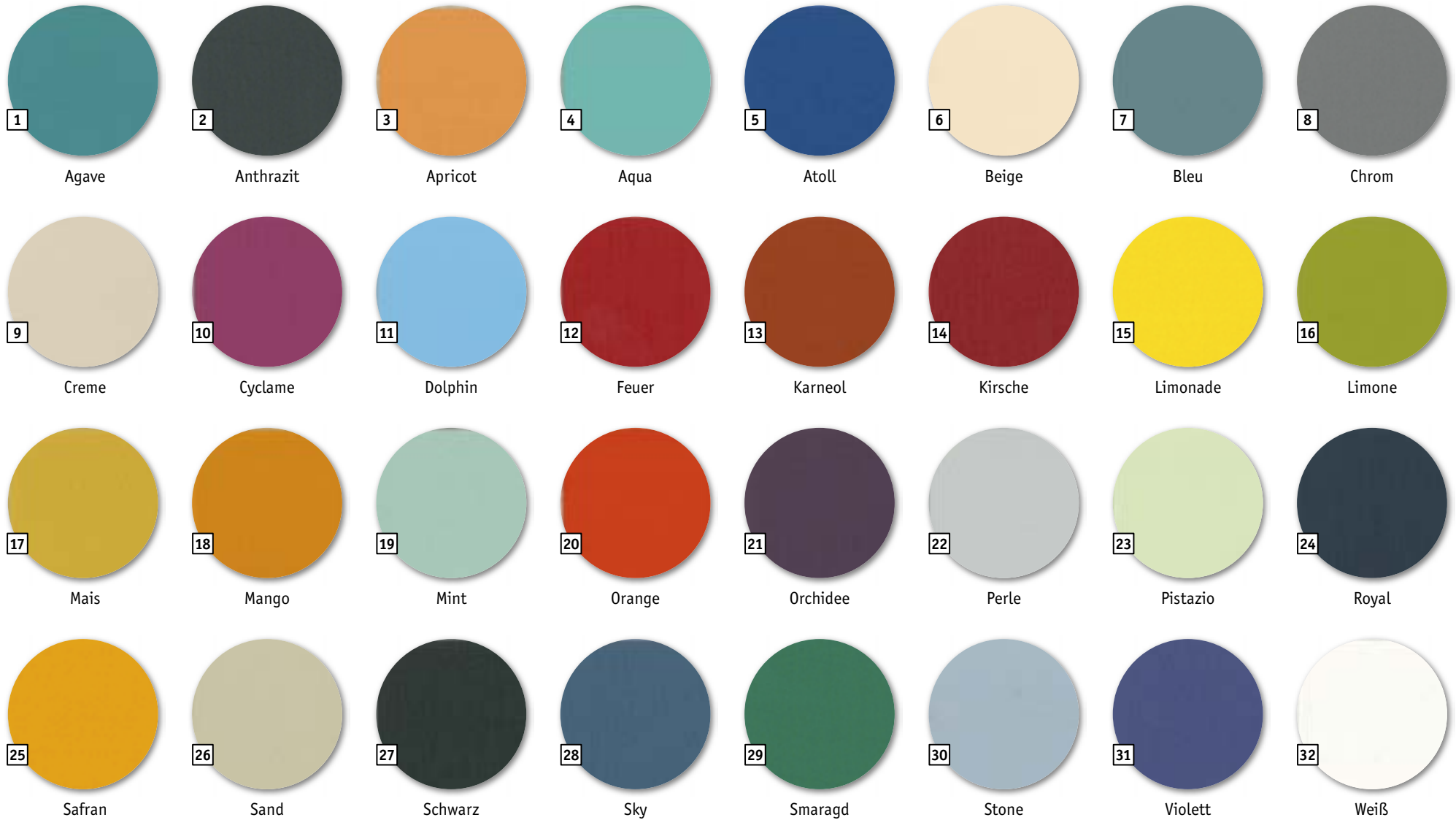
■ Ref.no. 1820.65 (not pictured)

### 16 Motor option for top and tilt position

■ Ref.no. 1820.91 (not pictured, see 8)



# Upholstery colors for treatment bench "Praxis" (page 346)



Please notice that the colors may differ from the actual colors due to printing technology reasons.



Product replicas



## Customized solutions

We produce customized products, especially adjusted to your needs. Our long-time experience makes it easy for you to find a creative solution for your needs.

**Ask our sales team, we are pleased to help you.**



Implant presentation

Presentation aids

Product launch aids

Embedding



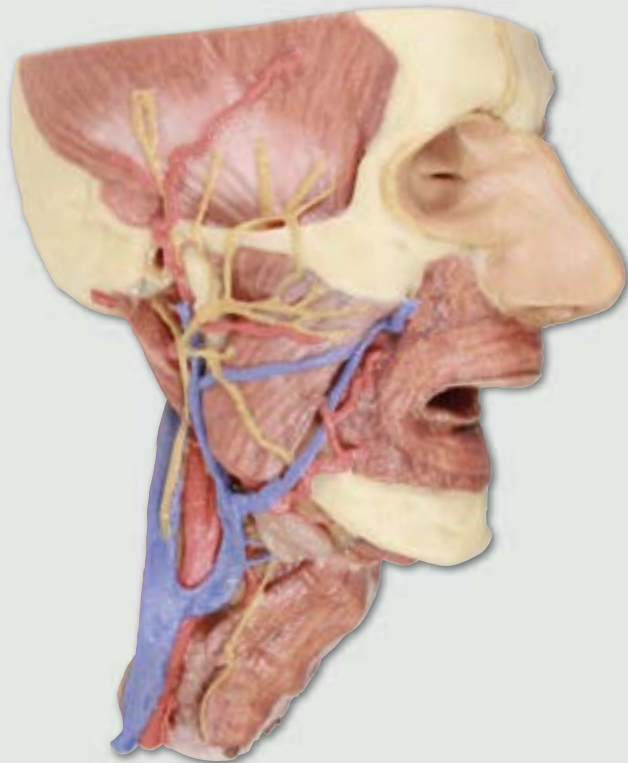
# Experience the revolution in anatomy!

Body replicas are detailed reproductions of real human specimens. Finally you can create a complete anatomical collection without the need of human cadavers.

- Use real human anatomy without the ethical issues of real specimen.
- Each replica can be produced as often as required and is immediately available for you.
- The didactical color of the structures supports you to explain them easily.
- Spares your budget, because body replicas are remarkably lower in price than real specimen.
- You will not need special storage facilities, cooling or specific containers.







## 3D Anatomy Series

Choose from 60 specimen out of the Monash University anatomical collection. Additionally more reproductions taken from the pathology collection will be available soon.

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## Table of content

Acupuncture.....	326 - 327	Dialysis .....	237	IV injection .....	217 - 223	Sense organs .....	073
Adipositas.....	73, 196	Digestive system .....	108	Joists .....	058 - 065	Skeletons .....	004 - 017
Adult nursing manikins.....	163 - 171	Ear .....	086 - 087	Kidney .....	103 - 104	Skin .....	081 - 083
Aged simulation .....	194 - 195	Ear examination .....	198 - 201	Laparoscopy.....	298 - 300	Skin suture.....	292 - 296
Airway management .....	245 - 255, 270 - 271	ECG.....	281	Larynx .....	090 - 091	Skulls.....	038 - 049
Arm .....	051, 070	Emergency backpacks.....	205	Leg.....	055, 070	Spines.....	022 - 031
Arterial puncture .....	230	Enema simulator .....	172	Liver .....	105 - 107	Stethoscope .....	211
Artery .....	102	Eye .....	084 - 085	Lumbar puncture.....	212 - 216	Stoma care.....	173 - 174
Arthroscopy trainer .....	297	Eye examination .....	197, 202 - 203	Lung.....	092 - 094	Stomach .....	107 - 109
Auscultation.....	206 - 211	FAST phantom .....	320 - 321	Male genital organs .....	114 - 115	Testicle examination .....	147, 149
<b>Baby nursing manikins .....</b>	<b>153 - 160</b>	Female genital organs .....	116 - 117	Megacode training.....	272 - 280	Thoracic trauma .....	238 - 239
Bandaging simulator.....	172	Foot.....	054 - 057	Musculature .....	068 - 070	Thoracentesis .....	240 - 242
Birth.....	119, 123 - 134	Foot care .....	186 - 189	<b>Nervous system.....</b>	<b>074 - 080</b>	Thorax drainage.....	240
Blood pressure simulation.....	204	<b>Gastric endoscopy .....</b>	<b>300 - 301</b>	Nose .....	072	Thyroid gland .....	091
Brain .....	074 - 080	Goniometer .....	345	<b>Orchidometer .....</b>	<b>345</b>	Tooth .....	088 - 090
Breast examination .....	141 - 146	Gynecological examination .....	136 - 135	Osteoporosis .....	032 - 033	Torso .....	066 - 067
Bronchoscopy.....	304	<b>Hemorrhoids .....</b>	<b>111</b>	<b>Pancreas.....</b>	<b>105</b>	Tracheostomy care.....	179 - 181
<b>Casualty simulation.....</b>	<b>286 - 292</b>	Hand .....	050 - 053	Pelvis.....	018 - 021	Tube feeding.....	182
Catheterization.....	190 - 194	Head.....	071	Peripheral access .....	234 - 235	<b>Ultrasound.....</b>	<b>322 - 325</b>
Central vein catheter.....	231 - 233	Heart.....	095 - 101	Physio Therapy.....	345 - 348	Urinary system .....	113
Charts .....	337 - 344	Hip examination .....	158	Port.....	234 - 236	<b>Vascular system .....</b>	<b>053, 056, 097</b>
Child nursing manikins .....	161 - 162	Hysteroscopy.....	135	Pregnancy.....	118, 121, 122	Vasectomy .....	148
Coloscopy .....	302 - 303	<b>Implants.....</b>	<b>062 - 064</b>	Pressure ulcer .....	175 - 176	Veterinary models .....	328 - 337
Contraception.....	120, 135	Injection neonate.....	224	Prolapse .....	034 - 037	<b>Wound care.....</b>	<b>177 - 178</b>
CPR.....	256 - 269	Intestine .....	110 - 111	Prostate examination.....	147, 148, 150 - 152	<b>X-Ray.....</b>	<b>306 - 313</b>
CT phantoms.....	314 - 318	Intradermal injection .....	225	<b>Rectal examination.....</b>	<b>151 - 152</b>		
<b>Dental manikins.....</b>	<b>305</b>	Intramuscular injection .....	226 - 229	Rectum.....	111		
Diabetes .....	112, 183 - 185	Intraosseous infusion.....	243 - 244	Rescue manikins.....	282 - 286		



**We were able to repair  
even these models!**

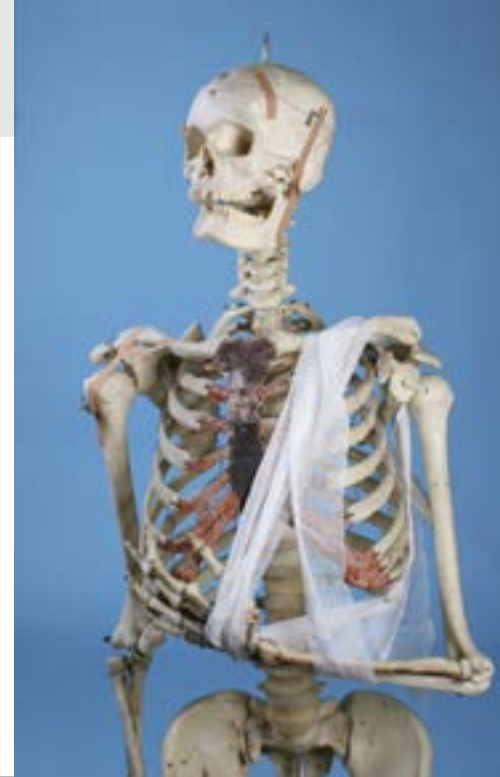
## **No, we do not repair bears, but...**

...**your broken products** can be repaired by us,

- it does not matter where you bought them,
- it does not matter how old they are.

Send us an image of the damage or send the model, we will send you a cost estimate, and you decide **then**, whether you want to have it repaired or not.

Repairing a model is cheaper than buying a new one in most cases.





MARCA LAB

Alverca Park - Núcleo Empresarial  
Armazém Fracção A · Estrada Nacional 10, Km 126,5  
2615-701 Sobralinho - Alverca do Ribatejo · Portugal  
Tlf.: +351 219 598 163  
[www.marcalab.pt](http://www.marcalab.pt) · [geral@marcalab.pt](mailto:geral@marcalab.pt)

